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SITE INVESTIGATION REPORT FOR POTENTIAL SOURCE OF CONTAMINATION 55 NAS JACKSONVILLE FL (DRAFT ACTING AS FINAL)

4/1/2013

TETRA TECH

Site Investigation Report
for
Potential Source of Contamination 55

Naval Air Station Jacksonville
Jacksonville, Florida

Naval Facilities Engineering Command Southeast

Contract No. N62470-08-D-1001
Contract Task Order JM19

April 2013

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SITE INVESTIGATION REPORT
FOR
POTENTIAL SOURCE OF CONTAMINATION 55

NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command Southeast
Building 135, NAS Jacksonville
Jacksonville, Florida 32212-0030

Submitted by:
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CONTRACT NUMBER N62470-08-D-1001
CONTRACT TASK ORDER JM19

APRIL 2013

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ACRONYMS

bls	below land surface
CLEAN	Comprehensive Long-term Environmental Action Navy
CTO	Contract Task Order
F.A.C.	Florida Administrative Code
µg/kg	microgram per kilogram
mg/kg	milligram per kilogram
msl	mean sea level
NA	not analyzed
NAS	Naval Air Station
OU	Operable Unit
PAL	project action limit
PCB	polychlorinated biphenyl
PQL	practical qualification limit
PSC	Potential Source of Contamination
RSL	Regional Screening Level
SAP	Sampling and Analysis Plan
SCTL	Soil Cleanup Target Level
SI	site investigation
SOP	Standard Operating Procedure
SSL	Soil Screening Level
SVOC	semivolatile organic compound
TAL	Target Analyte List
UFP	Uniform Federal Policy
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VOC	volatile organic compound

EXECUTIVE SUMMARY

Tetra Tech, Inc. completed a site investigation (SI) at the suspected sludge disposal area (Potential Source of Contamination [PSC] 55) in accordance with the *Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan) for Site Assessment Activities at Potential Source of Contamination 55* dated June 2011 (Tetra Tech, 2011). The purpose of the site investigation is to develop data that enables the Naval Air Station (NAS) Jacksonville Tier I Partnering Team to evaluate the nature and extent of contamination at PSC 55.

PSC 55 is located northeast of Building 201 (see Figure ES-1). This building is on the eastern side of Catapult Road. The St. Johns River is to the immediate east and north of PSC 55, the main runway is to the southwest, and PSC 08 is to the immediate south.

In early 2004, sludge was identified while clear cutting trees northeast of Building 201. The site is reported to have received sludge from the polishing ponds associated with Operable Unit 2. NAS Jacksonville Environmental contracted Tetra Tech to collect an initial sample to determine if any sludge, or sludge related constituents of concern were associated with the site. Through visual observation and data collected at the site, the Navy and the Partnering Team reached consensus that an SI be initiated at the site to determine if the associated sludge contained any historical constituents of concern related to sludge material. Target analytes were developed, and are based on historical knowledge of the sludge material and contaminants detected at other sludge disposal/holding sites at NAS Jacksonville.

To meet the objective of the SI, samples were collected in August 2011 from soil and groundwater. The soil samples were collected from the surface soil horizon and the subsurface soil horizon. The surface soil horizon is the top 2 feet of soil defined by two intervals, the 0- to 6-inch interval and the 6-inch to 2-foot interval. The subsurface soil horizon is the soil from 2 to 6 feet below land surface (bls) or to the top of the water table, whichever was encountered first. The soil samples were analyzed for Target Analyte List (TAL) metals, semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). Groundwater samples were collected from 10 temporary wells. These wells were installed to a depths ranging from 9.5 to 10 feet bls using ¾ inch schedule 40 polyvinyl chloride with a 5-foot screen interval slotted at 0.010 inch. The groundwater samples were analyzed for TAL metals SVOCs, VOCs, and PCBs.

The soil and groundwater analytical results were compared against project action limits (PALs) that incorporated NAS Jacksonville basewide background concentrations for metals. The concentrations of analytes detected in soil were compared against the PALs associated with human receptors and

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PSC 55 SITE LOCATION
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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FIGURE NO.	REV
ES-1	0

ecological receptors. Therefore, the concentrations of analytes detected in groundwater were only compared against PALs associated with human receptors. Table ES-1 summarizes the exceedances for soil and groundwater.

Table ES-1
Detected Analytes Exceeding PALs

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida

Target Analyte	Exceeds Human Health Groundwater PAL	Exceeds Human Health Soil PAL		Exceeds Ecological Soil PAL
		Surface	Subsurface	0 to 2.0 feet bls(2)
ALUMINUM	*(1)	-	-	*
ARSENIC	*	*	*	*
BARIUM	-	-	-	-
BERYLLIUM	-	-	-	*
CADMIUM	-	*	-	*
CALCIUM	-	-	-	*
CHROMIUM	-	*	-	*
COBALT	-	-	-	-
COPPER	-	-	-	*
IRON	*	-	-	*
LEAD	-	-	-	*
MAGNESIUM	-	-	-	*
MANGANESE	*	-	-	*
MERCURY	-	-	-	*
NICKEL	-	-	-	*
POTASSIUM	-	-	-	-
SELENIUM	-	*	-	*
SILVER	-	-	-	*
SODIUM	*	-	-	*
VANADIUM	-	-	-	*
ZINC	-	-	-	*
ACETONE	-	-	-	-
CARBON DISULFIDE	-	-	-	-
METHYLENE CHLORIDE	-	-	-	-
BENZALDEHYDE	-	-	-	-
BENZO(B)FLUORANTHENE	-	-	-	-
AROCLOR-1260	-	-	-	*
Total	5	4	1	19

(1) * = Analyte concentration exceeded the PAL
(2) This 2-foot zone is considered to be the portion of the soil column most likely to be used by ecological receptors that may inhabit PSC 55.

The analytical results indicated that soil and groundwater at PSC 55 are contaminated (i.e., contain analytes at concentrations above the PALs). The nature of the contamination was determined; however, the areal extent of contamination was not completely delineated in soils. Furthermore, neither the horizontal or vertical extent of contamination was defined in groundwater.

Based on results obtained during this SI, it appears that past activities at PSC 55 affected environmental media and additional “step-out” vertical and horizontal sampling is recommended. The number and location of these additional samples should be developed under a separate sampling and analysis plan.

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

Tetra Tech, Inc. conducted a site investigation (SI) for the Naval Facilities Engineering Command under Contract Task Order (CTO) JM19, for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62470-08-D-1001. The data collected during the SI was used to prepare this SI Report.

The purpose of this SI was to develop data that enables the Naval Air Station (NAS) Tier I Partnering Team to evaluate the nature and extent of contamination at Potential Source of Contamination (PSC) 55. The scope of work involved the collection of soil and groundwater samples that were analyzed for a list of target analytes and the development of this SI Report.

1.2 FACILITY AND SITE LOCATION

NAS Jacksonville was commissioned in October 1940 to provide facilities for air operations and pilot training and a Navy Aviation Trades School for ground crew members. NAS Jacksonville is located in Duval County, Florida on the western bank of the St. Johns River (see Figures 1-1 and ES-1). The facility is approximately 3,800 acres in size, and its current mission is to provide facilities and support for the operation and maintenance of naval weapons and aircraft.

The main portion of NAS Jacksonville is bordered to the north by the Timuquana Country Club, to the east and northeast by the St. Johns River, to the south by a residential area, and to the west by Highway 17 with Westside Regional Park and commercial developments. The facility is located approximately 24 miles inland from the Atlantic Ocean.

NAS Jacksonville is home to Patrol Squadron Thirty (VP-30), the Navy's largest aviation squadron and the only P-3 Orion Fleet Replacement Squadron that prepares and trains U.S. and foreign pilots, aircrew, and maintenance personnel for further operational assignments. Support facilities include an airfield for pilot training, a maintenance depot employing more than 150 different trade skills capable of performing maintenance as basic as changing a tire to intricate micro-electronics or total engine disassembly, a Naval hospital, a Fleet Industrial Supply Center, and a Navy Family Service Center.

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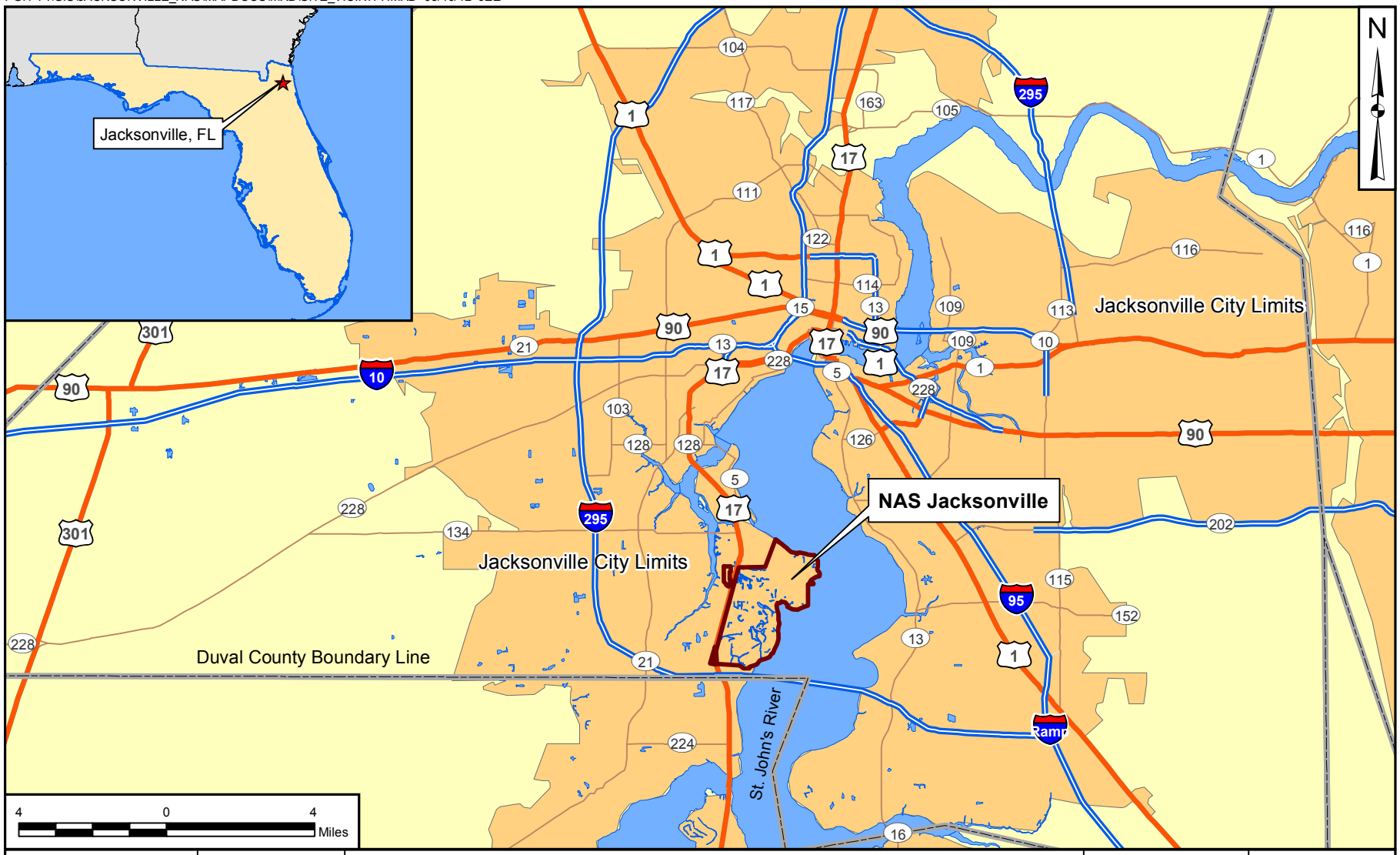

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GENERAL LOCATION MAP
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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FIGURE 1-1	0

PSC 55 is located northeast of Building 201 (see Figure 1-2). This building is on the eastern side of Catapult Road. The St. Johns River is to the immediate east and north of PSC 55, the main runway is to the west, and PSC 08 is to the immediate south.

1.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

The geologic profile at NAS Jacksonville consists of unconsolidated surficial clastic deposits ranging from clean medium- to fine-grained sands to silty fine sands to sandy and silty clay (Fairchild, 1972) underlain by thick deposits of phosphatic sands and clays of the Hawthorn Group (Scott, 1988) and limestones and dolomites of the Floridan aquifer system (Leve, 1966).

The Hawthorn Group is significant at NAS Jacksonville because it contains as much as 200 feet of low permeability silty, sandy clay (Scott, 1988). This low permeability unit acts as an aquiclude for the underlying Floridan aquifer system. The Floridan aquifer system is the major source of potable water in the Jacksonville area and throughout much of northeastern and central Florida.

1.4 TOPOGRAPHY AND DRAINAGE

NAS Jacksonville is located in the Coastal Plain physiographic province. The Coastal Plain is composed of marine sediments deposited in terraces which originated due to prehistoric fluctuations in sea level. The terrace deposits are in the form of ridges that tend to parallel the current coastline. The terrace deposits are characterized by very low relief with gentle slopes to the east-southeast. Seven terraces are present in northeastern Florida with NAS Jacksonville located within the Pamlico terrace (10 to 25 feet above mean sea level [msl]).

The sludge within PSC 55 is contained to the north, west and south by a berm (approximately 5 to 10 feet above msl) and to the east by the St. Johns River, The area inside the berm is virtually flat with a gentle slope to the east. Based on information provided on the United States Geological Survey (USGS) Orange Park, Florida 7.5-minute quadrangle (USGS, 1993), surface elevation at the site ranges from 2 to 5 feet above msl (see Figure 1-3). Surface water at PSC 55 drains to the east in the direction of the St. Johns River.

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AERIAL PHOTOGRAPH
PSC 55 - SLUDGE DISPOSAL AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

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1.5 LAND USE IN SITE VICINITY

The southwestern portion of PSC 55 is approximately 800 feet northeast of the southeastern portion of the flightline. PSC 55 is inaccessible to most people at NAS Jacksonville. Current land use in and around PSC 55 is secure and restricted due to the proximity of the flightline and will remain so for the near future. Since there is little human activity associated with PSC 55 and the area is covered by heavy vegetation and abuts the St. Johns River, (see Figure 1-2), the site provides an ideal habitat for ecological receptors.

1.6 SITE DESCRIPTION

The suspected sludge disposal area (PSC 55) is heavily wooded and contains vast vegetation that may be associated with wet low-lying areas that drain into the St. Johns River. An aerial photograph of PSC 55 that shows the site features and the surrounding area is presented on Figure 1-2. Site photographs are provided in Appendix A.

1.7 SITE HISTORY AND OPERATIONS

In early 2004, sludge was identified while clear cutting trees northeast of Building 201. The site is reported to have received sludge from the waste water treatment plant associated with Operable Unit (OU) 2 (Tetra Tech, 2004).

1.8 PURPOSE OF SITE INVESTIGATION

The purpose of this SI is to develop data that enables the NAS Jacksonville Tier I Partnering Team to evaluate the nature and extent of contamination at PSC 55. The scope of work involved the collection of soil and groundwater samples that were analyzed for a list of target analytes and the development of this SI Report. Target analytes were developed and documented in the Sampling and Analysis Plan (SAP) and are based on historical knowledge of the sludge material and contaminants detected at other sludge disposal/holding sites at NAS Jacksonville.

The primary objective of this SI is to determine if contamination exceeding project action limits (PALs) exists for soil and groundwater at PSC 55. The PALs, as presented in the PSC 55 Site Investigation SAP (Tetra Tech, 2011), were as follows:

Soil

- NAS Jacksonville Basewide Background Concentrations (for metals).
- Soil Cleanup Target Levels (SCTLs) for Florida per Chapter 62-777, Florida Administrative Code (F.A.C.), Table II (Soils) – residential direct exposure (SCTL-RES) and leachability based on groundwater criteria (SCTL-LCH).
- The laboratory practical qualification limits (PQLs) should be used if they are less stringent than the Cleanup Target Level (CTL) according to Chapter 62-780.680(2)(b)2.a.(III), F.A.C. The PQL is the lowest concentration that a laboratory can accurately report on a chemical.
- United States Environmental Protection Agency (USEPA) Regions 3, 6, and 9 (May 2010 or more recent) Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites – residential soil values (USEPA-RSL) and risk-based migration to groundwater Soil Screening Levels (SSLs) (USEPA-RISK).
- USEPA-ECO – the lowest Ecological SSL for plants, soil invertebrates, birds, and mammals (for ecological receptors screening) (USEPA, 2005).
- Region 4 Ecological Soil Screening Values for soil (for ecological receptors screening) (USEPA, 2001).

Groundwater

- NAS Jacksonville Basewide Background Concentrations (for metals).
- Florida Department of Environmental Protection Groundwater Cleanup Target Levels (GCTLs), Chapter 62-777, F.A.C., Table I (Groundwater).
- Florida Drinking Water Standards, Chapter 62-550.310, F.A.C.
- The laboratory PQL should be used if it is less stringent than the CTL, according to Chapter 62-780.680(1)(c), F.A.C. The PQL is the lowest concentration that a laboratory can accurately report on a chemical.

2.0 SUBSURFACE INVESTIGATION METHODS

2.1 QUALITY ASSURANCE

The SI was conducted in accordance with the Standard Operating Procedures (SOPs) described in the PSC 55 SAP (Tetra Tech, 2011).

2.2 SOIL QUALITY ASSESSMENT

2.2.1 Soil Borings and Sampling Methods

Surface and subsurface soil sampling was conducted at PSC 55 via hand auger in accordance with SOPs presented in the SAP (Tetra Tech, 2011). Soil samples were collected over a 2-day interval (August 11 and August 12, 2011) at 10 locations (see Figure 2-1). Samples were collected from the surface soil interval (identified as the top 2 feet of soil defined by two intervals, the 0- to 6-inch interval and the 6-inch to 2-foot interval) and the subsurface soils identified as the soil from 2 to 6 feet below land surface (bls) or to the top of the water table, whichever was encountered first. The soil samples collected on August 11, 2011, were packed in ice and shipped on August 12, 2011, with the samples collected on August 12, 2011, to Empirical Laboratories for analysis (see Section 2.2.2).

2.2.2 Soil Samples Fixed-Base Laboratory Analysis

Thirty seven soil samples (field and duplicate) were shipped to Empirical Laboratories for target analyte analysis (see Table B-1 in Appendix B). The target analytes were: Target Analyte List (TAL) metals semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). The distribution of field samples by soil sample interval and analytical group is shown in Table 2-1. The soil sampling locations by sample interval and analytical group are presented in Table 2-2.

2.3 GROUNDWATER QUALITY ASSESSMENT

2.3.1 DPT Groundwater Sampling Methods

Ten temporary wells were installed in accordance with standard operating procedures presented in the SAP (Tetra Tech, 2011) during the period from August 3, 2011 through August 5, 2011, (see Figure 2-2). These wells were installed to depths ranging from 9.5 to 10 feet bls using ¾ inch schedule 40 polyvinyl chloride with a 5-foot screen interval slotted at 0.010 inch.

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SOIL SAMPLE LOCATIONS
PSC 55 - SLUDGE DISPOSAL AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

Table 2-1
Distribution of Field Samples by Soil Sample Interval and Analytical Group

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida

Analytical Group	Total Number of Samples(1)	Sample Interval			
		0 to 0.5 foot bls	0.5 to 2 feet bls	2 to 4 feet bls	4 to 6 feet bls
TAL Metals	33	10	10	10	3
PCBs	33	10	10	10	3
SVOC	12	4	4	4	0
VOCs	8	0	4	4	0

(1) Duplicate samples not included in the count.

The locations of the temporary wells was based on an understanding of how the sludge may have been placed in the site and physical observations of the area by a Tetra Tech environmental scientist prior to the collection of samples. The goal was to have an array of sample locations that covered the site.

Groundwater samples were collected from these temporary wells during the period from August 9, 2011 through August 15, 2011; the temporary wells were removed immediately after samples were collected. Groundwater samples were collected using a peristaltic pump and sterile Teflon® and medical-grade silicon tubing. The tubing was lowered through the temporary well to within 2 feet from the bottom of the borehole and attached to a peristaltic pump using silicon tubing. Samples were collected following 5 minutes of purging. The groundwater samples were placed in pre-packed coolers and shipped, on the day the samples were collected, to Empirical Laboratories for analysis (see Section 2.3.2). All development water was containerized for disposal in 55-gallon steel drums.

2.3.2 Groundwater Samples Laboratory Analysis

Twelve groundwater samples (field and duplicate) were shipped to Empirical Laboratories for target analyte analysis (see Table B-2 in Appendix B). The target analytes included TAL metals SVOCs, VOCs, and PCBs. The groundwater sampling locations by analytical group are presented in Table 2-3.

Table 2-2
PSC 55 Soil Sampling Locations by Sample Interval and Analytical Group

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida

Sampling Location	Identification Number	Depth (feet)	Analytical Group	Number of Samples (field duplicates identified)
55S01	55SS01-000x	0 to 0.5	Metals and PCBs	1
	55SS01-0x02	0.5 to 2	Metals and PCBs	1
	55SB01-0204	2 to 4	Metals and PCBs	1
55S02	55SS02-000x	0 to 0.5	Metals and PCBs	1
	55SS02-0x02	0.5 to 2	Metals and PCBs	1
	55SB02-0204	2 to 4	Metals and PCBs	1
	55SB02-0406	4 to 6	Metals and PCBs	1
55S03	55SS03-000x	0 to 0.5	Metals, PCBs, and SVOCs	1 + duplicate
	55SS03-0x02	0.5 to 2	Metals, PCBs, SVOCs, and VOCs	1
	55SB03-0204	2 to 4	Metals, PCBs, SVOCs, and VOCs	1
55S04	55SS04-000x	0 to 0.5	Metals, PCBs, and SVOCs	1 + duplicate
	55SS04-0x02	0.5 to 2	Metals, PCBs, SVOCs, and VOCs	1 + duplicate
	55SB04-0204	2 to 4	Metals, PCBs, SVOCs, and VOCs	1 + duplicate
55S05	55SS05-000x	0 to 0.5	Metals and PCBs	1
	55SS05-0x02	0.5 to 2	Metals and PCBs	1
	55SB05-0204	2 to 4	Metals and PCBs	1
	55SB05-0606	4 to 6	Metals and PCBs	1
55S06	55SS06-000x	0 to 0.5	Metals and PCBs	1
	55SS06-0x02	0.5 to 2	Metals and PCBs	1
	55SB06-0204	2 to 4	Metals and PCBs	1
55S07	55SS07-000x	0 to 0.5	Metals, PCBs, and SVOCs	1
	55SS07-0x02	0.5 to 2	Metals, PCBs, SVOCs, and VOCs	1
	55SB07-0204	2 to 4	Metals, PCBs, SVOCs, and VOCs	1
55S08	55SS08-000x	0 to 0.5	Metals and PCBs	1
	55SS08-0x02	0.5 to 2	Metals and PCBs	1
	55SB08-0204	2 to 4	Metals and PCBs	
	55SB08-0406	4 to 6	Metals and PCBs	1
55S09	55SS09-000x	0 to 0.5	Metals, PCBs, and SVOCs	1
	55SS09-0x02	0.5 to 2	Metals, PCBs, SVOCs, and VOCs	1
	55SB09-0204	2 to 4	Metals, PCBs, SVOCs, and VOCs	1
55S10	55SS10-000x	0 to 0.5	Metals and PCBs	1
	55SS10-0x02	0.5 to 2	Metals and PCBs	1
	55SB10-0204	2 to 4	Metals and PCBs	1

Note:
The x in the identification number represents the 0.5" soil sampling interval denoted in the Uniform Federal Policy-Sampling and Analysis Plan (UFP-SAP).

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GROUNDWATER SAMPLE LOCATIONS
PSC 55 - SLUDGE DISPOSAL AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

Table 2-3
PSC 55 Groundwater Sampling Locations by Analytical Group

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida

Sampling Location	Identification Number	Analytical Group	Field (F) or Duplicate (D)	Installed Depth (feet bls)	Screen Interval
55GW01	55TW01-0008-08092011	Metals and PCBs	F	9.5	4.5 – 9.5
55GW01	55TW01-0008-08092011-D	Metals and PCBs	D	9.5	4.5 – 9.5
55GW02	55TW02-0012-08102011	Metals and PCBs	F	10	5 – 10
55GW03	55TW03-0008-08152011	Metals, PCBs, SVOCS, and VOCs	F	10	5 – 10
55GW03	55TW03-0008-08152011-D	Metals, PCBs, SVOCS, and VOCs	D	10	5 – 10
55GW04	55TW04-0008-08152011	Metals, PCBs, SVOCS, and VOCs	F	10	5 – 10
55GW05	55TW05-0008-08102011	Metals and PCBs	F	10	5 – 10
55GW06	55TW06-0008-08102011	Metals and PCBs	F	10	5 – 10
55GW07	55TW07-0009-08152011	Metals, PCBs, SVOCS, and VOCs	F	10	5 – 10
55GW08	55TW08-0008-08092011	Metals and PCBs	F	10	5 – 10
55TW09	55TW09-0008-08152011	Metals, PCBs, SVOCS, and VOCs	F	10	5 – 10
55TW10	55TW10-0008-08102011	Metals and PCBs	F	9.5	4.5 – 9.5

3.0 RESULTS OF INVESTIGATION

3.1 SITE GEOLOGY AND HYDROGEOLOGY

3.1.1 Lithology

As indicated on the borings logs presented in Appendix C, the shallow lithology is relatively uniform across the site. The immediate surface is leafy organic material. Fine hard sand and sandy silts characterize the immediate subsurface (0.25 to 1.0 feet bls). The fine sand continues for up to another 1 foot (1 to 2 feet bls). Clay fine sand with varying amounts of sludge or dredge material was observed to lie from 2 to 9 feet bls. The wells were installed from between 9.5 to 10 feet bls; therefore, the lithologic descriptions stop at 9 feet bls.

3.1.2 Groundwater Occurrence

Based on information obtained during the SI, it was determined that depth-to-water at PSC 55 ranged from 5 feet to 6.5 feet bls. Groundwater flow direction (potentiometric) maps were not generated as part of the SI due to lack of access to the site, difficulties in well surveys, temporary well points, etc.; however, the eastern portion of the site borders the St. Johns River. Groundwater at PSC 55 is believed to flow from west-to-east and discharges into the St. Johns River.

3.1.3 Aquifer Classification and Characteristics

The surficial aquifer underlying NAS Jacksonville is classified as a G-II aquifer by Chapter 62-520.410, F.A.C. The site abuts the St. Johns River which, at this point along the river, experiences changes in elevation due to tides. These changes in river elevation impact groundwater elevation and groundwater conductivity as, during high tide events, brackish water will enter the surficial aquifer. Lithologic data from the nearby Gas Hill site shows that native material (a stiff, mottled sandy clay/clayey sand) was encountered at depths ranging from approximately 18 to 24 feet bls. This stiff sandy clay/clayey sand corresponds with a fat clay documented in the 1992 contamination assessment report, and is several feet thick and underlies the unconsolidated sands across the site (CH2MHill, 2010). The low-permeability clay layer acts as a confining layer that correlates with a clay aquitard that occurs between 17 and 23 feet bls (CH2MHill, 2010).

3.2 SOIL AND GROUNDWATER SAMPLE ANALYTICAL RESULTS

The purpose of the SI was to develop data that enables the NAS Jacksonville Tier I Partnering Team to evaluate the nature and extent of contamination at PSC 55. The results of the SI confirmed that analyte concentrations in excess of PALs are present in soil and groundwater.

The quality of the chemical analytical data collected during the investigation of PSC 55 was documented (see Appendix B). The analytical data review process was completed for all laboratory data packages in accordance with the USEPA Functional Guidelines for Organic Data Validation (10/99), the "National Functional Guidelines for Inorganic Review", October 2004, and Department of Defense document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009). The data set compiled using these guidelines was considered acceptable for use in this SI.

A summary of detections in excess of the PALs by media and analyte is presented in Table 3-1. Information on soil and groundwater quality is presented in Sections 3.2.1 and 3.2.2.

Table 3-1
Detected Analytes Exceeding PALs

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Target Analyte	Exceeds Human Health Groundwater PAL	Exceeds Human Health Soil PAL		Exceeds Ecological Soil PAL
		Surface	Subsurface	0 to 2.0 feet bls(2)
ALUMINUM	*(1)	-	-	*
ARSENIC	*	*	*	*
BARIUM	-	-	-	-
BERYLLIUM	-	-	-	*
CADMIUM	-	*	-	*
CALCIUM	-	-	-	*
CHROMIUM	-	*	-	*
COBALT	-	-	-	-
COPPER	-	-	-	*
IRON	*	-	-	*
LEAD	-	-	-	*
MAGNESIUM	-	-	-	*
MANGANESE	*	-	-	*
MERCURY	-	-	-	*
NICKEL	-	-	-	*
POTASSIUM	-	-	-	-
SELENIUM	-	*	-	*
SILVER	-	-	-	*
SODIUM	*	-	-	*
VANADIUM	-	-	-	*
ZINC	-	-	-	*
ACETONE	-	-	-	-
CARBON DISULFIDE	-	-	-	-
METHYLENE CHLORIDE	-	-	-	-
BENZALDEHYDE	-	-	-	-
BENZO(B)FLUORANTHENE	-	-	-	-
AROCLOR-1260	-	-	-	*
Total	**5**	**4**	**1**	**19**

(1) * = Analyte concentration exceeded the PAL
(2) This 2-foot zone is considered to be the portion of the soil column most likely to be used by ecological receptors that may inhabit PSC 55.

3.2.1 Soil Sample Analytical Results

Thirty-three field soil samples were collected from surface and subsurface soil horizons and analyzed for TAL metals, SVOCs, VOCs, and PCBs (see Appendix B). The surface soil horizon is from land surface to 2.0 feet bls. The subsurface soil horizon is from 2 to 6 feet bls or from 2 feet bls to the top of the water table, whichever is encountered first. The distribution of field samples by soil sample interval and analytical group is shown in Table 2-1. The concentrations of detected analytes were compared against the PALs associated with human receptors and ecological receptors. The results of these comparisons are discussed in Sections 3.2.1.1 and 3.2.1.2.

3.2.1.1 Detections Above the Human Health PALs

Twenty-seven analytes were detected in one or more soil samples (see Table 3-2). Four of the analytes (arsenic, cadmium, chromium, and selenium) were detected above a PAL associated with human receptors (see Figure 3-1). Three of these analytes were only detected above a PAL in surface soil samples (see Table 3-3).

3.2.1.2 Detections Above the Ecological PALs

Nineteen of the 27 detected target analytes were detected above an ecological PAL in one or more soil samples collected within land surface to 2.0 feet bls (see Table 3-4 and Figure 3-2). This 2-foot zone is considered to be the portion of the soil column most likely to be used by ecological receptors that may inhabit PSC 55. The analytes detected above an ecological PAL include aluminum, arsenic, beryllium, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, silver, sodium, vanadium, zinc, and aroclor-1260.

Samples were collected from two discreet intervals within this 2-foot zone. One sample interval was 0 to 0.5 foot bls and the other was 0.5 to 2 feet bls. There was no difference between these two intervals with respect to number of analytes that were detected above an ecological PAL. The same 19 analytes were detected above their respective ecological PAL in both sample intervals (see Table 3-5).

3.2.2 Groundwater Analytical Results

Twenty analytes were detected in one or more groundwater samples (see Table 3-6). Five of the analytes (aluminum, arsenic, iron, manganese, and sodium) were detected above a PAL associated with human receptors (see Figure 3-3).

Table 3-2
Comparison of Soil Analytical Results with Human Health PALs

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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB01	55SB01	55SB01	55SB02
SAMPLE IDENTIFICATION					55SS01-000X	55SS01-0X02	55SB01-0204	55SS02-000X
SAMPLE DATE					20110811	20110811	20110811	20110811
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**8790**	**11900**	**8030**	**15700**
ARSENIC	0.8 / 1.48	2.1	12	NC	**5.63**	**4.49**	**21**	**7.73**
BARIUM	11.2 / 20.8	120	130000	1600	**34**	**64.4**	**29.1**	**44.8**
BERYLLIUM	NA / 0.49	120	1400	63	**0.922**	**1.16**	**1.18**	**0.52 J**
CADMIUM	NA	82	1700	7.5	0.125 U	0.128 U	0.153 U	**2.01**
CALCIUM	2360 / 668	NC	NC	NC	**8980**	**15800**	**11000**	**2300**
CHROMIUM	6.6 / 14.1	210	470	38	**16.5**	**22.2**	**15.3**	**79**
COBALT	NA	1700	42000	NC	**4.32**	**3.98**	**3.69**	1.74 U
COPPER	5.8 / NA	150	89000	NC	**10.4**	**3.67**	**2.6**	**30.1**
IRON	852 / 5818	53000	NC	NC	**15200**	**20200**	**18400**	**26400**
LEAD	14.4 / 6.46	400	1400	NC	**9.99**	**11.7**	**10.7**	**62.1**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**2530**	**3440**	**2380**	**1750**
MANGANESE	18 / 6.9	3500	43000	NC	**306**	**192**	**117**	**90.3**
MERCURY	NA	3	17	2.1	**0.0242**	**0.0298**	**0.0328 J**	**0.537**
NICKEL	11 / NA	340	35000	130	**5.07**	**6.07**	**6.09**	**7.47**
POTASSIUM	NA / 450.7	NC	NC	NC	**1130**	**1660**	**1410**	**1030 J**
SELENIUM	NA	440	11000	5.2	0.374 U	0.385 U	0.458 U	**2.28**
SILVER	NA	410	8200	17	0.125 U	0.257 U	0.153 U	**2.68 J**
SODIUM	288 / 343.1	NC	NC	NC	**142 J**	**196**	**170 J**	348 U
VANADIUM	3.8 / NA	67	10000	980	**19.6**	**26.2**	**18.6**	**27.4**
ZINC	15.2 / 14.5	26000	630000	NC	**24.2**	**26.2**	**22.2**	**72.8**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25				
CARBON DISULFIDE	NA	270	1500	5.6				
METHYLENE CHLORIDE	NA	17	26	0.02				
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4				
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8				
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00527 U	0.00542 U	0.00613 U	**0.365 J**

Table 3-2
Comparison of Soil Analytical Results with Human Health PALs

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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB02	55SB02	55SB02	55SB03
SAMPLE IDENTIFICATION					55SS02-0X02	55SB02-0204	55SB02-0406	55SS03-000X
SAMPLE DATE					20110811	20110811	20110811	20110812
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**263**	**13900**	**14500**	**7420**
ARSENIC	0.8 / 1.48	2.1	12	NC	0.306 U	**5.44**	**6.17**	**4.78**
BARIUM	11.2 / 20.8	120	130000	1600	**1.17 J**	**46.8**	**54.3**	**23.6**
BERYLLIUM	NA / 0.49	120	1400	63	0.102 U	**1.92**	**1.42**	**0.817**
CADMIUM	NA	82	1700	7.5	0.102 U	**4.97**	0.251 U	**0.805**
CALCIUM	2360 / 668	NC	NC	NC	102 U	**5300**	**14000**	**6890**
CHROMIUM	6.6 / 14.1	210	470	38	**1.58**	**26.1**	**27.4**	**17.7**
COBALT	NA	1700	42000	NC	0.509 U	**5.71**	**4.75**	**2.83**
COPPER	5.8 / NA	150	89000	NC	0.407 U	**4.72**	**4.51**	**6.58**
IRON	852 / 5818	53000	NC	NC	**341**	**23100**	**25700**	**12200**
LEAD	14.4 / 6.46	400	1400	NC	**2.6**	**12.3**	**13.3**	**17.4**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	102 U	**4050**	**4380**	**2090**
MANGANESE	18 / 6.9	3500	43000	NC	**1.54**	**435**	**209**	**155**
MERCURY	NA	3	17	2.1	0.0122 U	**0.0393**	**0.0327 J**	**0.0752**
NICKEL	11 / NA	340	35000	130	0.306 U	**11.7**	**8.2**	**5.9**
POTASSIUM	NA / 450.7	NC	NC	NC	102 U	**2100**	**1860**	**1140**
SELENIUM	NA	440	11000	5.2	0.306 U	0.186 U	0.376 U	0.352 U
SILVER	NA	410	8200	17	0.102 U	0.186 U	0.251 U	0.117 U
SODIUM	288 / 343.1	NC	NC	NC	102 U	**91.5 J**	**138 J**	117 U
VANADIUM	3.8 / NA	67	10000	980	**0.669 J**	**22.3**	**32**	**17.8**
ZINC	15.2 / 14.5	26000	630000	NC	**1.55 J**	**29.9**	**28.8**	**35.9**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25				
CARBON DISULFIDE	NA	270	1500	5.6				
METHYLENE CHLORIDE	NA	17	26	0.02				
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4				0.0963 UJ
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8				**0.635 J**
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00431 U	0.00509 U	0.00513 UJ	0.00489 U

Table 3-2
Comparison of Soil Analytical Results with Human Health PALs

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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB03	55SB03	55SB03	55SB04
SAMPLE IDENTIFICATION					55SS03-000X-D	55SS03-0X02	55SB03-0204	55SS04-000X
SAMPLE DATE					20110812	20110812	20110812	20110812
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**7500**	**10700**	**9450**	**15500**
ARSENIC	0.8 / 1.48	2.1	12	NC	**4.52**	**6.39**	**5.34**	**8.54**
BARIUM	11.2 / 20.8	120	130000	1600	**19.8**	**40.7**	**35.4**	**36**
BERYLLIUM	NA / 0.49	120	1400	63	**0.82**	**1.26**	**1.17**	**0.566 J**
CADMIUM	NA	82	1700	7.5	**0.434 J**	0.135 U	0.286 U	**5.1**
CALCIUM	2360 / 668	NC	NC	NC	**4540**	**14600**	**7400**	**2890**
CHROMIUM	6.6 / 14.1	210	470	38	**16.2**	**20.5**	**17.8**	**62.8**
COBALT	NA	1700	42000	NC	**2.88**	**3.51**	**4.82**	1.76 U
COPPER	5.8 / NA	150	89000	NC	**3.65**	**4.59**	**3.24**	**25.8**
IRON	852 / 5818	53000	NC	NC	**11700**	**17700**	**20300**	**31900**
LEAD	14.4 / 6.46	400	1400	NC	**13.9**	**11.3**	**11.1**	**54.4**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**2050**	**3170**	**2950**	**1790**
MANGANESE	18 / 6.9	3500	43000	NC	**107**	**95.7**	**159**	**134**
MERCURY	NA	3	17	2.1	**0.048**	**0.0311 J**	**0.0342 J**	**0.588**
NICKEL	11 / NA	340	35000	130	**4.63**	**6.26**	**7.27**	**8.36**
POTASSIUM	NA / 450.7	NC	NC	NC	**1150**	**1410**	**1480**	**922 J**
SELENIUM	NA	440	11000	5.2	0.349 U	0.405 U	0.43 U	**2.78 J**
SILVER	NA	410	8200	17	0.116 U	0.135 U	0.143 U	**1.6 J**
SODIUM	288 / 343.1	NC	NC	NC	116 U	**664 J**	**486 J**	351 U
VANADIUM	3.8 / NA	67	10000	980	**17.1**	**21**	**17.8**	**30.5**
ZINC	15.2 / 14.5	26000	630000	NC	**23.9**	**23.2**	**23.5**	**75.5**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25		**0.126 J**	**0.0324 J**	
CARBON DISULFIDE	NA	270	1500	5.6		**0.00402 J**	0.00145 U	
METHYLENE CHLORIDE	NA	17	26	0.02		**0.00618 J**	**0.00744 J**	
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4	0.0962 UJ	0.11 UJ	0.112 UJ	0.228 UJ
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8	**0.47 J**	0.11 U	0.112 U	0.228 UJ
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00491 U	0.00546 UJ	0.00582 UJ	**0.0943 J**

Table 3-2
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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB04	55SB04	55SB04	55SB04
SAMPLE IDENTIFICATION					55SS04-000X-D	55SS04-0X02	55SS04-0X02-D	55SB04-0204
SAMPLE DATE					20110812	20110812	20110812	20110812
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**17200**	**15400**	**15700**	**4460 J**
ARSENIC	0.8 / 1.48	2.1	12	NC	**8.34**	**9.03**	**8.65**	**2.99 J**
BARIUM	11.2 / 20.8	120	130000	1600	**32.6**	**29.3**	**33.4**	**7.59 J**
BERYLLIUM	NA / 0.49	120	1400	63	**0.572 J**	**0.472 J**	**0.517 J**	**0.161 J**
CADMIUM	NA	82	1700	7.5	**4.47**	**2.57**	**4.24**	**0.413 J**
CALCIUM	2360 / 668	NC	NC	NC	**2010**	**977 J**	**1410 J**	**199 J**
CHROMIUM	6.6 / 14.1	210	470	38	**79.7**	**64**	**68.6**	**19**
COBALT	NA	1700	42000	NC	1.83 U	1.79 U	1.74 U	0.493 U
COPPER	5.8 / NA	150	89000	NC	**32**	**27.6**	**30.4**	**7.83 J**
IRON	852 / 5818	53000	NC	NC	**29000**	**33100**	**29700**	**8190 J**
LEAD	14.4 / 6.46	400	1400	NC	**65.7**	**58.8**	**65.2**	**17.5 J**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**1820 J**	**1630 J**	**1670 J**	**527 J**
MANGANESE	18 / 6.9	3500	43000	NC	**100**	**60.3**	**94**	**16.5 J**
MERCURY	NA	3	17	2.1	**0.645**	**0.557**	**0.698**	**0.222 J**
NICKEL	11 / NA	340	35000	130	**8.36**	**7.04**	**7.67**	**1.74 J**
POTASSIUM	NA / 450.7	NC	NC	NC	**932 J**	**993 J**	**936 J**	**362 J**
SELENIUM	NA	440	11000	5.2	**2.65 J**	**2.55 J**	**2.75 J**	**0.77 J**
SILVER	NA	410	8200	17	**3.21 J**	**1.67 J**	**1.99 J**	**0.521 J**
SODIUM	288 / 343.1	NC	NC	NC	366 U	358 U	348 U	98.6 U
VANADIUM	3.8 / NA	67	10000	980	**30.3**	**30.6**	**30.2**	**10.1 J**
ZINC	15.2 / 14.5	26000	630000	NC	**85.1**	**69.2**	**80.6**	**24.2**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25		**0.115 J**	**0.105 J**	**0.0227 J**
CARBON DISULFIDE	NA	270	1500	5.6		0.00226 U	0.00233 U	0.00134 U
METHYLENE CHLORIDE	NA	17	26	0.02		**0.0196**	**0.0147 J**	**0.00626 J**
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4	0.247 UJ	0.242 UJ	0.237 UJ	0.17 UJ
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8	0.247 UJ	0.242 U	0.237 U	0.17 U
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	**0.0941 J**	**0.117 J**	**0.0815 J**	**0.0613 J**

Table 3-2
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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB04	55SB05	55SB05	55SB05
SAMPLE IDENTIFICATION					55SB04-0204-D	55SS05-000X	55SS05-0X02	55SB05-0204
SAMPLE DATE					20110812	20110811	20110811	20110811
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**8240 J**	**9680**	**9930**	**8460**
ARSENIC	0.8 / 1.48	2.1	12	NC	**13.3 J**	**6.97**	**6.52**	**9.26**
BARIUM	11.2 / 20.8	120	130000	1600	**26.7 J**	**32.1**	**34.2**	**20.7**
BERYLLIUM	NA / 0.49	120	1400	63	**1.19**	**1.13**	**1.06**	**0.945**
CADMIUM	NA	82	1700	7.5	0.126 U	**0.199 J**	0.119 U	0.118 U
CALCIUM	2360 / 668	NC	NC	NC	**4950 J**	**5400**	**31500**	**6580**
CHROMIUM	6.6 / 14.1	210	470	38	**16**	**18.7**	**17.9**	**17.4**
COBALT	NA	1700	42000	NC	**4.13**	**4.46**	**4.49**	**3.39**
COPPER	5.8 / NA	150	89000	NC	**3.18 J**	**4.11**	**3.24**	**3.79**
IRON	852 / 5818	53000	NC	NC	**18100 J**	**15600**	**16700**	**13500**
LEAD	14.4 / 6.46	400	1400	NC	**9.89 J**	**12.2**	**10.5**	**10.8**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**2840 J**	**2660**	**2620**	**2560**
MANGANESE	18 / 6.9	3500	43000	NC	**103 J**	**150**	**109**	**92.1**
MERCURY	NA	3	17	2.1	**0.0268 J**	**0.0389**	**0.0272 J**	**0.0247 J**
NICKEL	11 / NA	340	35000	130	**7.09 J**	**6.67**	**6.13**	**5.09**
POTASSIUM	NA / 450.7	NC	NC	NC	**1100**	**1660**	**1360**	**1330**
SELENIUM	NA	440	11000	5.2	0.377 U	0.353 U	0.358 U	0.354 U
SILVER	NA	410	8200	17	0.251 U	**0.178 J**	0.238 U	0.118 U
SODIUM	288 / 343.1	NC	NC	NC	126 U	118 U	**290 J**	**403 J**
VANADIUM	3.8 / NA	67	10000	980	**18.5 J**	**20**	**20.2**	**17.5**
ZINC	15.2 / 14.5	26000	630000	NC	**21**	**23.5**	**22.9**	**22.6**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25	**0.0221 J**			
CARBON DISULFIDE	NA	270	1500	5.6	0.00134 U			
METHYLENE CHLORIDE	NA	17	26	0.02	**0.00604 J**			
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4	0.1 UJ			
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8	0.1 U			
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00513 UJ	0.00485 U	0.00491 U	0.00495 U

Table 3-2
Comparison of Soil Analytical Results with Human Health PALs

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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB05	55SB06	55SB06	55SB06
SAMPLE IDENTIFICATION					55SB05-0406	55SS06-000X	55SS06-0X02	55SB06-0204
SAMPLE DATE					20110811	20110811	20110811	20110811
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**10000**	**13300**	**35600**	**6650**
ARSENIC	0.8 / 1.48	2.1	12	NC	**4.35**	**10.3**	**14.1**	**3.12**
BARIUM	11.2 / 20.8	120	130000	1600	**42.7**	**36.7**	**96.3**	**21.6**
BERYLLIUM	NA / 0.49	120	1400	63	**1.08**	**0.707 J**	**2.22**	**0.716**
CADMIUM	NA	82	1700	7.5	0.129 U	**7.12**	**18.7**	0.12 U
CALCIUM	2360 / 668	NC	NC	NC	**6690**	**5870**	**17500**	**2970**
CHROMIUM	6.6 / 14.1	210	470	38	**19.2**	**63.4**	**265**	**12.7**
COBALT	NA	1700	42000	NC	**6.79**	1.99 U	**4.65 J**	**2.5**
COPPER	5.8 / NA	150	89000	NC	**2.88**	**24.4**	**84.5**	**2.41**
IRON	852 / 5818	53000	NC	NC	**17000**	**32200**	**33500**	**14300**
LEAD	14.4 / 6.46	400	1400	NC	**10.6**	**56.6**	**226**	**7.41**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**3170**	**1930 J**	**4900**	**2040**
MANGANESE	18 / 6.9	3500	43000	NC	**207**	**127**	**142**	**69.2**
MERCURY	NA	3	17	2.1	**0.0332 J**	**0.505**	**0.589**	**0.0206 J**
NICKEL	11 / NA	340	35000	130	**6.57**	**9.57**	**32.3**	**3.57**
POTASSIUM	NA / 450.7	NC	NC	NC	**1580**	**874 J**	**2210**	**1090**
SELENIUM	NA	440	11000	5.2	0.388 U	**2.5 J**	**5.83**	0.361 U
SILVER	NA	410	8200	17	0.258 U	**1.9 J**	**8.12**	0.12 U
SODIUM	288 / 343.1	NC	NC	NC	**280 J**	397 U	**529 J**	**130 J**
VANADIUM	3.8 / NA	67	10000	980	**17.3**	**25.6**	**60.3**	**12.9**
ZINC	15.2 / 14.5	26000	630000	NC	**24**	**73.6**	**242**	**18.8**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25				
CARBON DISULFIDE	NA	270	1500	5.6				
METHYLENE CHLORIDE	NA	17	26	0.02				
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4				
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8				
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00525 U	**0.138 J**	**0.0757**	0.00516 U

Table 3-2
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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB07	55SB07	55SB07	55SB08
SAMPLE IDENTIFICATION					55SS07-000X	55SS07-0X02	55SB07-0204	55SS08-000X
SAMPLE DATE					20110812	20110812	20110812	20110811
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**9240**	**5990**	**9840**	**15000**
ARSENIC	0.8 / 1.48	2.1	12	NC	**5.29**	**3.26**	**8.12**	**8.54**
BARIUM	11.2 / 20.8	120	130000	1600	**21.4**	**13.4**	**31.9**	**32.8**
BERYLLIUM	NA / 0.49	120	1400	63	**1.05**	**0.702**	**1.16**	0.409 U
CADMIUM	NA	82	1700	7.5	**0.144 J**	0.128 U	0.249 U	**1.06 J**
CALCIUM	2360 / 668	NC	NC	NC	**5420**	**6810**	**5170**	**777 J**
CHROMIUM	6.6 / 14.1	210	470	38	**18.4**	**11.9**	**19.2**	**82.6**
COBALT	NA	1700	42000	NC	**3.71**	**1.98**	**3.66**	2.05 U
COPPER	5.8 / NA	150	89000	NC	**3.08**	**2.01**	**3.14**	**30.7**
IRON	852 / 5818	53000	NC	NC	**15400**	**10600**	**18600**	**28200**
LEAD	14.4 / 6.46	400	1400	NC	**14.6**	**6.49**	**9.25**	**61.5**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**2710**	**1780**	**2760**	**1570 J**
MANGANESE	18 / 6.9	3500	43000	NC	**145**	**69.9**	**71.6**	**45**
MERCURY	NA	3	17	2.1	**0.0448**	0.0152 U	**0.025 J**	**0.769**
NICKEL	11 / NA	340	35000	130	**6.1**	**3.67**	**6.56**	**5.67**
POTASSIUM	NA / 450.7	NC	NC	NC	**1740**	**930**	**1390**	**905 J**
SELENIUM	NA	440	11000	5.2	0.355 U	0.383 U	0.374 U	**2.38 J**
SILVER	NA	410	8200	17	0.118 U	0.128 U	0.125 U	**2.55 J**
SODIUM	288 / 343.1	NC	NC	NC	118 U	128 U	**129 J**	409 U
VANADIUM	3.8 / NA	67	10000	980	**20.3**	**14.9**	**22.1**	**26.9**
ZINC	15.2 / 14.5	26000	630000	NC	**27.1**	**13.2**	**19.9**	**67.1**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25		**0.0389 J**	**0.042 J**	
CARBON DISULFIDE	NA	270	1500	5.6		**0.00148 J**	0.00116 U	
METHYLENE CHLORIDE	NA	17	26	0.02		**0.00606 J**	**0.00446 J**	
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4	**0.117 J**	0.102 UJ	0.103 UJ	
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8	0.0987 UJ	0.102 U	0.103 U	
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00497 UJ	0.00517 UJ	0.00518 UJ	**0.499**

Table 3-2
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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB08	55SB08	55SB08	55SB09
SAMPLE IDENTIFICATION					55SS08-0X02	55SB08-0204	55SB08-0406	55SS09-000X
SAMPLE DATE					20110811	20110811	20110811	20110812
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**14900**	**10100**	**10000**	**7320**
ARSENIC	0.8 / 1.48	2.1	12	NC	**9.91**	**8.05**	**5.29**	**5.61**
BARIUM	11.2 / 20.8	120	130000	1600	**32.1 J**	**33.4**	**26.6**	**29.1**
BERYLLIUM	NA / 0.49	120	1400	63	**0.39**	**1.7**	**1.29**	**1.18**
CADMIUM	NA	82	1700	7.5	**0.614 J**	**2.37**	**2.18**	**0.526 J**
CALCIUM	2360 / 668	NC	NC	NC	**412 J**	**3900**	**4020**	**6210**
CHROMIUM	6.6 / 14.1	210	470	38	**74.9**	**20.1**	**19.7**	**17.3**
COBALT	NA	1700	42000	NC	1.78 U	**4.59**	**5.03**	**4.03**
COPPER	5.8 / NA	150	89000	NC	**31**	**3.48**	**3.43**	**4.23**
IRON	852 / 5818	53000	NC	NC	**33600**	**20100**	**15100**	**12200**
LEAD	14.4 / 6.46	400	1400	NC	**77.8**	**12.7**	**9.99**	**17**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**1620 J**	**2940**	**3700**	**1980**
MANGANESE	18 / 6.9	3500	43000	NC	**28.2**	**84.8**	**210**	**145**
MERCURY	NA	3	17	2.1	**0.736**	**0.0354 J**	**0.0303 J**	**0.189**
NICKEL	11 / NA	340	35000	130	**5.35**	**10.1**	**8.15**	**6.14**
POTASSIUM	NA / 450.7	NC	NC	NC	**1050 J**	**1460**	**1430**	**1360**
SELENIUM	NA	440	11000	5.2	**2.86 J**	0.357 U	0.352 U	0.441 U
SILVER	NA	410	8200	17	**2.09 J**	0.238 U	0.235 U	**2.35**
SODIUM	288 / 343.1	NC	NC	NC	357 U	**194 J**	**1140**	147 U
VANADIUM	3.8 / NA	67	10000	980	**30.9**	**20.9**	**21.2**	**17.5**
ZINC	15.2 / 14.5	26000	630000	NC	**67.8**	**35.5**	**24.2**	**28.3**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25				
CARBON DISULFIDE	NA	270	1500	5.6				
METHYLENE CHLORIDE	NA	17	26	0.02				
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4				0.118 UJ
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8				0.118 U
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	**0.154 J**	0.00506 U	0.00509 U	0.0061 U

Table 3-2
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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB09	55SB09	55SB10	55SB10
SAMPLE IDENTIFICATION					55SS09-0X02	55SB09-0204	55SS10-000X	55SS10-0X02
SAMPLE DATE					20110812	20110812	20110811	20110811
METALS (mg/kg)								
ALUMINUM	1340 / 6823	80000	NC	NC	**3960**	**5260**	**11700**	**13000**
ARSENIC	0.8 / 1.48	2.1	12	NC	**7.08**	**6.24**	**6.05**	**3.58**
BARIUM	11.2 / 20.8	120	130000	1600	**17.2**	**21**	**35.9**	**46**
BERYLLIUM	NA / 0.49	120	1400	63	**0.586**	**0.662 J**	**1.39**	**1.38**
CADMIUM	NA	82	1700	7.5	0.0686 U	0.139 U	0.13 U	0.129 U
CALCIUM	2360 / 668	NC	NC	NC	**4090**	**7580**	**9650**	**34700**
CHROMIUM	6.6 / 14.1	210	470	38	**7.93**	**11**	**22.7**	**24.2**
COBALT	NA	1700	42000	NC	**1.88**	**2.9**	**5.27**	**4.81**
COPPER	5.8 / NA	150	89000	NC	**1.24**	**2.1**	**4.37**	**4.41**
IRON	852 / 5818	53000	NC	NC	**8480**	**10600**	**23300**	**19700**
LEAD	14.4 / 6.46	400	1400	NC	**5.29**	**6.45**	**13.4**	**13.3**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**1050**	**1500**	**4120**	**4260**
MANGANESE	18 / 6.9	3500	43000	NC	**60.9**	**162**	**298**	**256**
MERCURY	NA	3	17	2.1	**0.0249 J**	**0.0176 J**	**0.0376**	**0.0313 J**
NICKEL	11 / NA	340	35000	130	**3.81**	**4.18**	**8.04**	**6.84**
POTASSIUM	NA / 450.7	NC	NC	NC	**593**	**811**	**1740**	**2010**
SELENIUM	NA	440	11000	5.2	0.206 U	0.418 U	0.389 U	0.387 U
SILVER	NA	410	8200	17	0.0686 U	0.139 U	0.13 U	0.258 U
SODIUM	288 / 343.1	NC	NC	NC	68.6 U	139 U	**350 J**	**455 J**
VANADIUM	3.8 / NA	67	10000	980	**9.88**	**13.5**	**30.1**	**26.8**
ZINC	15.2 / 14.5	26000	630000	NC	**9.03**	**11.6**	**29.2**	**29.8**
VOLATILES (mg/kg)								
ACETONE	NA	11000	68000	25	**0.0197 J**	**0.0183 J**		
CARBON DISULFIDE	NA	270	1500	5.6	0.00143 U	0.00151 U		
METHYLENE CHLORIDE	NA	17	26	0.02	**0.00505 J**	**0.00671 J**		
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)								
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4	0.118 UJ	0.111 UJ		
SEMIVOLATILES (mg/kg)								
BENZALDEHYDE	NA	3300	24000	4.8	0.118 U	0.111 U		
PCBS (mg/kg)								
AROCLOR-1260	NA	NC	NC	NC	0.00601 U	0.00576 U	0.00531 U	0.00515 U

Table 3-2
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LOCATION	NAS Jacksonville Background SS/SB*	FL CTL 62-777 Residential Soil-Direct Table II	FL CTL 62-777 Industrial Soil-Direct	FL CTL 62-777 Leachability Based GW	55SB10
SAMPLE IDENTIFICATION					55SB10-0204
SAMPLE DATE					20110811
METALS (mg/kg)					
ALUMINUM	1340 / 6823	80000	NC	NC	**8480**
ARSENIC	0.8 / 1.48	2.1	12	NC	**6.37**
BARIUM	11.2 / 20.8	120	130000	1600	**22.9**
BERYLLIUM	NA / 0.49	120	1400	63	**0.938**
CADMIUM	NA	82	1700	7.5	0.128 U
CALCIUM	2360 / 668	NC	NC	NC	**14700**
CHROMIUM	6.6 / 14.1	210	470	38	**16.6**
COBALT	NA	1700	42000	NC	**2.65**
COPPER	5.8 / NA	150	89000	NC	**3.64**
IRON	852 / 5818	53000	NC	NC	**10400**
LEAD	14.4 / 6.46	400	1400	NC	**10.2**
MAGNESIUM	99.8 / 500.3	NC	NC	NC	**2610**
MANGANESE	18 / 6.9	3500	43000	NC	**99.4**
MERCURY	NA	3	17	2.1	**0.0232 J**
NICKEL	11 / NA	340	35000	130	**4.65**
POTASSIUM	NA / 450.7	NC	NC	NC	**1410**
SELENIUM	NA	440	11000	5.2	**0.431 J**
SILVER	NA	410	8200	17	0.128 U
SODIUM	288 / 343.1	NC	NC	NC	**161 J**
VANADIUM	3.8 / NA	67	10000	980	**17.5**
ZINC	15.2 / 14.5	26000	630000	NC	**21.7**
VOLATILES (mg/kg)					
ACETONE	NA	11000	68000	25	
CARBON DISULFIDE	NA	270	1500	5.6	
METHYLENE CHLORIDE	NA	17	26	0.02	
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)					
BENZO(B)FLUORANTHENE	NA	NC	NC	2.4	
SEMIVOLATILES (mg/kg)					
BENZALDEHYDE	NA	3300	24000	4.8	
PCBS (mg/kg)					
AROCLOR-1260	NA	NC	NC	NC	0.005 U

Notes:

"--" = The chemical was not analyzed or no value was available.
NC = no criteria
Data Qualifiers:
Blank (i.e., no qualifier) = the chemical was detected.
J = The chemical was detected but the concentration reported is an estimated value.
U = The chemical was not detected.
* = Background Concentration used to eliminate SCTL exceedances.

Bold concentration equals a detection.
Shaded concentrations exceed both the Florida criteria and the NAS Jacksonville Background concentration.

PGH P:\GIS\JACKSONVILLE_NAS\MXD\PSC55_TAGS_SOIL_HH.MXD 08/28/12 JEE

DRAWN BY	DATE			CONTRACT NUMBER	CTO NUMBER
jJ. ENGLISH	05/10/12			2686	JM19
CHECKED BY	DATE			APPROVED BY	DATE
B. PEEBLES	08/28/12			___	___
REVISED BY	DATE			APPROVED BY	DATE
				___	___
SCALE AS NOTED		NAVFAC	SOIL SAMPLE RESULTS DETECTIONS ABOVE THE HUMAN HEALTH PALs PSC 55 - SLUDGE DISPOSAL AREA NAS JACKSONVILLE JACKSONVILLE, FLORIDA	FIGURE NO. FIGURE 3-1	REV 0

Table 3-3
Distribution of Detected Analytes Exceeding Human Health PAL by Soil Horizon

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Target Analyte	Soil Horizon	
	Surface Soil	Subsurface Soil
ARSENIC	22	14
CADMIUM	1	0
CHROMIUM	9	0
SELENIUM	1	0

Table 3-4
Comparison of Detections from Soil Analytical Results with Ecological PALs

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Analyte		Minimum Ecological SSL	Region 4 Ecological Soil Screening Values	NAS Jacksonville Background Surface Soil	PAL
METALS (mg/kg)					
ALUMINUM		NA	50	1340	1340
ARSENIC		18	10	0.8	10
BARIUM		330	165	11.2	165
BERYLLIUM		21	1.1	NA	1.1
CADMIUM		0.36	1.6	NA	0.36
CALCIUM		NA	NA	2360	2360
CHROMIUM		26	0.4	6.6	6.6
COBALT		13	20	NA	13
COPPER		28	40	5.8	28
IRON		NA	200	852	852
LEAD		11	50	14.4	14.4
MAGNESIUM		NA	NA	99.8	99.8
MANGANESE		220	100	18	100
MERCURY			0.1	NA	0.1
NICKEL		38	30	11	30
POTASSIUM		NA	NA	NA	NA
SELENIUM		0.52	0.81	NA	0.52
SILVER		4.2	2	NA	2
SODIUM		NA	NA	288	288
VANADIUM		7.8	2	3.8	3.8
ZINC		46	50	15.2	46
PCBS (mg/kg)					
AROCLOR-1260		NA	0.02	NA	0.02
PAHs (mg/kg)					
BENZALDEHYDE		NA	NA	NA	NA
BENZO(B)FLUORANTHENE		1.1	NA	NA	1.1
VOLATILES (mg/kg)					
ACETONE		NA	NA	NA	NA
CARBON DISULFIDE		NA	NA	NA	NA
METHYLENE CHLORIDE		NA	2	NA	2

mg/kg = milligram per kilogram
NA = not analyzed

55SB07	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	9240 [BKG]	5990 [BKG]
CALCIUM	5420 [BKG]	6810 [BKG]
CHROMIUM	18.4 [BKG]	11.9 [BKG]
IRON	15400 [BKG]	10600 [BKG]
LEAD	14.6 [BKG]	6.49
MAGNESIUM	2710 [BKG]	1780 [BKG]
MANGANESE	145 [ESV]	69.9
VANADIUM	20.3 [BKG]	14.9 [BKG]

55SB02	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	15700 [BKG]	263
CADMIUM	2.01 [SSL]	0.102 U
CHROMIUM	79 [BKG]	1.58
COPPER	30.1 [SSL]	0.407 U
IRON	26400 [BKG]	341
LEAD	62.1 [BKG]	2.6
MAGNESIUM	1750 [BKG]	102 U
MERCURY	0.537 [ESV]	0.0122 U
SELENIUM	2.28 [SSL]	0.306 U
SILVER	2.68 J[ESV]	0.102 U
VANADIUM	27.4 [BKG]	0.669 J
ZINC	72.8 [SSL]	1.55 J
PCBS (MG/KG)		
AROCLOR-1260	0.365 J[ESV]	0.00431 U

55SB01	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	8790 [BKG]	11900 [BKG]
BERYLLIUM	0.922	1.16 [ESV]
CALCIUM	8980 [BKG]	15800 [BKG]
CHROMIUM	16.5 [BKG]	22.2 [BKG]
IRON	15200 [BKG]	20200 [BKG]
MAGNESIUM	2530 [BKG]	3440 [BKG]
MANGANESE	306 [ESV]	192 [ESV]
VANADIUM	19.6 [BKG]	26.2 [BKG]

55SB04	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	17200 [BKG]	15700 [BKG]
CADMIUM	5.1 [SSL]	4.24 [SSL]
CALCIUM	2890 [BKG]	1410 J
CHROMIUM	79.7 [BKG]	68.6 [BKG]
COPPER	32 [SSL]	30.4 [SSL]
IRON	31900 [BKG]	33100 [BKG]
LEAD	65.7 [BKG]	65.2 [BKG]
MAGNESIUM	1820 J[BKG]	1670 J[BKG]
MANGANESE	134 [ESV]	94
MERCURY	0.645 [ESV]	0.698 [ESV]
SELENIUM	2.78 J[SSL]	2.75 J[SSL]
SILVER	3.21 J[ESV]	1.99 J
VANADIUM	30.5 [BKG]	30.6 [BKG]
ZINC	85.1 [SSL]	80.6 [SSL]
PCBS (MG/KG)		
AROCLOR-1260	0.0943 J[ESV]	0.117 J[ESV]

55SB03	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	7500 [BKG]	10700 [BKG]
BERYLLIUM	0.82	1.26 [ESV]
CADMIUM	0.805 [SSL]	0.135 U
CALCIUM	6890 [BKG]	14600 [BKG]
CHROMIUM	17.7 [BKG]	20.5 [BKG]
IRON	12200 [BKG]	17700 [BKG]
LEAD	17.4 [BKG]	11.3
MAGNESIUM	2090 [BKG]	3170 [BKG]
MANGANESE	155 [ESV]	95.7
SODIUM	116 U	664 J[BKG]
VANADIUM	17.8 [BKG]	21 [BKG]

55SB08	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	15000 [BKG]	14900 [BKG]
CADMIUM	1.06 J[SSL]	0.614 J[SSL]
CHROMIUM	82.6 [BKG]	74.9 [BKG]
COPPER	30.7 [SSL]	31 [SSL]
IRON	28200 [BKG]	33600 [BKG]
LEAD	61.5 [BKG]	77.8 [BKG]
MAGNESIUM	1570 J[BKG]	1620 J[BKG]
MERCURY	0.769 [ESV]	0.736 [ESV]
SELENIUM	2.38 J[SSL]	2.86 J[SSL]
SILVER	2.55 J[ESV]	2.09 J[ESV]
VANADIUM	26.9 [BKG]	30.9 [BKG]
ZINC	67.1 [SSL]	67.8 [SSL]
PCBS (MG/KG)		
AROCLOR-1260	0.499 [ESV]	0.154 J[ESV]

55SB10	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	11700 [BKG]	13000 [BKG]
BERYLLIUM	1.39 [ESV]	1.38 [ESV]
CALCIUM	9650 [BKG]	34700 [BKG]
CHROMIUM	22.7 [BKG]	24.2 [BKG]
IRON	23300 [BKG]	19700 [BKG]
MAGNESIUM	4120 [BKG]	4260 [BKG]
MANGANESE	298 [ESV]	256 [ESV]
SODIUM	350 J[BKG]	455 J[BKG]
VANADIUM	30.1 [BKG]	26.8 [BKG]

55SB05	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	9680 [BKG]	9930 [BKG]
BERYLLIUM	1.13 [ESV]	1.06
CALCIUM	5400 [BKG]	31500 [BKG]
CHROMIUM	18.7 [BKG]	17.9 [BKG]
IRON	15600 [BKG]	16700 [BKG]
MAGNESIUM	2660 [BKG]	2620 [BKG]
MANGANESE	150 [ESV]	109 [ESV]
SODIUM	118 U	290 J[BKG]
VANADIUM	20 [BKG]	20.2 [BKG]

55SB06	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	13300 [BKG]	35600 [BKG]
ARSENIC	10.3 [ESV]	14.1 [ESV]
BERYLLIUM	0.707 J	2.22 [ESV]
CADMIUM	7.12 [SSL]	18.7 [SSL]
CALCIUM	5870 [BKG]	17500 [BKG]
CHROMIUM	63.4 [BKG]	265 [BKG]
COPPER	24.4	84.5 [SSL]
IRON	32200 [BKG]	33500 [BKG]
LEAD	56.6 [BKG]	226 [BKG]
MAGNESIUM	1930 J[BKG]	4900 [BKG]
MANGANESE	127 [ESV]	142 [ESV]
MERCURY	0.505 [ESV]	0.589 [ESV]
NICKEL	9.57	32.3 [ESV]
SELENIUM	2.5 J[SSL]	5.83 [SSL]
SILVER	1.9 J	8.12 [ESV]
SODIUM	397 U	529 J[BKG]
VANADIUM	25.6 [BKG]	60.3 [BKG]
ZINC	73.6 [SSL]	242 [SSL]
PCBS (MG/KG)		
AROCLOR-1260	0.138 J[ESV]	0.0757 [ESV]

55SB09	[0-0.5 ft]	[0.5-2 ft]
METALS (MG/KG)		
ALUMINUM	7320 [BKG]	3960 [BKG]
BERYLLIUM	1.18 [ESV]	0.586
CADMIUM	0.526 J[SSL]	0.0686 U
CALCIUM	6210 [BKG]	4090 [BKG]
CHROMIUM	17.3 [BKG]	7.93 [BKG]
IRON	12200 [BKG]	8480 [BKG]
LEAD	17 [BKG]	5.29
MAGNESIUM	1980 [BKG]	1050 [BKG]
MANGANESE	145 [ESV]	60.9
MERCURY	0.189 [ESV]	0.0249 J
SILVER	2.35 [ESV]	0.0686 U
VANADIUM	17.5 [BKG]	9.88 [BKG]

DRAWN BY	DATE
J. ENGLISH	05/10/12
CHECKED BY	DATE
B. PEEBLES	6/12/12
REVISED BY	DATE
K. MOORE	6/12/12
SCALE	
AS NOTED	

NAVFAC

SOIL SAMPLE RESULTS
DETECTIONS ABOVE THE ECOLOGICAL PALs
PSC 55 - SLUDGE DISPOSAL AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
2686	JM19
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
FIGURE NO.	REV
FIGURE 3-2	0

Table 3-5
Distribution of Detected Analytes Exceeding an Ecological PAL by Soil Sample Interval

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida

Target Analyte	Soil Sample Interval	
	0 to 0.5 feet bls	0.5 to 2.0 feet bls
ALUMINUM	11	11
ARSENIC	2	1
BERYLLIUM	3	4
CADMIUM	8	4
CALCIUM	9	8
CHROMIUM	11	11
COPPER	3	3
IRON	11	11
LEAD	7	5
MAGNESIUM	11	11
MANGANESE	9	5
MERCURY	6	4
NICKEL	1	1
SELENIUM	5	4
SILVER	4	2
SODIUM	1	4
VANADIUM	11	11
ZINC	5	4
AROCLOR-1260	5	4
Number detected above Ecological PAL	19	19

Table 3-6
Summary of Detections from Groundwater Analytical Results

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida
Page 1 of 2

Location	**FL CTL 62-777 GW-Table I**	**55TW01**	**55TW01**	**55TW02**	**55TW03**	**55TW03**	**55TW04**
Sample Identification		55TW01-0008-08092011	55TW01-0008-08092011-D	55TW02-0012-08102011	55TW03-0008-08152011	55TW03-0008-08152011-D	55TW04-0008-08152011
Sample Date		20110809	20110809	20110810	20110815	20110815	20110815
METALS (µg/L)							
ALUMINUM	200	**2070**	**1600**	**613**	**8970**		**5760**
ARSENIC	10	**23.8 J**	**23.7 J**	**3.01 J**	**42.3**		**78.3**
BARIUM	2000	**49.8**	**62.4**	**35.5**	**71.2**		**54.4**
BERYLLIUM	4	0.25 U	0.5 U	0.5 U	**1.51 J**		1.25 U
CADMIUM	5	0.25 U	0.5 U	2.5 U	1.25 U		1.25 U
CALCIUM	NC	**166000**	**165000**	**167000**	**188000**		**318000**
CHROMIUM	100	**2.97**	**3.74 J**	5 U	**19**		**10.1 J**
COBALT	140	1.25 U	2.5 U	2.5 U	6.25 U		6.25 U
COPPER	1000	1 U	2 U	**2.47 J**	5 U		5 U
IRON	300	**9670**	**10200**	**986**	**73500**		**30100**
LEAD	15	1.88 U	**1.78**	3.75 U	**9.6**		**4.12**
MAGNESIUM	NC	**28600**	**30500**	**428000**	**25200**		**104000**
MANGANESE	50	**1190**	**1330**	**25.1**	**1060**		**3150**
NICKEL	100	**1.3 J**	**1.83 J**	1.5 U	**6.15 J**		**4.32 J**
POTASSIUM	NC	**7710**	**8270**	**145000**	**6720**		**9870**
SODIUM	160000	**13100**	**14100**	**3650000**	**23000**		**155000**
VANADIUM	49	**4.38**	**5.84 J**	**4.63 J**	**26.6**		**17.8**
ZINC	5000	6.25 U	**6.16 J**	12.5 U	**24.3 J**		**12 J**
VOLATILES (µg/L)							
ACETONE	6300				**4 J**	**4.23 J**	2.5 U
METHYL TERT-BUTYL ETHER	20				0.25 U	0.25 U	0.25 U

Table 3-6
Summary of Detections from Groundwater Analytical Results

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida
Page 2 of 2

Location	**FL CTL 62-777 GW-Table I**	**55TW05**	**55TW06**	**55TW07**	**55TW08**	**55TW09**	**55TW10**
Sample Identification		55TW05-0008-08102011	55TW06-0008-08102011	55TW07-0009-08152011	55TW08-0008-08092011	55TW09-0008-08152011	55TW10-0008-08102011
Sample Date		20110810	20110810	20110815	20110809	20110815	20110810
METALS (µg/L)							
ALUMINUM	200	**195**	**2790**	**582**	**1590**	**690**	**322**
ARSENIC	10	**49.5 J**	**40.4 J**	**2.96 J**	**32.2 J**	**1.65 J**	**40.4 J**
BARIUM	2000	**42.1**	**56.6**	**33.2**	**26.2**	**53.2**	**47.1**
BERYLLIUM	4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CADMIUM	5	0.5 U	0.5 U	2.5 U	**0.928 J**	0.5 U	0.5 U
CALCIUM	NC	**215000**	**229000**	**169000**	**369000**	**184000**	**227000**
CHROMIUM	100	1 U	**4.98 J**	5 U	**3.09 J**	1 U	1 U
COBALT	140	2.5 U	2.5 U	2.5 U	**15.9**	2.5 U	2.5 U
COPPER	1000	2 U	2 U	2 U	**2.26 J**	2 U	2 U
IRON	300	**8190**	**15000**	**838**	**23100**	**2070**	**28600**
LEAD	15	1.5 U	**2.44**	3.75 U	1.88 U	0.75 U	0.75 U
MAGNESIUM	NC	**41500**	**42500**	**466000**	**137000**	**61600**	**38000**
MANGANESE	50	**1340**	**1220**	**38.6**	**5440**	**384**	**1200**
NICKEL	100	1.5 U	**1.76 J**	1.5 U	**10.6**	1.5 U	1.5 U
POTASSIUM	NC	**8900**	**8280**	**157000**	**16100**	**13400**	**7770**
SODIUM	160000	**105000**	**119000**	**3800000**	**320000**	**233000**	**24300**
VANADIUM	49	2.5 U	**8.32**	**4.55 J**	**8.14 J**	2.5 U	2.5 U
ZINC	5000	2.5 U	**7.68 J**	12.5 U	**11.7 J**	2.5 U	2.5 U
VOLATILES (µg/L)							
ACETONE	6300			**4.27 J**		2.5 U	
METHYL TERT-BUTYL ETHER	20			0.25 U		**0.316 J**	

Notes:
-- = The chemical was not analyzed or no value was available.
NC = no criteria
µg/L = microgram per liter

Data Qualifiers:
Blank (i.e., no qualifier) = the chemical was detected.
J = The chemical was detected but the concentration reported is an estimated value.
U = The chemical was not detected.

Bold concentration equals a detection
Shaded concentrations exceed the Florida CTL and the NAS Jacksonville Background concentration.

PGH P:\GIS\JACKSONVILLE_NAS\MXD\PSC55_TAGS_GW_HH.MXD 08/30/12 JEE

DRAWN BY	DATE			CONTRACT NUMBER	CTO NUMBER
jJ. ENGLISH	05/10/12		GROUNDWATER SAMPLE RESULTS	2686	JM19
CHECKED BY	DATE		DETECTIONS ABOVE THE HUMAN HEALTH PALs	APPROVED BY	DATE
B. PEEBLES	08/30/12		PSC 55 - SLUDGE DISPOSAL AREA	—	—
REVISED BY	DATE		NAS JACKSONVILLE	APPROVED BY	DATE
—	—		JACKSONVILLE, FLORIDA	—	—
SCALE AS NOTED				FIGURE NO. FIGURE 3-3	REV 0

4.0 DISCUSSION

The purpose of the SI was to develop data that enables the NAS Jacksonville Tier I Partnering Team to evaluate the nature and extent of contamination at PSC 55. The scope involved the collection of soil and groundwater samples that were analyzed for a list of analytes. The concentration of the detected analytes was compared against PALs. The analytical results indicated that soil and groundwater at PSC 55 are contaminated. These findings are further discussed in Sections 4.1 and 4.2.

4.1 SOIL QUALITY

The soil quality was evaluated using both human health and ecological screening criteria. The results of these comparisons are discussed in Sections 4.1.1 and 4.1.2.

4.1.1 Soil Quality – Human Health

Four of the analytes were detected above a PAL associated with human receptors (see Figure 3-1). Three of these analytes were only detected above a PAL in surface soil samples (see Table 3-3). Arsenic was the only analyte detected above the human health PAL in all the samples collected from the subsurface soil horizon (2 to 6 feet bls or from 2 feet bls to the top of the water table, whichever was encountered first).

There was no readily apparent trend in arsenic concentration by soil depth (see Table 4-1). The maximum value of 21 microgram per kilogram (µg/kg) detected in the 2.0 to 4.0 sample interval appears to be an outlier. The average concentration for this sample interval after this outlier is removed is 6.68 mg/kg. That average falls within the range of averages associated with the other sample intervals (low average = 5.27 mg/kg and high average = 6.92 mg/kg). These averages were all greater than the arsenic residential SCTL of 2.1 mg/kg but were all less than the arsenic industrial SCTL of 12.0 mg/kg.

4.1.2 Soil Quality – Ecological Receptors

The area is heavily vegetated and abuts the St. Johns River. In addition, there is little base-related activity on the area that is defined as PSC 55; therefore, there is no human activity in the immediate area of PSC 55 that would preclude the use of this area by ecological receptors. Based on these factors, it was determined that soil quality would be evaluated using ecological screening criteria, and project-specific PALs were used to screen the analytical results. It was determined that 19 analytes were detected above an ecological PAL (see Table 3-4 and Figure 3-2). It was also determined that there was essentially no difference in soil quality throughout the 0- to 2-foot bls soil column (see Table 3-5). This is the vertical portion of the soil profile most likely to be used by ecological receptors.

Table 4-1
Average Arsenic Concentration by Soil Sample Interval

Site Investigation Report, PSC 55
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Sample Interval (feet bls)	Average[1] (mg/kg)	n	Maximum	ProUCL[2] Outlier Test Result	
				Test Statistic	Outlier at 5 Percent Significance Level
0 to 0.5	6.92	10	10.3	0.351	No
0.5 to 2.0	6.43	10	14.1	0.387	No
2.0 to 4.0	8.11	10	21	0.75	Yes
4.0 to 6.0	5.27	3	6.17	0.484	No
Overall Average	6.98	33			

(1) One-half the detection limit used for non-detects.
(2) ProUCL Version 4.00.05.

4.2 GROUNDWATER QUALITY

Twenty analytes were detected in one or more groundwater samples (see Table 3-6). Five of the analytes (aluminum, arsenic, iron, manganese, and sodium) were detected above a PAL associated with human receptors (see Figure 3-3). The distribution of these five analytes was relatively uniform across the site. There was a slight deviation from a uniform distribution with respect to arsenic and sodium. Arsenic was not detected above its PAL in groundwater samples associated with both the northeastern portion and the southern portion of PSC 55 (55GW07, 55GW02 to the northeast and 55GW09 to the south). For the most part, sodium was detected in groundwater samples that were collected along the eastern edge of PSC55. This edge borders the St. Johns River.

5.0 SUMMARY AND RECOMMENDATION

Tetra Tech completed an SI on PSC 55 at NAS Jacksonville, Jacksonville, Florida. The purpose of the SI was to develop data that will enable the NAS Jacksonville Tier I Partnering Team to evaluate the nature and extent of contamination at PSC 55. Soil samples were collected from up to four soil intervals and analyzed by a fixed-base laboratory for TAL metals SVOCs, VOCs, and PCBs. Groundwater samples were collected from 10 temporary wells and analyzed for TAL metals, SVOCs, VOCs, and PCBs.

The analytical results indicated that soil and groundwater at PSC 55 are contaminated (i.e., contain analytes at concentrations above the PALs). The nature of the contamination was determined; however, the areal extent of contamination was not completely delineated in soils. Furthermore, neither the horizontal or vertical extent of contamination was defined in groundwater.

Based on results obtained during the SI, it appears that past activities at PSC 55 affected environmental media and additional “step-out” vertical and horizontal sampling is recommended. The number and locations of these additional samples should be developed under a separate SAP.

The Navy received approval in March 2013 from the USEPA and FDEP to expand the boundary of PSC 8 to encompass PSC 55 and it will be known as PSC 8/55 for tracking purposes. Site characteristics and adjacent proximity of the sites, along with similar constituents of concern has warranted inclusion of PSC 55 into the current evaluation of the PSC Sites 5, 8, 9, 29, 31, 32, and 50 (Operable Unit 11). Additional horizontal and vertical delineation sampling will be conducted based on the approved approach provided in the 2011 UFP-SAP for Extended Site Investigation for PSC Sites 5, 8, 9, 29, 31, 32, and 50.

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APPENDIX A

SITE PHOTOGRAPHS

Photo 1 – Looking south down Catapult Road with PSC 55 on left.

Photo 2 – Looking east at western berm leading into PSC 55.

Photo 3 – Interior photo of PSC 55. Photo of typical sampling location.

Photo 4 – Photo of interior portion of PSC 55.

Photo 5 – Photo looking east from northern-most portion of PSC 55.

Photo 6 – A view north on Catapult Road. PSC 55 located on the right.

APPENDIX B

FIXED-BASE LABORATORY RESULTS
DATA QUALITY EVALUATION

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB01	55SB01	55SB01	55SB02	55SB02	55SB02
SAMPLE ID	55SS01-000X	55SS01-0X02	55SB01-0204	55SS02-000X	55SS02-0X02	55SB02-0204
SAMPLE DATE	20110811	20110811	20110811	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SS	SS	SB
TOP DEPTH	0	0.5	2	0	0.5	2
BOTTOM DEPTH	0.5	2	4	0.5	2	4
METALS (MG/KG)						
ALUMINUM	8790	11900	8030	15700	263	13900
ANTIMONY	0.624 U	0.642 U	0.763 U	1.74 U	0.509 U	0.31 U
ARSENIC	5.63	4.49	21	7.73	0.306 U	5.44
BARIUM	34	64.4	29.1	44.8	1.17 J	46.8
BERYLLIUM	0.922	1.16	1.18	0.52 J	0.102 U	1.92
CADMIUM	0.125 U	0.128 U	0.153 U	2.01	0.102 U	4.97
CALCIUM	8980	15800	11000	2300	102 U	5300
CHROMIUM	16.5	22.2	15.3	79	1.58	26.1
COBALT	4.32	3.98	3.69	1.74 U	0.509 U	5.71
COPPER	10.4	3.67	2.6	30.1	0.407 U	4.72
IRON	15200	20200	18400	26400	341	23100
LEAD	9.99	11.7	10.7	62.1	2.6	12.3
MAGNESIUM	2530	3440	2380	1750	102 U	4050
MANGANESE	306	192	117	90.3	1.54	435
MERCURY	0.0242	0.0298	0.0328 J	0.537	0.0122 U	0.0393
NICKEL	5.07	6.07	6.09	7.47	0.306 U	11.7
POTASSIUM	1130	1660	1410	1030 J	102 U	2100
SELENIUM	0.374 U	0.385 U	0.458 U	2.28	0.306 U	0.186 U
SILVER	0.125 U	0.257 U	0.153 U	2.68 J	0.102 U	0.186 U
SODIUM	142 J	196	170 J	348 U	102 U	91.5 J
THALLIUM	0.374 U	0.385 U	0.458 U	1.05 U	0.306 U	0.248 U
VANADIUM	19.6	26.2	18.6	27.4	0.669 J	22.3
ZINC	24.2	26.2	22.2	72.8	1.55 J	29.9
PCBS (MG/KG)						
AROCLOR-1016	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1221	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1232	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1242	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1248	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1254	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1260	0.00527 U	0.00542 U	0.00613 U	0.365 J	0.00431 U	0.00509 U
AROCLOR-1262	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
AROCLOR-1268	0.00527 U	0.00542 U	0.00613 U	0.519 UJ	0.00431 U	0.00509 U
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE						
ACENAPHTHENE						
ACENAPHTHYLENE						
ANTHRACENE						
BENZO(A)ANTHRACENE						
BENZO(A)PYRENE						
BENZO(B)FLUORANTHENE						
BENZO(G,H,I)PERYLENE						
BENZO(K)FLUORANTHENE						
CHRYSENE						
DIBENZO(A,H)ANTHRACENE						
FLUORANTHENE						
FLUORENE						
INDENO(1,2,3-CD)PYRENE						
NAPHTHALENE						
PHENANTHRENE						
PYRENE						

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB01	55SB01	55SB01	55SB02	55SB02	55SB02
SAMPLE ID	55SS01-000X	55SS01-0X02	55SB01-0204	55SS02-000X	55SS02-0X02	55SB02-0204
SAMPLE DATE	20110811	20110811	20110811	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SS	SS	SB
TOP DEPTH	0	0.5	2	0	0.5	2
BOTTOM DEPTH	0.5	2	4	0.5	2	4
SEMIVOLATILES (MG/KG)						
1,1-BIPHENYL						
1,2,4,5-TETRACHLOROBENZENE						
1,4-DIOXANE						
2,2'-OXYBIS(1-CHLOROPROPANE)						
2,3,4,6-TETRACHLOROPHENOL						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
2,4-DICHLOROPHENOL						
2,4-DIMETHYLPHENOL						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
2-CHLORONAPHTHALENE						
2-CHLOROPHENOL						
2-METHYLNAPHTHALENE						
2-METHYLPHENOL						
2-NITROANILINE						
2-NITROPHENOL						
3,3'-DICHLOROBENZIDINE						
3-NITROANILINE						
4,6-DINITRO-2-METHYLPHENOL						
4-BROMOPHENYL PHENYL ETHER						
4-CHLORO-3-METHYLPHENOL						
4-CHLOROANILINE						
4-CHLOROPHENYL PHENYL ETHER						
4-METHYLPHENOL						
4-NITROANILINE						
4-NITROPHENOL						
ACETOPHENONE						
ATRAZINE						
BENZALDEHYDE						
BIS(2-CHLOROETHOXY)METHANE						
BIS(2-CHLOROETHYL)ETHER						
BIS(2-ETHYLHEXYL)PHTHALATE						
BUTYL BENZYL PHTHALATE						
CAPROLACTAM						
CARBAZOLE						
DIBENZOFURAN						
DIETHYL PHTHALATE						
DIMETHYL PHTHALATE						
DI-N-BUTYL PHTHALATE						
DI-N-OCTYL PHTHALATE						
HEXACHLOROBENZENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROETHANE						
ISOPHORONE						
NITROBENZENE						
N-NITROSO-DI-N-PROPYLAMINE						
N-NITROSODIPHENYLAMINE						
PENTACHLOROPHENOL						
PHENOL						

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB01	55SB01	55SB01	55SB02	55SB02	55SB02
SAMPLE ID	55SS01-000X	55SS01-0X02	55SB01-0204	55SS02-000X	55SS02-0X02	55SB02-0204
SAMPLE DATE	20110811	20110811	20110811	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SS	SS	SB
TOP DEPTH	0	0.5	2	0	0.5	2
BOTTOM DEPTH	0.5	2	4	0.5	2	4
VOLATILES (MG/KG)						
1,1,1-TRICHLOROETHANE						
1,1,2,2-TETRACHLOROETHANE						
1,1,2-TRICHLOROETHANE						
1,1,2-TRICHLOROTRIFLUOROETHANE						
1,1-DICHLOROETHANE						
1,1-DICHLOROETHENE						
1,2,3-TRICHLOROBENZENE						
1,2,4-TRICHLOROBENZENE						
1,2-DIBROMO-3-CHLOROPROPANE						
1,2-DIBROMOETHANE						
1,2-DICHLOROBENZENE						
1,2-DICHLOROETHANE						
1,2-DICHLOROPROPANE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
2-BUTANONE						
2-HEXANONE						
4-METHYL-2-PENTANONE						
ACETONE						
BENZENE						
BROMOCHLOROMETHANE						
BROMODICHLOROMETHANE						
BROMOFORM						
BROMOMETHANE						
CARBON DISULFIDE						
CARBON TETRACHLORIDE						
CHLOROBENZENE						
CHLORODIBROMOMETHANE						
CHLOROETHANE						
CHLOROFORM						
CHLOROMETHANE						
CIS-1,2-DICHLOROETHENE						
CIS-1,3-DICHLOROPROPENE						
CYCLOHEXANE						
DICHLORODIFLUOROMETHANE						
ETHYLBENZENE						
ISOPROPYLBENZENE						
M+P-XYLENES						
METHYL ACETATE						
METHYL CYCLOHEXANE						
METHYL TERT-BUTYL ETHER						
METHYLENE CHLORIDE						
O-XYLENE						
STYRENE						
TETRACHLOROETHENE						
TOLUENE						
TRANS-1,2-DICHLOROETHENE						
TRANS-1,3-DICHLOROPROPENE						
TRICHLOROETHENE						
TRICHLOROFLUOROMETHANE						
VINYL CHLORIDE						

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB02	55SB03	55SB03	55SB03	55SB03	55SB04
SAMPLE ID	55SB02-0406	55SS03-000X	55SS03-000X-D	55SS03-0X02	55SB03-0204	55SS04-000X
SAMPLE DATE	20110811	20110812	20110812	20110812	20110812	20110812
SAMPLE CODE	NORMAL	ORIG	DUP	NORMAL	NORMAL	ORIG
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SS	SS	SS	SB	SS
TOP DEPTH	4	0	0	0.5	2	0
BOTTOM DEPTH	6	0.5	0.5	2	4	0.5
METALS (MG/KG)						
ALUMINUM	14500	7420	7500	10700	9450	15500
ANTIMONY	0.627 U	0.587 U	0.581 U	0.676 U	0.716 U	1.76 U
ARSENIC	6.17	4.78	4.52	6.39	5.34	8.54
BARIUM	54.3	23.6	19.8	40.7	35.4	36
BERYLLIUM	1.42	0.817	0.82	1.26	1.17	0.566 J
CADMIUM	0.251 U	0.805	0.434 J	0.135 U	0.286 U	5.1
CALCIUM	14000	6890	4540	14600	7400	2890
CHROMIUM	27.4	17.7	16.2	20.5	17.8	62.8
COBALT	4.75	2.83	2.88	3.51	4.82	1.76 U
COPPER	4.51	6.58	3.65	4.59	3.24	25.8
IRON	25700	12200	11700	17700	20300	31900
LEAD	13.3	17.4	13.9	11.3	11.1	54.4
MAGNESIUM	4380	2090	2050	3170	2950	1790
MANGANESE	209	155	107	95.7	159	134
MERCURY	0.0327 J	0.0752	0.048	0.0311 J	0.0342 J	0.588
NICKEL	8.2	5.9	4.63	6.26	7.27	8.36
POTASSIUM	1860	1140	1150	1410	1480	922 J
SELENIUM	0.376 U	0.352 U	0.349 U	0.405 U	0.43 U	2.78 J
SILVER	0.251 U	0.117 U	0.116 U	0.135 U	0.143 U	1.6 J
SODIUM	138 J	117 U	116 U	664 J	486 J	351 U
THALLIUM	0.376 U	0.352 U	0.349 U	0.405 U	0.43 U	1.05 U
VANADIUM	32	17.8	17.1	21	17.8	30.5
ZINC	28.8	35.9	23.9	23.2	23.5	75.5
PCBS (MG/KG)						
AROCLOR-1016	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.00568 UJ
AROCLOR-1221	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.00568 UJ
AROCLOR-1232	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.00568 UJ
AROCLOR-1242	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.00568 UJ
AROCLOR-1248	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.128 UJ
AROCLOR-1254	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.128 UJ
AROCLOR-1260	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.0943 J
AROCLOR-1262	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.128 UJ
AROCLOR-1268	0.00513 UJ	0.00489 U	0.00491 U	0.00546 UJ	0.00582 UJ	0.128 UJ
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
ACENAPHTHENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
ACENAPHTHYLENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
ANTHRACENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
BENZO(A)ANTHRACENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
BENZO(A)PYRENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
BENZO(B)FLUORANTHENE		0.0963 UJ	0.0962 UJ	0.11 UJ	0.112 UJ	0.228 UJ
BENZO(G,H,I)PERYLENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
BENZO(K)FLUORANTHENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
CHRYSENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
DIBENZO(A,H)ANTHRACENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
FLUORANTHENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
FLUORENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
INDENO(1,2,3-CD)PYRENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
NAPHTHALENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
PHENANTHRENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
PYRENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB02	55SB03	55SB03	55SB03	55SB03	55SB04
SAMPLE ID	55SB02-0406	55SS03-000X	55SS03-000X-D	55SS03-0X02	55SB03-0204	55SS04-000X
SAMPLE DATE	20110811	20110812	20110812	20110812	20110812	20110812
SAMPLE CODE	NORMAL	ORIG	DUP	NORMAL	NORMAL	ORIG
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SS	SS	SS	SB	SS
TOP DEPTH	4	0	0	0.5	2	0
BOTTOM DEPTH	6	0.5	0.5	2	4	0.5
SEMIVOLATILES (MG/KG)						
1,1-BIPHENYL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
1,2,4,5-TETRACHLOROBENZENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
1,4-DIOXANE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,2'-OXYBIS(1-CHLOROPROPANE)		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,3,4,6-TETRACHLOROPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,4,5-TRICHLOROPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,4,6-TRICHLOROPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,4-DICHLOROPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,4-DIMETHYLPHENOL		0.385 U	0.385 U	0.438 U	0.447 U	0.912 UJ
2,4-DINITROPHENOL		0.963 U	0.962 U	1.1 U	1.12 U	2.28 UJ
2,4-DINITROTOLUENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2,6-DINITROTOLUENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2-CHLORONAPHTHALENE		0.0963 U	0.0962 U	0.11 UJ	0.112 UJ	0.228 UJ
2-CHLOROPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2-METHYLNAPHTHALENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2-METHYLPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
2-NITROANILINE		0.385 U	0.385 U	0.438 U	0.447 U	0.912 UJ
2-NITROPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
3,3'-DICHLOROBENZIDINE		0.0963 UJ	0.0962 UJ	0.11 UJ	0.112 UJ	0.228 UJ
3-NITROANILINE		0.385 U	0.385 U	0.438 U	0.447 U	0.912 UJ
4,6-DINITRO-2-METHYLPHENOL		0.963 U	0.962 U	1.1 U	1.12 U	2.28 UJ
4-BROMOPHENYL PHENYL ETHER		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
4-CHLORO-3-METHYLPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
4-CHLOROANILINE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
4-CHLOROPHENYL PHENYL ETHER		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
4-METHYLPHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
4-NITROANILINE		0.385 U	0.385 U	0.438 U	0.447 U	0.912 UJ
4-NITROPHENOL		0.385 U	0.385 U	0.438 U	0.447 U	0.912 UJ
ACETOPHENONE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
ATRAZINE		0.0963 UJ	0.0962 UJ	0.11 U	0.112 U	0.228 UJ
BENZALDEHYDE		0.635 J	0.47 J	0.11 U	0.112 U	0.228 UJ
BIS(2-CHLOROETHOXY)METHANE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
BIS(2-CHLOROETHYL)ETHER		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
BIS(2-ETHYLHEXYL)PHTHALATE		0.0963 UJ	0.0962 UJ	0.11 UJ	0.112 UJ	0.228 UJ
BUTYL BENZYL PHTHALATE		0.0963 UJ	0.0962 UJ	0.11 UJ	0.112 UJ	0.228 UJ
CAPROLACTAM		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
CARBAZOLE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
DIBENZOFURAN		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
DIETHYL PHTHALATE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
DIMETHYL PHTHALATE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
DI-N-BUTYL PHTHALATE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
DI-N-OCTYL PHTHALATE		0.0963 UJ	0.0962 UJ	0.11 UJ	0.112 UJ	0.228 UJ
HEXACHLOROBENZENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
HEXACHLOROBUTADIENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
HEXACHLOROCYCLOPENTADIENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
HEXACHLOROETHANE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
ISOPHORONE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
NITROBENZENE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
N-NITROSO-DI-N-PROPYLAMINE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
N-NITROSODIPHENYLAMINE		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ
PENTACHLOROPHENOL		0.385 U	0.385 U	0.438 U	0.447 U	0.912 UJ
PHENOL		0.0963 U	0.0962 U	0.11 U	0.112 U	0.228 UJ

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB02	55SB03	55SB03	55SB03	55SB03	55SB04
SAMPLE ID	55SB02-0406	55SS03-000X	55SS03-000X-D	55SS03-0X02	55SB03-0204	55SS04-000X
SAMPLE DATE	20110811	20110812	20110812	20110812	20110812	20110812
SAMPLE CODE	NORMAL	ORIG	DUP	NORMAL	NORMAL	ORIG
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SS	SS	SS	SB	SS
TOP DEPTH	4	0	0	0.5	2	0
BOTTOM DEPTH	6	0.5	0.5	2	4	0.5
VOLATILES (MG/KG)						
1,1,1-TRICHLOROETHANE				0.00134 U	0.00145 U	
1,1,2,2-TETRACHLOROETHANE				0.00134 U	0.00145 U	
1,1,2-TRICHLOROETHANE				0.00134 U	0.00145 U	
1,1,2-TRICHLOROTRIFLUOROETHANE				0.00268 U	0.00291 U	
1,1-DICHLOROETHANE				0.00134 U	0.00145 U	
1,1-DICHLOROETHENE				0.00134 U	0.00145 U	
1,2,3-TRICHLOROBENZENE				0.00134 U	0.00145 U	
1,2,4-TRICHLOROBENZENE				0.00134 U	0.00145 U	
1,2-DIBROMO-3-CHLOROPROPANE				0.00268 U	0.00291 U	
1,2-DIBROMOETHANE				0.00134 U	0.00145 U	
1,2-DICHLOROBENZENE				0.00134 U	0.00145 U	
1,2-DICHLOROETHANE				0.00134 U	0.00145 U	
1,2-DICHLOROPROPANE				0.00134 U	0.00145 U	
1,3-DICHLOROBENZENE				0.00134 U	0.00145 U	
1,4-DICHLOROBENZENE				0.00134 U	0.00145 U	
2-BUTANONE				0.00268 U	0.00291 U	
2-HEXANONE				0.00134 U	0.00145 U	
4-METHYL-2-PENTANONE				0.00134 U	0.00145 U	
ACETONE				0.126 J	0.0324 J	
BENZENE				0.00134 U	0.00145 U	
BROMOCHLOROMETHANE				0.00134 U	0.00145 U	
BROMODICHLOROMETHANE				0.00134 U	0.00145 U	
BROMOFORM				0.00134 U	0.00145 U	
BROMOMETHANE				0.00268 U	0.00291 U	
CARBON DISULFIDE				0.00402 J	0.00145 U	
CARBON TETRACHLORIDE				0.00134 U	0.00145 U	
CHLOROBENZENE				0.00134 U	0.00145 U	
CHLORODIBROMOMETHANE				0.00134 U	0.00145 U	
CHLOROETHANE				0.00268 U	0.00291 U	
CHLOROFORM				0.00134 U	0.00145 U	
CHLOROMETHANE				0.00268 U	0.00291 U	
CIS-1,2-DICHLOROETHENE				0.00134 U	0.00145 U	
CIS-1,3-DICHLOROPROPENE				0.00134 U	0.00145 U	
CYCLOHEXANE				0.00134 U	0.00145 U	
DICHLORODIFLUOROMETHANE				0.00268 U	0.00291 U	
ETHYLBENZENE				0.00134 U	0.00145 U	
ISOPROPYLBENZENE				0.00134 U	0.00145 U	
M+P-XYLENES				0.00268 U	0.00291 U	
METHYL ACETATE				0.00268 U	0.00291 U	
METHYL CYCLOHEXANE				0.00134 U	0.00145 U	
METHYL TERT-BUTYL ETHER				0.00134 U	0.00145 U	
METHYLENE CHLORIDE				0.00618 J	0.00744 J	
O-XYLENE				0.00134 U	0.00145 U	
STYRENE				0.00134 U	0.00145 U	
TETRACHLOROETHENE				0.00134 U	0.00145 U	
TOLUENE				0.00134 U	0.00145 U	
TRANS-1,2-DICHLOROETHENE				0.00134 U	0.00145 U	
TRANS-1,3-DICHLOROPROPENE				0.00134 U	0.00145 U	
TRICHLOROETHENE				0.00134 U	0.00145 U	
TRICHLOROFLUOROMETHANE				0.00268 U	0.00291 U	
VINYL CHLORIDE				0.00134 U	0.00145 U	

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB04	55SB04	55SB04	55SB04	55SB04	55SB05
SAMPLE ID	55SS04-000X-D	55SS04-0X02	55SS04-0X02-D	55SB04-0204	55SB04-0204-D	55SS05-000X
SAMPLE DATE	20110812	20110812	20110812	20110812	20110812	20110811
SAMPLE CODE	DUP	ORIG	DUP	ORIG	DUP	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SB	SB	SS
TOP DEPTH	0	0.5	0.5	2	2	0
BOTTOM DEPTH	0.5	2	2	4	4	0.5
METALS (MG/KG)						
ALUMINUM	17200	15400	15700	4460 J	8240 J	9680
ANTIMONY	1.83 U	1.79 U	1.74 U	0.493 U	0.628 U	0.588 U
ARSENIC	8.34	9.03	8.65	2.99 J	13.3 J	6.97
BARIUM	32.6	29.3	33.4	7.59 J	26.7 J	32.1
BERYLLIUM	0.572 J	0.472 J	0.517 J	0.161 J	1.19	1.13
CADMIUM	4.47	2.57	4.24	0.413 J	0.126 U	0.199 J
CALCIUM	2010	977 J	1410 J	199 J	4950 J	5400
CHROMIUM	79.7	64	68.6	19	16	18.7
COBALT	1.83 U	1.79 U	1.74 U	0.493 U	4.13	4.46
COPPER	32	27.6	30.4	7.83 J	3.18 J	4.11
IRON	29000	33100	29700	8190 J	18100 J	15600
LEAD	65.7	58.8	65.2	17.5 J	9.89 J	12.2
MAGNESIUM	1820 J	1630 J	1670 J	527 J	2840 J	2660
MANGANESE	100	60.3	94	16.5 J	103 J	150
MERCURY	0.645	0.557	0.698	0.222 J	0.0268 J	0.0389
NICKEL	8.36	7.04	7.67	1.74 J	7.09 J	6.67
POTASSIUM	932 J	993 J	936 J	362 J	1100	1660
SELENIUM	2.65 J	2.55 J	2.75 J	0.77 J	0.377 U	0.353 U
SILVER	3.21 J	1.67 J	1.99 J	0.521 J	0.251 U	0.178 J
SODIUM	366 U	358 U	348 U	98.6 U	126 U	118 U
THALLIUM	1.1 U	1.07 U	1.04 U	0.296 U	0.377 U	0.353 U
VANADIUM	30.3	30.6	30.2	10.1 J	18.5 J	20
ZINC	85.1	69.2	80.6	24.2	21	23.5
PCBS (MG/KG)						
AROCLOR-1016	0.00631 UJ	0.168 UJ	0.00602 UJ	0.00429 UJ	0.00513 UJ	0.00485 U
AROCLOR-1221	0.00631 UJ	0.168 UJ	0.00602 UJ	0.00429 UJ	0.00513 UJ	0.00485 U
AROCLOR-1232	0.00631 UJ	0.168 UJ	0.00602 UJ	0.00429 UJ	0.00513 UJ	0.00485 U
AROCLOR-1242	0.00631 UJ	0.168 UJ	0.00602 UJ	0.00429 UJ	0.00513 UJ	0.00485 U
AROCLOR-1248	0.143 UJ	0.168 UJ	0.118 UJ	0.0633 UJ	0.00513 UJ	0.00485 U
AROCLOR-1254	0.143 UJ	0.168 UJ	0.118 UJ	0.0633 UJ	0.00513 UJ	0.00485 U
AROCLOR-1260	0.0941 J	0.117 J	0.0815 J	0.0613 J	0.00513 UJ	0.00485 U
AROCLOR-1262	0.143 UJ	0.168 UJ	0.118 UJ	0.0633 UJ	0.00513 UJ	0.00485 U
AROCLOR-1268	0.143 UJ	0.168 UJ	0.118 UJ	0.0633 UJ	0.00513 UJ	0.00485 U
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
ACENAPHTHENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
ACENAPHTHYLENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
ANTHRACENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BENZO(A)ANTHRACENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BENZO(A)PYRENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BENZO(B)FLUORANTHENE	0.247 UJ	0.242 UJ	0.237 UJ	0.17 UJ	0.1 UJ	
BENZO(G,H,I)PERYLENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BENZO(K)FLUORANTHENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
CHRYSENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
DIBENZO(A,H)ANTHRACENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
FLUORANTHENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
FLUORENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
INDENO(1,2,3-CD)PYRENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
NAPHTHALENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
PHENANTHRENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
PYRENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB04	55SB04	55SB04	55SB04	55SB04	55SB05
SAMPLE ID	55SS04-000X-D	55SS04-0X02	55SS04-0X02-D	55SB04-0204	55SB04-0204-D	55SS05-000X
SAMPLE DATE	20110812	20110812	20110812	20110812	20110812	20110811
SAMPLE CODE	DUP	ORIG	DUP	ORIG	DUP	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SB	SB	SS
TOP DEPTH	0	0.5	0.5	2	2	0
BOTTOM DEPTH	0.5	2	2	4	4	0.5
SEMIVOLATILES (MG/KG)						
1,1-BIPHENYL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
1,2,4,5-TETRACHLOROBENZENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
1,4-DIOXANE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,3,4,6-TETRACHLOROPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,4,5-TRICHLOROPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,4,6-TRICHLOROPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,4-DICHLOROPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,4-DIMETHYLPHENOL	0.987 UJ	0.969 U	0.949 U	0.68 U	0.401 U	
2,4-DINITROPHENOL	2.47 UJ	2.42 U	2.37 U	1.7 U	1 U	
2,4-DINITROTOLUENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2,6-DINITROTOLUENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2-CHLORONAPHTHALENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 UJ	
2-CHLOROPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2-METHYLNAPHTHALENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2-METHYLPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
2-NITROANILINE	0.987 UJ	0.969 U	0.949 U	0.68 U	0.401 U	
2-NITROPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
3,3'-DICHLOROBENZIDINE	0.247 UJ	0.242 UJ	0.237 UJ	0.17 UJ	0.1 UJ	
3-NITROANILINE	0.987 UJ	0.969 U	0.949 U	0.68 U	0.401 U	
4,6-DINITRO-2-METHYLPHENOL	2.47 UJ	2.42 U	2.37 U	1.7 U	1 U	
4-BROMOPHENYL PHENYL ETHER	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
4-CHLORO-3-METHYLPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
4-CHLOROANILINE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
4-CHLOROPHENYL PHENYL ETHER	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
4-METHYLPHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
4-NITROANILINE	0.987 UJ	0.969 U	0.949 U	0.68 U	0.401 U	
4-NITROPHENOL	0.987 UJ	0.969 U	0.949 U	0.68 U	0.401 U	
ACETOPHENONE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
ATRAZINE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BENZALDEHYDE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BIS(2-CHLOROETHOXY)METHANE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BIS(2-CHLOROETHYL)ETHER	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.247 UJ	0.242 UJ	0.237 UJ	0.17 UJ	0.1 UJ	
BUTYL BENZYL PHTHALATE	0.247 UJ	0.242 UJ	0.237 UJ	0.17 UJ	0.1 UJ	
CAPROLACTAM	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
CARBAZOLE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
DIBENZOFURAN	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
DIETHYL PHTHALATE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
DIMETHYL PHTHALATE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
DI-N-BUTYL PHTHALATE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
DI-N-OCTYL PHTHALATE	0.247 UJ	0.242 UJ	0.237 UJ	0.17 UJ	0.1 UJ	
HEXACHLOROBENZENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
HEXACHLOROBUTADIENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
HEXACHLOROCYCLOPENTADIENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
HEXACHLOROETHANE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
ISOPHORONE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
NITROBENZENE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
N-NITROSO-DI-N-PROPYLAMINE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
N-NITROSODIPHENYLAMINE	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	
PENTACHLOROPHENOL	0.987 UJ	0.969 U	0.949 U	0.68 U	0.401 U	
PHENOL	0.247 UJ	0.242 U	0.237 U	0.17 U	0.1 U	

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB04	55SB04	55SB04	55SB04	55SB04	55SB05
SAMPLE ID	55SS04-000X-D	55SS04-0X02	55SS04-0X02-D	55SB04-0204	55SB04-0204-D	55SS05-000X
SAMPLE DATE	20110812	20110812	20110812	20110812	20110812	20110811
SAMPLE CODE	DUP	ORIG	DUP	ORIG	DUP	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SB	SB	SS
TOP DEPTH	0	0.5	0.5	2	2	0
BOTTOM DEPTH	0.5	2	2	4	4	0.5
VOLATILES (MG/KG)						
1,1,1-TRICHLOROETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,1,2,2-TETRACHLOROETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,1,2-TRICHLOROETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
1,1-DICHLOROETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,1-DICHLOROETHENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,2,3-TRICHLOROBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,2,4-TRICHLOROBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,2-DIBROMO-3-CHLOROPROPANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
1,2-DIBROMOETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,2-DICHLOROBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,2-DICHLOROETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,2-DICHLOROPROPANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,3-DICHLOROBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
1,4-DICHLOROBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
2-BUTANONE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
2-HEXANONE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
4-METHYL-2-PENTANONE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
ACETONE		0.115 J	0.105 J	0.0227 J	0.0221 J	
BENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
BROMOCHLOROMETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
BROMODICHLOROMETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
BROMOFORM		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
BROMOMETHANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
CARBON DISULFIDE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CARBON TETRACHLORIDE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CHLOROBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CHLORODIBROMOMETHANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CHLOROETHANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
CHLOROFORM		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CHLOROMETHANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
CIS-1,2-DICHLOROETHENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CIS-1,3-DICHLOROPROPENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
CYCLOHEXANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
DICHLORODIFLUOROMETHANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
ETHYLBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
ISOPROPYLBENZENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
M+P-XYLENES		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
METHYL ACETATE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
METHYL CYCLOHEXANE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
METHYL TERT-BUTYL ETHER		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
METHYLENE CHLORIDE		0.0196	0.0147 J	0.00626 J	0.00604 J	
O-XYLENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
STYRENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
TETRACHLOROETHENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
TOLUENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
TRANS-1,2-DICHLOROETHENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
TRANS-1,3-DICHLOROPROPENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
TRICHLOROETHENE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	
TRICHLOROFLUOROMETHANE		0.00453 U	0.00466 U	0.00267 U	0.00267 U	
VINYL CHLORIDE		0.00226 U	0.00233 U	0.00134 U	0.00134 U	

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB05	55SB05	55SB05	55SB06	55SB06	55SB06
SAMPLE ID	55SS05-0X02	55SB05-0204	55SB05-0406	55SS06-000X	55SS06-0X02	55SB06-0204
SAMPLE DATE	20110811	20110811	20110811	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SB	SB	SS	SS	SB
TOP DEPTH	0.5	2	4	0	0.5	2
BOTTOM DEPTH	2	4	6	0.5	2	4
METALS (MG/KG)						
ALUMINUM	9930	8460	10000	13300	35600	6650
ANTIMONY	0.596 U	0.59 U	0.646 U	1.99 U	1.9 U	0.602 U
ARSENIC	6.52	9.26	4.35	10.3	14.1	3.12
BARIUM	34.2	20.7	42.7	36.7	96.3	21.6
BERYLLIUM	1.06	0.945	1.08	0.707 J	2.22	0.716
CADMIUM	0.119 U	0.118 U	0.129 U	7.12	18.7	0.12 U
CALCIUM	31500	6580	6690	5870	17500	2970
CHROMIUM	17.9	17.4	19.2	63.4	265	12.7
COBALT	4.49	3.39	6.79	1.99 U	4.65 J	2.5
COPPER	3.24	3.79	2.88	24.4	84.5	2.41
IRON	16700	13500	17000	32200	33500	14300
LEAD	10.5	10.8	10.6	56.6	226	7.41
MAGNESIUM	2620	2560	3170	1930 J	4900	2040
MANGANESE	109	92.1	207	127	142	69.2
MERCURY	0.0272 J	0.0247 J	0.0332 J	0.505	0.589	0.0206 J
NICKEL	6.13	5.09	6.57	9.57	32.3	3.57
POTASSIUM	1360	1330	1580	874 J	2210	1090
SELENIUM	0.358 U	0.354 U	0.388 U	2.5 J	5.83	0.361 U
SILVER	0.238 U	0.118 U	0.258 U	1.9 J	8.12	0.12 U
SODIUM	290 J	403 J	280 J	397 U	529 J	130 J
THALLIUM	0.358 U	0.354 U	0.388 U	1.19 U	1.14 U	0.361 U
VANADIUM	20.2	17.5	17.3	25.6	60.3	12.9
ZINC	22.9	22.6	24	73.6	242	18.8
PCBS (MG/KG)						
AROCLOR-1016	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1221	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1232	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1242	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1248	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1254	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1260	0.00491 U	0.00495 U	0.00525 U	0.138 J	0.0757	0.00516 U
AROCLOR-1262	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
AROCLOR-1268	0.00491 U	0.00495 U	0.00525 U	0.205 UJ	0.116 U	0.00516 U
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE						
ACENAPHTHENE						
ACENAPHTHYLENE						
ANTHRACENE						
BENZO(A)ANTHRACENE						
BENZO(A)PYRENE						
BENZO(B)FLUORANTHENE						
BENZO(G,H,I)PERYLENE						
BENZO(K)FLUORANTHENE						
CHRYSENE						
DIBENZO(A,H)ANTHRACENE						
FLUORANTHENE						
FLUORENE						
INDENO(1,2,3-CD)PYRENE						
NAPHTHALENE						
PHENANTHRENE						
PYRENE						

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB05	55SB05	55SB05	55SB06	55SB06	55SB06
SAMPLE ID	55SS05-0X02	55SB05-0204	55SB05-0406	55SS06-000X	55SS06-0X02	55SB06-0204
SAMPLE DATE	20110811	20110811	20110811	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SB	SB	SS	SS	SB
TOP DEPTH	0.5	2	4	0	0.5	2
BOTTOM DEPTH	2	4	6	0.5	2	4
SEMIVOLATILES (MG/KG)						
1,1-BIPHENYL						
1,2,4,5-TETRACHLOROBENZENE						
1,4-DIOXANE						
2,2'-OXYBIS(1-CHLOROPROPANE)						
2,3,4,6-TETRACHLOROPHENOL						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
2,4-DICHLOROPHENOL						
2,4-DIMETHYLPHENOL						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
2-CHLORONAPHTHALENE						
2-CHLOROPHENOL						
2-METHYLNAPHTHALENE						
2-METHYLPHENOL						
2-NITROANILINE						
2-NITROPHENOL						
3,3'-DICHLOROBENZIDINE						
3-NITROANILINE						
4,6-DINITRO-2-METHYLPHENOL						
4-BROMOPHENYL PHENYL ETHER						
4-CHLORO-3-METHYLPHENOL						
4-CHLOROANILINE						
4-CHLOROPHENYL PHENYL ETHER						
4-METHYLPHENOL						
4-NITROANILINE						
4-NITROPHENOL						
ACETOPHENONE						
ATRAZINE						
BENZALDEHYDE						
BIS(2-CHLOROETHOXY)METHANE						
BIS(2-CHLOROETHYL)ETHER						
BIS(2-ETHYLHEXYL)PHTHALATE						
BUTYL BENZYL PHTHALATE						
CAPROLACTAM						
CARBAZOLE						
DIBENZOFURAN						
DIETHYL PHTHALATE						
DIMETHYL PHTHALATE						
DI-N-BUTYL PHTHALATE						
DI-N-OCTYL PHTHALATE						
HEXACHLOROBENZENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROETHANE						
ISOPHORONE						
NITROBENZENE						
N-NITROSO-DI-N-PROPYLAMINE						
N-NITROSODIPHENYLAMINE						
PENTACHLOROPHENOL						
PHENOL						

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB05	55SB05	55SB05	55SB06	55SB06	55SB06
SAMPLE ID	55SS05-0X02	55SB05-0204	55SB05-0406	55SS06-000X	55SS06-0X02	55SB06-0204
SAMPLE DATE	20110811	20110811	20110811	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SB	SB	SS	SS	SB
TOP DEPTH	0.5	2	4	0	0.5	2
BOTTOM DEPTH	2	4	6	0.5	2	4
VOLATILES (MG/KG)						
1,1,1-TRICHLOROETHANE						
1,1,2,2-TETRACHLOROETHANE						
1,1,2-TRICHLOROETHANE						
1,1,2-TRICHLOROTRIFLUOROETHANE						
1,1-DICHLOROETHANE						
1,1-DICHLOROETHENE						
1,2,3-TRICHLOROBENZENE						
1,2,4-TRICHLOROBENZENE						
1,2-DIBROMO-3-CHLOROPROPANE						
1,2-DIBROMOETHANE						
1,2-DICHLOROBENZENE						
1,2-DICHLOROETHANE						
1,2-DICHLOROPROPANE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
2-BUTANONE						
2-HEXANONE						
4-METHYL-2-PENTANONE						
ACETONE						
BENZENE						
BROMOCHLOROMETHANE						
BROMODICHLOROMETHANE						
BROMOFORM						
BROMOMETHANE						
CARBON DISULFIDE						
CARBON TETRACHLORIDE						
CHLOROBENZENE						
CHLORODIBROMOMETHANE						
CHLOROETHANE						
CHLOROFORM						
CHLOROMETHANE						
CIS-1,2-DICHLOROETHENE						
CIS-1,3-DICHLOROPROPENE						
CYCLOHEXANE						
DICHLORODIFLUOROMETHANE						
ETHYLBENZENE						
ISOPROPYLBENZENE						
M+P-XYLENES						
METHYL ACETATE						
METHYL CYCLOHEXANE						
METHYL TERT-BUTYL ETHER						
METHYLENE CHLORIDE						
O-XYLENE						
STYRENE						
TETRACHLOROETHENE						
TOLUENE						
TRANS-1,2-DICHLOROETHENE						
TRANS-1,3-DICHLOROPROPENE						
TRICHLOROETHENE						
TRICHLOROFLUOROMETHANE						
VINYL CHLORIDE						

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB07	55SB07	55SB07	55SB08	55SB08	55SB08
SAMPLE ID	55SS07-000X	55SS07-0X02	55SB07-0204	55SS08-000X	55SS08-0X02	55SB08-0204
SAMPLE DATE	20110812	20110812	20110812	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SS	SS	SB
TOP DEPTH	0	0.5	2	0	0.5	2
BOTTOM DEPTH	0.5	2	4	0.5	2	4
METALS (MG/KG)						
ALUMINUM	9240	5990	9840	15000	14900	10100
ANTIMONY	0.591 U	0.638 U	0.623 U	2.05 U	1.78 U	0.595 U
ARSENIC	5.29	3.26	8.12	8.54	9.91	8.05
BARIUM	21.4	13.4	31.9	32.8	32.1 J	33.4
BERYLLIUM	1.05	0.702	1.16	0.409 U	0.39	1.7
CADMIUM	0.144 J	0.128 U	0.249 U	1.06 J	0.614 J	2.37
CALCIUM	5420	6810	5170	777 J	412 J	3900
CHROMIUM	18.4	11.9	19.2	82.6	74.9	20.1
COBALT	3.71	1.98	3.66	2.05 U	1.78 U	4.59
COPPER	3.08	2.01	3.14	30.7	31	3.48
IRON	15400	10600	18600	28200	33600	20100
LEAD	14.6	6.49	9.25	61.5	77.8	12.7
MAGNESIUM	2710	1780	2760	1570 J	1620 J	2940
MANGANESE	145	69.9	71.6	45	28.2	84.8
MERCURY	0.0448	0.0152 U	0.025 J	0.769	0.736	0.0354 J
NICKEL	6.1	3.67	6.56	5.67	5.35	10.1
POTASSIUM	1740	930	1390	905 J	1050 J	1460
SELENIUM	0.355 U	0.383 U	0.374 U	2.38 J	2.86 J	0.357 U
SILVER	0.118 U	0.128 U	0.125 U	2.55 J	2.09 J	0.238 U
SODIUM	118 U	128 U	129 J	409 U	357 U	194 J
THALLIUM	0.355 U	0.383 U	0.374 U	1.23 U	1.07 U	0.357 U
VANADIUM	20.3	14.9	22.1	26.9	30.9	20.9
ZINC	27.1	13.2	19.9	67.1	67.8	35.5
PCBS (MG/KG)						
AROCLOR-1016	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1221	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1232	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1242	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1248	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1254	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1260	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.499	0.154 J	0.00506 U
AROCLOR-1262	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
AROCLOR-1268	0.00497 UJ	0.00517 UJ	0.00518 UJ	0.771 U	0.222 UJ	0.00506 U
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)						
1-METHYLNAPHTHALENE	0.0987 U	0.102 U	0.103 U			
ACENAPHTHENE	0.0987 U	0.102 U	0.103 U			
ACENAPHTHYLENE	0.0987 U	0.102 U	0.103 U			
ANTHRACENE	0.0987 U	0.102 U	0.103 U			
BENZO(A)ANTHRACENE	0.0987 U	0.102 U	0.103 U			
BENZO(A)PYRENE	0.0987 U	0.102 U	0.103 U			
BENZO(B)FLUORANTHENE	0.117 J	0.102 UJ	0.103 UJ			
BENZO(G,H,I)PERYLENE	0.0987 U	0.102 U	0.103 U			
BENZO(K)FLUORANTHENE	0.0987 U	0.102 U	0.103 U			
CHRYSENE	0.0987 U	0.102 U	0.103 U			
DIBENZO(A,H)ANTHRACENE	0.0987 U	0.102 U	0.103 U			
FLUORANTHENE	0.0987 U	0.102 U	0.103 U			
FLUORENE	0.0987 U	0.102 U	0.103 U			
INDENO(1,2,3-CD)PYRENE	0.0987 U	0.102 U	0.103 U			
NAPHTHALENE	0.0987 U	0.102 U	0.103 U			
PHENANTHRENE	0.0987 U	0.102 U	0.103 U			
PYRENE	0.0987 U	0.102 U	0.103 U			

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB07	55SB07	55SB07	55SB08	55SB08	55SB08
SAMPLE ID	55SS07-000X	55SS07-0X02	55SB07-0204	55SS08-000X	55SS08-0X02	55SB08-0204
SAMPLE DATE	20110812	20110812	20110812	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SS	SS	SB
TOP DEPTH	0	0.5	2	0	0.5	2
BOTTOM DEPTH	0.5	2	4	0.5	2	4
SEMIVOLATILES (MG/KG)						
1,1-BIPHENYL	0.0987 U	0.102 U	0.103 U			
1,2,4,5-TETRACHLOROBENZENE	0.0987 U	0.102 U	0.103 U			
1,4-DIOXANE	0.0987 U	0.102 U	0.103 U			
2,2'-OXYBIS(1-CHLOROPROPANE)	0.0987 U	0.102 U	0.103 U			
2,3,4,6-TETRACHLOROPHENOL	0.0987 U	0.102 U	0.103 U			
2,4,5-TRICHLOROPHENOL	0.0987 U	0.102 U	0.103 U			
2,4,6-TRICHLOROPHENOL	0.0987 U	0.102 U	0.103 U			
2,4-DICHLOROPHENOL	0.0987 U	0.102 U	0.103 U			
2,4-DIMETHYLPHENOL	0.394 U	0.408 U	0.41 U			
2,4-DINITROPHENOL	0.987 U	1.02 U	1.03 U			
2,4-DINITROTOLUENE	0.0987 U	0.102 U	0.103 U			
2,6-DINITROTOLUENE	0.0987 U	0.102 U	0.103 U			
2-CHLORONAPHTHALENE	0.0987 U	0.102 UJ	0.103 UJ			
2-CHLOROPHENOL	0.0987 U	0.102 U	0.103 U			
2-METHYLNAPHTHALENE	0.0987 U	0.102 U	0.103 U			
2-METHYLPHENOL	0.0987 U	0.102 U	0.103 U			
2-NITROANILINE	0.394 U	0.408 U	0.41 U			
2-NITROPHENOL	0.0987 U	0.102 U	0.103 U			
3,3'-DICHLOROBENZIDINE	0.0987 UJ	0.102 UJ	0.103 UJ			
3-NITROANILINE	0.394 U	0.408 U	0.41 U			
4,6-DINITRO-2-METHYLPHENOL	0.987 U	1.02 U	1.03 U			
4-BROMOPHENYL PHENYL ETHER	0.0987 U	0.102 U	0.103 U			
4-CHLORO-3-METHYLPHENOL	0.0987 U	0.102 U	0.103 U			
4-CHLOROANILINE	0.0987 U	0.102 U	0.103 U			
4-CHLOROPHENYL PHENYL ETHER	0.0987 U	0.102 U	0.103 U			
4-METHYLPHENOL	0.0987 U	0.102 U	0.103 U			
4-NITROANILINE	0.394 U	0.408 U	0.41 U			
4-NITROPHENOL	0.394 U	0.408 U	0.41 U			
ACETOPHENONE	0.0987 U	0.102 U	0.103 U			
ATRAZINE	0.0987 UJ	0.102 U	0.103 U			
BENZALDEHYDE	0.0987 UJ	0.102 U	0.103 U			
BIS(2-CHLOROETHOXY)METHANE	0.0987 U	0.102 U	0.103 U			
BIS(2-CHLOROETHYL)ETHER	0.0987 U	0.102 U	0.103 U			
BIS(2-ETHYLHEXYL)PHTHALATE	0.0987 UJ	0.102 UJ	0.103 UJ			
BUTYL BENZYL PHTHALATE	0.0987 UJ	0.102 UJ	0.103 UJ			
CAPROLACTAM	0.0987 U	0.102 U	0.103 U			
CARBAZOLE	0.0987 U	0.102 U	0.103 U			
DIBENZOFURAN	0.0987 U	0.102 U	0.103 U			
DIETHYL PHTHALATE	0.0987 U	0.102 U	0.103 U			
DIMETHYL PHTHALATE	0.0987 U	0.102 U	0.103 U			
DI-N-BUTYL PHTHALATE	0.0987 U	0.102 U	0.103 U			
DI-N-OCTYL PHTHALATE	0.0987 UJ	0.102 UJ	0.103 UJ			
HEXACHLOROBENZENE	0.0987 U	0.102 U	0.103 U			
HEXACHLOROBUTADIENE	0.0987 U	0.102 U	0.103 U			
HEXACHLOROCYCLOPENTADIENE	0.0987 U	0.102 U	0.103 U			
HEXACHLOROETHANE	0.0987 U	0.102 U	0.103 U			
ISOPHORONE	0.0987 U	0.102 U	0.103 U			
NITROBENZENE	0.0987 U	0.102 U	0.103 U			
N-NITROSO-DI-N-PROPYLAMINE	0.0987 U	0.102 U	0.103 U			
N-NITROSODIPHENYLAMINE	0.0987 U	0.102 U	0.103 U			
PENTACHLOROPHENOL	0.394 U	0.408 U	0.41 U			
PHENOL	0.0987 U	0.102 U	0.103 U			

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB07	55SB07	55SB07	55SB08	55SB08	55SB08
SAMPLE ID	55SS07-000X	55SS07-0X02	55SB07-0204	55SS08-000X	55SS08-0X02	55SB08-0204
SAMPLE DATE	20110812	20110812	20110812	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SB	SS	SS	SB
TOP DEPTH	0	0.5	2	0	0.5	2
BOTTOM DEPTH	0.5	2	4	0.5	2	4
VOLATILES (MG/KG)						
1,1,1-TRICHLOROETHANE		0.00126 U	0.00116 U			
1,1,2,2-TETRACHLOROETHANE		0.00126 U	0.00116 U			
1,1,2-TRICHLOROETHANE		0.00126 U	0.00116 U			
1,1,2-TRICHLOROTRIFLUOROETHANE		0.00253 U	0.00233 U			
1,1-DICHLOROETHANE		0.00126 U	0.00116 U			
1,1-DICHLOROETHENE		0.00126 U	0.00116 U			
1,2,3-TRICHLOROBENZENE		0.00126 U	0.00116 U			
1,2,4-TRICHLOROBENZENE		0.00126 U	0.00116 U			
1,2-DIBROMO-3-CHLOROPROPANE		0.00253 U	0.00233 U			
1,2-DIBROMOETHANE		0.00126 U	0.00116 U			
1,2-DICHLOROBENZENE		0.00126 U	0.00116 U			
1,2-DICHLOROETHANE		0.00126 U	0.00116 U			
1,2-DICHLOROPROPANE		0.00126 U	0.00116 U			
1,3-DICHLOROBENZENE		0.00126 U	0.00116 U			
1,4-DICHLOROBENZENE		0.00126 U	0.00116 U			
2-BUTANONE		0.00253 U	0.00233 U			
2-HEXANONE		0.00126 U	0.00116 U			
4-METHYL-2-PENTANONE		0.00126 U	0.00116 U			
ACETONE		0.0389 J	0.042 J			
BENZENE		0.00126 U	0.00116 U			
BROMOCHLOROMETHANE		0.00126 U	0.00116 U			
BROMODICHLOROMETHANE		0.00126 U	0.00116 U			
BROMOFORM		0.00126 U	0.00116 U			
BROMOMETHANE		0.00253 U	0.00233 U			
CARBON DISULFIDE		0.00148 J	0.00116 U			
CARBON TETRACHLORIDE		0.00126 U	0.00116 U			
CHLOROBENZENE		0.00126 U	0.00116 U			
CHLORODIBROMOMETHANE		0.00126 U	0.00116 U			
CHLOROETHANE		0.00253 U	0.00233 U			
CHLOROFORM		0.00126 U	0.00116 U			
CHLOROMETHANE		0.00253 U	0.00233 U			
CIS-1,2-DICHLOROETHENE		0.00126 U	0.00116 U			
CIS-1,3-DICHLOROPROPENE		0.00126 U	0.00116 U			
CYCLOHEXANE		0.00126 U	0.00116 U			
DICHLORODIFLUOROMETHANE		0.00253 U	0.00233 U			
ETHYLBENZENE		0.00126 U	0.00116 U			
ISOPROPYLBENZENE		0.00126 U	0.00116 U			
M+P-XYLENES		0.00253 U	0.00233 U			
METHYL ACETATE		0.00253 U	0.00233 U			
METHYL CYCLOHEXANE		0.00126 U	0.00116 U			
METHYL TERT-BUTYL ETHER		0.00126 U	0.00116 U			
METHYLENE CHLORIDE		0.00606 J	0.00446 J			
O-XYLENE		0.00126 U	0.00116 U			
STYRENE		0.00126 U	0.00116 U			
TETRACHLOROETHENE		0.00126 U	0.00116 U			
TOLUENE		0.00126 U	0.00116 U			
TRANS-1,2-DICHLOROETHENE		0.00126 U	0.00116 U			
TRANS-1,3-DICHLOROPROPENE		0.00126 U	0.00116 U			
TRICHLOROETHENE		0.00126 U	0.00116 U			
TRICHLOROFLUOROMETHANE		0.00253 U	0.00233 U			
VINYL CHLORIDE		0.00126 U	0.00116 U			

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB08	55SB09	55SB09	55SB09	55SB10	55SB10	55SB10
SAMPLE ID	55SB08-0406	55SS09-000X	55SS09-0X02	55SB09-0204	55SS10-000X	55SS10-0X02	55SB10-0204
SAMPLE DATE	20110811	20110812	20110812	20110812	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SS	SS	SB	SS	SS	SB
TOP DEPTH	4	0	0.5	2	0	0.5	2
BOTTOM DEPTH	6	0.5	2	4	0.5	2	4
METALS (MG/KG)							
ALUMINUM	10000	7320	3960	5260	11700	13000	8480
ANTIMONY	0.586 U	0.735 U	0.343 U	0.696 U	0.649 U	0.645 U	0.64 U
ARSENIC	5.29	5.61	7.08	6.24	6.05	3.58	6.37
BARIUM	26.6	29.1	17.2	21	35.9	46	22.9
BERYLLIUM	1.29	1.18	0.586	0.662 J	1.39	1.38	0.938
CADMIUM	2.18	0.526 J	0.0686 U	0.139 U	0.13 U	0.129 U	0.128 U
CALCIUM	4020	6210	4090	7580	9650	34700	14700
CHROMIUM	19.7	17.3	7.93	11	22.7	24.2	16.6
COBALT	5.03	4.03	1.88	2.9	5.27	4.81	2.65
COPPER	3.43	4.23	1.24	2.1	4.37	4.41	3.64
IRON	15100	12200	8480	10600	23300	19700	10400
LEAD	9.99	17	5.29	6.45	13.4	13.3	10.2
MAGNESIUM	3700	1980	1050	1500	4120	4260	2610
MANGANESE	210	145	60.9	162	298	256	99.4
MERCURY	0.0303 J	0.189	0.0249 J	0.0176 J	0.0376	0.0313 J	0.0232 J
NICKEL	8.15	6.14	3.81	4.18	8.04	6.84	4.65
POTASSIUM	1430	1360	593	811	1740	2010	1410
SELENIUM	0.352 U	0.441 U	0.206 U	0.418 U	0.389 U	0.387 U	0.431 J
SILVER	0.235 U	2.35	0.0686 U	0.139 U	0.13 U	0.258 U	0.128 U
SODIUM	1140	147 U	68.6 U	139 U	350 J	455 J	161 J
THALLIUM	0.352 U	0.441 U	0.206 U	0.418 U	0.389 U	0.387 U	0.384 U
VANADIUM	21.2	17.5	9.88	13.5	30.1	26.8	17.5
ZINC	24.2	28.3	9.03	11.6	29.2	29.8	21.7
PCBS (MG/KG)							
AROCLOR-1016	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1221	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1232	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1242	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1248	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1254	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1260	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1262	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
AROCLOR-1268	0.00509 U	0.0061 U	0.00601 U	0.00576 U	0.00531 U	0.00515 U	0.005 U
POLYCYCLIC AROMATIC HYDROCARBONS (MG/KG)							
1-METHYLNAPHTHALENE		0.118 U	0.118 U	0.111 U			
ACENAPHTHENE		0.118 U	0.118 U	0.111 U			
ACENAPHTHYLENE		0.118 U	0.118 U	0.111 U			
ANTHRACENE		0.118 U	0.118 U	0.111 U			
BENZO(A)ANTHRACENE		0.118 U	0.118 U	0.111 U			
BENZO(A)PYRENE		0.118 U	0.118 U	0.111 U			
BENZO(B)FLUORANTHENE		0.118 UJ	0.118 UJ	0.111 UJ			
BENZO(G,H,I)PERYLENE		0.118 U	0.118 U	0.111 U			
BENZO(K)FLUORANTHENE		0.118 U	0.118 U	0.111 U			
CHRYSENE		0.118 U	0.118 U	0.111 U			
DIBENZO(A,H)ANTHRACENE		0.118 U	0.118 U	0.111 U			
FLUORANTHENE		0.118 U	0.118 U	0.111 U			
FLUORENE		0.118 U	0.118 U	0.111 U			
INDENO(1,2,3-CD)PYRENE		0.118 U	0.118 U	0.111 U			
NAPHTHALENE		0.118 U	0.118 U	0.111 U			
PHENANTHRENE		0.118 U	0.118 U	0.111 U			
PYRENE		0.118 U	0.118 U	0.111 U			

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB08	55SB09	55SB09	55SB09	55SB10	55SB10	55SB10
SAMPLE ID	55SB08-0406	55SS09-000X	55SS09-0X02	55SB09-0204	55SS10-000X	55SS10-0X02	55SB10-0204
SAMPLE DATE	20110811	20110812	20110812	20110812	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SS	SS	SB	SS	SS	SB
TOP DEPTH	4	0	0.5	2	0	0.5	2
BOTTOM DEPTH	6	0.5	2	4	0.5	2	4
SEMIVOLATILES (MG/KG)							
1,1-BIPHENYL		0.118 U	0.118 U	0.111 U			
1,2,4,5-TETRACHLOROBENZENE		0.118 U	0.118 U	0.111 U			
1,4-DIOXANE		0.118 U	0.118 U	0.111 U			
2,2'-OXYBIS(1-CHLOROPROPANE)		0.118 U	0.118 U	0.111 U			
2,3,4,6-TETRACHLOROPHENOL		0.118 U	0.118 U	0.111 U			
2,4,5-TRICHLOROPHENOL		0.118 U	0.118 U	0.111 U			
2,4,6-TRICHLOROPHENOL		0.118 U	0.118 U	0.111 U			
2,4-DICHLOROPHENOL		0.118 U	0.118 U	0.111 U			
2,4-DIMETHYLPHENOL		0.471 U	0.474 U	0.445 U			
2,4-DINITROPHENOL		1.18 U	1.18 U	1.11 U			
2,4-DINITROTOLUENE		0.118 U	0.118 U	0.111 U			
2,6-DINITROTOLUENE		0.118 U	0.118 U	0.111 U			
2-CHLORONAPHTHALENE		0.118 U	0.118 UJ	0.111 U			
2-CHLOROPHENOL		0.118 U	0.118 U	0.111 U			
2-METHYLNAPHTHALENE		0.118 U	0.118 U	0.111 U			
2-METHYLPHENOL		0.118 U	0.118 U	0.111 U			
2-NITROANILINE		0.471 U	0.474 U	0.445 U			
2-NITROPHENOL		0.118 U	0.118 U	0.111 U			
3,3'-DICHLOROBENZIDINE		0.118 UJ	0.118 UJ	0.111 UJ			
3-NITROANILINE		0.471 U	0.474 U	0.445 U			
4,6-DINITRO-2-METHYLPHENOL		1.18 U	1.18 U	1.11 U			
4-BROMOPHENYL PHENYL ETHER		0.118 U	0.118 U	0.111 U			
4-CHLORO-3-METHYLPHENOL		0.118 U	0.118 U	0.111 U			
4-CHLOROANILINE		0.118 U	0.118 U	0.111 U			
4-CHLOROPHENYL PHENYL ETHER		0.118 U	0.118 U	0.111 U			
4-METHYLPHENOL		0.118 U	0.118 U	0.111 U			
4-NITROANILINE		0.471 U	0.474 U	0.445 U			
4-NITROPHENOL		0.471 U	0.474 U	0.445 U			
ACETOPHENONE		0.118 U	0.118 U	0.111 U			
ATRAZINE		0.118 U	0.118 U	0.111 U			
BENZALDEHYDE		0.118 U	0.118 U	0.111 U			
BIS(2-CHLOROETHOXY)METHANE		0.118 U	0.118 U	0.111 U			
BIS(2-CHLOROETHYL)ETHER		0.118 U	0.118 U	0.111 U			
BIS(2-ETHYLHEXYL)PHTHALATE		0.118 UJ	0.118 UJ	0.111 UJ			
BUTYL BENZYL PHTHALATE		0.118 UJ	0.118 UJ	0.111 UJ			
CAPROLACTAM		0.118 U	0.118 U	0.111 U			
CARBAZOLE		0.118 U	0.118 U	0.111 U			
DIBENZOFURAN		0.118 U	0.118 U	0.111 U			
DIETHYL PHTHALATE		0.118 U	0.118 U	0.111 U			
DIMETHYL PHTHALATE		0.118 U	0.118 U	0.111 U			
DI-N-BUTYL PHTHALATE		0.118 U	0.118 U	0.111 U			
DI-N-OCTYL PHTHALATE		0.118 UJ	0.118 UJ	0.111 UJ			
HEXACHLOROBENZENE		0.118 U	0.118 U	0.111 U			
HEXACHLOROBUTADIENE		0.118 U	0.118 U	0.111 U			
HEXACHLOROCYCLOPENTADIENE		0.118 U	0.118 U	0.111 U			
HEXACHLOROETHANE		0.118 U	0.118 U	0.111 U			
ISOPHORONE		0.118 U	0.118 U	0.111 U			
NITROBENZENE		0.118 U	0.118 U	0.111 U			
N-NITROSO-DI-N-PROPYLAMINE		0.118 U	0.118 U	0.111 U			
N-NITROSODIPHENYLAMINE		0.118 U	0.118 U	0.111 U			
PENTACHLOROPHENOL		0.471 U	0.474 U	0.445 U			
PHENOL		0.118 U	0.118 U	0.111 U			

TABLE B-1

SUMMARY OF SOIL ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55SB08	55SB09	55SB09	55SB09	55SB10	55SB10	55SB10
SAMPLE ID	55SB08-0406	55SS09-000X	55SS09-0X02	55SB09-0204	55SS10-000X	55SS10-0X02	55SB10-0204
SAMPLE DATE	20110811	20110812	20110812	20110812	20110811	20110811	20110811
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SS	SS	SB	SS	SS	SB
TOP DEPTH	4	0	0.5	2	0	0.5	2
BOTTOM DEPTH	6	0.5	2	4	0.5	2	4
VOLATILES (MG/KG)							
1,1,1-TRICHLOROETHANE			0.00143 U	0.00151 U			
1,1,2,2-TETRACHLOROETHANE			0.00143 U	0.00151 U			
1,1,2-TRICHLOROETHANE			0.00143 U	0.00151 U			
1,1,2-TRICHLOROTRIFLUOROETHANE			0.00286 U	0.00301 U			
1,1-DICHLOROETHANE			0.00143 U	0.00151 U			
1,1-DICHLOROETHENE			0.00143 U	0.00151 U			
1,2,3-TRICHLOROBENZENE			0.00143 UJ	0.00151 U			
1,2,4-TRICHLOROBENZENE			0.00143 UJ	0.00151 U			
1,2-DIBROMO-3-CHLOROPROPANE			0.00286 U	0.00301 U			
1,2-DIBROMOETHANE			0.00143 U	0.00151 U			
1,2-DICHLOROBENZENE			0.00143 UJ	0.00151 U			
1,2-DICHLOROETHANE			0.00143 U	0.00151 U			
1,2-DICHLOROPROPANE			0.00143 U	0.00151 U			
1,3-DICHLOROBENZENE			0.00143 UJ	0.00151 U			
1,4-DICHLOROBENZENE			0.00143 UJ	0.00151 U			
2-BUTANONE			0.00286 U	0.00301 U			
2-HEXANONE			0.00143 U	0.00151 U			
4-METHYL-2-PENTANONE			0.00143 U	0.00151 U			
ACETONE			0.0197 J	0.0183 J			
BENZENE			0.00143 U	0.00151 U			
BROMOCHLOROMETHANE			0.00143 U	0.00151 U			
BROMODICHLOROMETHANE			0.00143 U	0.00151 U			
BROMOFORM			0.00143 U	0.00151 U			
BROMOMETHANE			0.00286 U	0.00301 U			
CARBON DISULFIDE			0.00143 U	0.00151 U			
CARBON TETRACHLORIDE			0.00143 U	0.00151 U			
CHLOROBENZENE			0.00143 U	0.00151 U			
CHLORODIBROMOMETHANE			0.00143 U	0.00151 U			
CHLOROETHANE			0.00286 U	0.00301 U			
CHLOROFORM			0.00143 U	0.00151 U			
CHLOROMETHANE			0.00286 U	0.00301 U			
CIS-1,2-DICHLOROETHENE			0.00143 U	0.00151 U			
CIS-1,3-DICHLOROPROPENE			0.00143 U	0.00151 U			
CYCLOHEXANE			0.00143 U	0.00151 U			
DICHLORODIFLUOROMETHANE			0.00286 U	0.00301 U			
ETHYLBENZENE			0.00143 U	0.00151 U			
ISOPROPYLBENZENE			0.00143 U	0.00151 U			
M+P-XYLENES			0.00286 U	0.00301 U			
METHYL ACETATE			0.00286 UJ	0.00301 U			
METHYL CYCLOHEXANE			0.00143 U	0.00151 U			
METHYL TERT-BUTYL ETHER			0.00143 U	0.00151 U			
METHYLENE CHLORIDE			0.00505 J	0.00671 J			
O-XYLENE			0.00143 U	0.00151 U			
STYRENE			0.00143 UJ	0.00151 U			
TETRACHLOROETHENE			0.00143 U	0.00151 U			
TOLUENE			0.00143 U	0.00151 U			
TRANS-1,2-DICHLOROETHENE			0.00143 U	0.00151 U			
TRANS-1,3-DICHLOROPROPENE			0.00143 U	0.00151 U			
TRICHLOROETHENE			0.00143 U	0.00151 U			
TRICHLOROFLUOROMETHANE			0.00286 U	0.00301 U			
VINYL CHLORIDE			0.00143 U	0.00151 U			

TABLE B-2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55TW01		55TW02	55TW03		55TW04	55TW05	55TW06
SAMPLE ID	55TW01-0008-08092011	55TW01-0008-08092011-D	55TW02-0012-08102011	55TW03-0008-08152011	55TW03-0008-08152011-D	55TW04-0008-08152011	55TW05-0008-08102011	55TW06-0008-08102011
SAMPLE DATE	20110809	20110809	20110810	20110815	20110815	20110815	20110810	20110810
SAMPLE CODE	ORIG	DUP	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
MATRIX	GW	GW	GW	GW	GW	GW	GW	GW
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA
TOP DEPTH	8	8	12	8	8	8	8	8
BOTTOM DEPTH	8	8	12	8	8	8	8	8
METALS (UG/L)								
ALUMINUM	2070	1600	613	8970		5760	195	2790
ANTIMONY	1.25 U	2.5 U	2.5 U	6.25 U		6.25 U	2.5 U	2.5 U
ARSENIC	23.8 J	23.7 J	3.01 J	42.3		78.3	49.5 J	40.4 J
BARIUM	49.8	62.4	35.5	71.2		54.4	42.1	56.6
BERYLLIUM	0.25 U	0.5 U	0.5 U	1.51 J		1.25 U	0.5 U	0.5 U
CADMIUM	0.25 U	0.5 U	2.5 U	1.25 U		1.25 U	0.5 U	0.5 U
CALCIUM	166000	165000	167000	188000		318000	215000	229000
CHROMIUM	2.97	3.74 J	5 U	19		10.1 J	1 U	4.98 J
COBALT	1.25 U	2.5 U	2.5 U	6.25 U		6.25 U	2.5 U	2.5 U
COPPER	1 U	2 U	2.47 J	5 U		5 U	2 U	2 U
IRON	9670	10200	986	73500		30100	8190	15000
LEAD	1.88 U	1.78	3.75 U	9.6		4.12	1.5 U	2.44
MAGNESIUM	28600	30500	428000	25200		104000	41500	42500
MANGANESE	1190	1330	25.1	1060		3150	1340	1220
MERCURY	0.08 U	0.08 U	0.08 U	0.08 U		0.08 U	0.08 U	0.08 U
NICKEL	1.3 J	1.83 J	1.5 U	6.15 J		4.32 J	1.5 U	1.76 J
POTASSIUM	7710	8270	145000	6720		9870	8900	8280
SELENIUM	0.75 U	1.5 U	1.5 U	3.75 U		3.75 U	1.5 U	1.5 U
SILVER	0.25 U	0.5 U	0.5 U	1.25 U		1.25 U	0.5 U	0.5 U
SODIUM	13100	14100	3650000	23000		155000	105000	119000
THALLIUM	0.75 U	1.5 U	1.5 U	3.75 U		3.75 U	1.5 U	1.5 U
VANADIUM	4.38	5.84 J	4.63 J	26.6		17.8	2.5 U	8.32
ZINC	6.25 U	6.16 J	12.5 U	24.3 J		12 J	2.5 U	7.68 J
PCBS (UG/L)								
AROCLOR-1016	0.112 UJ	0.111 UJ	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1221	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1232	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1242	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1248	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1254	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1260	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1262	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
AROCLOR-1268	0.112 U	0.111 U	0.113 UJ	0.113 UJ		0.113 UJ	0.111 UJ	0.111 UJ
POLYCYCLIC AROMATIC HYDROCARBONS (UG/L)								
1-METHYLNAPHTHALENE				1.18 U	1.16 U	1.18 U		
2-METHYLNAPHTHALENE				1.18 U	1.16 U	1.18 U		
ACENAPHTHENE				1.18 U	1.16 U	1.18 U		
ACENAPHTHYLENE				1.18 U	1.16 U	1.18 U		
ANTHRACENE				1.18 U	1.16 U	1.18 U		
BENZO(A)ANTHRACENE				1.18 U	1.16 U	1.18 U		
BENZO(A)PYRENE				1.18 U	1.16 U	1.18 U		
BENZO(B)FLUORANTHENE				1.18 UJ	1.16 UJ	1.18 UJ		
BENZO(G,H,I)PERYLENE				1.18 U	1.16 U	1.18 U		
BENZO(K)FLUORANTHENE				1.18 U	1.16 U	1.18 U		
CHRYSENE				1.18 U	1.16 U	1.18 U		
DIBENZO(A,H)ANTHRACENE				1.18 U	1.16 U	1.18 U		
FLUORANTHENE				1.18 U	1.16 U	1.18 U		
FLUORENE				1.18 U	1.16 U	1.18 U		
INDENO(1,2,3-CD)PYRENE				1.18 U	1.16 U	1.18 U		
PHENANTHRENE				1.18 U	1.16 U	1.18 U		
PYRENE				1.18 U	1.16 U	1.18 U		

TABLE B-2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55TW01		55TW02	55TW03		55TW04	55TW05	55TW06
SAMPLE ID	55TW01-0008-08092011	55TW01-0008-08092011-D	55TW02-0012-08102011	55TW03-0008-08152011	55TW03-0008-08152011-D	55TW04-0008-08152011	55TW05-0008-08102011	55TW06-0008-08102011
SAMPLE DATE	20110809	20110809	20110810	20110815	20110815	20110815	20110810	20110810
SAMPLE CODE	ORIG	DUP	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
MATRIX	GW	GW	GW	GW	GW	GW	GW	GW
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA
TOP DEPTH	8	8	12	8	8	8	8	8
BOTTOM DEPTH	8	8	12	8	8	8	8	8
SEMIVOLATILES (UG/L)								
1,1-BIPHENYL				1.18 U	1.16 U	1.18 U		
1,2,4,5-TETRACHLOROBENZENE				1.18 U	1.16 U	1.18 U		
1,4-DIOXANE				1.18 U	1.16 U	1.18 U		
2,2'-OXYBIS(1-CHLOROPROPANE)				1.18 U	1.16 U	1.18 U		
2,3,4,6-TETRACHLOROPHENOL				1.18 UJ	1.16 UJ	1.18 UJ		
2,4,5-TRICHLOROPHENOL				1.18 UJ	1.16 UJ	1.18 UJ		
2,4,6-TRICHLOROPHENOL				1.18 UJ	1.16 UJ	1.18 UJ		
2,4-DICHLOROPHENOL				1.18 UJ	1.16 UJ	1.18 UJ		
2,4-DIMETHYLPHENOL				4.72 U	4.63 U	4.72 U		
2,4-DINITROPHENOL				11.8 U	11.6 U	11.8 U		
2,4-DINITROTOLUENE				1.18 U	1.16 U	1.18 U		
2,6-DINITROTOLUENE				1.18 U	1.16 U	1.18 U		
2-CHLORONAPHTHALENE				1.18 U	1.16 U	1.18 U		
2-CHLOROPHENOL				1.18 U	1.16 U	1.18 U		
2-METHYLPHENOL				1.18 UJ	1.16 UJ	1.18 UJ		
2-NITROANILINE				4.72 U	4.63 U	4.72 U		
2-NITROPHENOL				1.18 U	1.16 U	1.18 U		
3,3'-DICHLOROBENZIDINE				1.18 UJ	1.16 UJ	1.18 UJ		
3-NITROANILINE				4.72 U	4.63 U	4.72 U		
4,6-DINITRO-2-METHYLPHENOL				4.72 U	4.63 U	4.72 U		
4-BROMOPHENYL PHENYL ETHER				1.18 U	1.16 U	1.18 U		
4-CHLORO-3-METHYLPHENOL				1.18 UJ	1.16 UJ	1.18 UJ		
4-CHLOROANILINE				1.18 U	1.16 U	1.18 U		
4-CHLOROPHENYL PHENYL ETHER				1.18 U	1.16 U	1.18 U		
4-METHYLPHENOL				1.18 U	1.16 U	1.18 U		
4-NITROANILINE				4.72 U	4.63 U	4.72 U		
4-NITROPHENOL				4.72 U	4.63 U	4.72 U		
ACETOPHENONE				1.18 U	1.16 U	1.18 U		
ATRAZINE				1.18 U	1.16 U	1.18 U		
BENZALDEHYDE				1.18 U	1.16 U	1.18 U		
BIS(2-CHLOROETHOXY)METHANE				1.18 U	1.16 U	1.18 U		
BIS(2-CHLOROETHYL)ETHER				1.18 U	1.16 U	1.18 U		
BIS(2-ETHYLHEXYL)PHTHALATE				1.18 UJ	1.16 UJ	1.18 UJ		
BUTYL BENZYL PHTHALATE				1.18 UJ	1.16 UJ	1.18 UJ		
CAPROLACTAM				1.18 UJ	1.16 UJ	1.18 UJ		
CARBAZOLE				1.18 U	1.16 U	1.18 U		
DIBENZOFURAN				1.18 U	1.16 U	1.18 U		
DIETHYL PHTHALATE				1.18 U	1.16 U	1.18 U		
DIMETHYL PHTHALATE				1.18 U	1.16 U	1.18 U		
DI-N-BUTYL PHTHALATE				1.18 U	1.16 U	1.18 U		
DI-N-OCTYL PHTHALATE				1.18 UJ	1.16 UJ	1.18 UJ		
HEXACHLOROBENZENE				1.18 U	1.16 U	1.18 U		
HEXACHLOROBUTADIENE				1.18 U	1.16 U	1.18 U		
HEXACHLOROCYCLOPENTADIENE				1.18 U	1.16 U	1.18 U		
HEXACHLOROETHANE				1.18 U	1.16 U	1.18 U		
ISOPHORONE				1.18 U	1.16 U	1.18 U		
NAPHTHALENE				1.18 U	1.16 U	1.18 U		
NITROBENZENE				1.18 U	1.16 U	1.18 U		
N-NITROSO-DI-N-PROPYLAMINE				1.18 U	1.16 U	1.18 U		
N-NITROSODIPHENYLAMINE				1.18 U	1.16 U	1.18 U		
PENTACHLOROPHENOL				4.72 U	4.63 U	4.72 U		
PHENOL				1.18 U	1.16 U	1.18 U		
VOLATILES (UG/L)								
1,1,1-TRICHLOROETHANE				0.25 U	0.25 U	0.25 U		
1,1,2,2-TETRACHLOROETHANE				0.25 U	0.25 U	0.25 U		
1,1,2-TRICHLOROETHANE				0.25 U	0.25 U	0.25 U		
1,1,2-TRICHLOROTRIFLUOROETHANE				0.5 U	0.5 U	0.5 U		
1,1-DICHLOROETHANE				0.25 U	0.25 U	0.25 U		
1,1-DICHLOROETHENE				0.25 U	0.25 U	0.25 U		
1,2,3-TRICHLOROBENZENE				0.25 U	0.25 U	0.25 U		
1,2,4-TRICHLOROBENZENE				0.25 U	0.25 U	0.25 U		

TABLE B-2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55TW01		55TW02	55TW03		55TW04	55TW05	55TW06
SAMPLE ID	55TW01-0008-08092011	55TW01-0008-08092011-D	55TW02-0012-08102011	55TW03-0008-08152011	55TW03-0008-08152011-D	55TW04-0008-08152011	55TW05-0008-08102011	55TW06-0008-08102011
SAMPLE DATE	20110809	20110809	20110810	20110815	20110815	20110815	20110810	20110810
SAMPLE CODE	ORIG	DUP	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
MATRIX	GW	GW	GW	GW	GW	GW	GW	GW
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA
TOP DEPTH	8	8	12	8	8	8	8	8
BOTTOM DEPTH	8	8	12	8	8	8	8	8
1,2-DIBROMO-3-CHLOROPROPANE				0.5 U	0.5 U	0.5 U		
1,2-DIBROMOETHANE				0.24 U	0.24 U	0.24 U		
1,2-DICHLOROBENZENE				0.16 U	0.16 U	0.16 U		
1,2-DICHLOROETHANE				0.25 U	0.25 U	0.25 U		
1,2-DICHLOROPROPANE				0.25 U	0.25 U	0.25 U		
1,3-DICHLOROBENZENE				0.25 U	0.25 U	0.25 U		
1,4-DICHLOROBENZENE				0.25 U	0.25 U	0.25 U		
2-BUTANONE				2.5 U	2.5 U	2.5 U		
2-HEXANONE				1.25 U	1.25 U	1.25 U		
4-METHYL-2-PENTANONE				1.25 U	1.25 U	1.25 U		
ACETONE				4 J	4.23 J	2.5 U		
BENZENE				0.25 U	0.25 U	0.25 U		
BROMOCHLOROMETHANE				0.25 U	0.25 U	0.25 U		
BROMODICHLOROMETHANE				0.25 U	0.25 U	0.25 U		
BROMOFORM				0.25 U	0.25 U	0.25 U		
BROMOMETHANE				0.5 U	0.5 U	0.5 U		
CARBON DISULFIDE				0.25 U	0.25 U	0.25 U		
CARBON TETRACHLORIDE				0.25 U	0.25 U	0.25 U		
CHLOROBENZENE				0.25 U	0.25 U	0.25 U		
CHLORODIBROMOMETHANE				0.25 U	0.25 U	0.25 U		
CHLOROETHANE				0.5 U	0.5 U	0.5 U		
CHLOROFORM				0.25 U	0.25 U	0.25 U		
CHLOROMETHANE				0.25 U	0.25 U	0.25 U		
CIS-1,2-DICHLOROETHENE				0.25 U	0.25 U	0.25 U		
CIS-1,3-DICHLOROPROPENE				0.25 U	0.25 U	0.25 U		
CYCLOHEXANE				0.25 U	0.25 U	0.25 U		
DICHLORODIFLUOROMETHANE				0.5 UJ	0.5 UJ	0.5 UJ		
ETHYLBENZENE				0.25 U	0.25 U	0.25 U		
ISOPROPYLBENZENE				0.25 U	0.25 U	0.25 U		
M+P-XYLENES				0.5 U	0.5 U	0.5 U		
METHYL ACETATE				0.5 U	0.5 U	0.5 U		
METHYL CYCLOHEXANE				0.25 U	0.25 U	0.25 U		
METHYL TERT-BUTYL ETHER				0.25 U	0.25 U	0.25 U		
METHYLENE CHLORIDE				0.5 U	0.5 U	0.5 U		
O-XYLENE				0.25 U	0.25 U	0.25 U		
STYRENE				0.25 U	0.25 U	0.25 U		
TETRACHLOROETHENE				0.25 U	0.25 U	0.25 U		
TOLUENE				0.25 U	0.25 U	0.25 U		
TRANS-1,2-DICHLOROETHENE				0.5 U	0.5 U	0.5 U		
TRANS-1,3-DICHLOROPROPENE				0.25 U	0.25 U	0.25 U		
TRICHLOROETHENE				0.25 U	0.25 U	0.25 U		
TRICHLOROFLUOROMETHANE				0.5 U	0.5 U	0.5 U		
VINYL CHLORIDE				0.25 U	0.25 U	0.25 U		

TABLE B-2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55TW07	55TW08	55TW09	55TW10
SAMPLE ID	55TW07-0009-08152011	55TW08-0008-08092011	55TW09-0008-08152011	55TW10-0008-08102011
SAMPLE DATE	20110815	20110809	20110815	20110810
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	GW	GW	GW	GW
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA
TOP DEPTH	9	8	8	8
BOTTOM DEPTH	9	8	8	8
METALS (UG/L)				
ALUMINUM	582	1590	690	322
ANTIMONY	2.5 U	2.5 U	2.5 U	2.5 U
ARSENIC	2.96 J	32.2 J	1.65 J	40.4 J
BARIUM	33.2	26.2	53.2	47.1
BERYLLIUM	0.5 U	0.5 U	0.5 U	0.5 U
CADMIUM	2.5 U	0.928 J	0.5 U	0.5 U
CALCIUM	169000	369000	184000	227000
CHROMIUM	5 U	3.09 J	1 U	1 U
COBALT	2.5 U	15.9	2.5 U	2.5 U
COPPER	2 U	2.26 J	2 U	2 U
IRON	838	23100	2070	28600
LEAD	3.75 U	1.88 U	0.75 U	0.75 U
MAGNESIUM	466000	137000	61600	38000
MANGANESE	38.6	5440	384	1200
MERCURY	0.08 U	0.08 U	0.08 U	0.08 U
NICKEL	1.5 U	10.6	1.5 U	1.5 U
POTASSIUM	157000	16100	13400	7770
SELENIUM	1.5 U	3.75 U	1.5 U	1.5 U
SILVER	0.5 U	1.25 U	0.5 U	0.5 U
SODIUM	3800000	320000	233000	24300
THALLIUM	1.5 U	3.75 U	1.5 U	1.5 U
VANADIUM	4.55 J	8.14 J	2.5 U	2.5 U
ZINC	12.5 U	11.7 J	2.5 U	2.5 U
PCBS (UG/L)				
AROCLOR-1016	0.115 U	0.133 UJ	0.118 UJ	0.111 UJ
AROCLOR-1221	0.115 U	0.133 U	0.118 U	0.111 UJ
AROCLOR-1232	0.115 U	0.133 U	0.118 U	0.111 UJ
AROCLOR-1242	0.115 U	0.133 U	0.118 U	0.111 UJ
AROCLOR-1248	0.115 U	0.133 U	0.118 U	0.111 UJ
AROCLOR-1254	0.115 UJ	0.133 U	0.118 U	0.111 UJ
AROCLOR-1260	0.115 U	0.133 U	0.118 U	0.111 UJ
AROCLOR-1262	0.115 U	0.133 U	0.118 U	0.111 UJ
AROCLOR-1268	0.115 U	0.133 U	0.118 U	0.111 UJ
POLYCYCLIC AROMATIC HYDROCARBONS (UG/L)				
1-METHYLNAPHTHALENE	1.16 U		1.2 U	
2-METHYLNAPHTHALENE	1.16 U		1.2 U	
ACENAPHTHENE	1.16 U		1.2 U	
ACENAPHTHYLENE	1.16 U		1.2 U	
ANTHRACENE	1.16 U		1.2 U	
BENZO(A)ANTHRACENE	1.16 U		1.2 U	
BENZO(A)PYRENE	1.16 U		1.2 U	
BENZO(B)FLUORANTHENE	1.16 UJ		1.2 UJ	
BENZO(G,H,I)PERYLENE	1.16 U		1.2 U	
BENZO(K)FLUORANTHENE	1.16 U		1.2 U	
CHRYSENE	1.16 U		1.2 U	
DIBENZO(A,H)ANTHRACENE	1.16 U		1.2 U	
FLUORANTHENE	1.16 U		1.2 U	
FLUORENE	1.16 U		1.2 U	
INDENO(1,2,3-CD)PYRENE	1.16 U		1.2 U	
PHENANTHRENE	1.16 U		1.2 U	
PYRENE	1.16 U		1.2 U	

TABLE B-2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55TW07	55TW08	55TW09	55TW10
SAMPLE ID	55TW07-0009-08152011	55TW08-0008-08092011	55TW09-0008-08152011	55TW10-0008-08102011
SAMPLE DATE	20110815	20110809	20110815	20110810
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	GW	GW	GW	GW
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA
TOP DEPTH	9	8	8	8
BOTTOM DEPTH	9	8	8	8
SEMIVOLATILES (UG/L)				
1,1-BIPHENYL	1.16 U		1.2 U	
1,2,4,5-TETRACHLOROBENZENE	1.16 U		1.2 U	
1,4-DIOXANE	1.16 U		1.2 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	1.16 U		1.2 U	
2,3,4,6-TETRACHLOROPHENOL	1.16 UJ		1.2 UJ	
2,4,5-TRICHLOROPHENOL	1.16 UJ		1.2 UJ	
2,4,6-TRICHLOROPHENOL	1.16 UJ		1.2 UJ	
2,4-DICHLOROPHENOL	1.16 UJ		1.2 UJ	
2,4-DIMETHYLPHENOL	4.63 U		4.81 U	
2,4-DINITROPHENOL	11.6 U		12 U	
2,4-DINITROTOLUENE	1.16 U		1.2 U	
2,6-DINITROTOLUENE	1.16 U		1.2 U	
2-CHLORONAPHTHALENE	1.16 U		1.2 U	
2-CHLOROPHENOL	1.16 U		1.2 U	
2-METHYLPHENOL	1.16 UJ		1.2 UJ	
2-NITROANILINE	4.63 U		4.81 U	
2-NITROPHENOL	1.16 U		1.2 U	
3,3'-DICHLOROBENZIDINE	1.16 UJ		1.2 UJ	
3-NITROANILINE	4.63 U		4.81 U	
4,6-DINITRO-2-METHYLPHENOL	4.63 U		4.81 U	
4-BROMOPHENYL PHENYL ETHER	1.16 U		1.2 U	
4-CHLORO-3-METHYLPHENOL	1.16 UJ		1.2 UJ	
4-CHLOROANILINE	1.16 U		1.2 U	
4-CHLOROPHENYL PHENYL ETHER	1.16 U		1.2 U	
4-METHYLPHENOL	1.16 U		1.2 U	
4-NITROANILINE	4.63 U		4.81 U	
4-NITROPHENOL	4.63 U		4.81 U	
ACETOPHENONE	1.16 U		1.2 U	
ATRAZINE	1.16 U		1.2 U	
BENZALDEHYDE	1.16 U		1.2 U	
BIS(2-CHLOROETHOXY)METHANE	1.16 U		1.2 U	
BIS(2-CHLOROETHYL)ETHER	1.16 U		1.2 U	
BIS(2-ETHYLHEXYL)PHTHALATE	1.16 UJ		1.2 UJ	
BUTYL BENZYL PHTHALATE	1.16 UJ		1.2 UJ	
CAPROLACTAM	1.16 UJ		1.2 UJ	
CARBAZOLE	1.16 U		1.2 U	
DIBENZOFURAN	1.16 U		1.2 U	
DIETHYL PHTHALATE	1.16 U		1.2 U	
DIMETHYL PHTHALATE	1.16 U		1.2 U	
DI-N-BUTYL PHTHALATE	1.16 U		1.2 U	
DI-N-OCTYL PHTHALATE	1.16 UJ		1.2 UJ	
HEXACHLOROBENZENE	1.16 U		1.2 U	
HEXACHLOROBUTADIENE	1.16 U		1.2 U	
HEXACHLOROCYCLOPENTADIENE	1.16 U		1.2 U	
HEXACHLOROETHANE	1.16 U		1.2 U	
ISOPHORONE	1.16 U		1.2 U	
NAPHTHALENE	1.16 U		1.2 U	
NITROBENZENE	1.16 U		1.2 U	
N-NITROSO-DI-N-PROPYLAMINE	1.16 U		1.2 U	
N-NITROSODIPHENYLAMINE	1.16 U		1.2 U	
PENTACHLOROPHENOL	4.63 U		4.81 U	
PHENOL	1.16 U		1.2 U	
VOLATILES (UG/L)				
1,1,1-TRICHLOROETHANE	0.25 U		0.25 U	
1,1,2,2-TETRACHLOROETHANE	0.25 U		0.25 U	
1,1,2-TRICHLOROETHANE	0.25 U		0.25 U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5 U		0.5 U	
1,1-DICHLOROETHANE	0.25 U		0.25 U	
1,1-DICHLOROETHENE	0.25 U		0.25 U	
1,2,3-TRICHLOROBENZENE	0.25 U		0.25 U	
1,2,4-TRICHLOROBENZENE	0.25 U		0.25 U	

TABLE B-2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PSC 55
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

LOCATION	55TW07	55TW08	55TW09	55TW10
SAMPLE ID	55TW07-0009-08152011	55TW08-0008-08092011	55TW09-0008-08152011	55TW10-0008-08102011
SAMPLE DATE	20110815	20110809	20110815	20110810
SAMPLE CODE	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX	GW	GW	GW	GW
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA
TOP DEPTH	9	8	8	8
BOTTOM DEPTH	9	8	8	8
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U		0.5 U	
1,2-DIBROMOETHANE	0.24 U		0.24 U	
1,2-DICHLOROBENZENE	0.16 U		0.16 U	
1,2-DICHLOROETHANE	0.25 U		0.25 U	
1,2-DICHLOROPROPANE	0.25 U		0.25 U	
1,3-DICHLOROBENZENE	0.25 U		0.25 U	
1,4-DICHLOROBENZENE	0.25 U		0.25 U	
2-BUTANONE	2.5 U		2.5 U	
2-HEXANONE	1.25 U		1.25 U	
4-METHYL-2-PENTANONE	1.25 U		1.25 U	
ACETONE	4.27 J		2.5 U	
BENZENE	0.25 U		0.25 U	
BROMOCHLOROMETHANE	0.25 U		0.25 U	
BROMODICHLOROMETHANE	0.25 U		0.25 U	
BROMOFORM	0.25 U		0.25 U	
BROMOMETHANE	0.5 U		0.5 U	
CARBON DISULFIDE	0.25 U		0.25 U	
CARBON TETRACHLORIDE	0.25 U		0.25 U	
CHLOROBENZENE	0.25 U		0.25 U	
CHLORODIBROMOMETHANE	0.25 U		0.25 U	
CHLOROETHANE	0.5 U		0.5 U	
CHLOROFORM	0.25 U		0.25 U	
CHLOROMETHANE	0.25 U		0.25 U	
CIS-1,2-DICHLOROETHENE	0.25 U		0.25 U	
CIS-1,3-DICHLOROPROPENE	0.25 U		0.25 U	
CYCLOHEXANE	0.25 U		0.25 U	
DICHLORODIFLUOROMETHANE	0.5 UJ		0.5 UJ	
ETHYLBENZENE	0.25 U		0.25 U	
ISOPROPYLBENZENE	0.25 U		0.25 U	
M+P-XYLENES	0.5 U		0.5 U	
METHYL ACETATE	0.5 U		0.5 U	
METHYL CYCLOHEXANE	0.25 U		0.25 U	
METHYL TERT-BUTYL ETHER	0.25 U		0.316 J	
METHYLENE CHLORIDE	0.5 U		0.5 U	
O-XYLENE	0.25 U		0.25 U	
STYRENE	0.25 U		0.25 U	
TETRACHLOROETHENE	0.25 U		0.25 U	
TOLUENE	0.25 U		0.25 U	
TRANS-1,2-DICHLOROETHENE	0.5 U		0.5 U	
TRANS-1,3-DICHLOROPROPENE	0.25 U		0.25 U	
TRICHLOROETHENE	0.25 U		0.25 U	
TRICHLOROFLUOROMETHANE	0.5 U		0.5 U	
VINYL CHLORIDE	0.25 U		0.25 U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **A. PATE** **DATE:** **DECEMBER 2, 2011**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC AND INORGANIC DATA VALIDATION: PCB/METALS**
NAS JACKSONVILLE, CTOJM19
SAMPLE DELIVERY GROUP (SDG) – 1108137

SAMPLES: 3/Aqueous/PCB/Metals

55GW01-0008-08092011 55GW01-0008-08092011D 55GW08-0008-08092011

OVERVIEW

The sample set for NAS Jacksonville, CTO JM19, SDG 1108137 consists of three (3) aqueous environmental samples analyzed for polychlorinated biphenyls (PCBs) and metals including mercury. There is one field duplicate pair contained within this SDG: 55GW01-0008-08092011 and 55GW01-0008008092011D.

The samples were collected by TetraTech NUS on August 9, 2011 and analyzed by Empirical Laboratories, LLC. Analyses were conducted using SW-846 8082A for PCBs, 7470A for mercury and 6010C for metals analytical and reporting protocols. The data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
  • Initial and Continuing Calibration Verification Results
* • Blank Results
* • Field Duplicate Precision
* • Detection Limits

* - 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.

PCBs

The continuing calibration percent difference (%D) for Aroclor 1016 was greater than the 20% quality control limit on both columns on August 19, 2011 @ 20:14. The nondetected Aroclor 1016 results were qualified as estimated (UJ) in the affected samples.

METALS

The continuing calibration verification %D for arsenic exceeded quality control limits on August 23, 2011 @ 15:51 affecting all samples. The positive arsenic results were qualified as estimated (J).

ADDITIONAL COMMENTS

The continuing calibration verification %Ds for Aroclor 1016 and Aroclor 1260 were greater than 20% on column 2 on August 19, 2011 @ 12:09. No action was taken on the nondetected results.

Positive results reported below the limit of quantitation (LOQ) but above the method detection limit (MDL) were qualified as estimated, (J).

The nondetected results were reported to the method detection limit (MDL).

EXECUTIVE SUMMARY

Laboratory Performance Issues: The continuing calibration %D for Aroclor 1016 and arsenic exceeded quality control limits.

Other factors affecting data quality: Positive results reported below the LOQ but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), EPA National Functional Guidelines for Inorganic Review (October 2004) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
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 = ICP PDS Recovery Noncompliance; 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 = RPD between columns/detectors >40% 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
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02686	NSAMPLE	55GW01-0008-08092011			55GW01-0008-08092011D			55GW08-0008-08092011		
SDG: 1108137	LAB_ID	1108137-01			1108137-02			1108137-03		
FRACTION: PCB	SAMP_DATE	8/9/2011			8/9/2011			8/9/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF				55GW01-0008-08092011					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		0.112	UJ	C	0.111	UJ	C	0.133	UJ	C
AROCLOR-1221		0.112	U		0.111	U		0.133	U	
AROCLOR-1232		0.112	U		0.111	U		0.133	U	
AROCLOR-1242		0.112	U		0.111	U		0.133	U	
AROCLOR-1248		0.112	U		0.111	U		0.133	U	
AROCLOR-1254		0.112	U		0.111	U		0.133	U	
AROCLOR-1260		0.112	U		0.111	U		0.133	U	
AROCLOR-1262		0.112	U		0.111	U		0.133	U	
AROCLOR-1268		0.112	U		0.111	U		0.133	U	

PROJ_NO: 02686	NSAMPLE	55GW01-0008-08092011			55GW01-0008-08092011D			55GW08-0008-08092011		
SDG: 1108137	LAB_ID	1108137-01			1108137-02			1108137-03		
FRACTION: M	SAMP_DATE	8/9/2011			8/9/2011			8/9/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF				55GW01-0008-08092011					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		2070			1600			1590		
ANTIMONY		1.25	U		2.5	U		2.5	U	
ARSENIC		23.8	J	C	23.7	J	C	32.2	J	C
BARIUM		49.8			62.4			26.2		
BERYLLIUM		0.25	U		0.5	U		0.5	U	
CADMIUM		0.25	U		0.5	U		0.928	J	P
CALCIUM		166000			165000			369000		
CHROMIUM		2.97			3.74	J	P	3.09	J	P
COBALT		1.25	U		2.5	U		15.9		
COPPER		1	U		2	U		2.26	J	P
IRON		9670			10200			23100		
LEAD		1.88	U		1.78			1.88	U	
MAGNESIUM		28600			30500			137000		
MANGANESE		1190			1330			5440		
MERCURY		0.08	U		0.08	U		0.08	U	
NICKEL		1.3	J	P	1.83	J	P	10.6		
POTASSIUM		7710			8270			16100		
SELENIUM		0.75	U		1.5	U		3.75	U	
SILVER		0.25	U		0.5	U		1.25	U	
SODIUM		13100			14100			320000		
THALLIUM		0.75	U		1.5	U		3.75	U	
VANADIUM		4.38			5.84	J	P	8.14	J	P
ZINC		6.25	U		6.16	J	P	11.7	J	P

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ANALYSIS DATA SHEET

55GW01-0008-08092011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108137-01	File ID:	020F2001.D
Sampled:	08/09/11 08:50	Prepared:	08/11/11 17:12	Analyzed:	08/19/11 16:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H11010 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.112	0.234	0.467	UX
11104-28-2	Aroclor-1221		0.112	0.234	0.467	U
11141-16-5	Aroclor-1232		0.112	0.234	0.467	U
53469-21-9	Aroclor-1242		0.112	0.234	0.467	U
12672-29-6	Aroclor-1248		0.112	0.234	0.467	U
11097-69-1	Aroclor-1254		0.112	0.234	0.467	U
11096-82-5	Aroclor-1260		0.112	0.234	0.467	U
37324-23-5	Aroclor-1262		0.112	0.234	0.467	U
11100-14-4	Aroclor-1268		0.112	0.234	0.467	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4673	0.2016	43.1	25 - 140	
Tetrachloro-m-xylene [2C]	0.4673	0.2356	50.4	25 - 140	X
Decachlorobiphenyl	0.4673	0.08813	18.9	40 - 135	*
Decachlorobiphenyl [2C]	0.4673	0.09348	20.0	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW01-0008-08092011D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108137	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108137-02	File ID:	021F2101.D
Sampled:	08/09/11 08:50	Prepared:	08/11/11 17:12	Analyzed:	08/19/11 16:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H11010 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.111	0.231	0.463	UX
11104-28-2	Aroclor-1221		0.111	0.231	0.463	U
11141-16-5	Aroclor-1232		0.111	0.231	0.463	U
53469-21-9	Aroclor-1242		0.111	0.231	0.463	U
12672-29-6	Aroclor-1248		0.111	0.231	0.463	U
11097-69-1	Aroclor-1254		0.111	0.231	0.463	U
11096-82-5	Aroclor-1260		0.111	0.231	0.463	U
37324-23-5	Aroclor-1262		0.111	0.231	0.463	U
11100-14-4	Aroclor-1268		0.111	0.231	0.463	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4630	0.2550	55.1	25 - 140	
Tetrachloro-m-xylene [2C]	0.4630	0.3004	64.9	25 - 140	X
Decachlorobiphenyl	0.4630	0.07886	17.0	40 - 135	*
Decachlorobiphenyl [2C]	0.4630	0.08387	18.1	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW08-0008-08092011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108137	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108137-03	File ID:	022F2201.D
Sampled:	08/09/11 10:40	Prepared:	08/11/11 17:12	Analyzed:	08/19/11 17:07
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H11010 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.133	0.278	0.556	UX
11104-28-2	Aroclor-1221		0.133	0.278	0.556	U
11141-16-5	Aroclor-1232		0.133	0.278	0.556	U
53469-21-9	Aroclor-1242		0.133	0.278	0.556	U
12672-29-6	Aroclor-1248		0.133	0.278	0.556	U
11097-69-1	Aroclor-1254		0.133	0.278	0.556	U
11096-82-5	Aroclor-1260		0.133	0.278	0.556	U
37324-23-5	Aroclor-1262		0.133	0.278	0.556	U
11100-14-4	Aroclor-1268		0.133	0.278	0.556	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5556	0.2691	48.4	25 - 140	
Tetrachloro-m-xylene [2C]	0.5556	0.3021	54.4	25 - 140	X
Decachlorobiphenyl	0.5556	0.09527	17.1	40 - 135	*
Decachlorobiphenyl [2C]	0.5556	0.09244	16.6	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW01-0008-08092011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/09/11 08:50
% Solids: 0.00

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108137-01
Received: 08/10/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:17
7429-90-5	Aluminum	2070	62.5	125	250	5	DN *	SW6010C	1H22924	08/24/11 14:02
7440-36-0	Antimony		1.25	2.00	2.50	1	UN*	SW6010C	1H22924	08/23/11 14:43
7440-38-2	Arsenic	23.8	0.750	1.50	2.50	1	X	SW6010C	1H22924	08/23/11 14:43
7440-39-3	Barium	49.8	1.25	2.50	10.0	1		SW6010C	1H22924	08/23/11 14:43
7440-41-7	Beryllium		0.250	0.500	1.25	1	U	SW6010C	1H22924	08/23/11 14:43
7440-43-9	Cadmium		0.250	0.500	1.25	1	U	SW6010C	1H22924	08/23/11 14:43
7440-70-2	Calcium	166000	1250	2500	6250	5	D	SW6010C	1H22924	08/24/11 14:02
7440-47-3	Chromium	2.97	0.500	1.00	2.50	1		SW6010C	1H22924	08/23/11 14:43
7440-48-4	Cobalt		1.25	2.50	3.12	1	U	SW6010C	1H22924	08/23/11 14:43
7440-50-8	Copper		1.00	2.00	2.50	1	U	SW6010C	1H22924	08/23/11 14:43
7439-89-6	Iron	9670	7.50	15.0	25.0	1	N *	SW6010C	1H22924	08/23/11 14:43
7439-92-1	Lead		1.88	3.75	3.75	5	U	SW6010C	1H22924	08/24/11 14:02
7439-95-4	Magnesium	28600	250	750	1250	1		SW6010C	1H22924	08/23/11 14:43
7439-96-5	Manganese	1190	0.750	1.50	3.75	1		SW6010C	1H22924	08/23/11 14:43
7440-02-0	Nickel	1.30	0.750	1.50	2.50	1	I	SW6010C	1H22924	08/23/11 14:43
7440-09-7	Potassium	7710	250	750	1250	1		SW6010C	1H22924	08/23/11 14:43
7782-49-2	Selenium		0.750	1.25	2.50	1	U	SW6010C	1H22924	08/23/11 14:43
7440-22-4	Silver		0.250	0.500	2.50	1	U	SW6010C	1H22924	08/23/11 14:43
7440-23-5	Sodium	13100	250	750	1250	1		SW6010C	1H22924	08/23/11 14:43
7440-28-0	Thallium		0.750	1.00	2.00	1	U	SW6010C	1H22924	08/23/11 14:43
7440-62-2	Vanadium	4.38	1.25	2.50	3.12	1		SW6010C	1H22924	08/23/11 14:43
7440-66-6	Zinc		6.25	12.5	25.0	5	U	SW6010C	1H22924	08/24/11 14:02

ANALYSIS DATA SHEET

55GW01-0008-08092011D

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/09/11 08:50
% Solids: 0.00

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108137-02
Received: 08/10/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:20
7429-90-5	Aluminum	1600	25.0	50.0	100	2	DN *	SW6010C	1H22924	08/23/11 15:07
7440-36-0	Antimony		2.50	4.00	5.00	2	UN*	SW6010C	1H22924	08/23/11 15:07
7440-38-2	Arsenic	23.7	1.50	3.00	5.00	2	X D	SW6010C	1H22924	08/23/11 15:07
7440-39-3	Barium	62.4	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:07
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:07
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:07
7440-70-2	Calcium	165000	500	1000	2500	2	D	SW6010C	1H22924	08/23/11 15:07
7440-47-3	Chromium	3.74	1.00	2.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:07
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:07
7440-50-8	Copper		2.00	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:07
7439-89-6	Iron	10200	15.0	30.0	50.0	2	DN *	SW6010C	1H22924	08/23/11 15:07
7439-92-1	Lead	1.78	0.750	1.50	1.50	2	D	SW6010C	1H22924	08/23/11 15:07
7439-95-4	Magnesium	30500	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:07
7439-96-5	Manganese	1330	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/23/11 15:07
7440-02-0	Nickel	1.83	1.50	3.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:07
7440-09-7	Potassium	8270	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:07
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/23/11 15:07
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:07
7440-23-5	Sodium	14100	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:07
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/23/11 15:07
7440-62-2	Vanadium	5.84	2.50	5.00	6.25	2	D I	SW6010C	1H22924	08/23/11 15:07
7440-66-6	Zinc	6.16	2.50	5.00	10.0	2	D I	SW6010C	1H22924	08/23/11 15:07

ANALYSIS DATA SHEET

55GW08-0008-08092011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/09/11 10:40
% Solids: 0.00

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108137-03
Received: 08/10/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:21
7429-90-5	Aluminum	1590	62.5	125	250	5	DN *	SW6010C	1H22924	08/24/11 14:11
7440-36-0	Antimony		2.50	4.00	5.00	2	UN*	SW6010C	1H22924	08/23/11 15:12
7440-38-2	Arsenic	32.2	1.50	3.00	5.00	2	X D	SW6010C	1H22924	08/23/11 15:12
7440-39-3	Barium	26.2	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:12
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:12
7440-43-9	Cadmium	0.928	0.500	1.00	2.50	2	D I	SW6010C	1H22924	08/23/11 15:12
7440-70-2	Calcium	369000	1250	2500	6250	5	D	SW6010C	1H22924	08/24/11 14:11
7440-47-3	Chromium	3.09	2.50	5.00	12.5	5	D I	SW6010C	1H22924	08/24/11 14:11
7440-48-4	Cobalt	15.9	2.50	5.00	6.25	2	D	SW6010C	1H22924	08/23/11 15:12
7440-50-8	Copper	2.26	2.00	4.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:12
7439-89-6	Iron	23100	37.5	75.0	125	5	DN *	SW6010C	1H22924	08/24/11 14:11
7439-92-1	Lead		1.88	3.75	3.75	5	U	SW6010C	1H22924	08/24/11 14:11
7439-95-4	Magnesium	137000	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:12
7439-96-5	Manganese	5440	3.75	7.50	18.8	5	D	SW6010C	1H22924	08/24/11 14:11
7440-02-0	Nickel	10.6	1.50	3.00	5.00	2	D	SW6010C	1H22924	08/23/11 15:12
7440-09-7	Potassium	16100	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:12
7782-49-2	Selenium		3.75	6.25	12.5	5	U	SW6010C	1H22924	08/24/11 14:11
7440-22-4	Silver		1.25	2.50	12.5	5	U	SW6010C	1H22924	08/24/11 14:11
7440-23-5	Sodium	320000	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 14:11
7440-28-0	Thallium		3.75	5.00	10.0	5	U	SW6010C	1H22924	08/24/11 14:11
7440-62-2	Vanadium	8.14	6.25	12.5	15.6	5	D I	SW6010C	1H22924	08/24/11 14:11
7440-66-6	Zinc	11.7	6.25	12.5	25.0	5	D I	SW6010C	1H22924	08/24/11 14:11

APPENDIX C

SUPPORT DOCUMENTATION

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8082A:
The surrogate Decachlorobiphenyl exceeded criteria with a negative bias on both columns in 1H11010-BLK1, -BS1, -MS1, -MSD1, 1108137-01, -02, and -03.

The continuing calibration verifications exceeded criteria in 1H24023-CCV4 with a negative bias on column 2 for Aroclor-1016 and -1260, in 1H24023-CCV6 with a positive bias on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl, and in 1H24023-CCV9 with a positive bias on column 1 for Arcolor-1016 and with a negative bias on column 2 for Aroclor-1016 and -1260.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7470A:
The continuing calibration verification 1H23613-CCV2 exceeded criteria with a positive bias for Arsenic.

The matrix spikes associated to sample 1108137-01 exceeded recovery criteria with a positive bias for Aluminum and Iron, exceeded recovery criteria with a negative bias for Antimony, exceeded relative percent difference criteria for Aluminum, Antimony, and Iron, and exceeded recovery criteria for Calcium, Magnesium, Sodium, and Potassium; however, the parent sample concentrations for Calcium, Magnesium Sodium, and Potassium are greater than 4 times the amounts spiked. The post spike associated to sample 1108137-01 exceeded criteria with a negative bias for Manganese and exceeded criteria for Calcium, Iron, Magnesium, and Sodium; however, the parent sample concentrations for Calcium, Iron, Magnesium, and Sodium are greater than 4 times the amount spiked. The serial dilution associated to sample 1108137-01RE1 exceeded criteria for Calcium,

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 2276 | PAGE 1 OF 1

PROJECT NO: 112G02686	FACILITY: NAS JAX	PROJECT MANAGER: ALAN PATE	PHONE NUMBER: 904-636-6125	LABORATORY NAME AND CONTACT: EMPIRICAL LABORATORIES LLC / B. RICHARD
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: ZACH SCRIBNER	PHONE NUMBER: 904-636-6125	ADDRESS: 6021 MAINSTREAM DRIVE, SUITE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE: NASHVILLE TN

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G P
PRESERVATIVE USED: — HNO3

	DATE YEAR 2011	TIME	SAMPLE ID 1108137	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCB	METALS (TOT)							COMMENTS
-01	8/9	0850	55GW01-0008-08092011				GW	G	3	2	1							Cool to 4°C
-02	↓	0850	55GW01-0008-08092011 D				GW	G	3	2	1							→ DUPLICATE
-01		0850	55GW01-0008-08092011 MS/MSD				GW	G	6	4	2							→ MS/MSD
-03	↓	1040	55GW08-0008-08092011				GW	G	3	2	1							

1. RELINQUISHED BY [signature]	DATE 08/09/11	TIME 1530	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

10

1108137

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108137 Number of Coolers: 1 of 1

Client: TETRA TECH Project: NAS JAX

Date/Time Received: 8/10/11 900 Date cooler(s) opened:

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered'

EL Courier Other: _____

If applicable, enter airbill number here: 1315

2. Were custody seals on outside of cooler(s)? ..... Yes / No

How many: 0 Seal date: N/A Seal Initials: N/A

3. Were custody seals unbroken and intact at the date and time of arrival?	Yes	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	Yes	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	Yes	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	Yes	No	N/A
7. Was project identifiable from custody papers?	Yes	No	N/A
8. If required, was enough ice present in the cooler(s)?	Yes	No	N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.6 °C Correction Factor: +1.4 °C Final Value: 3.0 °C

Dates samples were logged-in: 8.10.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55GW01-0008-08092011	08/09/11 08:50	08/10/11 09:00	08/11/11 17:12	2.35	7.00	08/19/11 16:30	7.97	40.00	
55GW01-0008-08092011D	08/09/11 08:50	08/10/11 09:00	08/11/11 17:12	2.35	7.00	08/19/11 16:49	7.98	40.00	
55GW08-0008-08092011	08/09/11 10:40	08/10/11 09:00	08/11/11 17:12	2.27	7.00	08/19/11 17:07	8.00	40.00	

NAS JACKSONVILLE
WATER DATA
1108137

FRACTION	CHEMICAL	55GW01-0008-08092011	UNITS	5GW01-0008-08092011I	RPD	D
M	ALUMINUM	2070	UG/L	1600	25.61	470.00
M	ARSENIC	23.8 J	UG/L	23.7 J	0.42	0.10
M	BARIUM	49.8	UG/L	62.4	22.46	12.60
M	CALCIUM	166000	UG/L	165000	0.60	1000.00
M	CHROMIUM	2.97	UG/L	3.74 J	22.95	0.77
M	IRON	9670	UG/L	10200	5.33	530.00
M	LEAD	ND	UG/L	1.78	200.00	1.78
M	MAGNESIUM	28600	UG/L	30500	6.43	1900.00
M	MANGANESE	1190	UG/L	1330	11.11	140.00
M	NICKEL	1.3 J	UG/L	1.83 J	33.87	0.53
M	POTASSIUM	7710	UG/L	8270	7.01	560.00
M	SODIUM	13100	UG/L	14100	7.35	1000.00
M	VANADIUM	4.38	UG/L	5.84 J	28.57	1.46
M	ZINC	ND	UG/L	6.16 J	200.00	6.16

Current RPD Quality Control Limit: 30 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

HOLDTIM

PROJ_NO 02686

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108137	HG	UG/L	55GW01-0008-08092011D	1108137-02	NM	08/09/2011	08/17/2011	08/17/2011	8	0	8
1108137	HG	UG/L	55GW01-0008-08092011	1108137-01	NM	08/09/2011	08/17/2011	08/17/2011	8	0	8
1108137	HG	UG/L	55GW08-0008-08092011	1108137-03	NM	08/09/2011	08/17/2011	08/17/2011	8	0	8
1108145	HG	UG/L	55GW06-0008-08102011	1108145-02	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108145	HG	UG/L	55GW02-0012-08102011	1108145-03	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108145	HG	UG/L	55GW05-0008-08102011	1108145-04	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108145	HG	UG/L	55GW10-0008-08102011	1108145-01	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108240	M	MG/KG	05B00301D-S2-08222011	1108240-16	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101C-S1-08222011	1108240-38	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101C-S2-08222011	1108240-39	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301B-S2-08222011	1108240-22	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101D-S0-08222011	1108240-27	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101D-S1-08222011	1108240-28	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S2-08222011D	1108240-36RE1	NM	08/22/2011	09/07/2011	09/13/2011	16	6	22
1108240	M	MG/KG	05S00101D-S2-08222011	1108240-29	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101A-S2-08222011	1108240-32	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	M	MG/KG	05S01001A-S0-08222011	1108240-04	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301A-S2-08222011	1108240-19	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301B-S1-08222011	1108240-21	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001A-S1-08222011	1108240-05	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101C-S0-08222011	1108240-37	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301B-S0-08222011	1108240-20	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301C-S1-08222011	1108240-24	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S2-08222011	1108240-35	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S1-08222011	1108240-34RE1	NM	08/22/2011	09/07/2011	09/13/2011	16	6	22
1108240	M	MG/KG	05B00301C-S1-08222011D	1108240-25	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301C-S2-08222011	1108240-26	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S0-08222011	1108240-33	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301D-S0-08222011	1108240-14	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101A-S1-08222011	1108240-31	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301D-S1-08222011	1108240-15	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101A-S0-08222011	1108240-30	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301C-S0-08222011	1108240-23	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001D-S0-08222011	1108240-01	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001C-S1-08222011	1108240-12	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	M	MG/KG	05S01001B-S2-08222011	1108240-10	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001C-S2-08222011	1108240-13	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001B-S1-08222011	1108240-09	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001C-S0-08222011	1108240-11	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001B-S0-08222011D	1108240-08	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301A-S0-08222011	1108240-17	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001D-S1-08222011	1108240-02	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001B-S0-08222011	1108240-07	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001A-S2-08222011	1108240-06RE1	NM	08/22/2011	09/07/2011	09/13/2011	16	6	22
1108240	M	MG/KG	05S01001D-S2-08222011	1108240-03	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301A-S1-08222011	1108240-18	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108137	M	UG/L	55GW08-0008-08092011	1108137-03	NM	08/09/2011	08/22/2011	08/23/2011	13	1	14
1108137	M	UG/L	55GW08-0008-08092011	1108137-03RE1	NM	08/09/2011	08/22/2011	08/24/2011	13	2	15
1108137	M	UG/L	55GW01-0008-08092011	1108137-01RE1	NM	08/09/2011	08/22/2011	08/24/2011	13	2	15
1108137	M	UG/L	55GW01-0008-08092011	1108137-01	NM	08/09/2011	08/22/2011	08/23/2011	13	1	14
1108137	M	UG/L	55GW01-0008-08092011D	1108137-02	NM	08/09/2011	08/22/2011	08/23/2011	13	1	14
1108145	M	UG/L	55GW02-0012-08102011	1108145-03RE3	NM	08/10/2011	08/22/2011	08/24/2011	12	2	14
1108145	M	UG/L	55GW02-0012-08102011	1108145-03	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108145	M	UG/L	55GW02-0012-08102011	1108145-03RE1	NM	08/10/2011	08/22/2011	08/24/2011	12	2	14

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108145	M	UG/L	55GW10-0008-08102011	1108145-01	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108145	M	UG/L	55GW06-0008-08102011	1108145-02	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108145	M	UG/L	55GW05-0008-08102011	1108145-04	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108240	PAH	MG/KG	05B00301D-S1-08222011	1108240-15	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301D-S1-08222011	1108240-15	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S1-08222011	1108240-18	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S0-08222011	1108240-17	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301D-S0-08222011	1108240-14	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S2-08222011	1108240-19	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301D-S0-08222011	1108240-14	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S0-08222011	1108240-17	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S0-08222011	1108240-20	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S2-08222011	1108240-26	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S2-08222011	1108240-26	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S0-08222011	1108240-23	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S1-08222011D	1108240-25	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S1-08222011D	1108240-25	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S1-08222011	1108240-21	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S1-08222011	1108240-21	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05B00301C-S1-08222011	1108240-24	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S1-08222011	1108240-24	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S2-08222011	1108240-22	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S2-08222011	1108240-19	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S2-08222011	1108240-22	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S1-08222011	1108240-18	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S0-08222011	1108240-23	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S0-08222011	1108240-20	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001B-S2-08222011	1108240-10	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001A-S0-08222011	1108240-04	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05B00301D-S2-08222011	1108240-16	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001A-S1-08222011	1108240-05	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S00101A-S1-08222011	1108240-31	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S01001A-S2-08222011	1108240-06	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001A-S2-08222011	1108240-06	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011	1108240-07	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011	1108240-07	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011D	1108240-08	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011D	1108240-08	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05S01001B-S1-08222011	1108240-09	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S2-08222011	1108240-29	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S01001B-S2-08222011	1108240-10	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001A-S0-08222011	1108240-04	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001C-S0-08222011	1108240-11	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S0-08222011	1108240-11	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S1-08222011	1108240-12	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S1-08222011	1108240-12	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S2-08222011	1108240-13	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S2-08222011	1108240-13	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001D-S0-08222011	1108240-01	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S0-08222011	1108240-01	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S1-08222011	1108240-02	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S1-08222011	1108240-02	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S2-08222011	1108240-03	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S1-08222011	1108240-09	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101B-S2-08222011	1108240-35	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05B00301D-S2-08222011	1108240-16	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101A-S0-08222011	1108240-30	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05S00101A-S0-08222011	1108240-30	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101A-S1-08222011	1108240-31	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101A-S2-08222011	1108240-32	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S01001D-S2-08222011	1108240-03	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S00101A-S2-08222011	1108240-32	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S0-08222011	1108240-33	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S0-08222011	1108240-33	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S1-08222011	1108240-34	NM	08/22/2011	09/02/2011	09/05/2011	11	3	14
1108240	PAH	MG/KG	05S01001A-S1-08222011	1108240-05	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S00101B-S2-08222011	1108240-35	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101D-S2-08222011	1108240-29	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S1-08222011	1108240-38	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101D-S1-08222011	1108240-28	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S1-08222011	1108240-28	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S0-08222011	1108240-27	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S0-08222011	1108240-27	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101C-S2-08222011	1108240-39	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S1-08222011	1108240-34	SUR	08/22/2011	09/02/2011	09/05/2011	11	3	14
1108240	PAH	MG/KG	05S00101C-S2-08222011	1108240-39	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05S00101B-S2-08222011D	1108240-36	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S1-08222011	1108240-38	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S0-08222011	1108240-37	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S0-08222011	1108240-37	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S2-08222011D	1108240-36	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108137	PCB	UG/L	55GW01-0008-08092011D	1108137-02	NM	08/09/2011	08/11/2011	08/19/2011	2	8	10
1108137	PCB	UG/L	55GW01-0008-08092011	1108137-01	NM	08/09/2011	08/11/2011	08/19/2011	2	8	10
1108137	PCB	UG/L	55GW08-0008-08092011	1108137-03	NM	08/09/2011	08/11/2011	08/19/2011	2	8	10
1108145	PCB	UG/L	55GW10-0008-08102011	1108145-01	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9
1108145	PCB	UG/L	55GW02-0012-08102011	1108145-03	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9
1108145	PCB	UG/L	55GW06-0008-08102011	1108145-02	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9
1108145	PCB	UG/L	55GW05-0008-08102011	1108145-04	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F16727-CAL2	004R0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL2	004F0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL3	005R0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL3	005F0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL5	007R0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL5	007F0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL6	008R0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL6	008F0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL1	011R1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL1	011F1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL4	012R1201.D	06/15/11 15:30
Cal Standard	1F16727-CAL4	012F1201.D	06/15/11 15:30
Initial Cal Check	1F16727-ICV1	013R1301.D	06/15/11 16:39
Initial Cal Check	1F16727-ICV1	013F1301.D	06/15/11 16:39

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004F0401.D	06/15/11 11:44
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004R0401.D	06/15/11 11:44
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005F0501.D	06/15/11 12:02
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005R0501.D	06/15/11 12:02
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007F0701.D	06/15/11 12:39
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007R0701.D	06/15/11 12:39
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008F0801.D	06/15/11 12:58
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008R0801.D	06/15/11 12:58
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011R1101.D	06/15/11 15:11
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011F1101.D	06/15/11 15:11
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012F1201.D	06/15/11 15:30
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012R1201.D	06/15/11 15:30

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1G18809-CAL1	002R0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL1	002F0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL2	003R0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL2	003F0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL3	004R0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL3	004F0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL4	005R0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL4	005F0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL5	006R0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL5	006F0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL6	007R0701.D	07/06/11 15:04
Cal Standard	1G18809-CAL6	007F0701.D	07/06/11 15:04
Initial Cal Check	1G18809-ICV1	008R0801.D	07/06/11 15:22
Initial Cal Check	1G18809-ICV1	008F0801.D	07/06/11 15:22

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002F0201.D	07/06/11 13:30
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002R0201.D	07/06/11 13:30
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003F0301.D	07/06/11 13:49
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003R0301.D	07/06/11 13:49
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004F0401.D	07/06/11 14:08
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004R0401.D	07/06/11 14:08
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005F0501.D	07/06/11 14:26
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005R0501.D	07/06/11 14:26
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006F0601.D	07/06/11 14:45
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006R0601.D	07/06/11 14:45
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007F0701.D	07/06/11 15:04
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007R0701.D	07/06/11 15:04

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24021-CAL1	002R0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL1	002F0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL2	003R0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL2	003F0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL3	004R0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL3	004F0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL4	005R0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL4	005F0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL5	006R0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL5	006F0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL6	007R0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL6	007F0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL7	008R0801.D	08/18/11 13:38
Cal Standard	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002F0201.D	08/18/11 11:46
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002R0201.D	08/18/11 11:46
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003F0301.D	08/18/11 12:05
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003R0301.D	08/18/11 12:05
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004R0401.D	08/18/11 12:24
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004F0401.D	08/18/11 12:24
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005F0501.D	08/18/11 12:42
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005R0501.D	08/18/11 12:42
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006F0601.D	08/18/11 13:01
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006R0601.D	08/18/11 13:01
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007F0701.D	08/18/11 13:20
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007R0701.D	08/18/11 13:20
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008R0801.D	08/18/11 13:38
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	764.9617	3.701185	6.842333	6.993766E-02			20	
Aroclor-1016 (1)	1313.194	4.773023	6.562333	0.0600394			20	
Aroclor-1016 (2)	484.2716	4.936372	5.705667	6.027624E-02			20	
Aroclor-1016 (3)	727.4158	5.456124	6.0485	5.053442E-02			20	
Aroclor-1016 (4)	729.6346	4.647932	6.249	7.702264E-02			20	
Aroclor-1016 (5)	570.2921	8.613207	6.842333	6.993766E-02			20	
Aroclor-1016 [2C]	1023.566	12.66002	5.5265	0.2629682			20	
Aroclor-1016 (1) [2C]	1604.03	13.32639	5.290167	4.263819E-02			20	
Aroclor-1016 (2) [2C]	959.9071	12.85092	4.888	2.187117E-02			20	
Aroclor-1016 (3) [2C]	923.9359	12.79206	5.046833	2.947105E-02			20	
Aroclor-1016 (4) [2C]	828.7439	11.94865	5.432667	3.546654E-02			20	
Aroclor-1016 (5) [2C]	801.2113	12.26989	5.5265	0.2629682			20	
Aroclor-1221	347.4893	9.924338	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504849	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6893	17.28239	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47423	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30277	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481552	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172853	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648797	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397496	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.747	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38972	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02			20	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.816	19.04286	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2268.142	3.933859	10.9125	5.356125E-02			20	
Aroclor-1260 (1)	4311.523	4.013749	9.821833	5.898152E-02			20	
Aroclor-1260 (2)	1902.286	5.065316	8.709667	7.050999E-02			20	
Aroclor-1260 (3)	2253.205	6.033797	9.053333	6.367493E-02			20	
Aroclor-1260 (4)	1832.006	4.516835	9.151333	6.728445E-02			20	
Aroclor-1260 (5)	1041.689	2.952778	10.9125	5.356125E-02			20	
Aroclor-1260 [2C]	2343.645	10.71217	8.009833	0.0306845			20	
Aroclor-1260 (1) [2C]	3714.819	9.330505	8.009833	0.0306845			20	
Aroclor-1260 (2) [2C]	1817.694	13.27222	6.769333	2.786608E-02			20	
Aroclor-1260 (3) [2C]	2256.668	11.29824	7.008	3.544481E-02			20	
Aroclor-1260 (4) [2C]	2106.889	11.69539	7.351834	3.499818E-02			20	
Aroclor-1260 (5) [2C]	1822.153	9.927531	7.692	3.530716E-02			20	
Tetrachloro-m-xylene	34968.44	7.672347	5.178857	5.515361E-02			20	
Tetrachloro-m-xylene [2C]	26183.29	24.10909	4.215857	0.0134251		0.9982558	0.995	
Decachlorobiphenyl	41093.6	16.74027	11.268	1.798916E-02			20	
Decachlorobiphenyl [2C]	23977.95	27.90083	9.430857	1.242397E-02		0.9991183	0.995	

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	013F1301.D	Calibration Date:	08/18/11 00:00
Sequence:	1F16727	Injection Date:	06/15/11
Lab Sample ID:	1F16727-ICV1	Injection Time:	16:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1093	1313.194	1435.669		9.3	20
Aroclor-1016 (2)	A	1000	946.9	484.2716	458.546		-5.3	20
Aroclor-1016 (3)	A	1000	964.1	727.4158	701.277		-3.6	20
Aroclor-1016 (4)	A	1000	960.9	729.6346	701.106		-3.9	20
Aroclor-1016 (5)	A	1000	987.1	570.2921	562.947		-1.3	20
Aroclor-1016 (1) [2C]	A	1000	940.9	1604.03	1509.212		-5.9	20
Aroclor-1016 (2) [2C]	A	1000	923.3	959.9071	886.326		-7.7	20
Aroclor-1016 (3) [2C]	A	1000	937.4	923.9359	866.112		-6.3	20
Aroclor-1016 (4) [2C]	A	1000	920.5	828.7439	762.829		-8.0	20
Aroclor-1016 (5) [2C]	A	1000	913.8	801.2113	732.147		-8.6	20
Aroclor-1260 (1)	A	1000	1001	4311.523	4315.435		0.09	20
Aroclor-1260 (2)	A	1000	1053	1902.286	2003.529		5.3	20
Aroclor-1260 (3)	A	1000	1191	2253.205	2683.726		19.1	20
Aroclor-1260 (4)	A	1000	959.2	1832.006	1757.239		-4.1	20
Aroclor-1260 (5)	A	1000	1008	1041.689	1050.036		0.8	20
Aroclor-1260 (1) [2C]	A	1000	953.2	3714.819	3540.866		-4.7	20
Aroclor-1260 (2) [2C]	A	1000	915.4	1817.694	1663.944		-8.5	20
Aroclor-1260 (3) [2C]	A	1000	929.0	2256.668	2096.335		-7.1	20
Aroclor-1260 (4) [2C]	A	1000	1048	2106.889	2208.576		4.8	20
Aroclor-1260 (5) [2C]	A	1000	941.9	1822.153	1716.221		-5.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24023	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H24023-CCV1	003R0301.D	08/19/11 11:13
Calibration Check	1H24023-CCV1	003F0301.D	08/19/11 11:13
Calibration Check	1H24023-CCV4	006R0601.D	08/19/11 12:09
Calibration Check	1H24023-CCV4	006F0601.D	08/19/11 12:09
Calibration Check	1H24023-CCV5	007R0701.D	08/19/11 12:28
Calibration Check	1H24023-CCV5	007F0701.D	08/19/11 12:28
Blank	1H11010-BLK1	016F1601.D	08/19/11 15:16
Blank	1H11010-BLK1	016R1601.D	08/19/11 15:16
LCS	1H11010-BS1	017F1701.D	08/19/11 15:34
LCS	1H11010-BS1	017R1701.D	08/19/11 15:34
55GW01-0008-08092011	1H11010-MS1	018R1801.D	08/19/11 15:53
55GW01-0008-08092011	1H11010-MS1	018F1801.D	08/19/11 15:53
55GW01-0008-08092011	1H11010-MSD1	019R1901.D	08/19/11 16:11
55GW01-0008-08092011	1H11010-MSD1	019F1901.D	08/19/11 16:11
55GW01-0008-08092011	1108137-01	020F2001.D	08/19/11 16:30
55GW01-0008-08092011	1108137-01	020R2001.D	08/19/11 16:30
55GW01-0008-08092011D	1108137-02	021R2101.D	08/19/11 16:49
55GW01-0008-08092011D	1108137-02	021F2101.D	08/19/11 16:49
55GW08-0008-08092011	1108137-03	022R2201.D	08/19/11 17:07
55GW08-0008-08092011	1108137-03	022F2201.D	08/19/11 17:07
Calibration Check	1H24023-CCV6	029F2901.D	08/19/11 19:18
Calibration Check	1H24023-CCV6	029R2901.D	08/19/11 19:18
Calibration Check	1H24023-CCV9	032F3201.D	08/19/11 20:14
Calibration Check	1H24023-CCV9	032R3201.D	08/19/11 20:14
Calibration Check	1H24023-CCVA	033R3301.D	08/19/11 20:32
Calibration Check	1H24023-CCVA	033F3301.D	08/19/11 20:32

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	008F0801.D	Calibration Date:	08/18/11 00:00
Sequence:	1G18809	Injection Date:	07/06/11
Lab Sample ID:	1G18809-ICV1	Injection Time:	15:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254 (1)	A	1000	847.5	2292.719	1943.092		-15.2	20
Aroclor-1254 (2)	A	1000	806.2	693.5489	559.125		-19.4	20
Aroclor-1254 (3)	A	1000	816.0	2066.051	1685.847		-18.4	20
Aroclor-1254 (4)	A	1000	870.5	1446.243	1258.97		-12.9	20
Aroclor-1254 (5)	A	1000	767.8	1997.279	1533.6		-23.2	20 *
Aroclor-1254 (1) [2C]	L	1000	956.5	1952.343	1656.136		-4.4	20
Aroclor-1254 (2) [2C]	L	1000	939.4	1830.507	1472.581		-6.1	20
Aroclor-1254 (3) [2C]	L	1000	932.5	1494.541	1201.666		-6.8	20
Aroclor-1254 (4) [2C]	L	1000	944.0	1378.73	1194.329		-5.6	20
Aroclor-1254 (5) [2C]	L	1000	948.5	1812.816	1594.369		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	003F0301.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV1	Injection Time:	11:13

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	92.62	34968.44	32386.51		-7.4	20
Tetrachloro-m-xylene [2C]	Q	100.0	91.32	26183.29	19387.19		-8.7	20
Decachlorobiphenyl	A	100.0	84.28	41093.6	34632.8		-15.7	20
Decachlorobiphenyl [2C]	Q	100.0	88.12	23977.95	16660.38		-11.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	006F0601.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV4	Injection Time:	12:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1304	1313.194	1712.939		30.4	20 *
Aroclor-1016 (2)	A	1000	1097	484.2716	531.199		9.7	20
Aroclor-1016 (3)	A	1000	1015	727.4158	738.596		1.5	20
Aroclor-1016 (4)	A	1000	1100	729.6346	802.912		10.0	20
Aroclor-1016 (5)	A	1000	1327	570.2921	756.65		32.7	20 *
Aroclor-1016 (1) [2C]	A	1000	683.5	1604.03	1096.309		-31.7	20 *
Aroclor-1016 (2) [2C]	A	1000	673.2	959.9071	646.266		-32.7	20 *
Aroclor-1016 (3) [2C]	A	1000	666.6	923.9359	615.948		-33.3	20 *
Aroclor-1016 (4) [2C]	A	1000	677.0	828.7439	561.061		-32.3	20 *
Aroclor-1016 (5) [2C]	A	1000	716.1	801.2113	573.724		-28.4	20 *
Aroclor-1260 (1)	A	1000	1061	4311.523	4572.993		6.1	20
Aroclor-1260 (2)	A	1000	1167	1902.286	2220.496		16.7	20
Aroclor-1260 (3)	A	1000	1112	2253.205	2505.171		11.2	20
Aroclor-1260 (4)	A	1000	981.9	1832.006	1798.921		-1.8	20
Aroclor-1260 (5)	A	1000	1096	1041.689	1142.206		9.6	20
Aroclor-1260 (1) [2C]	A	1000	663.5	3714.819	2464.872		-33.6	20 *
Aroclor-1260 (2) [2C]	A	1000	655.0	1817.694	1190.679		-34.5	20 *
Aroclor-1260 (3) [2C]	A	1000	648.0	2256.668	1462.297		-35.2	20 *
Aroclor-1260 (4) [2C]	A	1000	714.6	2106.889	1505.634		-28.5	20 *
Aroclor-1260 (5) [2C]	A	1000	675.7	1822.153	1231.217		-32.4	20 *

16.9

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	007F0701.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV5	Injection Time:	12:28

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1070	2292.719	2452.262		7.0	20
Aroclor-1254 (2)	A	1000	1013	693.5489	702.711		1.3	20
Aroclor-1254 (3)	A	1000	1084	2066.051	2239.316		8.4	20
Aroclor-1254 (4)	A	1000	1299	1446.243	1879.051		29.9	20 *
Aroclor-1254 (5)	A	1000	1044	1997.279	2085.117		4.4	20
Aroclor-1254 (1) [2C]	L	1000	930.3	1952.343	1612.808		-7.0	20
Aroclor-1254 (2) [2C]	L	1000	982.2	1830.507	1535.286		-1.8	20
Aroclor-1254 (3) [2C]	L	1000	926.6	1494.541	1194.509		-7.3	20
Aroclor-1254 (4) [2C]	L	1000	1013	1378.73	1278.93		1.3	20
Aroclor-1254 (5) [2C]	L	1000	810.3	1812.816	1361.813		-19.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	029F2901.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV6	Injection Time:	19:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	103.1	34968.44	36063.05		3.1	20
Tetrachloro-m-xylene [2C]	Q	100.0	129.1	26183.29	25823.41		29.1	20 *
Decachlorobiphenyl	A	100.0	88.36	41093.6	36308.63		-11.6	20
Decachlorobiphenyl [2C]	Q	100.0	133.1	23977.95	22510.62		33.1	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	032F3201.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV9	Injection Time:	20:14

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1384	1313.194	1817.813		38.4	20 *
Aroclor-1016 (2)	A	1000	1192	484.2716	577.265		19.2	20
Aroclor-1016 (3)	A	1000	1084	727.4158	788.458		8.4	20
Aroclor-1016 (4)	A	1000	1159	729.6346	845.743		15.9	20
Aroclor-1016 (5)	A	1000	1419	570.2921	809.452		41.9	20 *
Aroclor-1016 (1) [2C]	A	1000	771.4	1604.03	1237.445		-22.9	20 *
Aroclor-1016 (2) [2C]	A	1000	745.4	959.9071	715.544		-25.5	20 *
Aroclor-1016 (3) [2C]	A	1000	756.5	923.9359	698.932		-24.4	20 *
Aroclor-1016 (4) [2C]	A	1000	796.6	828.7439	660.184		-20.3	20 *
Aroclor-1016 (5) [2C]	A	1000	848.8	801.2113	680.111		-15.1	20
Aroclor-1260 (1)	A	1000	1103	4311.523	4754.625		10.3	20
Aroclor-1260 (2)	A	1000	1231	1902.286	2341.574		23.1	20 *
Aroclor-1260 (3)	A	1000	1181	2253.205	2662.052		18.1	20
Aroclor-1260 (4)	A	1000	1037	1832.006	1899.648		3.7	20
Aroclor-1260 (5)	A	1000	1087	1041.689	1132.282		8.7	20
Aroclor-1260 (1) [2C]	A	1000	773.8	3714.819	2874.734		-22.6	20 *
Aroclor-1260 (2) [2C]	A	1000	774.6	1817.694	1408.064		-22.5	20 *
Aroclor-1260 (3) [2C]	A	1000	766.3	2256.668	1729.308		-23.4	20 *
Aroclor-1260 (4) [2C]	A	1000	845.7	2106.889	1781.857		-15.4	20
Aroclor-1260 (5) [2C]	A	1000	792.8	1822.153	1444.583		-20.7	20 *

24.8

21.6

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	033F3301.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCVA	Injection Time:	20:32

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1138	2292.719	2609.183		13.8	20
Aroclor-1254 (2)	A	1000	1085	693.5489	752.781		8.5	20
Aroclor-1254 (3)	A	1000	1158	2066.051	2392.857		15.8	20
Aroclor-1254 (4)	A	1000	1432	1446.243	2071.234		43.2	20 *
Aroclor-1254 (5)	A	1000	1093	1997.279	2183.09		9.3	20
Aroclor-1254 (1) [2C]	L	1000	1098	1952.343	1889.626		9.8	20
Aroclor-1254 (2) [2C]	L	1000	1160	1830.507	1796.363		16.0	20
Aroclor-1254 (3) [2C]	L	1000	1108	1494.541	1413.241		10.8	20
Aroclor-1254 (4) [2C]	L	1000	1197	1378.73	1505.635		19.7	20
Aroclor-1254 (5) [2C]	L	1000	954.6	1812.816	1604.658		-4.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H11010 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW01-0008-08092011	1108137-01	08/11/11 17:12	1,070.00	10.00
55GW01-0008-08092011D	1108137-02	08/11/11 17:12	1,080.00	10.00
55GW08-0008-08092011	1108137-03	08/11/11 17:12	900.00	10.00
Blank	1H11010-BLK1	08/11/11 17:12	1,000.00	10.00
LCS	1H11010-BS1	08/11/11 17:12	1,000.00	10.00
55GW01-0008-08092011	1H11010-MS1	08/11/11 17:12	1,080.00	10.00
55GW01-0008-08092011	1H11010-MSD1	08/11/11 17:12	1,080.00	10.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108137	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H11010-BLK1	File ID:	016R1601.D
Sampled:		Prepared:	08/11/11 17:12	Analyzed:	08/19/11 15:16
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1H11010 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U
37324-23-5	Aroclor-1262		0.120	0.250	0.500	U
11100-14-4	Aroclor-1268		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3242	64.8	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.3816	76.3	25 - 140	
Decachlorobiphenyl	0.5000	0.1509	30.2	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.1667	33.3	40 - 135	*

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23613	Instrument:	ME-ICP
Calibration:	1237001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23613-CAL1	082311A-001	08/23/11 12:35
Cal Standard	1H23613-CAL2	082311A-002	08/23/11 12:39
Cal Standard	1H23613-CAL3	082311A-003	08/23/11 12:44
Cal Standard	1H23613-CAL4	082311A-004	08/23/11 12:48
Cal Standard	1H23613-CAL5	082311A-005	08/23/11 12:52
Cal Standard	1H23613-CAL6	082311A-006	08/23/11 12:57
Cal Standard	1H23613-CAL7	082311A-007	08/23/11 13:02
Cal Standard	1H23613-CAL8	082311A-008	08/23/11 13:07
Initial Cal Check	1H23613-ICV1	082311B-001	08/23/11 13:37
Initial Cal Blank	1H23613-ICB1	082311B-002	08/23/11 13:46
Instrument RL Check	1H23613-CRL1	082311B-003	08/23/11 13:51
Instrument RL Check	1H23613-CRL2	082311B-004	08/23/11 13:56
Interference Check A	1H23613-IFA1	082311B-005	08/23/11 14:01
Interference Check B	1H23613-IFB1	082311B-006	08/23/11 14:06
Calibration Check	1H23613-CCV1	082311B-008	08/23/11 14:17
Calibration Blank	1H23613-CCB1	082311B-009	08/23/11 14:24
Blank	1H22924-BLK1	082311C-001	08/23/11 14:31
LCS	1H22924-BS1	082311C-002	08/23/11 14:36
55GW01-0008-08092011	1108137-01	082311C-003	08/23/11 14:43
55GW01-0008-08092011	1H22924-MS1	082311C-004	08/23/11 14:47
55GW01-0008-08092011	1H22924-MSD1	082311C-005	08/23/11 14:52
55GW01-0008-08092011	1H22924-PS1	082311C-006	08/23/11 14:57
55GW01-0008-08092011	1H22924-DUP1	082311C-007	08/23/11 15:02
55GW01-0008-08092011D	1108137-02	082311C-008	08/23/11 15:07
55GW08-0008-08092011	1108137-03	082311C-009	08/23/11 15:12
Calibration Check	1H23613-CCV2	082311C-017	08/23/11 15:51
Calibration Blank	1H23613-CCB2	082311C-018	08/23/11 15:58

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-ICV1	Aluminum	10000	10080	101	ug/L	+/- 10.00%
	Antimony	1000	1027	103	ug/L	+/- 10.00%
	Arsenic	1000	1073	107	ug/L	+/- 10.00%
	Barium	1000	1002	100	ug/L	+/- 10.00%
	Beryllium	1000	1068	107	ug/L	+/- 10.00%
	Cadmium	1000	1060	106	ug/L	+/- 10.00%
	Calcium	50000	54070	108	ug/L	+/- 10.00%
	Chromium	1000	999.0	99.9	ug/L	+/- 10.00%
	Cobalt	1000	1005	101	ug/L	+/- 10.00%
	Copper	1000	1088	109	ug/L	+/- 10.00%
	Iron	10000	10790	108	ug/L	+/- 10.00%
	Lead	1000	982.9	98.3	ug/L	+/- 10.00%
	Magnesium	50000	52710	105	ug/L	+/- 10.00%
	Manganese	1000	1071	107	ug/L	+/- 10.00%
	Nickel	1000	982.3	98.2	ug/L	+/- 10.00%
	Potassium	10000	9217	92.2	ug/L	+/- 10.00%
	Selenium	1000	1001	100	ug/L	+/- 10.00%
	Silver	500.0	495.4	99.1	ug/L	+/- 10.00%
	Sodium	50000	53320	107	ug/L	+/- 10.00%
	Thallium	1000	991.2	99.1	ug/L	+/- 10.00%
	Vanadium	1000	1040	104	ug/L	+/- 10.00%
	Zinc	1000	1010	101	ug/L	+/- 10.00%
1H23613-CCV1	Aluminum	10000	9977	99.8	ug/L	+/- 10.00%
	Antimony	1000	992.8	99.3	ug/L	+/- 10.00%
	Arsenic	1000	1094	109	ug/L	+/- 10.00%
	Barium	1000	947.8	94.8	ug/L	+/- 10.00%
	Beryllium	1000	1075	108	ug/L	+/- 10.00%
	Cadmium	1000	977.9	97.8	ug/L	+/- 10.00%
	Calcium	50000	53350	107	ug/L	+/- 10.00%
	Chromium	1000	1013	101	ug/L	+/- 10.00%
	Cobalt	1000	967.5	96.8	ug/L	+/- 10.00%
	Copper	1000	1059	106	ug/L	+/- 10.00%
	Iron	10000	10890	109	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%
	Magnesium	50000	51350	103	ug/L	+/- 10.00%
	Manganese	1000	1026	103	ug/L	+/- 10.00%
	Nickel	1000	926.5	92.6	ug/L	+/- 10.00%
	Potassium	10000	9875	98.7	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-CCV1	Selenium	1000	962.7	96.3	ug/L	+/- 10.00%
	Silver	500.0	477.8	95.6	ug/L	+/- 10.00%
	Sodium	50000	52160	104	ug/L	+/- 10.00%
	Thallium	1000	997.8	99.8	ug/L	+/- 10.00%
	Vanadium	1000	1005	101	ug/L	+/- 10.00%
	Zinc	1000	956.4	95.6	ug/L	+/- 10.00%
1H23613-CCV2	Aluminum	10000	9956	99.6	ug/L	+/- 10.00%
	Antimony	1000	1003	100	ug/L	+/- 10.00%
	Arsenic	**1000**	**1106**	**111**	**ug/L**	+/- 10.00%
	Barium	1000	946.9	94.7	ug/L	+/- 10.00%
	Beryllium	1000	1052	105	ug/L	+/- 10.00%
	Cadmium	1000	964.6	96.5	ug/L	+/- 10.00%
	Calcium	50000	50570	101	ug/L	+/- 10.00%
	Chromium	1000	997.1	99.7	ug/L	+/- 10.00%
	Cobalt	1000	961.0	96.1	ug/L	+/- 10.00%
	Copper	1000	1006	101	ug/L	+/- 10.00%
	Iron	10000	10840	108	ug/L	+/- 10.00%
	Lead	1000	931.5	93.1	ug/L	+/- 10.00%
	Magnesium	50000	49310	98.6	ug/L	+/- 10.00%
	Manganese	1000	973.9	97.4	ug/L	+/- 10.00%
	Nickel	1000	922.2	92.2	ug/L	+/- 10.00%
	Potassium	10000	9780	97.8	ug/L	+/- 10.00%
	Selenium	1000	965.4	96.5	ug/L	+/- 10.00%
	Silver	500.0	476.4	95.3	ug/L	+/- 10.00%
	Sodium	50000	48610	97.2	ug/L	+/- 10.00%
	Thallium	1000	988.1	98.8	ug/L	+/- 10.00%
	Vanadium	1000	979.3	97.9	ug/L	+/- 10.00%
	Zinc	1000	958.5	95.8	ug/L	+/- 10.00%

ANALYSIS SEQUENCE SUMMARY
SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23804-CAL1	082411A-001	08/24/11 12:09
Cal Standard	1H23804-CAL2	082411A-002	08/24/11 12:13
Cal Standard	1H23804-CAL3	082411A-003	08/24/11 12:17
Cal Standard	1H23804-CAL4	082411A-004	08/24/11 12:21
Cal Standard	1H23804-CAL5	082411A-005	08/24/11 12:26
Cal Standard	1H23804-CAL6	082411A-006	08/24/11 12:31
Cal Standard	1H23804-CAL7	082411A-007	08/24/11 12:36
Cal Standard	1H23804-CAL8	082411A-008	08/24/11 12:41
Initial Cal Check	1H23804-ICV1	082411B-001	08/24/11 13:09
Initial Cal Blank	1H23804-ICB1	082411B-002	08/24/11 13:17
Instrument RL Check	1H23804-CRL1	082411B-003	08/24/11 13:24
Instrument RL Check	1H23804-CRL2	082411B-004	08/24/11 13:28
Interference Check A	1H23804-IFA1	082411B-005	08/24/11 13:34
Interference Check B	1H23804-IFB1	082411B-006	08/24/11 13:39
Calibration Check	1H23804-CCV1	082411B-008	08/24/11 13:50
Calibration Blank	1H23804-CCB1	082411B-009	08/24/11 13:57
55GW01-0008-08092011	1108137-01RE1	082411B-010	08/24/11 14:02
55GW01-0008-08092011	1H22924-DUP2	082411B-011	08/24/11 14:07
55GW08-0008-08092011	1108137-03RE1	082411B-012	08/24/11 14:11
Calibration Check	1H23804-CCV2	082411B-019	08/24/11 14:50
Calibration Blank	1H23804-CCB2	082411B-020	08/24/11 14:57

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-ICV1	Aluminum	10000	9894	98.9	ug/L	+/- 10.00%
	Antimony	1000	1016	102	ug/L	+/- 10.00%
	Arsenic	1000	1058	106	ug/L	+/- 10.00%
	Barium	1000	983.2	98.3	ug/L	+/- 10.00%
	Beryllium	1000	1038	104	ug/L	+/- 10.00%
	Cadmium	1000	1083	108	ug/L	+/- 10.00%
	Calcium	50000	53030	106	ug/L	+/- 10.00%
	Chromium	1000	976.8	97.7	ug/L	+/- 10.00%
	Cobalt	1000	989.3	98.9	ug/L	+/- 10.00%
	Copper	1000	1023	102	ug/L	+/- 10.00%
	Iron	10000	10540	105	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	50140	100	ug/L	+/- 10.00%
	Manganese	1000	1018	102	ug/L	+/- 10.00%
	Nickel	1000	999.6	100	ug/L	+/- 10.00%
	Potassium	10000	9193	91.9	ug/L	+/- 10.00%
	Selenium	1000	994.3	99.4	ug/L	+/- 10.00%
	Silver	500.0	488.7	97.7	ug/L	+/- 10.00%
	Sodium	50000	51790	104	ug/L	+/- 10.00%
	Thallium	1000	976.0	97.6	ug/L	+/- 10.00%
	Vanadium	1000	1016	102	ug/L	+/- 10.00%
	Zinc	1000	1009	101	ug/L	+/- 10.00%
1H23804-CCV1	Aluminum	10000	9809	98.1	ug/L	+/- 10.00%
	Antimony	1000	1001	100	ug/L	+/- 10.00%
	Arsenic	1000	1037	104	ug/L	+/- 10.00%
	Barium	1000	961.7	96.2	ug/L	+/- 10.00%
	Beryllium	1000	1048	105	ug/L	+/- 10.00%
	Cadmium	1000	1055	105	ug/L	+/- 10.00%
	Calcium	50000	52820	106	ug/L	+/- 10.00%
	Chromium	1000	999.8	100	ug/L	+/- 10.00%
	Cobalt	1000	975.3	97.5	ug/L	+/- 10.00%
	Copper	1000	1015	102	ug/L	+/- 10.00%
	Iron	10000	10470	105	ug/L	+/- 10.00%
	Lead	1000	963.7	96.4	ug/L	+/- 10.00%
	Magnesium	50000	49750	99.5	ug/L	+/- 10.00%
	Manganese	1000	1010	101	ug/L	+/- 10.00%
	Nickel	1000	992.8	99.3	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV1	Selenium	1000	1002	100	ug/L	+/- 10.00%
	Silver	500.0	479.8	96.0	ug/L	+/- 10.00%
	Sodium	50000	51800	104	ug/L	+/- 10.00%
	Thallium	1000	988.3	98.8	ug/L	+/- 10.00%
	Vanadium	1000	1008	101	ug/L	+/- 10.00%
	Zinc	1000	999.8	100	ug/L	+/- 10.00%
1H23804-CCV2	Aluminum	10000	9796	98.0	ug/L	+/- 10.00%
	Antimony	1000	1009	101	ug/L	+/- 10.00%
	Arsenic	1000	1043	104	ug/L	+/- 10.00%
	Barium	1000	966.8	96.7	ug/L	+/- 10.00%
	Beryllium	1000	1049	105	ug/L	+/- 10.00%
	Cadmium	1000	1054	105	ug/L	+/- 10.00%
	Calcium	50000	52610	105	ug/L	+/- 10.00%
	Chromium	1000	995.3	99.5	ug/L	+/- 10.00%
	Cobalt	1000	979.8	98.0	ug/L	+/- 10.00%
	Copper	1000	1024	102	ug/L	+/- 10.00%
	Iron	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	963.4	96.3	ug/L	+/- 10.00%
	Magnesium	50000	49480	99.0	ug/L	+/- 10.00%
	Manganese	1000	1012	101	ug/L	+/- 10.00%
	Nickel	1000	997.6	99.8	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Selenium	1000	1009	101	ug/L	+/- 10.00%
	Silver	500.0	479.2	95.8	ug/L	+/- 10.00%
	Sodium	50000	51660	103	ug/L	+/- 10.00%
	Thallium	1000	991.6	99.2	ug/L	+/- 10.00%
	Vanadium	1000	1009	101	ug/L	+/- 10.00%
	Zinc	1000	996.2	99.6	ug/L	+/- 10.00%

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23613-CRL1	Aluminum	100.0	102.0	102	ug/L	80 - 120
	Antimony	8.000	6.461	80.8	ug/L	80 - 120
	Barium	10.00	9.656	96.6	ug/L	80 - 120
	Beryllium	2.000	2.050	103	ug/L	80 - 120
	Cadmium	2.000	1.884	94.2	ug/L	80 - 120
	Calcium	2000	2023	101	ug/L	80 - 120
	Chromium	4.000	4.081	102	ug/L	80 - 120
	Cobalt	10.00	9.202	92.0	ug/L	80 - 120
	Copper	8.000	7.386	92.3	ug/L	80 - 120
	Iron	60.00	65.87	110	ug/L	80 - 120
	Lead	3.000	3.040	101	ug/L	80 - 120
	Magnesium	3000	3008	100	ug/L	80 - 120
	Manganese	6.000	6.009	100	ug/L	80 - 120
	Nickel	6.000	5.773	96.2	ug/L	80 - 120
	Potassium	3000	2821	94.0	ug/L	80 - 120
	Silver	2.000	1.784	89.2	ug/L	80 - 120
	Sodium	3000	2831	94.4	ug/L	80 - 120
	Thallium	4.000	4.207	105	ug/L	80 - 120
	Vanadium	10.00	9.610	96.1	ug/L	80 - 120
	Zinc	10.00	9.452	94.5	ug/L	80 - 120
1H23613-CRL2	Arsenic	5.000	5.122	102	ug/L	80 - 120
	Selenium	5.000	4.187	83.7	ug/L	80 - 120

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23804-CRL1	Aluminum	100.0	105.7	106	ug/L	80 - 120
	Antimony	8.000	7.732	96.6	ug/L	80 - 120
	Barium	10.00	9.805	98.0	ug/L	80 - 120
	Beryllium	2.000	2.049	102	ug/L	80 - 120
	Cadmium	2.000	2.024	101	ug/L	80 - 120
	Calcium	2000	2103	105	ug/L	80 - 120
	Chromium	4.000	4.157	104	ug/L	80 - 120
	Cobalt	10.00	9.454	94.5	ug/L	80 - 120
	Copper	8.000	7.719	96.5	ug/L	80 - 120
	Iron	60.00	66.69	111	ug/L	80 - 120
	Lead	3.000	3.000	100	ug/L	80 - 120
	Magnesium	3000	3034	101	ug/L	80 - 120
	Manganese	6.000	6.102	102	ug/L	80 - 120
	Nickel	6.000	6.154	103	ug/L	80 - 120
	Potassium	3000	2908	97.0	ug/L	80 - 120
	Silver	2.000	2.276	114	ug/L	80 - 120
	Sodium	3000	2961	98.7	ug/L	80 - 120
	Thallium	4.000	4.196	105	ug/L	80 - 120
	Vanadium	10.00	10.01	100	ug/L	80 - 120
	Zinc	10.00	9.672	96.7	ug/L	80 - 120
1H23804-CRL2	Arsenic	5.000	5.271	105	ug/L	80 - 120
	Selenium	5.000	4.558	91.2	ug/L	80 - 120

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H22924 Batch Matrix: Water Preparation: MET_3005A_LOW

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW01-0008-08092011	1108137-01	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011	1108137-01RE1	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011D	1108137-02	08/22/11 09:40	100.00	25.00
55GW08-0008-08092011	1108137-03	08/22/11 09:40	100.00	25.00
55GW08-0008-08092011	1108137-03RE1	08/22/11 09:40	100.00	25.00
Blank	1H22924-BLK1	08/22/11 09:40	100.00	25.00
LCS	1H22924-BS1	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011	1H22924-DUP1	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011	1H22924-DUP2	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011	1H22924-MS1	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011	1H22924-MSD1	08/22/11 09:40	100.00	25.00
55GW01-0008-08092011	1H22924-PS1	08/22/11 09:40	100.00	25.00

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108137
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-ICB1	Aluminum	0.9721	50.0	200	ug/L	U	SW6010C
	Antimony	-0.6028	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.5096	3.00	10.0	ug/L	U	SW6010C
	Barium	-0.04689	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.03308	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.01702	1.00	5.00	ug/L	U	SW6010C
	Calcium	0.8800	1000	5000	ug/L	U	SW6010C
	Chromium	0.04606	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.07458	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.2035	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.9043	30.0	100	ug/L	U	SW6010C
	Lead	0.1953	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.1000	1000	5000	ug/L	U	SW6010C
	Manganese	0.00003000	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.2118	3.00	10.0	ug/L	U	SW6010C
	Potassium	4.750	1000	5000	ug/L	U	SW6010C
	Selenium	-1.024	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.1533	1.00	10.0	ug/L	U	SW6010C
	Sodium	14.59	1000	5000	ug/L	U	SW6010C
	Thallium	0.7609	3.00	8.00	ug/L	U	SW6010C
	Vanadium	-0.09009	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.03595	5.00	20.0	ug/L	U	SW6010C
1H23613-CCB1	Aluminum	-1.64	50.0	200	ug/L	U	SW6010C
	Antimony	-0.824	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.791	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0746	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.0102	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0709	1.00	5.00	ug/L	U	SW6010C
	Calcium	1.97	1000	5000	ug/L	U	SW6010C
	Chromium	-0.00287	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.113	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.620	4.00	10.0	ug/L	U	SW6010C
	Iron	0.563	30.0	100	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108137
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-CCB1	Lead	0.212	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.440	1000	5000	ug/L	U	SW6010C
	Manganese	0.0481	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.461	3.00	10.0	ug/L	U	SW6010C
	Potassium	7.57	1000	5000	ug/L	U	SW6010C
	Selenium	-0.455	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.207	1.00	10.0	ug/L	U	SW6010C
	Sodium	21.6	1000	5000	ug/L	U	SW6010C
	Thallium	0.824	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0876	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0844	5.00	20.0	ug/L	U	SW6010C
1H22924-BLK1	Aluminum	5.61	12.5	50.0	ug/L	U	SW6010C
	Antimony	-0.254	1.25	2.50	ug/L	U	SW6010C
	Arsenic	0.0766	0.750	2.50	ug/L	U	SW6010C
	Barium	-0.00477	1.25	10.0	ug/L	U	SW6010C
	Beryllium	0.0495	0.250	1.25	ug/L	U	SW6010C
	Cadmium	0.0127	0.250	1.25	ug/L	U	SW6010C
	Calcium	3.48	250	1250	ug/L	U	SW6010C
	Chromium	0.0163	0.500	2.50	ug/L	U	SW6010C
	Cobalt	-0.0308	1.25	3.12	ug/L	U	SW6010C
	Copper	-0.0609	1.00	2.50	ug/L	U	SW6010C
	Iron	-0.0566	7.50	25.0	ug/L	U	SW6010C
	Lead	0.233	0.375	0.750	ug/L	U	SW6010C
	Magnesium	5.14	250	1250	ug/L	U	SW6010C
	Manganese	0.0462	0.750	3.75	ug/L	U	SW6010C
	Nickel	0.0496	0.750	2.50	ug/L	U	SW6010C
	Potassium	3.96	250	1250	ug/L	U	SW6010C
	Selenium	-0.227	0.750	2.50	ug/L	U	SW6010C
	Silver	-0.00716	0.250	2.50	ug/L	U	SW6010C
	Sodium	8.79	250	1250	ug/L	U	SW6010C
	Thallium	0.106	0.750	2.00	ug/L	U	SW6010C
	Vanadium	0.0259	1.25	3.12	ug/L	U	SW6010C
	Zinc	0.0543	1.25	5.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108137
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-CCB2	Aluminum	1.34	50.0	200	ug/L	U	SW6010C
	Antimony	0.0434	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.0497	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0731	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0361	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.107	1.00	5.00	ug/L	U	SW6010C
	Calcium	15.6	1000	5000	ug/L	U	SW6010C
	Chromium	0.160	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.0216	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0268	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.810	30.0	100	ug/L	U	SW6010C
	Lead	0.782	1.50	3.00	ug/L	U	SW6010C
	Magnesium	5.47	1000	5000	ug/L	U	SW6010C
	Manganese	0.169	3.00	15.0	ug/L	U	SW6010C
	Nickel	-0.0148	3.00	10.0	ug/L	U	SW6010C
	Potassium	36.8	1000	5000	ug/L	U	SW6010C
	Selenium	0.454	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.0664	1.00	10.0	ug/L	U	SW6010C
	Sodium	139	1000	5000	ug/L	U	SW6010C
	Thallium	0.497	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0647	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.181	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108137
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-ICB1	Aluminum	-7.866	50.0	200	ug/L	U	SW6010C
	Antimony	-0.09504	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.4286	3.00	10.0	ug/L	U	SW6010C
	Barium	-0.03302	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.008240	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.03450	1.00	5.00	ug/L	U	SW6010C
	Calcium	0.3900	1000	5000	ug/L	U	SW6010C
	Chromium	-0.1132	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.07684	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.1861	4.00	10.0	ug/L	U	SW6010C
	Iron	-1.693	30.0	100	ug/L	U	SW6010C
	Lead	-0.07939	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-1.750	1000	5000	ug/L	U	SW6010C
	Manganese	-0.02176	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.2884	3.00	10.0	ug/L	U	SW6010C
	Potassium	-6.710	1000	5000	ug/L	U	SW6010C
	Selenium	-0.5113	3.00	10.0	ug/L	U	SW6010C
	Silver	0.06805	1.00	10.0	ug/L	U	SW6010C
	Sodium	20.27	1000	5000	ug/L	U	SW6010C
	Thallium	0.1406	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.006830	5.00	12.5	ug/L	U	SW6010C
	Zinc	-0.02686	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB1	Aluminum	-5.43	50.0	200	ug/L	U	SW6010C
	Antimony	-0.768	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.0216	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0701	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0147	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0876	1.00	5.00	ug/L	U	SW6010C
	Calcium	2.13	1000	5000	ug/L	U	SW6010C
	Chromium	0.0433	2.00	10.0	ug/L	U	SW6010C
	Cobalt	0.00451	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0719	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.134	30.0	100	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Sequence: 1H23804

SDG: 1108137
Project: NAS Jacksonville CTOJM19
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB1	Lead	0.218	1.50	3.00	ug/L	U	SW6010C
	Magnesium	1.66	1000	5000	ug/L	U	SW6010C
	Manganese	0.0645	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.458	3.00	10.0	ug/L	U	SW6010C
	Potassium	-10.3	1000	5000	ug/L	U	SW6010C
	Selenium	0.294	3.00	10.0	ug/L	U	SW6010C
	Silver	0.203	1.00	10.0	ug/L	U	SW6010C
	Sodium	17.2	1000	5000	ug/L	U	SW6010C
	Thallium	0.448	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0978	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB2	Aluminum	0.609	50.0	200	ug/L	U	SW6010C
	Antimony	0.121	5.00	10.0	ug/L	U	SW6010C
	Arsenic	-0.777	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0681	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.00481	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0490	1.00	5.00	ug/L	U	SW6010C
	Calcium	-0.0600	1000	5000	ug/L	U	SW6010C
	Chromium	0.223	2.00	10.0	ug/L	U	SW6010C
	Cobalt	0.0394	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.205	4.00	10.0	ug/L	U	SW6010C
	Iron	-1.08	30.0	100	ug/L	U	SW6010C
	Lead	-0.223	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-5.38	1000	5000	ug/L	U	SW6010C
	Manganese	0.0244	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.288	3.00	10.0	ug/L	U	SW6010C
	Potassium	19.0	1000	5000	ug/L	U	SW6010C
	Selenium	0.555	3.00	10.0	ug/L	U	SW6010C
	Silver	0.127	1.00	10.0	ug/L	U	SW6010C
	Sodium	64.5	1000	5000	ug/L	U	SW6010C
	Thallium	0.778	3.00	8.00	ug/L	U	SW6010C
	Vanadium	-0.0609	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** 1108137

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Jacksonville CTOJM19

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Aluminum	12.5	50.0	ug/L	SW6010C
Antimony	1.25	2.50	ug/L	SW6010C
Arsenic	0.750	2.50	ug/L	SW6010C
Barium	1.25	10.0	ug/L	SW6010C
Beryllium	0.250	1.25	ug/L	SW6010C
Cadmium	0.250	1.25	ug/L	SW6010C
Calcium	250	1250	ug/L	SW6010C
Chromium	0.500	2.50	ug/L	SW6010C
Cobalt	1.25	3.12	ug/L	SW6010C
Copper	1.00	2.50	ug/L	SW6010C
Iron	7.50	25.0	ug/L	SW6010C
Lead	0.375	0.750	ug/L	SW6010C
Magnesium	250	1250	ug/L	SW6010C
Manganese	0.750	3.75	ug/L	SW6010C
Nickel	0.750	2.50	ug/L	SW6010C
Potassium	250	1250	ug/L	SW6010C
Selenium	0.750	2.50	ug/L	SW6010C
Silver	0.250	2.50	ug/L	SW6010C
Sodium	250	1250	ug/L	SW6010C
Thallium	0.750	2.00	ug/L	SW6010C
Vanadium	1.25	3.12	ug/L	SW6010C
Zinc	1.25	5.00	ug/L	SW6010C

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108137

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.1	0.0000000	0.0000000	-0.0000600	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Arsenic	189.0	0.0000120	0.0000000	0.0000020	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000050	0.0021850	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000040	0.0056080	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002930	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Nickel	231.6	0.0000000	0.0000000	-0.0000040	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000020	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0013660	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108137

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0045780	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108137

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0060190	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	-0.0126310	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	-0.0025320	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002500
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0009430
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000650
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0040870	0.0002110	0.0000000	0.0000000	0.0014070
Vanadium	292.4	0.0000000	-0.0023860	0.0000000	0.0000000	-0.0003500
Zinc	206.2	0.0000000	-0.0003020	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108137

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Aluminum	396.1	0.0317300	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	-0.0012790	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	-0.0000250	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000880	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	-0.0012520	0.0000000	0.0001940	0.0000000	0.0000000
Copper	224.7	0.0018210	0.0000000	-0.0088250	0.0030200	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	-0.0000220	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000830	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	-0.0000590	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	-0.0001060	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0001730	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108137

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0004790	0.0000000	-0.0017000
Arsenic	189.0	0.0000000	0.0000000	0.0000750	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017020
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0001050
Cadmium	228.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000560
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Cobalt	228.6	0.0000000	0.0000000	0.0021640	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000220	0.0000000	0.0000540
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0064060
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0012830	0.0000000	0.0004040
Vanadium	292.4	0.0000000	0.0000000	0.0006540	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108137

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Aluminum	396.1	0.0000000				
Antimony	206.8	0.0000000				
Arsenic	189.0	0.0000000				
Barium	233.5	0.0000000				
Beryllium	313.0	0.0000000				
Cadmium	228.8	0.0000000				
Calcium	317.9	0.0000000				
Chromium	267.7	0.0000000				
Cobalt	228.6	0.0000000				
Copper	224.7	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Nickel	231.6	0.0000000				
Potassium	766.4	0.0000000				
Selenium	196.0	0.0000000				
Silver	328.0	0.0000000				
Sodium	330.2	0.0000000				
Thallium	190.8	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010) SDG: 1108137

Project: NAS Jacksonville CTOJM19

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Aluminum	15	500000	P
Antimony	15	10000	P
Arsenic	15	10000	P
Barium	15	5000	P
Beryllium	15	10000	P
Cadmium	15	10000	P
Calcium	15	500000	P
Chromium	15	10000	P
Cobalt	15	10000	P
Copper	15	10000	P
Iron	15	500000	P
Lead	15	10000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Nickel	15	10000	P
Potassium	15	100000	P
Selenium	15	10000	P
Silver	15	2000	P
Sodium	15	500000	P
Thallium	15	10000	P
Vanadium	15	10000	P
Zinc	15	10000	P

ANALYSIS SEQUENCE SUMMARY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108137
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23402	Instrument:	ME-FIMS
Calibration:	1234002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23402-CAL1	COPY081711W-002	08/17/11 13:17
Cal Standard	1H23402-CAL2	COPY081711W-003	08/17/11 13:18
Cal Standard	1H23402-CAL3	COPY081711W-004	08/17/11 13:19
Cal Standard	1H23402-CAL4	COPY081711W-005	08/17/11 13:20
Cal Standard	1H23402-CAL5	COPY081711W-006	08/17/11 13:21
Cal Standard	1H23402-CAL6	COPY081711W-007	08/17/11 13:23
Cal Standard	1H23402-CAL7	COPY081711W-008	08/17/11 13:24
Cal Standard	1H23402-CAL8	COPY081711W-009	08/17/11 13:25
Initial Cal Check	1H23402-ICV1	COPY081711W-010	08/17/11 13:31
Initial Cal Blank	1H23402-ICB1	COPY081711W-011	08/17/11 13:32
Instrument RL Check	1H23402-CRL1	COPY081711W-012	08/17/11 13:33
Calibration Check	1H23402-CCV1	COPY081711W-022	08/17/11 13:45
Calibration Blank	1H23402-CCB1	COPY081711W-023	08/17/11 13:46
Calibration Check	1H23402-CCV2	COPY081711W-034	08/17/11 14:00
Calibration Blank	1H23402-CCB2	COPY081711W-035	08/17/11 14:01
LCS	1H16009-BS1	COPY081711W-036	08/17/11 14:02
Blank	1H16009-BLK1	COPY081711W-037	08/17/11 14:03
Calibration Check	1H23402-CCV3	COPY081711W-046	08/17/11 14:14
Calibration Blank	1H23402-CCB3	COPY081711W-047	08/17/11 14:15
55GW01-0008-08092011	1108137-01	COPY081711W-048	08/17/11 14:17
55GW01-0008-08092011	1H16009-MS1	COPY081711W-049	08/17/11 14:18
55GW01-0008-08092011	1H16009-MSD1	COPY081711W-050	08/17/11 14:19
55GW01-0008-08092011D	1108137-02	COPY081711W-051	08/17/11 14:20
55GW08-0008-08092011	1108137-03	COPY081711W-052	08/17/11 14:21
Instrument RL Check	1H23402-CRL2	COPY081711W-057	08/17/11 14:27
Calibration Check	1H23402-CCV4	COPY081711W-058	08/17/11 14:28
Calibration Blank	1H23402-CCB4	COPY081711W-059	08/17/11 14:30

INITIAL AND CONTINUING CALIBRATION CHECK

SW7470A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Instrument ID: ME-FIMS

SDG: 1108137

Project: NAS Jacksonville CTOJM19

Calibration: 1234002

Sequence: 1H23402

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23402-ICV1	Mercury	4.000	4.177	104	ug/L	+/- 15.00%
1H23402-CCV1	Mercury	4.000	4.218	105	ug/L	+/- 15.00%
1H23402-CCV2	Mercury	4.000	4.069	102	ug/L	+/- 15.00%
1H23402-CCV3	Mercury	2.000	2.008	100	ug/L	+/- 15.00%
1H23402-CCV4	Mercury	2.000	2.036	102	ug/L	+/- 15.00%

CRDL STANDARD

SW7470A

Laboratory: Empirical Laboratories, LLC

SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-FIMS

Calibration: 1234002

Sequence: 1H23402

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23402-CRL1	Mercury	0.2000	0.2270	113	ug/L	70 - 130
1H23402-CRL2	Mercury	0.2000	0.2167	108	ug/L	70 - 130

PREPARATION BATCH SUMMARY

SW7470A

Laboratory: Empirical Laboratories, LLC SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H16009 Batch Matrix: Water Preparation: pMercury-W SW 7470A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW01-0008-08092011	1108137-01	08/17/11 07:44	30.00	30.00
55GW01-0008-08092011D	1108137-02	08/17/11 07:44	30.00	30.00
55GW08-0008-08092011	1108137-03	08/17/11 07:44	30.00	30.00
Blank	1H16009-BLK1	08/17/11 07:44	30.00	30.00
LCS	1H16009-BS1	08/17/11 07:44	30.00	30.00
55GW01-0008-08092011	1H16009-MS1	08/17/11 07:44	30.00	30.00
55GW01-0008-08092011	1H16009-MSD1	08/17/11 07:44	30.00	30.00

BLANKS
SW7470A

Laboratory: Empirical Laboratories, LLC
SDG: 1108137
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: NAS Jacksonville CTOJM19
Sequence: 1H23402
Calibration: 1234002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23402-ICB1	Mercury	0.03360	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB1	Mercury	0.0369	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB2	Mercury	0.0348	0.0800	0.200	ug/L	U	SW7470A
1H16009-BLK1	Mercury	0.0305	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB3	Mercury	0.0352	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB4	Mercury	0.0374	0.0800	0.200	ug/L	U	SW7470A

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: 1108137

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Water

Instrument: ME-FIMS

Analyte	MDL	MRL	Units	Method
Mercury	0.0800	0.200	ug/L	SW7470A

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **A. PATE** **DATE:** **DECEMBER 2, 2011**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC AND INORGANIC DATA VALIDATION: PCB/METALS**
NAS JACKSONVILLE, CTOJM19
SAMPLE DELIVERY GROUP (SDG) – 1108145

SAMPLES: 4/Aqueous/PCB/Metals

55GW02-0012-08102011 55GW05-0008-08102011 55GW06-0008-08102011
55GW10-0008-08102011

OVERVIEW

The sample set for NAS Jacksonville, CTO JM19, SDG 1108145 consists of four (4) aqueous environmental samples analyzed for polychlorinated biphenyls (PCBs) and metals including mercury. There are no field duplicate pairs contained within this SDG.

The samples were collected by TetraTech NUS on August 10, 2011 and analyzed by Empirical Laboratories, LLC. Analyses were conducted using SW-846 8082A for PCBs, 7470A for mercury and 6010C for metals analytical and reporting protocols. The data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • GC/MS Tuning
  • Initial and Continuing Calibration Verification Results
* • Blank Results
  • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Results
* • Laboratory Control Sample /Laboratory Control Sample Duplicate Results
* • Internal Standards
* • ICP Interference Check Sample Results
* • Detection Limits
* • Compound Identification
* • Analyte Quantitation

* - 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.

PCBs

The continuing calibration percent difference (%D) for Aroclor 1016 was greater than the 20% quality control limit on both columns on August 19, 2011 @ 20:14. The nondetected Aroclor 1016 results were qualified as estimated (UJ) in the affected samples.

All samples within this SDG had percent recoveries (%Rs) of surrogate DCB outside quality control limits on both columns. The nondetected Aroclor results were qualified as estimated (UJ) in the affected samples.

METALS

The continuing calibration verification %D for arsenic exceeded quality control limits on August 23, 2011 @ 15:51 affecting all samples. The positive arsenic results were qualified as estimated (J).

ADDITIONAL COMMENTS

The continuing calibration verification %Ds for Aroclor 1016 and Aroclor 1260 were greater than 20% on column 2 on August 19, 2011 @ 12:09. No action was taken on the nondetected results.

Positive results reported below the limit of quantitation (LOQ) but above the method detection limit (MDL) were qualified as estimated, (J).

The nondetected results were reported to the method detection limit (MDL).

EXECUTIVE SUMMARY

Laboratory Performance Issues: Surrogate recoveries were outside quality control limits in all samples in the PCB fraction. The continuing calibration %D for Aroclor 1016 and arsenic exceeded quality control limits.

Other factors affecting data quality: Positive results reported below the LOQ but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), EPA National Functional Guidelines for Inorganic Review (October 2004) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
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 = ICP PDS Recovery Noncompliance; 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 = RPD between columns/detectors >40% 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
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02686	NSAMPLE	55GW02-0012-08102011			55GW05-0008-08102011			55GW06-0008-08102011			55GW10-0008-08102011		
SDG: 1108145	LAB_ID	1108145-03			1108145-04			1108145-02			1108145-01		
FRACTION: PCB	SAMP_DATE	8/10/2011			8/10/2011			8/10/2011			8/10/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		0.113	UJ	CR	0.111	UJ	CR	0.111	UJ	CR	0.111	UJ	CR
AROCLOR-1221		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1232		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1242		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1248		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1254		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1260		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1262		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R
AROCLOR-1268		0.113	UJ	R	0.111	UJ	R	0.111	UJ	R	0.111	UJ	R

PROJ_NO: 02686	NSAMPLE	55GW02-0012-08102011			55GW05-0008-08102011			55GW06-0008-08102011			55GW10-0008-08102011		
SDG: 1108145	LAB_ID	1108145-03			1108145-04			1108145-02			1108145-01		
FRACTION: M	SAMP_DATE	8/10/2011			8/10/2011			8/10/2011			8/10/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		613			195			2790			322		
ANTIMONY		2.5	U		2.5	U		2.5	U		2.5	U	
ARSENIC		3.01	J	CP	49.5	J	C	40.4	J	C	40.4	J	C
BARIUM		35.5			42.1			56.6			47.1		
BERYLLIUM		0.5	U		0.5	U		0.5	U		0.5	U	
CADMIUM		2.5	U		0.5	U		0.5	U		0.5	U	
CALCIUM		167000			215000			229000			227000		
CHROMIUM		5	U		1	U		4.98	J	P	1	U	
COBALT		2.5	U		2.5	U		2.5	U		2.5	U	
COPPER		2.47	J	P	2	U		2	U		2	U	
IRON		986			8190			15000			28600		
LEAD		3.75	U		1.5	U		2.44			0.75	U	
MAGNESIUM		428000			41500			42500			38000		
MANGANESE		25.1			1340			1220			1200		
MERCURY		0.08	U		0.08	U		0.08	U		0.08	U	
NICKEL		1.5	U		1.5	U		1.76	J	P	1.5	U	
POTASSIUM		145000			8900			8280			7770		
SELENIUM		1.5	U		1.5	U		1.5	U		1.5	U	
SILVER		0.5	U		0.5	U		0.5	U		0.5	U	
SODIUM		3650000			105000			119000			24300		
THALLIUM		1.5	U		1.5	U		1.5	U		1.5	U	
VANADIUM		4.63	J	P	2.5	U		8.32			2.5	U	
ZINC		12.5	U		2.5	U		7.68	J	P	2.5	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ANALYSIS DATA SHEET

55GW02-0012-08102011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108145	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108145-03	File ID:	027F2701.D
Sampled:	08/10/11 10:25	Prepared:	08/16/11 12:41	Analyzed:	08/19/11 18:40
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16007 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.113	0.236	0.472	UX
11104-28-2	Aroclor-1221		0.113	0.236	0.472	U
11141-16-5	Aroclor-1232		0.113	0.236	0.472	U
53469-21-9	Aroclor-1242		0.113	0.236	0.472	U
12672-29-6	Aroclor-1248		0.113	0.236	0.472	U
11097-69-1	Aroclor-1254		0.113	0.236	0.472	U
11096-82-5	Aroclor-1260		0.113	0.236	0.472	U
37324-23-5	Aroclor-1262		0.113	0.236	0.472	U
11100-14-4	Aroclor-1268		0.113	0.236	0.472	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4717	0.1216	25.8	25 - 140	
Tetrachloro-m-xylene [2C]	0.4717	0.1406	29.8	25 - 140	X
Decachlorobiphenyl	0.4717	0.06708	14.2	40 - 135	*
Decachlorobiphenyl [2C]	0.4717	0.06747	14.3	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW05-0008-08102011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108145-04	File ID:	028F2801.D
Sampled:	08/10/11 11:30	Prepared:	08/16/11 12:41	Analyzed:	08/19/11 18:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16007 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.111	0.231	0.463	UX
11104-28-2	Aroclor-1221		0.111	0.231	0.463	U
11141-16-5	Aroclor-1232		0.111	0.231	0.463	U
53469-21-9	Aroclor-1242		0.111	0.231	0.463	U
12672-29-6	Aroclor-1248		0.111	0.231	0.463	U
11097-69-1	Aroclor-1254		0.111	0.231	0.463	U
11096-82-5	Aroclor-1260		0.111	0.231	0.463	U
37324-23-5	Aroclor-1262		0.111	0.231	0.463	U
11100-14-4	Aroclor-1268		0.111	0.231	0.463	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4630	0.1836	39.7	25 - 140	
Tetrachloro-m-xylene [2C]	0.4630	0.2104	45.4	25 - 140	X
Decachlorobiphenyl	0.4630	0.06911	14.9	40 - 135	*
Decachlorobiphenyl [2C]	0.4630	0.07320	15.8	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW06-0008-08102011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108145	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108145-02	File ID:	026F2601.D
Sampled:	08/10/11 10:15	Prepared:	08/16/11 12:41	Analyzed:	08/19/11 18:22
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16007 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.111	0.231	0.463	UX
11104-28-2	Aroclor-1221		0.111	0.231	0.463	U
11141-16-5	Aroclor-1232		0.111	0.231	0.463	U
53469-21-9	Aroclor-1242		0.111	0.231	0.463	U
12672-29-6	Aroclor-1248		0.111	0.231	0.463	U
11097-69-1	Aroclor-1254		0.111	0.231	0.463	U
11096-82-5	Aroclor-1260		0.111	0.231	0.463	U
37324-23-5	Aroclor-1262		0.111	0.231	0.463	U
11100-14-4	Aroclor-1268		0.111	0.231	0.463	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4630	0.1556	33.6	25 - 140	
Tetrachloro-m-xylene [2C]	0.4630	0.1820	39.3	25 - 140	X
Decachlorobiphenyl	0.4630	0.08319	18.0	40 - 135	*
Decachlorobiphenyl [2C]	0.4630	0.08853	19.1	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW10-0008-08102011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108145	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108145-01	File ID:	025F2501.D
Sampled:	08/10/11 08:30	Prepared:	08/16/11 12:41	Analyzed:	08/19/11 18:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16007 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.111	0.231	0.463	UX
11104-28-2	Aroclor-1221		0.111	0.231	0.463	U
11141-16-5	Aroclor-1232		0.111	0.231	0.463	U
53469-21-9	Aroclor-1242		0.111	0.231	0.463	U
12672-29-6	Aroclor-1248		0.111	0.231	0.463	U
11097-69-1	Aroclor-1254		0.111	0.231	0.463	U
11096-82-5	Aroclor-1260		0.111	0.231	0.463	U
37324-23-5	Aroclor-1262		0.111	0.231	0.463	U
11100-14-4	Aroclor-1268		0.111	0.231	0.463	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4630	0.1384	29.9	25 - 140	
Tetrachloro-m-xylene [2C]	0.4630	0.1607	34.7	25 - 140	X
Decachlorobiphenyl	0.4630	0.08543	18.5	40 - 135	*
Decachlorobiphenyl [2C]	0.4630	0.09034	19.5	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW02-0012-08102011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/10/11 10:25
% Solids: 0.00

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108145-03
Received: 08/11/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:25
7429-90-5	Aluminum	613	25.0	50.0	100	2	D	SW6010C	1H22924	08/23/11 15:26
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-38-2	Arsenic	3.01	1.50	3.00	5.00	2	X D I	SW6010C	1H22924	08/23/11 15:26
7440-39-3	Barium	35.5	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:26
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:26
7440-43-9	Cadmium		2.50	5.00	12.5	10	U	SW6010C	1H22924	08/24/11 14:16
7440-70-2	Calcium	167000	500	1000	2500	2	D	SW6010C	1H22924	08/23/11 15:26
7440-47-3	Chromium		5.00	10.0	25.0	10	U	SW6010C	1H22924	08/24/11 14:16
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:26
7440-50-8	Copper	2.47	2.00	4.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:26
7439-89-6	Iron	986	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/23/11 15:26
7439-92-1	Lead		3.75	7.50	7.50	10	U	SW6010C	1H22924	08/24/11 14:16
7439-95-4	Magnesium	428000	2500	7500	12500	10	D	SW6010C	1H22924	08/24/11 14:16
7439-96-5	Manganese	25.1	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/23/11 15:26
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-09-7	Potassium	145000	2500	7500	12500	10	D	SW6010C	1H22924	08/24/11 14:16
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-23-5	Sodium	3650000	12500	37500	62500	50	D	SW6010C	1H22924	08/24/11 14:43
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-62-2	Vanadium	4.63	2.50	5.00	6.25	2	D I	SW6010C	1H22924	08/23/11 15:26
7440-66-6	Zinc		12.5	25.0	50.0	10	U	SW6010C	1H22924	08/24/11 14:16

ANALYSIS DATA SHEET

55GW05-0008-08102011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/10/11 11:30
% Solids: 0.00

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108145-04
Received: 08/11/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:26
7429-90-5	Aluminum	195	25.0	50.0	100	2	D	SW6010C	1H22924	08/23/11 15:31
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:31
7440-38-2	Arsenic	49.5	1.50	3.00	5.00	2	X D	SW6010C	1H22924	08/23/11 15:31
7440-39-3	Barium	42.1	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:31
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:31
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:31
7440-70-2	Calcium	215000	500	1000	2500	2	D	SW6010C	1H22924	08/23/11 15:31
7440-47-3	Chromium		1.00	2.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:31
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:31
7440-50-8	Copper		2.00	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:31
7439-89-6	Iron	8190	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/23/11 15:31
7439-92-1	Lead		1.50	1.50	1.50	2	M U	SW6010C	1H22924	08/23/11 15:31
7439-95-4	Magnesium	41500	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:31
7439-96-5	Manganese	1340	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/23/11 15:31
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:31
7440-09-7	Potassium	8900	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:31
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/23/11 15:31
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:31
7440-23-5	Sodium	105000	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:31
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/23/11 15:31
7440-62-2	Vanadium		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:31
7440-66-6	Zinc		2.50	5.00	10.0	2	U	SW6010C	1H22924	08/23/11 15:31

ANALYSIS DATA SHEET

55GW06-0008-08102011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/10/11 10:15
% Solids: 0.00

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108145-02
Received: 08/11/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:24
7429-90-5	Aluminum	2790	25.0	50.0	100	2	D	SW6010C	1H22924	08/23/11 15:21
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:21
7440-38-2	Arsenic	42.0	1.50	3.00	5.00	2	X D	SW6010C	1H22924	08/23/11 15:21
7440-39-3	Barium	56.6	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:21
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:21
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:21
7440-70-2	Calcium	229000	500	1000	2500	2	D	SW6010C	1H22924	08/23/11 15:21
7440-47-3	Chromium	4.98	1.00	2.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:21
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:21
7440-50-8	Copper		2.00	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:21
7439-89-6	Iron	15000	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/23/11 15:21
7439-92-1	Lead	2.44	0.750	1.50	1.50	2	D	SW6010C	1H22924	08/23/11 15:21
7439-95-4	Magnesium	42500	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:21
7439-96-5	Manganese	1220	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/23/11 15:21
7440-02-0	Nickel	1.76	1.50	3.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:21
7440-09-7	Potassium	8280	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:21
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/23/11 15:21
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:21
7440-23-5	Sodium	119000	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:21
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/23/11 15:21
7440-62-2	Vanadium	8.32	2.50	5.00	6.25	2	D	SW6010C	1H22924	08/23/11 15:21
7440-66-6	Zinc	7.68	2.50	5.00	10.0	2	D I	SW6010C	1H22924	08/23/11 15:21

ANALYSIS DATA SHEET

55GW10-0008-08102011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/10/11 08:30
% Solids: 0.00

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108145-01
Received: 08/11/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:22
7429-90-5	Aluminum	322	25.0	50.0	100	2	D	SW6010C	1H22924	08/23/11 15:17
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:17
7440-38-2	Arsenic	40.4	1.50	3.00	5.00	2	X D	SW6010C	1H22924	08/23/11 15:17
7440-39-3	Barium	47.1	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:17
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:17
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:17
7440-70-2	Calcium	227000	500	1000	2500	2	D	SW6010C	1H22924	08/23/11 15:17
7440-47-3	Chromium		1.00	2.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:17
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:17
7440-50-8	Copper		2.00	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:17
7439-89-6	Iron	28600	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/23/11 15:17
7439-92-1	Lead		0.750	1.50	1.50	2	U	SW6010C	1H22924	08/23/11 15:17
7439-95-4	Magnesium	38000	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:17
7439-96-5	Manganese	1200	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/23/11 15:17
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:17
7440-09-7	Potassium	7770	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:17
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/23/11 15:17
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:17
7440-23-5	Sodium	24300	500	1500	2500	2	D	SW6010C	1H22924	08/23/11 15:17
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/23/11 15:17
7440-62-2	Vanadium		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:17
7440-66-6	Zinc		2.50	5.00	10.0	2	U	SW6010C	1H22924	08/23/11 15:17

APPENDIX C

SUPPORT DOCUMENTATION

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6010C/SW7470A:
Sample 1108145-05 is qualified with an M for Lead to indicate that the DL was raised due to interference.

The continuing calibration verification 1H23613-CCV2 exceeded criteria with a positive bias for Arsenic.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogate Decachlorobiphenyl exceeded criteria with a negative bias on both columns in 1H16007-BS1, 1108145-01, -02, -03, and -04.

The continuing calibration verifications exceeded criteria in 1H24023-CCV4 with a negative bias on column 2 for Aroclor-1016 and -1260, in 1H24023-CCV6 with a positive bias on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl, and in 1H24023-CCV9 with a positive bias on column 1 for Arcolor-1016 and with a negative bias on column 2 for Aroclor-1016 and -1260.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

TETRA TECH NUS, INC. 1108145 CHAIN OF CUSTODY | NUMBER 2277 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02686	NAS JAX - SITE 55	ALAN PATE	904-636-6125	EMPIRICAL LABORATORIES, LLC / B. RICHARD
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		ZACH SCRIBNER	904-636-6125	621 MAINSTREAM DR., SUITE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8660 1730 1290		NASHVILLE, TN 37228

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G P
PRESERVATIVE USED: 1 HNO3

DATE YEAR 2011	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	PCB's (8082)	TOT METALS (6010)						COMMENTS
8/10	0830	55GW10-0008-08102011				GW	G	3	2	1		-01				-Cool to 4°C
	1015	55GW06-0008-08102011				GW	G	3	2	1		-02				
	1025	55GW02-0012-08102011				GW	G	3	2	1		-03				
	1130	55GW05-0008-08102011				GW	G	3	2	1		-04				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	08/10/2011	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	8/11/11	0900

COMMENTS

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

4/02R
FORM NO. TtNUS-001

10

1108145

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108145 Number of Coolers: 1 of 1

Client: TETRA TECH Project: NAS JAX

Date/Time Received: 8/11/11 0900 Date cooler(s) opened: 8/11/11

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 1290

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 2 Seal date: 8/10/11 Seal Initials: BW

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.0 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): BEN WRIGHT (Initial): BW
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

HOLDTIM

PROJ_NO 02686

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108137	HG	UG/L	55GW01-0008-08092011D	1108137-02	NM	08/09/2011	08/17/2011	08/17/2011	8	0	8
1108137	HG	UG/L	55GW01-0008-08092011	1108137-01	NM	08/09/2011	08/17/2011	08/17/2011	8	0	8
1108137	HG	UG/L	55GW08-0008-08092011	1108137-03	NM	08/09/2011	08/17/2011	08/17/2011	8	0	8
1108145	HG	UG/L	55GW06-0008-08102011	1108145-02	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108145	HG	UG/L	55GW02-0012-08102011	1108145-03	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108145	HG	UG/L	55GW05-0008-08102011	1108145-04	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108145	HG	UG/L	55GW10-0008-08102011	1108145-01	NM	08/10/2011	08/17/2011	08/17/2011	7	0	7
1108240	M	MG/KG	05B00301D-S2-08222011	1108240-16	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101C-S1-08222011	1108240-38	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101C-S2-08222011	1108240-39	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301B-S2-08222011	1108240-22	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101D-S0-08222011	1108240-27	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101D-S1-08222011	1108240-28	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S2-08222011D	1108240-36RE1	NM	08/22/2011	09/07/2011	09/13/2011	16	6	22
1108240	M	MG/KG	05S00101D-S2-08222011	1108240-29	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101A-S2-08222011	1108240-32	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	M	MG/KG	05S01001A-S0-08222011	1108240-04	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301A-S2-08222011	1108240-19	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301B-S1-08222011	1108240-21	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001A-S1-08222011	1108240-05	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101C-S0-08222011	1108240-37	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301B-S0-08222011	1108240-20	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301C-S1-08222011	1108240-24	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S2-08222011	1108240-35	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S1-08222011	1108240-34RE1	NM	08/22/2011	09/07/2011	09/13/2011	16	6	22
1108240	M	MG/KG	05B00301C-S1-08222011D	1108240-25	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301C-S2-08222011	1108240-26	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101B-S0-08222011	1108240-33	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301D-S0-08222011	1108240-14	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101A-S1-08222011	1108240-31	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301D-S1-08222011	1108240-15	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S00101A-S0-08222011	1108240-30	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301C-S0-08222011	1108240-23	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001D-S0-08222011	1108240-01	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001C-S1-08222011	1108240-12	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	M	MG/KG	05S01001B-S2-08222011	1108240-10	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001C-S2-08222011	1108240-13	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001B-S1-08222011	1108240-09	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001C-S0-08222011	1108240-11	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001B-S0-08222011D	1108240-08	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301A-S0-08222011	1108240-17	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001D-S1-08222011	1108240-02	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001B-S0-08222011	1108240-07	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05S01001A-S2-08222011	1108240-06RE1	NM	08/22/2011	09/07/2011	09/13/2011	16	6	22
1108240	M	MG/KG	05S01001D-S2-08222011	1108240-03	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108240	M	MG/KG	05B00301A-S1-08222011	1108240-18	NM	08/22/2011	09/07/2011	09/09/2011	16	2	18
1108137	M	UG/L	55GW08-0008-08092011	1108137-03	NM	08/09/2011	08/22/2011	08/23/2011	13	1	14
1108137	M	UG/L	55GW08-0008-08092011	1108137-03RE1	NM	08/09/2011	08/22/2011	08/24/2011	13	2	15
1108137	M	UG/L	55GW01-0008-08092011	1108137-01RE1	NM	08/09/2011	08/22/2011	08/24/2011	13	2	15
1108137	M	UG/L	55GW01-0008-08092011	1108137-01	NM	08/09/2011	08/22/2011	08/23/2011	13	1	14
1108137	M	UG/L	55GW01-0008-08092011D	1108137-02	NM	08/09/2011	08/22/2011	08/23/2011	13	1	14
1108145	M	UG/L	55GW02-0012-08102011	1108145-03RE3	NM	08/10/2011	08/22/2011	08/24/2011	12	2	14
1108145	M	UG/L	55GW02-0012-08102011	1108145-03	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108145	M	UG/L	55GW02-0012-08102011	1108145-03RE1	NM	08/10/2011	08/22/2011	08/24/2011	12	2	14

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108145	M	UG/L	55GW10-0008-08102011	1108145-01	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108145	M	UG/L	55GW06-0008-08102011	1108145-02	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108145	M	UG/L	55GW05-0008-08102011	1108145-04	NM	08/10/2011	08/22/2011	08/23/2011	12	1	13
1108240	PAH	MG/KG	05B00301D-S1-08222011	1108240-15	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301D-S1-08222011	1108240-15	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S1-08222011	1108240-18	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S0-08222011	1108240-17	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301D-S0-08222011	1108240-14	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S2-08222011	1108240-19	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301D-S0-08222011	1108240-14	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S0-08222011	1108240-17	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S0-08222011	1108240-20	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S2-08222011	1108240-26	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S2-08222011	1108240-26	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S0-08222011	1108240-23	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S1-08222011D	1108240-25	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S1-08222011D	1108240-25	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S1-08222011	1108240-21	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S1-08222011	1108240-21	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05B00301C-S1-08222011	1108240-24	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S1-08222011	1108240-24	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S2-08222011	1108240-22	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S2-08222011	1108240-19	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S2-08222011	1108240-22	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301A-S1-08222011	1108240-18	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301C-S0-08222011	1108240-23	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05B00301B-S0-08222011	1108240-20	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001B-S2-08222011	1108240-10	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001A-S0-08222011	1108240-04	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05B00301D-S2-08222011	1108240-16	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001A-S1-08222011	1108240-05	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S00101A-S1-08222011	1108240-31	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S01001A-S2-08222011	1108240-06	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001A-S2-08222011	1108240-06	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011	1108240-07	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011	1108240-07	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011D	1108240-08	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S0-08222011D	1108240-08	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05S01001B-S1-08222011	1108240-09	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S2-08222011	1108240-29	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S01001B-S2-08222011	1108240-10	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001A-S0-08222011	1108240-04	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001C-S0-08222011	1108240-11	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S0-08222011	1108240-11	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S1-08222011	1108240-12	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S1-08222011	1108240-12	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S2-08222011	1108240-13	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001C-S2-08222011	1108240-13	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S01001D-S0-08222011	1108240-01	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S0-08222011	1108240-01	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S1-08222011	1108240-02	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S1-08222011	1108240-02	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001D-S2-08222011	1108240-03	NM	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S01001B-S1-08222011	1108240-09	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101B-S2-08222011	1108240-35	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05B00301D-S2-08222011	1108240-16	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101A-S0-08222011	1108240-30	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05S00101A-S0-08222011	1108240-30	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101A-S1-08222011	1108240-31	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101A-S2-08222011	1108240-32	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S01001D-S2-08222011	1108240-03	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S00101A-S2-08222011	1108240-32	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S0-08222011	1108240-33	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S0-08222011	1108240-33	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S1-08222011	1108240-34	NM	08/22/2011	09/02/2011	09/05/2011	11	3	14
1108240	PAH	MG/KG	05S01001A-S1-08222011	1108240-05	SUR	08/22/2011	08/29/2011	09/01/2011	7	3	10
1108240	PAH	MG/KG	05S00101B-S2-08222011	1108240-35	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101D-S2-08222011	1108240-29	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S1-08222011	1108240-38	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101D-S1-08222011	1108240-28	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S1-08222011	1108240-28	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S0-08222011	1108240-27	SUR	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101D-S0-08222011	1108240-27	NM	08/22/2011	09/01/2011	09/04/2011	10	3	13
1108240	PAH	MG/KG	05S00101C-S2-08222011	1108240-39	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S1-08222011	1108240-34	SUR	08/22/2011	09/02/2011	09/05/2011	11	3	14
1108240	PAH	MG/KG	05S00101C-S2-08222011	1108240-39	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108240	PAH	MG/KG	05S00101B-S2-08222011D	1108240-36	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S1-08222011	1108240-38	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S0-08222011	1108240-37	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101C-S0-08222011	1108240-37	NM	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108240	PAH	MG/KG	05S00101B-S2-08222011D	1108240-36	SUR	08/22/2011	09/02/2011	09/04/2011	11	2	13
1108137	PCB	UG/L	55GW01-0008-08092011D	1108137-02	NM	08/09/2011	08/11/2011	08/19/2011	2	8	10
1108137	PCB	UG/L	55GW01-0008-08092011	1108137-01	NM	08/09/2011	08/11/2011	08/19/2011	2	8	10
1108137	PCB	UG/L	55GW08-0008-08092011	1108137-03	NM	08/09/2011	08/11/2011	08/19/2011	2	8	10
1108145	PCB	UG/L	55GW10-0008-08102011	1108145-01	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9
1108145	PCB	UG/L	55GW02-0012-08102011	1108145-03	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9
1108145	PCB	UG/L	55GW06-0008-08102011	1108145-02	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9
1108145	PCB	UG/L	55GW05-0008-08102011	1108145-04	NM	08/10/2011	08/16/2011	08/19/2011	6	3	9

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55GW10-0008-08102011	08/10/11 08:30	08/11/11 09:00	08/16/11 12:41	6.22	7.00	08/19/11 18:03	3.22	40.00	
55GW06-0008-08102011	08/10/11 10:15	08/11/11 09:00	08/16/11 12:41	6.14	7.00	08/19/11 18:22	3.24	40.00	
55GW02-0012-08102011	08/10/11 10:25	08/11/11 09:00	08/16/11 12:41	6.14	7.00	08/19/11 18:40	3.25	40.00	
55GW05-0008-08102011	08/10/11 11:30	08/11/11 09:00	08/16/11 12:41	6.09	7.00	08/19/11 18:59	3.26	40.00	

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F16727-CAL2	004R0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL2	004F0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL3	005R0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL3	005F0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL5	007R0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL5	007F0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL6	008R0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL6	008F0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL1	011R1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL1	011F1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL4	012R1201.D	06/15/11 15:30
Cal Standard	1F16727-CAL4	012F1201.D	06/15/11 15:30
Initial Cal Check	1F16727-ICV1	013R1301.D	06/15/11 16:39
Initial Cal Check	1F16727-ICV1	013F1301.D	06/15/11 16:39

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004F0401.D	06/15/11 11:44
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004R0401.D	06/15/11 11:44
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005F0501.D	06/15/11 12:02
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005R0501.D	06/15/11 12:02
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007F0701.D	06/15/11 12:39
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007R0701.D	06/15/11 12:39
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008F0801.D	06/15/11 12:58
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008R0801.D	06/15/11 12:58
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011R1101.D	06/15/11 15:11
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011F1101.D	06/15/11 15:11
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012F1201.D	06/15/11 15:30
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012R1201.D	06/15/11 15:30

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1G18809-CAL1	002R0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL1	002F0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL2	003R0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL2	003F0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL3	004R0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL3	004F0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL4	005R0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL4	005F0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL5	006R0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL5	006F0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL6	007R0701.D	07/06/11 15:04
Cal Standard	1G18809-CAL6	007F0701.D	07/06/11 15:04
Initial Cal Check	1G18809-ICV1	008R0801.D	07/06/11 15:22
Initial Cal Check	1G18809-ICV1	008F0801.D	07/06/11 15:22

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002F0201.D	07/06/11 13:30
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002R0201.D	07/06/11 13:30
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003F0301.D	07/06/11 13:49
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003R0301.D	07/06/11 13:49
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004F0401.D	07/06/11 14:08
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004R0401.D	07/06/11 14:08
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005F0501.D	07/06/11 14:26
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005R0501.D	07/06/11 14:26
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006F0601.D	07/06/11 14:45
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006R0601.D	07/06/11 14:45
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007F0701.D	07/06/11 15:04
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007R0701.D	07/06/11 15:04

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Sequence: 1H24021

Instrument: GL-ECD3

Calibration: 1240001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24021-CAL1	002R0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL1	002F0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL2	003R0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL2	003F0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL3	004R0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL3	004F0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL4	005R0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL4	005F0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL5	006R0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL5	006F0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL6	007R0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL6	007F0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL7	008R0801.D	08/18/11 13:38
Cal Standard	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002F0201.D	08/18/11 11:46
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002R0201.D	08/18/11 11:46
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003F0301.D	08/18/11 12:05
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003R0301.D	08/18/11 12:05
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004R0401.D	08/18/11 12:24
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004F0401.D	08/18/11 12:24
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005F0501.D	08/18/11 12:42
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005R0501.D	08/18/11 12:42
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006F0601.D	08/18/11 13:01
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006R0601.D	08/18/11 13:01
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007F0701.D	08/18/11 13:20
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007R0701.D	08/18/11 13:20
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008R0801.D	08/18/11 13:38
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1240001

Matrix: Water

SDG: 1108145

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	764.9617	3.701185	6.842333	6.993766E-02			20	
Aroclor-1016 (1)	1313.194	4.773023	6.562333	0.0600394			20	
Aroclor-1016 (2)	484.2716	4.936372	5.705667	6.027624E-02			20	
Aroclor-1016 (3)	727.4158	5.456124	6.0485	5.053442E-02			20	
Aroclor-1016 (4)	729.6346	4.647932	6.249	7.702264E-02			20	
Aroclor-1016 (5)	570.2921	8.613207	6.842333	6.993766E-02			20	
Aroclor-1016 [2C]	1023.566	12.66002	5.5265	0.2629682			20	
Aroclor-1016 (1) [2C]	1604.03	13.32639	5.290167	4.263819E-02			20	
Aroclor-1016 (2) [2C]	959.9071	12.85092	4.888	2.187117E-02			20	
Aroclor-1016 (3) [2C]	923.9359	12.79206	5.046833	2.947105E-02			20	
Aroclor-1016 (4) [2C]	828.7439	11.94865	5.432667	3.546654E-02			20	
Aroclor-1016 (5) [2C]	801.2113	12.26989	5.5265	0.2629682			20	
Aroclor-1221	347.4893	9.924338	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504849	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6893	17.28239	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47423	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30277	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481552	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172853	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648797	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397496	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1108145
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1240001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.747	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38972	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02			20	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.816	19.04286	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2268.142	3.933859	10.9125	5.356125E-02			20	
Aroclor-1260 (1)	4311.523	4.013749	9.821833	5.898152E-02			20	
Aroclor-1260 (2)	1902.286	5.065316	8.709667	7.050999E-02			20	
Aroclor-1260 (3)	2253.205	6.033797	9.053333	6.367493E-02			20	
Aroclor-1260 (4)	1832.006	4.516835	9.151333	6.728445E-02			20	
Aroclor-1260 (5)	1041.689	2.952778	10.9125	5.356125E-02			20	
Aroclor-1260 [2C]	2343.645	10.71217	8.009833	0.0306845			20	
Aroclor-1260 (1) [2C]	3714.819	9.330505	8.009833	0.0306845			20	
Aroclor-1260 (2) [2C]	1817.694	13.27222	6.769333	2.786608E-02			20	
Aroclor-1260 (3) [2C]	2256.668	11.29824	7.008	3.544481E-02			20	
Aroclor-1260 (4) [2C]	2106.889	11.69539	7.351834	3.499818E-02			20	
Aroclor-1260 (5) [2C]	1822.153	9.927531	7.692	3.530716E-02			20	
Tetrachloro-m-xylene	34968.44	7.672347	5.178857	5.515361E-02			20	
Tetrachloro-m-xylene [2C]	26183.29	24.10909	4.215857	0.0134251		0.9982558	0.995	
Decachlorobiphenyl	41093.6	16.74027	11.268	1.798916E-02			20	
Decachlorobiphenyl [2C]	23977.95	27.90083	9.430857	1.242397E-02		0.9991183	0.995	

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	013F1301.D	Calibration Date:	08/18/11 00:00
Sequence:	1F16727	Injection Date:	06/15/11
Lab Sample ID:	1F16727-ICV1	Injection Time:	16:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1093	1313.194	1435.669		9.3	20
Aroclor-1016 (2)	A	1000	946.9	484.2716	458.546		-5.3	20
Aroclor-1016 (3)	A	1000	964.1	727.4158	701.277		-3.6	20
Aroclor-1016 (4)	A	1000	960.9	729.6346	701.106		-3.9	20
Aroclor-1016 (5)	A	1000	987.1	570.2921	562.947		-1.3	20
Aroclor-1016 (1) [2C]	A	1000	940.9	1604.03	1509.212		-5.9	20
Aroclor-1016 (2) [2C]	A	1000	923.3	959.9071	886.326		-7.7	20
Aroclor-1016 (3) [2C]	A	1000	937.4	923.9359	866.112		-6.3	20
Aroclor-1016 (4) [2C]	A	1000	920.5	828.7439	762.829		-8.0	20
Aroclor-1016 (5) [2C]	A	1000	913.8	801.2113	732.147		-8.6	20
Aroclor-1260 (1)	A	1000	1001	4311.523	4315.435		0.09	20
Aroclor-1260 (2)	A	1000	1053	1902.286	2003.529		5.3	20
Aroclor-1260 (3)	A	1000	1191	2253.205	2683.726		19.1	20
Aroclor-1260 (4)	A	1000	959.2	1832.006	1757.239		-4.1	20
Aroclor-1260 (5)	A	1000	1008	1041.689	1050.036		0.8	20
Aroclor-1260 (1) [2C]	A	1000	953.2	3714.819	3540.866		-4.7	20
Aroclor-1260 (2) [2C]	A	1000	915.4	1817.694	1663.944		-8.5	20
Aroclor-1260 (3) [2C]	A	1000	929.0	2256.668	2096.335		-7.1	20
Aroclor-1260 (4) [2C]	A	1000	1048	2106.889	2208.576		4.8	20
Aroclor-1260 (5) [2C]	A	1000	941.9	1822.153	1716.221		-5.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	008F0801.D	Calibration Date:	08/18/11 00:00
Sequence:	1G18809	Injection Date:	07/06/11
Lab Sample ID:	1G18809-ICV1	Injection Time:	15:22

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254 (1)	A	1000	847.5	2292.719	1943.092		-15.2	20
Aroclor-1254 (2)	A	1000	806.2	693.5489	559.125		-19.4	20
Aroclor-1254 (3)	A	1000	816.0	2066.051	1685.847		-18.4	20
Aroclor-1254 (4)	A	1000	870.5	1446.243	1258.97		-12.9	20
Aroclor-1254 (5)	A	1000	767.8	1997.279	1533.6		-23.2	20 *
Aroclor-1254 (1) [2C]	L	1000	956.5	1952.343	1656.136		-4.4	20
Aroclor-1254 (2) [2C]	L	1000	939.4	1830.507	1472.581		-6.1	20
Aroclor-1254 (3) [2C]	L	1000	932.5	1494.541	1201.666		-6.8	20
Aroclor-1254 (4) [2C]	L	1000	944.0	1378.73	1194.329		-5.6	20
Aroclor-1254 (5) [2C]	L	1000	948.5	1812.816	1594.369		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24023	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H24023-CCV1	003F0301.D	08/19/11 11:13
Calibration Check	1H24023-CCV1	003R0301.D	08/19/11 11:13
Calibration Check	1H24023-CCV4	006F0601.D	08/19/11 12:09
Calibration Check	1H24023-CCV4	006R0601.D	08/19/11 12:09
Calibration Check	1H24023-CCV5	007R0701.D	08/19/11 12:28
Calibration Check	1H24023-CCV5	007F0701.D	08/19/11 12:28
Blank	1H16007-BLK1	023F2301.D	08/19/11 17:26
Blank	1H16007-BLK1	023R2301.D	08/19/11 17:26
LCS	1H16007-BS1	024R2401.D	08/19/11 17:45
LCS	1H16007-BS1	024F2401.D	08/19/11 17:45
55GW10-0008-08102011	1108145-01	025R2501.D	08/19/11 18:03
55GW10-0008-08102011	1108145-01	025F2501.D	08/19/11 18:03
55GW06-0008-08102011	1108145-02	026R2601.D	08/19/11 18:22
55GW06-0008-08102011	1108145-02	026F2601.D	08/19/11 18:22
55GW02-0012-08102011	1108145-03	027F2701.D	08/19/11 18:40
55GW02-0012-08102011	1108145-03	027R2701.D	08/19/11 18:40
55GW05-0008-08102011	1108145-04	028R2801.D	08/19/11 18:59
55GW05-0008-08102011	1108145-04	028F2801.D	08/19/11 18:59
Calibration Check	1H24023-CCV6	029F2901.D	08/19/11 19:18
Calibration Check	1H24023-CCV6	029R2901.D	08/19/11 19:18
Calibration Check	1H24023-CCV9	032F3201.D	08/19/11 20:14
Calibration Check	1H24023-CCV9	032R3201.D	08/19/11 20:14
Calibration Check	1H24023-CCVA	033R3301.D	08/19/11 20:32
Calibration Check	1H24023-CCVA	033F3301.D	08/19/11 20:32

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	003F0301.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV1	Injection Time:	11:13

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	92.62	34968.44	32386.51		-7.4	20
Tetrachloro-m-xylene [2C]	Q	100.0	91.32	26183.29	19387.19		-8.7	20
Decachlorobiphenyl	A	100.0	84.28	41093.6	34632.8		-15.7	20
Decachlorobiphenyl [2C]	Q	100.0	88.12	23977.95	16660.38		-11.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	006F0601.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV4	Injection Time:	12:09

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1304	1313.194	1712.939		30.4	20 *
Aroclor-1016 (2)	A	1000	1097	484.2716	531.199		9.7	20
Aroclor-1016 (3)	A	1000	1015	727.4158	738.596		1.5	20
Aroclor-1016 (4)	A	1000	1100	729.6346	802.912		10.0	20
Aroclor-1016 (5)	A	1000	1327	570.2921	756.65		32.7	20 *
Aroclor-1016 (1) [2C]	A	1000	683.5	1604.03	1096.309		-31.7	20 *
Aroclor-1016 (2) [2C]	A	1000	673.2	959.9071	646.266		-32.7	20 *
Aroclor-1016 (3) [2C]	A	1000	666.6	923.9359	615.948		-33.3	20 *
Aroclor-1016 (4) [2C]	A	1000	677.0	828.7439	561.061		-32.3	20 *
Aroclor-1016 (5) [2C]	A	1000	716.1	801.2113	573.724		-28.4	20 *
Aroclor-1260 (1)	A	1000	1061	4311.523	4572.993		6.1	20
Aroclor-1260 (2)	A	1000	1167	1902.286	2220.496		16.7	20
Aroclor-1260 (3)	A	1000	1112	2253.205	2505.171		11.2	20
Aroclor-1260 (4)	A	1000	981.9	1832.006	1798.921		-1.8	20
Aroclor-1260 (5)	A	1000	1096	1041.689	1142.206		9.6	20
Aroclor-1260 (1) [2C]	A	1000	663.5	3714.819	2464.872		-33.6	20 *
Aroclor-1260 (2) [2C]	A	1000	655.0	1817.694	1190.679		-34.5	20 *
Aroclor-1260 (3) [2C]	A	1000	648.0	2256.668	1462.297		-35.2	20 *
Aroclor-1260 (4) [2C]	A	1000	714.6	2106.889	1505.634		-28.5	20 *
Aroclor-1260 (5) [2C]	A	1000	675.7	1822.153	1231.217		-32.4	20 *

16.9

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	007F0701.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV5	Injection Time:	12:28

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1070	2292.719	2452.262		7.0	20
Aroclor-1254 (2)	A	1000	1013	693.5489	702.711		1.3	20
Aroclor-1254 (3)	A	1000	1084	2066.051	2239.316		8.4	20
Aroclor-1254 (4)	A	1000	1299	1446.243	1879.051		29.9	20 *
Aroclor-1254 (5)	A	1000	1044	1997.279	2085.117		4.4	20
Aroclor-1254 (1) [2C]	L	1000	930.3	1952.343	1612.808		-7.0	20
Aroclor-1254 (2) [2C]	L	1000	982.2	1830.507	1535.286		-1.8	20
Aroclor-1254 (3) [2C]	L	1000	926.6	1494.541	1194.509		-7.3	20
Aroclor-1254 (4) [2C]	L	1000	1013	1378.73	1278.93		1.3	20
Aroclor-1254 (5) [2C]	L	1000	810.3	1812.816	1361.813		-19.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	029F2901.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV6	Injection Time:	19:18

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	103.1	34968.44	36063.05		3.1	20
Tetrachloro-m-xylene [2C]	Q	100.0	129.1	26183.29	25823.41		29.1	20 *
Decachlorobiphenyl	A	100.0	88.36	41093.6	36308.63		-11.6	20
Decachlorobiphenyl [2C]	Q	100.0	133.1	23977.95	22510.62		33.1	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	032F3201.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCV9	Injection Time:	20:14

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016 (1)	A	1000	1384	1313.194	1817.813		38.4	20	*
Aroclor-1016 (2)	A	1000	1192	484.2716	577.265		19.2	20	
Aroclor-1016 (3)	A	1000	1084	727.4158	788.458		8.4	20	
Aroclor-1016 (4)	A	1000	1159	729.6346	845.743		15.9	20	
Aroclor-1016 (5)	A	1000	1419	570.2921	809.452		41.9	20	*
Aroclor-1016 (1) [2C]	A	1000	771.4	1604.03	1237.445		-22.9	20	*
Aroclor-1016 (2) [2C]	A	1000	745.4	959.9071	715.544		-25.5	20	*
Aroclor-1016 (3) [2C]	A	1000	756.5	923.9359	698.932		-24.4	20	*
Aroclor-1016 (4) [2C]	A	1000	796.6	828.7439	660.184		-20.3	20	*
Aroclor-1016 (5) [2C]	A	1000	848.8	801.2113	680.111		-15.1	20	
Aroclor-1260 (1)	A	1000	1103	4311.523	4754.625		10.3	20	
Aroclor-1260 (2)	A	1000	1231	1902.286	2341.574		23.1	20	*
Aroclor-1260 (3)	A	1000	1181	2253.205	2662.052		18.1	20	
Aroclor-1260 (4)	A	1000	1037	1832.006	1899.648		3.7	20	
Aroclor-1260 (5)	A	1000	1087	1041.689	1132.282		8.7	20	
Aroclor-1260 (1) [2C]	A	1000	773.8	3714.819	2874.734		-22.6	20	*
Aroclor-1260 (2) [2C]	A	1000	774.6	1817.694	1408.064		-22.5	20	*
Aroclor-1260 (3) [2C]	A	1000	766.3	2256.668	1729.308		-23.4	20	*
Aroclor-1260 (4) [2C]	A	1000	845.7	2106.889	1781.857		-15.4	20	
Aroclor-1260 (5) [2C]	A	1000	792.8	1822.153	1444.583		-20.7	20	*

24.8

21.6

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	033F3301.D	Calibration Date:	08/18/11 00:00
Sequence:	1H24023	Injection Date:	08/19/11
Lab Sample ID:	1H24023-CCVA	Injection Time:	20:32

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1138	2292.719	2609.183		13.8	20
Aroclor-1254 (2)	A	1000	1085	693.5489	752.781		8.5	20
Aroclor-1254 (3)	A	1000	1158	2066.051	2392.857		15.8	20
Aroclor-1254 (4)	A	1000	1432	1446.243	2071.234		43.2	20 *
Aroclor-1254 (5)	A	1000	1093	1997.279	2183.09		9.3	20
Aroclor-1254 (1) [2C]	L	1000	1098	1952.343	1889.626		9.8	20
Aroclor-1254 (2) [2C]	L	1000	1160	1830.507	1796.363		16.0	20
Aroclor-1254 (3) [2C]	L	1000	1108	1494.541	1413.241		10.8	20
Aroclor-1254 (4) [2C]	L	1000	1197	1378.73	1505.635		19.7	20
Aroclor-1254 (5) [2C]	L	1000	954.6	1812.816	1604.658		-4.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Batch: 1H16007 Batch Matrix: Water

Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW10-0008-08102011	1108145-01	08/16/11 12:41	1,080.00	10.00
55GW06-0008-08102011	1108145-02	08/16/11 12:41	1,080.00	10.00
55GW02-0012-08102011	1108145-03	08/16/11 12:41	1,060.00	10.00
55GW05-0008-08102011	1108145-04	08/16/11 12:41	1,080.00	10.00
Blank	1H16007-BLK1	08/16/11 12:41	1,000.00	10.00
LCS	1H16007-BS1	08/16/11 12:41	1,000.00	10.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108145	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H16007-BLK1	File ID:	023R2301.D
Sampled:		Prepared:	08/16/11 12:41	Analyzed:	08/19/11 17:26
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1H16007 Sequence: 1H24023 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U
37324-23-5	Aroclor-1262		0.120	0.250	0.500	U
11100-14-4	Aroclor-1268		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3743	74.9	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.4577	91.5	25 - 140	
Decachlorobiphenyl	0.5000	0.2210	44.2	40 - 135	
Decachlorobiphenyl [2C]	0.5000	0.2598	52.0	40 - 135	

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24023	Instrument:	GL-ECD3
		Calibration:	1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24023-CCV1) ug/L				Lab File ID: 003F0301.D		Analyzed: 08/19/11 11:13		
Tetrachloro-m-xylene	100.0	92.6	80 - 120	5.137	5.137	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	91.3	80 - 120	4.187	4.187	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	84.3	80 - 120	11.213	11.213	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	88.1	80 - 120	9.383	9.383	0.0000	+/-0.030	
Blank (1H16007-BLK1) ug/L				Lab File ID: 023F2301.D		Analyzed: 08/19/11 17:26		
Tetrachloro-m-xylene	0.5000	74.9	25 - 140	5.139	5.137	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	91.5	25 - 140	4.187	4.187	0.0000	+/-0.030	
Decachlorobiphenyl	0.5000	44.2	40 - 135	11.217	11.213	0.0040	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	52.0	40 - 135	9.382	9.383	-0.0010	+/-0.030	
LCS (1H16007-BS1) ug/L				Lab File ID: 024F2401.D		Analyzed: 08/19/11 17:45		
Tetrachloro-m-xylene	0.5000	48.3	25 - 140	5.14	5.137	0.0030	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	58.8	25 - 140	4.187	4.187	0.0000	+/-0.030	
Decachlorobiphenyl	0.5000	27.1	40 - 135	11.215	11.213	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	29.8	40 - 135	9.384	9.383	0.0010	+/-0.030	*
55GW10-0008-08102011 (1108145-01) ug/L				Lab File ID: 025F2501.D		Analyzed: 08/19/11 18:03		
Tetrachloro-m-xylene	0.4630	29.9	25 - 140	5.14	5.137	0.0030	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4630	34.7	25 - 140	4.186	4.187	-0.0010	+/-0.030	
Decachlorobiphenyl	0.4630	18.5	40 - 135	11.217	11.213	0.0040	+/-0.030	*
Decachlorobiphenyl [2C]	0.4630	19.5	40 - 135	9.382	9.383	-0.0010	+/-0.030	*
55GW06-0008-08102011 (1108145-02) ug/L				Lab File ID: 026F2601.D		Analyzed: 08/19/11 18:22		
Tetrachloro-m-xylene	0.4630	33.6	25 - 140	5.138	5.137	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4630	39.3	25 - 140	4.187	4.187	0.0000	+/-0.030	
Decachlorobiphenyl	0.4630	18.0	40 - 135	11.215	11.213	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.4630	19.1	40 - 135	9.382	9.383	-0.0010	+/-0.030	*
55GW02-0012-08102011 (1108145-03) ug/L				Lab File ID: 027F2701.D		Analyzed: 08/19/11 18:40		
Tetrachloro-m-xylene	0.4717	25.8	25 - 140	5.141	5.137	0.0040	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4717	29.8	25 - 140	4.186	4.187	-0.0010	+/-0.030	
Decachlorobiphenyl	0.4717	14.2	40 - 135	11.214	11.213	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	0.4717	14.3	40 - 135	9.383	9.383	0.0000	+/-0.030	*
55GW05-0008-08102011 (1108145-04) ug/L				Lab File ID: 028F2801.D		Analyzed: 08/19/11 18:59		
Tetrachloro-m-xylene	0.4630	39.7	25 - 140	5.141	5.137	0.0040	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4630	45.4	25 - 140	4.186	4.187	-0.0010	+/-0.030	
Decachlorobiphenyl	0.4630	14.9	40 - 135	11.214	11.213	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	0.4630	15.8	40 - 135	9.383	9.383	0.0000	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24023	Instrument:	GL-ECD3
		Calibration:	1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24023-CCV6) ug/L				Lab File ID: 029F2901.D		Analyzed: 08/19/11 19:18		
Tetrachloro-m-xylene	100.0	103	80 - 120	5.137	5.137	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	129	80 - 120	4.186	4.187	-0.0010	+/-0.030	*
Decachlorobiphenyl	100.0	88.4	80 - 120	11.215	11.213	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	133	80 - 120	9.384	9.383	0.0010	+/-0.030	*

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16007	Laboratory ID:	1H16007-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	5.000	3.886	77.7	25 - 145
Aroclor-1016 [2C]	5.000	2.789	55.8	25 - 145
Aroclor-1260	5.000	3.240	64.8	30 - 145
Aroclor-1260 [2C]	5.000	2.677	53.5	30 - 145

ANALYSIS SEQUENCE SUMMARY
SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23613	Instrument:	ME-ICP
Calibration:	1237001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23613-CAL1	082311A-001	08/23/11 12:35
Cal Standard	1H23613-CAL2	082311A-002	08/23/11 12:39
Cal Standard	1H23613-CAL3	082311A-003	08/23/11 12:44
Cal Standard	1H23613-CAL4	082311A-004	08/23/11 12:48
Cal Standard	1H23613-CAL5	082311A-005	08/23/11 12:52
Cal Standard	1H23613-CAL6	082311A-006	08/23/11 12:57
Cal Standard	1H23613-CAL7	082311A-007	08/23/11 13:02
Cal Standard	1H23613-CAL8	082311A-008	08/23/11 13:07
Initial Cal Check	1H23613-ICV1	082311B-001	08/23/11 13:37
Initial Cal Blank	1H23613-ICB1	082311B-002	08/23/11 13:46
Instrument RL Check	1H23613-CRL1	082311B-003	08/23/11 13:51
Instrument RL Check	1H23613-CRL2	082311B-004	08/23/11 13:56
Interference Check A	1H23613-IFA1	082311B-005	08/23/11 14:01
Interference Check B	1H23613-IFB1	082311B-006	08/23/11 14:06
Calibration Check	1H23613-CCV1	082311B-008	08/23/11 14:17
Calibration Blank	1H23613-CCB1	082311B-009	08/23/11 14:24
Blank	1H22924-BLK1	082311C-001	08/23/11 14:31
LCS	1H22924-BS1	082311C-002	08/23/11 14:36
55GW10-0008-08102011	1108145-01	082311C-010	08/23/11 15:17
55GW06-0008-08102011	1108145-02	082311C-011	08/23/11 15:21
55GW02-0012-08102011	1108145-03	082311C-012	08/23/11 15:26
55GW05-0008-08102011	1108145-04	082311C-013	08/23/11 15:31
Calibration Check	1H23613-CCV2	082311C-017	08/23/11 15:51
Calibration Blank	1H23613-CCB2	082311C-018	08/23/11 15:58

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-ICV1	Aluminum	10000	10080	101	ug/L	+/- 10.00%
	Antimony	1000	1027	103	ug/L	+/- 10.00%
	Arsenic	1000	1073	107	ug/L	+/- 10.00%
	Barium	1000	1002	100	ug/L	+/- 10.00%
	Beryllium	1000	1068	107	ug/L	+/- 10.00%
	Cadmium	1000	1060	106	ug/L	+/- 10.00%
	Calcium	50000	54070	108	ug/L	+/- 10.00%
	Chromium	1000	999.0	99.9	ug/L	+/- 10.00%
	Cobalt	1000	1005	101	ug/L	+/- 10.00%
	Copper	1000	1088	109	ug/L	+/- 10.00%
	Iron	10000	10790	108	ug/L	+/- 10.00%
	Lead	1000	982.9	98.3	ug/L	+/- 10.00%
	Magnesium	50000	52710	105	ug/L	+/- 10.00%
	Manganese	1000	1071	107	ug/L	+/- 10.00%
	Nickel	1000	982.3	98.2	ug/L	+/- 10.00%
	Potassium	10000	9217	92.2	ug/L	+/- 10.00%
	Selenium	1000	1001	100	ug/L	+/- 10.00%
	Silver	500.0	495.4	99.1	ug/L	+/- 10.00%
	Sodium	50000	53320	107	ug/L	+/- 10.00%
	Thallium	1000	991.2	99.1	ug/L	+/- 10.00%
	Vanadium	1000	1040	104	ug/L	+/- 10.00%
	Zinc	1000	1010	101	ug/L	+/- 10.00%
1H23613-CCV1	Aluminum	10000	9977	99.8	ug/L	+/- 10.00%
	Antimony	1000	992.8	99.3	ug/L	+/- 10.00%
	Arsenic	1000	1094	109	ug/L	+/- 10.00%
	Barium	1000	947.8	94.8	ug/L	+/- 10.00%
	Beryllium	1000	1075	108	ug/L	+/- 10.00%
	Cadmium	1000	977.9	97.8	ug/L	+/- 10.00%
	Calcium	50000	53350	107	ug/L	+/- 10.00%
	Chromium	1000	1013	101	ug/L	+/- 10.00%
	Cobalt	1000	967.5	96.8	ug/L	+/- 10.00%
	Copper	1000	1059	106	ug/L	+/- 10.00%
	Iron	10000	10890	109	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%
	Magnesium	50000	51350	103	ug/L	+/- 10.00%
	Manganese	1000	1026	103	ug/L	+/- 10.00%
	Nickel	1000	926.5	92.6	ug/L	+/- 10.00%
	Potassium	10000	9875	98.7	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-CCV1	Selenium	1000	962.7	96.3	ug/L	+/- 10.00%
	Silver	500.0	477.8	95.6	ug/L	+/- 10.00%
	Sodium	50000	52160	104	ug/L	+/- 10.00%
	Thallium	1000	997.8	99.8	ug/L	+/- 10.00%
	Vanadium	1000	1005	101	ug/L	+/- 10.00%
	Zinc	1000	956.4	95.6	ug/L	+/- 10.00%
1H23613-CCV2	Aluminum	10000	9956	99.6	ug/L	+/- 10.00%
	Antimony	1000	1003	100	ug/L	+/- 10.00%
	Arsenic	**1000**	**1106**	**111**	**ug/L**	+/- 10.00%
	Barium	1000	946.9	94.7	ug/L	+/- 10.00%
	Beryllium	1000	1052	105	ug/L	+/- 10.00%
	Cadmium	1000	964.6	96.5	ug/L	+/- 10.00%
	Calcium	50000	50570	101	ug/L	+/- 10.00%
	Chromium	1000	997.1	99.7	ug/L	+/- 10.00%
	Cobalt	1000	961.0	96.1	ug/L	+/- 10.00%
	Copper	1000	1006	101	ug/L	+/- 10.00%
	Iron	10000	10840	108	ug/L	+/- 10.00%
	Lead	1000	931.5	93.1	ug/L	+/- 10.00%
	Magnesium	50000	49310	98.6	ug/L	+/- 10.00%
	Manganese	1000	973.9	97.4	ug/L	+/- 10.00%
	Nickel	1000	922.2	92.2	ug/L	+/- 10.00%
	Potassium	10000	9780	97.8	ug/L	+/- 10.00%
	Selenium	1000	965.4	96.5	ug/L	+/- 10.00%
	Silver	500.0	476.4	95.3	ug/L	+/- 10.00%
	Sodium	50000	48610	97.2	ug/L	+/- 10.00%
	Thallium	1000	988.1	98.8	ug/L	+/- 10.00%
	Vanadium	1000	979.3	97.9	ug/L	+/- 10.00%
	Zinc	1000	958.5	95.8	ug/L	+/- 10.00%

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23804-CAL1	082411A-001	08/24/11 12:09
Cal Standard	1H23804-CAL2	082411A-002	08/24/11 12:13
Cal Standard	1H23804-CAL3	082411A-003	08/24/11 12:17
Cal Standard	1H23804-CAL4	082411A-004	08/24/11 12:21
Cal Standard	1H23804-CAL5	082411A-005	08/24/11 12:26
Cal Standard	1H23804-CAL6	082411A-006	08/24/11 12:31
Cal Standard	1H23804-CAL7	082411A-007	08/24/11 12:36
Cal Standard	1H23804-CAL8	082411A-008	08/24/11 12:41
Initial Cal Check	1H23804-ICV1	082411B-001	08/24/11 13:09
Initial Cal Blank	1H23804-ICB1	082411B-002	08/24/11 13:17
Instrument RL Check	1H23804-CRL1	082411B-003	08/24/11 13:24
Interference Check A	1H23804-IFA1	082411B-005	08/24/11 13:34
Interference Check B	1H23804-IFB1	082411B-006	08/24/11 13:39
Calibration Check	1H23804-CCV1	082411B-008	08/24/11 13:50
Calibration Blank	1H23804-CCB1	082411B-009	08/24/11 13:57
55GW02-0012-08102011	1108145-03RE1	082411B-013	08/24/11 14:16
55GW02-0012-08102011	1108145-03RE3	082411B-018	08/24/11 14:43
Calibration Check	1H23804-CCV2	082411B-019	08/24/11 14:50
Calibration Blank	1H23804-CCB2	082411B-020	08/24/11 14:57

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-ICV1	Cadmium	1000	1083	108	ug/L	+/- 10.00%
	Chromium	1000	976.8	97.7	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	50140	100	ug/L	+/- 10.00%
	Potassium	10000	9193	91.9	ug/L	+/- 10.00%
	Sodium	50000	51790	104	ug/L	+/- 10.00%
	Zinc	1000	1009	101	ug/L	+/- 10.00%
1H23804-CCV1	Cadmium	1000	1055	105	ug/L	+/- 10.00%
	Chromium	1000	999.8	100	ug/L	+/- 10.00%
	Lead	1000	963.7	96.4	ug/L	+/- 10.00%
	Magnesium	50000	49750	99.5	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Sodium	50000	51800	104	ug/L	+/- 10.00%
	Zinc	1000	999.8	100	ug/L	+/- 10.00%
1H23804-CCV2	Cadmium	1000	1054	105	ug/L	+/- 10.00%
	Chromium	1000	995.3	99.5	ug/L	+/- 10.00%
	Lead	1000	963.4	96.3	ug/L	+/- 10.00%
	Magnesium	50000	49480	99.0	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Sodium	50000	51660	103	ug/L	+/- 10.00%
	Zinc	1000	996.2	99.6	ug/L	+/- 10.00%

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1237001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/23/11 12:35 8/23/11 13:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.608025E-05	66.69204	4.98034	177.4853	0.9999998		0.998	
Antimony	5.025775E-04	66.70451	57.0169	198.7401	0.9999987		0.998	
Arsenic	2.038425E-04	66.79688	16.93998	190.9752	0.9999796		0.998	
Barium	8.78425E-03	66.75169	2.003203	174.5036	0.9999995		0.998	
Beryllium	2.326975E-03	66.74399	51.10365	197.6351	0.9999665		0.998	
Boron	1.1857E-05	66.69066	9.365562	188.3758	0.9999762		0.998	
Cadmium	0.0122455	66.78714	11.40095	196.2946	0.9999597		0.998	
Calcium	4.966336E-05	66.70357	3.09624	152.8904	0.999989		0.998	
Chromium	3.91015E-05	66.70938	4.188295	156.5203	0.9999987		0.998	
Cobalt	4.287225E-03	66.67146	2.526048	179.4643	0.9999995		0.998	
Copper	5.77515E-05	66.77662	1.234518	99.22564	0.9999997		0.998	
Iron	1.488402E-05	66.86233	24.03939	194.8944	0.9999989		0.998	
Lead	1.064975E-03	66.70308	27.98761	197.0461	0.9999961		0.998	
Magnesium	1.993925E-06	66.71178	132.9955	199.3474	0.9999756		0.998	
Manganese	2.22455E-04	66.78945	2.19444	146.7611	0.9999907		0.998	
Molybdenum	2.91255E-03	66.67816	12.41011	196.3678	0.9999983		0.998	
Nickel	0.0024311	66.72374	0.565385	121.5468	1		0.998	
Potassium	9.72425E-06	69.29326	1.984938	111.7499	0.9999992		0.998	
Selenium	3.150575E-04	66.67691	8.407388	194.7086	0.9999961		0.998	
Silver	4.500125E-05	66.73767	12.27759	183.5934	0.9999032		0.998	
Sodium	3.4117E-05	66.67976	5.077497	170.9772	0.9999856		0.998	
Thallium	5.750625E-04	66.67668	7.079645	191.1055	0.9999987		0.998	
Tin	1.05142E-03	66.69146	2.22921	176.7163	0.9999955		0.998	
Titanium	1.90265E-04	66.69513	1.857302	149.1842	0.9999939		0.998	
Vanadium	4.0804E-05	66.69356	6.050597	174.6094	0.9999983		0.998	
Zinc	5.346775E-03	66.69144	5.309312	194.8523	0.9999896		0.998	
Strontium	1.32625E-03	66.69061	3.16285	146.4308	0.9999912		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1242003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/24/11 12:09 8/24/11 12:41

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5772E-05	66.67785	6.590605	186.6526	1		0.998	
Antimony	4.9237E-04	66.70426	16.48114	191.0124	0.9999988		0.998	
Arsenic	2.11795E-04	66.76766	16.87024	196.1461	0.9999997		0.998	
Barium	8.40855E-03	66.74551	1.842182	170.1049	0.9999933		0.998	
Beryllium	2.325875E-03	66.69948	23.51014	195.5878	0.9999904		0.998	
Boron	1.20445E-05	66.6681	2.17486	141.3411	0.9999986		0.998	
Cadmium	1.173025E-02	66.74761	1.48725	134.3019	0.9999676		0.998	
Calcium	4.935259E-05	66.74075	2.139465	152.1084	0.9999953		0.998	
Chromium	3.8336E-05	66.71675	15.52016	193.3144	0.9999991		0.998	
Cobalt	0.0041427	66.67425	0.5211875	82.47643	0.9999983		0.998	
Copper	5.77625E-05	66.73259	0.8866925	54.50862	0.9999982		0.998	
Iron	1.55402E-05	66.84809	13.49044	194.9622	0.9999994		0.998	
Lead	1.011025E-03	66.69722	9.694932	187.953	0.999999		0.998	
Magnesium	1.977175E-06	66.723	41.12999	198.9628	0.9999038		0.998	
Manganese	2.134525E-04	66.7282	3.51221	161.7503	0.9999982		0.998	
Molybdenum	2.730975E-03	66.68582	2.17037	155.931	0.9999921		0.998	
Nickel	0.0022722	66.68012	1.429618	147.3478	0.9999984		0.998	
Potassium	9.245E-06	69.08704	1.748115	163.9921	0.9999994		0.998	
Selenium	2.9688E-04	66.71374	11.49879	186.2794	0.9999801		0.998	
Silver	4.399875E-05	66.76583	3.150522	131.4859	0.9998891		0.998	
Sodium	3.259725E-05	66.68458	2.341118	156.6472	0.9999675		0.998	
Thallium	5.693575E-04	66.69338	1.419545	126.8002	0.9999963		0.998	
Tin	9.83645E-04	66.70629	7.23423	187.6377	0.9999722		0.998	
Titanium	1.867775E-04	66.68748	4.651775	190.0491	0.9999996		0.998	
Vanadium	3.93265E-05	66.69312	6.575285	183.1687	0.9999986		0.998	
Zinc	4.973225E-03	66.71143	3.783605	182.3717	0.9999821		0.998	
Strontium	1.30025E-03	66.6762	5.23815	188.0273	0.9999998		0.998	

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23613-CRL1	Aluminum	100.0	102.0	102	ug/L	80 - 120
	Antimony	8.000	6.461	80.8	ug/L	80 - 120
	Barium	10.00	9.656	96.6	ug/L	80 - 120
	Beryllium	2.000	2.050	103	ug/L	80 - 120
	Cadmium	2.000	1.884	94.2	ug/L	80 - 120
	Calcium	2000	2023	101	ug/L	80 - 120
	Chromium	4.000	4.081	102	ug/L	80 - 120
	Cobalt	10.00	9.202	92.0	ug/L	80 - 120
	Copper	8.000	7.386	92.3	ug/L	80 - 120
	Iron	60.00	65.87	110	ug/L	80 - 120
	Lead	3.000	3.040	101	ug/L	80 - 120
	Magnesium	3000	3008	100	ug/L	80 - 120
	Manganese	6.000	6.009	100	ug/L	80 - 120
	Nickel	6.000	5.773	96.2	ug/L	80 - 120
	Potassium	3000	2821	94.0	ug/L	80 - 120
	Silver	2.000	1.784	89.2	ug/L	80 - 120
	Sodium	3000	2831	94.4	ug/L	80 - 120
	Thallium	4.000	4.207	105	ug/L	80 - 120
	Vanadium	10.00	9.610	96.1	ug/L	80 - 120
	Zinc	10.00	9.452	94.5	ug/L	80 - 120
1H23613-CRL2	Arsenic	5.000	5.122	102	ug/L	80 - 120
	Selenium	5.000	4.187	83.7	ug/L	80 - 120

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23804-CRL1	Cadmium	2.000	2.024	101	ug/L	80 - 120
	Chromium	4.000	4.157	104	ug/L	80 - 120
	Lead	3.000	3.000	100	ug/L	80 - 120
	Magnesium	3000	3034	101	ug/L	80 - 120
	Potassium	3000	2908	97.0	ug/L	80 - 120
	Sodium	3000	2961	98.7	ug/L	80 - 120
	Zinc	10.00	9.672	96.7	ug/L	80 - 120

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H22924 Batch Matrix: Water Preparation: MET_3005A_LOW

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW10-0008-08102011	1108145-01	08/22/11 09:40	100.00	25.00
55GW06-0008-08102011	1108145-02	08/22/11 09:40	100.00	25.00
55GW02-0012-08102011	1108145-03	08/22/11 09:40	100.00	25.00
55GW02-0012-08102011	1108145-03RE1	08/22/11 09:40	100.00	25.00
55GW02-0012-08102011	1108145-03RE3	08/22/11 09:40	100.00	25.00
55GW05-0008-08102011	1108145-04	08/22/11 09:40	100.00	25.00
Blank	1H22924-BLK1	08/22/11 09:40	100.00	25.00
LCS	1H22924-BS1	08/22/11 09:40	100.00	25.00

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108145
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-ICB1	Aluminum	0.9721	50.0	200	ug/L	U	SW6010C
	Antimony	-0.6028	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.5096	3.00	10.0	ug/L	U	SW6010C
	Barium	-0.04689	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.03308	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.01702	1.00	5.00	ug/L	U	SW6010C
	Calcium	0.8800	1000	5000	ug/L	U	SW6010C
	Chromium	0.04606	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.07458	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.2035	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.9043	30.0	100	ug/L	U	SW6010C
	Lead	0.1953	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.1000	1000	5000	ug/L	U	SW6010C
	Manganese	0.00003000	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.2118	3.00	10.0	ug/L	U	SW6010C
	Potassium	4.750	1000	5000	ug/L	U	SW6010C
	Selenium	-1.024	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.1533	1.00	10.0	ug/L	U	SW6010C
	Sodium	14.59	1000	5000	ug/L	U	SW6010C
	Thallium	0.7609	3.00	8.00	ug/L	U	SW6010C
	Vanadium	-0.09009	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.03595	5.00	20.0	ug/L	U	SW6010C
1H23613-CCB1	Aluminum	-1.64	50.0	200	ug/L	U	SW6010C
	Antimony	-0.824	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.791	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0746	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.0102	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0709	1.00	5.00	ug/L	U	SW6010C
	Calcium	1.97	1000	5000	ug/L	U	SW6010C
	Chromium	-0.00287	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.113	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.620	4.00	10.0	ug/L	U	SW6010C
	Iron	0.563	30.0	100	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108145
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-CCB1	Lead	0.212	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.440	1000	5000	ug/L	U	SW6010C
	Manganese	0.0481	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.461	3.00	10.0	ug/L	U	SW6010C
	Potassium	7.57	1000	5000	ug/L	U	SW6010C
	Selenium	-0.455	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.207	1.00	10.0	ug/L	U	SW6010C
	Sodium	21.6	1000	5000	ug/L	U	SW6010C
	Thallium	0.824	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0876	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0844	5.00	20.0	ug/L	U	SW6010C
1H22924-BLK1	Aluminum	5.61	12.5	50.0	ug/L	U	SW6010C
	Antimony	-0.254	1.25	2.50	ug/L	U	SW6010C
	Arsenic	0.0766	0.750	2.50	ug/L	U	SW6010C
	Barium	-0.00477	1.25	10.0	ug/L	U	SW6010C
	Beryllium	0.0495	0.250	1.25	ug/L	U	SW6010C
	Cadmium	0.0127	0.250	1.25	ug/L	U	SW6010C
	Calcium	3.48	250	1250	ug/L	U	SW6010C
	Chromium	0.0163	0.500	2.50	ug/L	U	SW6010C
	Cobalt	-0.0308	1.25	3.12	ug/L	U	SW6010C
	Copper	-0.0609	1.00	2.50	ug/L	U	SW6010C
	Iron	-0.0566	7.50	25.0	ug/L	U	SW6010C
	Lead	0.233	0.375	0.750	ug/L	U	SW6010C
	Magnesium	5.14	250	1250	ug/L	U	SW6010C
	Manganese	0.0462	0.750	3.75	ug/L	U	SW6010C
	Nickel	0.0496	0.750	2.50	ug/L	U	SW6010C
	Potassium	3.96	250	1250	ug/L	U	SW6010C
	Selenium	-0.227	0.750	2.50	ug/L	U	SW6010C
	Silver	-0.00716	0.250	2.50	ug/L	U	SW6010C
	Sodium	8.79	250	1250	ug/L	U	SW6010C
	Thallium	0.106	0.750	2.00	ug/L	U	SW6010C
	Vanadium	0.0259	1.25	3.12	ug/L	U	SW6010C
	Zinc	0.0543	1.25	5.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108145
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-CCB2	Aluminum	1.34	50.0	200	ug/L	U	SW6010C
	Antimony	0.0434	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.0497	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0731	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0361	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.107	1.00	5.00	ug/L	U	SW6010C
	Calcium	15.6	1000	5000	ug/L	U	SW6010C
	Chromium	0.160	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.0216	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0268	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.810	30.0	100	ug/L	U	SW6010C
	Lead	0.782	1.50	3.00	ug/L	U	SW6010C
	Magnesium	5.47	1000	5000	ug/L	U	SW6010C
	Manganese	0.169	3.00	15.0	ug/L	U	SW6010C
	Nickel	-0.0148	3.00	10.0	ug/L	U	SW6010C
	Potassium	36.8	1000	5000	ug/L	U	SW6010C
	Selenium	0.454	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.0664	1.00	10.0	ug/L	U	SW6010C
	Sodium	139	1000	5000	ug/L	U	SW6010C
	Thallium	0.497	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0647	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.181	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108145
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-ICB1	Cadmium	-0.03450	1.00	5.00	ug/L	U	SW6010C
	Chromium	-0.1132	2.00	10.0	ug/L	U	SW6010C
	Lead	-0.07939	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-1.750	1000	5000	ug/L	U	SW6010C
	Potassium	-6.710	1000	5000	ug/L	U	SW6010C
	Sodium	20.27	1000	5000	ug/L	U	SW6010C
	Zinc	-0.02686	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB1	Cadmium	0.0876	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.0433	2.00	10.0	ug/L	U	SW6010C
	Lead	0.218	1.50	3.00	ug/L	U	SW6010C
	Magnesium	1.66	1000	5000	ug/L	U	SW6010C
	Potassium	-10.3	1000	5000	ug/L	U	SW6010C
	Sodium	17.2	1000	5000	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB2	Cadmium	0.0490	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.223	2.00	10.0	ug/L	U	SW6010C
	Lead	-0.223	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-5.38	1000	5000	ug/L	U	SW6010C
	Potassium	19.0	1000	5000	ug/L	U	SW6010C
	Sodium	64.5	1000	5000	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units
1H23613-IFA1	Aluminum	500000	520,570.00	104	ug/L
	Antimony		-0.78		ug/L
	Arsenic		-0.94		ug/L
	Barium		0.45		ug/L
	Beryllium		0.02		ug/L
	Cadmium		1.69		ug/L
	Calcium	500000	479,420.00	95.9	ug/L
	Chromium		-1.14		ug/L
	Cobalt		-1.26		ug/L
	Copper		-1.22		ug/L
	Iron	200000	208,550.00	104	ug/L
	Lead		3.37		ug/L
	Magnesium	500000	502,960.00	101	ug/L
	Manganese		-3.66		ug/L
	Nickel		-2.86		ug/L
	Potassium		-5.03		ug/L
	Selenium		-0.11		ug/L
	Silver		-0.50		ug/L
	Sodium		60.57		ug/L
	Thallium		-1.14		ug/L
	Vanadium		2.59		ug/L
	Zinc		-8.87		ug/L
1H23613-IFB1	Aluminum	500000	525,830.00	105	ug/L
	Antimony	600.0	641.62	107	ug/L
	Arsenic	100.0	113.96	114	ug/L
	Barium	500.0	521.89	104	ug/L
	Beryllium	500.0	508.79	102	ug/L
	Cadmium	1000	1,036.60	104	ug/L
	Calcium	500000	489,180.00	97.8	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units
1H23613-IFB1	Chromium	500.0	478.12	95.6	ug/L
	Cobalt	500.0	487.32	97.5	ug/L
	Copper	500.0	536.30	107	ug/L
	Iron	200000	211,200.00	106	ug/L
	Lead	50.00	46.77	93.5	ug/L
	Magnesium	500000	511,860.00	102	ug/L
	Manganese	500.0	489.51	97.9	ug/L
	Nickel	1000	954.32	95.4	ug/L
	Potassium		-19.93		ug/L
	Selenium	50.00	51.99	104	ug/L
	Silver	200.0	204.23	102	ug/L
	Sodium		115.13		ug/L
	Thallium	100.0	91.19	91.2	ug/L
	Vanadium	500.0	490.21	98.0	ug/L
	Zinc	1000	987.73	98.8	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units
1H23804-IFA1	Cadmium		1.68		ug/L
	Chromium		-1.34		ug/L
	Lead		5.02		ug/L
	Magnesium	500000	496,580.00	99.3	ug/L
	Potassium		-40.17		ug/L
	Sodium		66.94		ug/L
	Zinc		-8.83		ug/L
1H23804-IFB1	Cadmium	1000	1,059.20	106	ug/L
	Chromium	500.0	467.17	93.4	ug/L
	Lead	50.00	48.70	97.4	ug/L
	Magnesium	500000	489,710.00	97.9	ug/L
	Potassium		-21.23		ug/L
	Sodium		124.04		ug/L
	Zinc	1000	989.21	98.9	ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H22924	Laboratory ID:	1H22924-BS1
Preparation:	MET_3005A_LOW	Initial/Final:	100 mL / 25 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aluminum	40.00	43.06	108	80 - 120
Antimony	5.000	4.533	90.7	80 - 120
Arsenic	5.000	5.071	101	80 - 120
Barium	40.00	36.68	91.7	80 - 120
Beryllium	1.000	1.067	107	80 - 120
Cadmium	2.500	2.411	96.4	80 - 120
Calcium	600.0	616.8	103	80 - 120
Chromium	4.000	3.988	99.7	80 - 120
Cobalt	10.00	9.226	92.3	80 - 120
Copper	5.000	4.866	97.3	80 - 120
Iron	20.00	21.04	105	80 - 120
Lead	5.000	5.027	101	80 - 120
Magnesium	600.0	615.0	102	80 - 120
Manganese	10.00	10.06	101	80 - 120
Nickel	10.00	9.105	91.0	80 - 120
Potassium	600.0	575.8	96.0	80 - 120
Selenium	5.000	4.283	85.7	80 - 120
Silver	5.000	4.839	96.8	80 - 120
Sodium	600.0	584.6	97.4	80 - 120
Thallium	5.000	4.845	96.9	80 - 120
Vanadium	10.00	9.229	92.3	80 - 120
Zinc	10.00	9.422	94.2	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Water

Instrument: ME-ICP

Analyte	MDL	MRL	Units	Method
Aluminum	12.5	50.0	ug/L	SW6010C
Antimony	1.25	2.50	ug/L	SW6010C
Arsenic	0.750	2.50	ug/L	SW6010C
Barium	1.25	10.0	ug/L	SW6010C
Beryllium	0.250	1.25	ug/L	SW6010C
Cadmium	0.250	1.25	ug/L	SW6010C
Calcium	250	1250	ug/L	SW6010C
Chromium	0.500	2.50	ug/L	SW6010C
Cobalt	1.25	3.12	ug/L	SW6010C
Copper	1.00	2.50	ug/L	SW6010C
Iron	7.50	25.0	ug/L	SW6010C
Lead	0.375	0.750	ug/L	SW6010C
Magnesium	250	1250	ug/L	SW6010C
Manganese	0.750	3.75	ug/L	SW6010C
Nickel	0.750	2.50	ug/L	SW6010C
Potassium	250	1250	ug/L	SW6010C
Selenium	0.750	2.50	ug/L	SW6010C
Silver	0.250	2.50	ug/L	SW6010C
Sodium	250	1250	ug/L	SW6010C
Thallium	0.750	2.00	ug/L	SW6010C
Vanadium	1.25	3.12	ug/L	SW6010C
Zinc	1.25	5.00	ug/L	SW6010C

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108145

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.1	0.0000000	0.0000000	-0.0000600	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Arsenic	189.0	0.0000120	0.0000000	0.0000020	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000050	0.0021850	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000040	0.0056080	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002930	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Nickel	231.6	0.0000000	0.0000000	-0.0000040	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000020	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	-0.0000160	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0013660	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108145

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0045780	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108145

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0060190	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	-0.0126310	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	-0.0025320	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002500
Cobalt	228.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0009430
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000650
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0040870	0.0002110	0.0000000	0.0000000	0.0014070
Vanadium	292.4	0.0000000	-0.0023860	0.0000000	0.0000000	-0.0003500
Zinc	206.2	0.0000000	-0.0003020	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108145

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Aluminum	396.1	0.0317300	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	-0.0012790	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	-0.0000250	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000880	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.6	-0.0012520	0.0000000	0.0001940	0.0000000	0.0000000
Copper	224.7	0.0018210	0.0000000	-0.0088250	0.0030200	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	-0.0000220	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000830	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	-0.0000590	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.4	-0.0001060	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0001730	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108145

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Aluminum	396.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.8	0.0000000	0.0000000	0.0004790	0.0000000	-0.0017000
Arsenic	189.0	0.0000000	0.0000000	0.0000750	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017020
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0001050
Cadmium	228.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000560
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Cobalt	228.6	0.0000000	0.0000000	0.0021640	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000220	0.0000000	0.0000540
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0064060
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	-0.0012830	0.0000000	0.0004040
Vanadium	292.4	0.0000000	0.0000000	0.0006540	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1108145

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Aluminum	396.1	0.0000000				
Antimony	206.8	0.0000000				
Arsenic	189.0	0.0000000				
Barium	233.5	0.0000000				
Beryllium	313.0	0.0000000				
Cadmium	228.8	0.0000000				
Calcium	317.9	0.0000000				
Chromium	267.7	0.0000000				
Cobalt	228.6	0.0000000				
Copper	224.7	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Nickel	231.6	0.0000000				
Potassium	766.4	0.0000000				
Selenium	196.0	0.0000000				
Silver	328.0	0.0000000				
Sodium	330.2	0.0000000				
Thallium	190.8	0.0000000				
Vanadium	292.4	0.0000000				
Zinc	206.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010) SDG: 1108145

Project: NAS Jacksonville CTOJM19

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Aluminum	15	500000	P
Antimony	15	10000	P
Arsenic	15	10000	P
Barium	15	5000	P
Beryllium	15	10000	P
Cadmium	15	10000	P
Calcium	15	500000	P
Chromium	15	10000	P
Cobalt	15	10000	P
Copper	15	10000	P
Iron	15	500000	P
Lead	15	10000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Nickel	15	10000	P
Potassium	15	100000	P
Selenium	15	10000	P
Silver	15	2000	P
Sodium	15	500000	P
Thallium	15	10000	P
Vanadium	15	10000	P
Zinc	15	10000	P

ANALYSIS SEQUENCE SUMMARY
SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23402	Instrument:	ME-FIMS
Calibration:	1234002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23402-CAL1	COPY081711W-002	08/17/11 13:17
Cal Standard	1H23402-CAL2	COPY081711W-003	08/17/11 13:18
Cal Standard	1H23402-CAL3	COPY081711W-004	08/17/11 13:19
Cal Standard	1H23402-CAL4	COPY081711W-005	08/17/11 13:20
Cal Standard	1H23402-CAL5	COPY081711W-006	08/17/11 13:21
Cal Standard	1H23402-CAL6	COPY081711W-007	08/17/11 13:23
Cal Standard	1H23402-CAL7	COPY081711W-008	08/17/11 13:24
Cal Standard	1H23402-CAL8	COPY081711W-009	08/17/11 13:25
Initial Cal Check	1H23402-ICV1	COPY081711W-010	08/17/11 13:31
Initial Cal Blank	1H23402-ICB1	COPY081711W-011	08/17/11 13:32
Instrument RL Check	1H23402-CRL1	COPY081711W-012	08/17/11 13:33
Calibration Check	1H23402-CCV1	COPY081711W-022	08/17/11 13:45
Calibration Blank	1H23402-CCB1	COPY081711W-023	08/17/11 13:46
Calibration Check	1H23402-CCV2	COPY081711W-034	08/17/11 14:00
Calibration Blank	1H23402-CCB2	COPY081711W-035	08/17/11 14:01
LCS	1H16009-BS1	COPY081711W-036	08/17/11 14:02
Blank	1H16009-BLK1	COPY081711W-037	08/17/11 14:03
Calibration Check	1H23402-CCV3	COPY081711W-046	08/17/11 14:14
Calibration Blank	1H23402-CCB3	COPY081711W-047	08/17/11 14:15
55GW10-0008-08102011	1108145-01	COPY081711W-053	08/17/11 14:22
55GW06-0008-08102011	1108145-02	COPY081711W-054	08/17/11 14:24
55GW02-0012-08102011	1108145-03	COPY081711W-055	08/17/11 14:25
55GW05-0008-08102011	1108145-04	COPY081711W-056	08/17/11 14:26
Instrument RL Check	1H23402-CRL2	COPY081711W-057	08/17/11 14:27
Calibration Check	1H23402-CCV4	COPY081711W-058	08/17/11 14:28
Calibration Blank	1H23402-CCB4	COPY081711W-059	08/17/11 14:30

INITIAL AND CONTINUING CALIBRATION CHECK

SW7470A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Instrument ID: ME-FIMS

SDG: 1108145

Project: NAS Jacksonville CTOJM19

Calibration: 1234002

Sequence: 1H23402

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23402-ICV1	Mercury	4.000	4.177	104	ug/L	+/- 15.00%
1H23402-CCV1	Mercury	4.000	4.218	105	ug/L	+/- 15.00%
1H23402-CCV2	Mercury	4.000	4.069	102	ug/L	+/- 15.00%
1H23402-CCV3	Mercury	2.000	2.008	100	ug/L	+/- 15.00%
1H23402-CCV4	Mercury	2.000	2.036	102	ug/L	+/- 15.00%

INITIAL CALIBRATION DATA (Continued)

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1234002	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	8/17/11 13:17 8/17/11 13:25

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Mercury	1.068062E-02	40.7204	0	0	0.9993443		0.995	

CRDL STANDARD

SW7470A

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-FIMS

Calibration: 1234002

Sequence: 1H23402

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23402-CRL1	Mercury	0.2000	0.2270	113	ug/L	70 - 130
1H23402-CRL2	Mercury	0.2000	0.2167	108	ug/L	70 - 130

PREPARATION BATCH SUMMARY

SW7470A

Laboratory: Empirical Laboratories, LLC SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H16009 Batch Matrix: Water Preparation: pMercury-W SW 7470A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW10-0008-08102011	1108145-01	08/17/11 07:44	30.00	30.00
55GW06-0008-08102011	1108145-02	08/17/11 07:44	30.00	30.00
55GW02-0012-08102011	1108145-03	08/17/11 07:44	30.00	30.00
55GW05-0008-08102011	1108145-04	08/17/11 07:44	30.00	30.00
Blank	1H16009-BLK1	08/17/11 07:44	30.00	30.00
LCS	1H16009-BS1	08/17/11 07:44	30.00	30.00

BLANKS
SW7470A

Laboratory: Empirical Laboratories, LLC
SDG: 1108145
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: NAS Jacksonville CTOJM19
Sequence: 1H23402
Calibration: 1234002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23402-ICB1	Mercury	0.03360	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB1	Mercury	0.0369	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB2	Mercury	0.0348	0.0800	0.200	ug/L	U	SW7470A
1H16009-BLK1	Mercury	0.0305	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB3	Mercury	0.0352	0.0800	0.200	ug/L	U	SW7470A
1H23402-CCB4	Mercury	0.0374	0.0800	0.200	ug/L	U	SW7470A

LCS / LCS DUPLICATE RECOVERY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108145
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16009	Laboratory ID:	1H16009-BS1
Preparation:	pMercury-W SW 7470A	Initial/Final:	30 mL / 30 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Mercury	2.000	2.022	101	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: 1108145

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Water

Instrument: ME-FIMS

Analyte	MDL	MRL	Units	Method
Mercury	0.0800	0.200	ug/L	SW7470A

Sample Calculation

ANALYSIS DATA SHEET

55GW02-0012-08102011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/10/11 10:25
% Solids: 0.00

SDG: 1108145
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108145-03
Received: 08/11/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H16009	08/17/11 14:25
7429-90-5	Aluminum	613	25.0	50.0	100	2	D	SW6010C	1H22924	08/23/11 15:26
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-38-2	Arsenic	3.01	1.50	3.00	5.00	2	X D I	SW6010C	1H22924	08/23/11 15:26
7440-39-3	Barium	35.5	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/23/11 15:26
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/23/11 15:26
7440-43-9	Cadmium		2.50	5.00	12.5	10	U	SW6010C	1H22924	08/24/11 14:16
7440-70-2	Calcium	167000	500	1000	2500	2	D	SW6010C	1H22924	08/23/11 15:26
7440-47-3	Chromium		5.00	10.0	25.0	10	U	SW6010C	1H22924	08/24/11 14:16
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/23/11 15:26
7440-50-8	Copper	2.47	2.00	4.00	5.00	2	D I	SW6010C	1H22924	08/23/11 15:26
7439-89-6	Iron	986	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/23/11 15:26
7439-92-1	Lead		3.75	7.50	7.50	10	U	SW6010C	1H22924	08/24/11 14:16
7439-95-4	Magnesium	428000	2500	7500	12500	10	D	SW6010C	1H22924	08/24/11 14:16
7439-96-5	Manganese	25.1	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/23/11 15:26
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-09-7	Potassium	145000	2500	7500	12500	10	D	SW6010C	1H22924	08/24/11 14:16
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-23-5	Sodium	3650000	12500	37500	62500	50	D	SW6010C	1H22924	08/24/11 14:43
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/23/11 15:26
7440-62-2	Vanadium	4.63	2.50	5.00	6.25	2	D I	SW6010C	1H22924	08/23/11 15:26
7440-66-6	Zinc		12.5	25.0	50.0	10	U	SW6010C	1H22924	08/24/11 14:16

Sample Calculation

55GW02-0012-08102011

Sample Name: 1108145-03@2X Acquired: 8/23/2011 15:26:53 Type: Unk
Method: DuoEnviroMethodNEW(v2372) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X X2

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.33608**	**1226.8**	**6.0224**	**6.4126**	**3513.9**	**70.960**	**.10136**
Stddev	.24064	6.1	3.0422	1.2121	15.4	.480	.02158
%RSD	71.602	.49470	50.514	18.902	.43831	.67646	21.294
#1	.22457	1225.7	9.5326	7.8094	3505.8	70.817	.12551
#2	.61225	1221.3	4.3845	5.6381	3504.2	70.567	.09461
#3	.17143	1233.3	4.1502	5.7903	3531.7	71.495	.08396

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**333.08**	**.27540**	**-1.7310**	**1.4032**	**-.89962**	**.1097**	**4.9314**
Stddev	1.34	.08886	.1904	.2605	.14639	.7233	.1090
%RSD	.40127	32.267	11.001	18.561	16.272	659.7	2.2113
#1	333.34	.21320	-1.8316	1.5886	-.75125	-.4334	4.8075
#2	334.26	.37717	-1.8500	1.1054	-.90368	-.1684	5.0126
#3	331.63	.23582	-1.5113	1.5155	-1.0439	.9308	4.9741

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**1972.5**	F **297.74**	F **831.84**	**50.124**	**8.6105**	^ *****	**1.2538**
Stddev	3.6	1.34	8.52	.344	.3132	-----	.3246
%RSD	.18233	.45010	1.0248	.68700	3.6377	-----	25.894
#1	1968.3	299.24	841.40	50.180	8.9462	^ -----	.88197
#2	1974.2	297.30	829.09	49.755	8.5592	^ -----	1.3983
#3	1974.9	296.67	825.03	50.436	8.3261	^ -----	1.4811

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.7068**	**.16929**	**.40202**	**.26161**	**6922.**	**10.159**	**.27028**
Stddev	.1879	2.4634	1.3928	.43015	128.	.298	.76299
%RSD	11.011	1455.1	346.45	164.43	1.846	2.9287	282.29
#1	1.5419	-.63614	1.3901	.37258	7061.	10.501	.03109
#2	1.6659	-1.7905	1.0070	.62540	6893.	10.021	-.34445
#3	1.9111	2.9346	-1.1910	-.21316	6811.	9.9561	1.1242

$1226.8 * \frac{25mL}{100mL} * 2 = 613.4\ ug/L$

Sample Calculation

PREPARATION BENCH SHEET

1H22924

Empirical Laboratories, LLC

Instrument:

Printed: 9/7/2011 3:52:14PM

398

Matrix: Water

Prepared using: METALS - MET_3005A_LOW

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1108137-01	G	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/MSD
1108137-01	G	MET_ICP_LOW6010B_FULL	08/22/2011	100	25					NA	Added for BatchQC in: 1H22924
1108137-01RE1	G	MET_ICP_LOW6010B_FULL	08/22/2011	100	25					NA	Added 8/26/2011 by RGB
1108137-01RE1	G	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/MSD
1108137-02	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	
1108137-03	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	
1108137-03RE1	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	Added 8/25/2011 by RGB
1108145-01	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	
1108145-02	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	
1108145-03	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	
1108145-03RE1	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	Added 8/25/2011 by RGB
1108145-03RE2	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	Added 8/25/2011 by RGB
1108145-03RE3	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	Added 8/25/2011 by RGB
1108145-04	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	
1108162-44	B	MET_ICP_LOW6010B_FULL	08/22/2011	100	25					NA	
1108162-45	B	MET_ICP_LOW6010B_FULL	08/22/2011	100	25					NA	
1108173-01	A	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/Dup
1108173-02	D	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/Dup
1108173-03	D	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/Dup
1108173-03RE1	D	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/Dup
1108173-03RE2	D	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/Dup
1108173-04	D	MET_ICP_LOW6010C_FULL	08/22/2011	100	25					NA	MS/Dup

1108145

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **A. PATE** **DATE:** **DECEMBER 15, 2011**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION: VOC/SVOC/PAH/PCB**
NAS JACKSONVILLE, CTOJM19
SAMPLE DELIVERY GROUP (SDG) – 1108171

SAMPLES: 10/Soil/VOC

55SB03-0204	55SB04-0204	55SB04-0204D	55SB07-0204
55SB09-0204	55SS03-0X02	55SS04-0X02	55SS04-0X02D
55SS07-0X02	55SS09-0X02		

1/Aqueous/VOC

Trip Blank #0150

16/Soil/SVOC/PAH

55SB03-0204	55SB04-0204	55SB04-0204D	55SB07-0204
55SB09-0204	55SS03-000X	55SS03-000XD	55SS03-0X02
55SS04-000X	55SS04-000XD	55SS04-0X02	55SS04-0X02D
55SS07-000X	55SS07-0X02	55SS09-000X	55SS09-0X02

37/Soil/PCB

55SB01-0204	55SB02-0204	55SB02-0406	55SB03-0204
55SB04-0204	55SB04-0204D	55SB05-0204	55SB05-0406
55SB06-0204	55SB07-0204	55SB08-0204	55SB08-0406
55SB09-0204	55SB10-0204	55SS01-000X	55SS01-0X02
55SS02-000X	55SS02-0X02	55SS03-000X	55SS03-000XD
55SS03-0X02	55SS04-000X	55SS04-000XD	55SS04-0X02
55SS04-0X02D	55SS05-000X	55SS05-0X02	55SSS06-000X
55SS06-0X02	55SS07-000X	55SS07-0X02	55SS08-000X
55SS08-0X02	55SS09-000X	55SS09-0X02	55SS10-000X
55SS10-0X02			

OVERVIEW

The sample set for NAS Jacksonville, CTO JM19, SDG 1108171 consists of ten (10) soil environmental samples and one (1) trip blank analyzed for volatile organic compounds (VOCs). Sixteen (16) soil environmental samples were analyzed for semivolatile organic compounds (SVOCs) and polycyclic aromatic hydrocarbons (PAHs). Thirty seven (37) soil environmental samples were analyzed for polychlorinated biphenyls (PCBs). There are four (4) field duplicate pairs contained within this SDG: 55SB04-0204/55SB04-0204D, 55SS04-0X02/55SS04-0X02D, 55SS03-000X/55SS03-000XD and 55SS04-000X/55SS04-000XD.

The samples were collected by TetraTech NUS on August 11 and 12, 2011 and analyzed by Empirical Laboratories, LLC. Analyses were conducted using SW-846 method 8260B for VOCs, 8270C for SVOCs and PAHs and 8082A for PCBs analytical and reporting protocols. The data were evaluated based on the following parameters:

- Data Completeness
- * Holding Times
- * GC/MS Tuning
- Initial and Continuing Calibration Verification Results
- * Blank Results
- * Surrogate Recoveries
- Matrix Spike / Matrix Spike Duplicate Results
- Laboratory Control Sample /Laboratory Control Sample Duplicate Results
- * Internal Standards
- * Detection Limits
- * Compound Identification
- * Field Duplicate Precision
- * Analyte Quantitation

* - 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.

VOCs

The continuing calibration percent difference (%D) for dichlorodifluoromethane was greater than the 20% quality control limit on August 18, 2011 @ 8:01. The nondetected dichlorodifluoromethane result in the affected Trip Blank #0150 was qualified as estimated (UJ).

The percent recoveries (%Rs) of acetone, 2-butanone and 2-hexanone exceeded quality control limit in laboratory control sample (LCS) associated with batch 1H2003 affecting the soil samples. The positive acetone results were qualified as estimated (J). No action was taken on the nondetected acetone, 2-butanone and 2-hexanone results.

The matrix spike (MS) %Rs of 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, styrene, 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were less than the lower quality control limit in sample 55SS09-0X02. The MS %R of methyl acetate was 0%. The relative percent differences (%RPDs) exceeded quality control limits for 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, styrene1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene and 2-hexanone. The matrix spike duplicate (MSD) %R of 1,2-dichlorobenzene was less than the lower quality control limit. The nondetected 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, styrene, 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were qualified as estimated (UJ). The nondetected methyl acetate result was qualified as estimated (UJ).

SVOCs/PAHs

The continuing calibration %Ds for benzo(b)fluoranthene butyl benzyl phthalate, 2-chloronaphthalene, 3,3'-dichlrobenzidine, di-n-octylphthalate and bis(2-ethylhexyl)phthalate were greater than the 20% quality control limit on August 31, 2011 @ 21:45. The nondetected results of the aforementioned compounds were qualified as estimated (UJ) in the affected samples 55SB04-0204D, 55SS07-0X02, 55SB07-0204, 55SS09-0X02, 55SS03-0X02 and 55SB03-0204.

The continuing calibration %Ds for atrazine, benzaldhyde, benzo(b)fluoranthene, butyl benzyl phthalate, 3,3'-dichlorobenzidine, di-n-ocytlphthalate and bis(2-ethylhexyl)phthalate were greater than the 20% quality control limit on September 1, 2011 @ 9:51. The positive and nondetected results of the aforementioned compounds were qualified as estimated (J) and (UJ), respectively in the affected samples 55SS07-000X, 55SS03-000X and 55SS03-000XD.

The continuing calibration %Ds for benzo(b)fluoranthene, butyl benzyl phthalate, 3,3'-dichlorobenzidine, di-n-octyl-phthalate and bis(2-ethylhexyl)phthalate were greater than the 20% quality control limit on September 1, 2011 @ 23:11 and September 4, 2011 @ 18:26. The nondetected results of the aforementioned compounds were qualified as estimated (UJ) in the affected samples 55SB09-0204, 55SS09-000X, 55SS04-000X, 55SS04-000XD, 55SB04-0204, 55SS04-0X02D and 55SS04-0X02.

The %Rs of base/neutral surrogates 2-fluorobiphenyl and nitrobenzene-d5 and acid surrogates 2-fluorophenol and phenol-d6 were less than the lower quality control limit in samples 55SS04-000X and 55SS04-000XD. The nondetected results were qualified as estimated (UJ) in samples 55SS04-000X and 55SS04-000XD.

PCBs

The following samples had %R of surrogates outside quality control limits.

Sample	Surrogate	Column 1	Column 2	Validation Action
55SB02-0406	TCX	< LL	< LL	Nondetects (UJ)
	DCB	< LL	< LL	
55SS04-000X	TCX	< LL	< LL	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SS04-000XD	TCX	< LL	< LL	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SS04-0X02D	TCX	< LL	< LL	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SB04-0204	TCX	< LL	< LL	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SB04-0204D	DCB	< LL	< LL	Nondetects (UJ)
55SS07-000X	TCX	< LL	< LL	Nondetects (UJ)
	DCB	< LL	< LL	
55SS07-0X02	TCX	< LL	< LL	Nondetects (UJ)
	DCB	< LL	< LL	
55SB07-0204	TCX	< LL	< LL	Nondetects (UJ)
	DCB	< LL	< LL	
55SS03-000X	TCX	< LL	Ok	No action
	DCB	< LL	Ok	
55SS03-000XD	TCX	< LL	Ok	No action
	DCB	< LL	Ok	
55SS03-0X02	TCX	< LL	Ok	Nondetects (UJ)
	DCB	< LL	< LL	
55SB03-0204	TCX	< LL	< LL	Nondetects (UJ)
	DCB	< LL	< LL	
55SS04-0X02	TCX	< LL	< LL	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SB01-0204	TCX	< LL	Ok	No action
	DCB	< LL	Ok	

55SS10-000X	TCX	< LL	Ok	No action
	DCB	< LL	Ok	
55SS10-0X02	TCX	< LL	Ok	No action
	DCB	< LL	Ok	
55SS05-000X	TCX	< LL	Ok	No action
	DCB	< LL	Ok	
55SB05-0204	TCX	< LL	Ok	No action
55SS06-000X	TCX	< LL	Ok	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SS08-000X	DCB	< LL	Ok	No action
55SS08-0X02	TCX	< LL	< LL	Positive (J)
	DCB	< LL	< LL	Nondetects (UJ)
55SB08-0204	TCX	< LL	Ok	No action
	DCB	< LL	Ok	
55SB08-0406	TCX	< LL	Ok	No action
55SS02-000X	TCX	< LL	Ok	Positive (J)
	DCB	< LL	<LL	Nondetects (UJ)

The MS/MSD %Rs of Aroclor 1260 was less than the lower quality control limit on both columns in sample 55SS04-0X02. The positive Arolcor 1260 result in sample 55SS04-0X02 was qualified as estimated (J).

The RPD between columns was greater than 40% for Aroclor 1260 in sample 55SS06-000X. The positive Aroclor 1260 result in sample 55SS06-000X was qualified as estimated (J).

ADDITIONAL COMMENTS

The laboratory did not initially provide data for the PAH fractions in the SVOC data as requested in the SAP. The laboratory was contacted and provided the SVOC/PAH data necessary for data evaluation. The PAH data was performed using the higher level Full Scan methodology as part of the SVOC fraction. The laboratory also did not report the target analyte hexachloroethane. The laboratory provided the results in a revised pdf.

The %R of surrogate 2-fluorophenol was less than the lower quality control limit in sample 55SS04-0X02D. No action was taken because of this single surrogate noncompliance.

The continuing calibration %Ds for Aroclor 1016 and Aroclor 1260 exceeded the 20% quality control limit on August 22, 2011 @ 17:33 on column 2. No action was taken on the nondetected results or positive results reported from column 1.

The continuing calibration %D for Aroclor 1254 exceeded the 20% quality control limit on August 23, 2011 @ 00:23, August 24, 2011 @ 15:43 and August 29, 2011 @ 16:10 on column 2. No action was taken on the nondetected Aroclor 1254 results.

The continuing calibration %D for Aroclor 1016 exceeded quality control limit on column 1 on August 23, 2011. No action was taken on the nondetected Aroclor 1016 results.

Positive results reported below the limit of quantitation (LOQ) but above the method detection limit (MDL) were qualified as estimated, (J).

The nondetected results were reported to the method detection limit (MDL).

TO: A. Pate
FROM: A. Cognetti
SDG: 1108171
DATE; December 15, 2011

EXECUTIVE SUMMARY

Laboratory Performance Issues: Continuing calibration %Ds exceeded quality control limits for several analytes in the VOC, SVOC and PAH fractions. The LCS %R of acetone exceeded quality control limits. Surrogate recoveries were outside quality control limits in several samples in the PCB, SVOC and PAH fractions. The RPD between columns was greater than 40% for Aroclor 1260 in sample 55SS06-000X.

Other factors affecting data quality: Matrix spike noncompliances were found in the VOC fraction for sample 55SS09-0X02 and PCB fraction for sample 55SS04-0X02. Positive results reported below the LOQ but above the MDL were qualified as estimated. The laboratory did not provide the results of all target analytes.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (September 1999) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti
Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
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 = ICP PDS Recovery Noncompliance; 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 = RPD between columns/detectors >40% 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
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02686	NSAMPLE	55SB03-0204			55SB04-0204			55SB04-0204D			55SB07-0204		
SDG: 1108171	LAB_ID	1108171-33			1108171-25			1108171-26			1108171-29		
FRACTION: OV	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	71.3			96.6			80.8			80.6		
	DUP_OF							55SB04-0204					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,1,2,2-TETRACHLOROETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,1,2-TRICHLOROETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.91	U		2.67	U		2.67	U		2.33	U	
1,1-DICHLOROETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,1-DICHLOROETHENE		1.45	U		1.34	U		1.34	U		1.16	U	
1,2,3-TRICHLOROBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
1,2,4-TRICHLOROBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
1,2-DIBROMO-3-CHLOROPROPANE		2.91	U		2.67	U		2.67	U		2.33	U	
1,2-DIBROMOETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,2-DICHLOROBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
1,2-DICHLOROETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,2-DICHLOROPROPANE		1.45	U		1.34	U		1.34	U		1.16	U	
1,3-DICHLOROBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
1,4-DICHLOROBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
2-BUTANONE		2.91	U		2.67	U		2.67	U		2.33	U	
2-HEXANONE		1.45	U		1.34	U		1.34	U		1.16	U	
4-METHYL-2-PENTANONE		1.45	U		1.34	U		1.34	U		1.16	U	
ACETONE		32.4	J	E	22.7	J	E	22.1	J	E	42	J	E
BENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
BROMOCHLOROMETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
BROMODICHLOROMETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
BROMOFORM		1.45	U		1.34	U		1.34	U		1.16	U	
BROMOMETHANE		2.91	U		2.67	U		2.67	U		2.33	U	
CARBON DISULFIDE		1.45	U		1.34	U		1.34	U		1.16	U	
CARBON TETRACHLORIDE		1.45	U		1.34	U		1.34	U		1.16	U	
CHLOROBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
CHLORODIBROMOMETHANE		1.45	U		1.34	U		1.34	U		1.16	U	
CHLOROETHANE		2.91	U		2.67	U		2.67	U		2.33	U	
CHLOROFORM		1.45	U		1.34	U		1.34	U		1.16	U	
CHLOROMETHANE		2.91	U		2.67	U		2.67	U		2.33	U	
CIS-1,2-DICHLOROETHENE		1.45	U		1.34	U		1.34	U		1.16	U	
CIS-1,3-DICHLOROPROPENE		1.45	U		1.34	U		1.34	U		1.16	U	
CYCLOHEXANE		1.45	U		1.34	U		1.34	U		1.16	U	
DICHLORODIFLUOROMETHANE		2.91	U		2.67	U		2.67	U		2.33	U	

PROJ_NO: 02686	NSAMPLE	55SB09-0204			55SS03-0X02			55SS04-0X02			55SS04-0X02D		
SDG: 1108171	LAB_ID	1108171-36			1108171-32			1108171-38			1108171-24		
FRACTION: OV	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	72.9			74.0			67.8			68.4		
	DUP_OF										55SS04-0X02		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,1,2,2-TETRACHLOROETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,1,2-TRICHLOROETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		3.01	U		2.68	U		4.53	U		4.66	U	
1,1-DICHLOROETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,1-DICHLOROETHENE		1.51	U		1.34	U		2.26	U		2.33	U	
1,2,3-TRICHLOROBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
1,2,4-TRICHLOROBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
1,2-DIBROMO-3-CHLOROPROPANE		3.01	U		2.68	U		4.53	U		4.66	U	
1,2-DIBROMOETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,2-DICHLOROBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
1,2-DICHLOROETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,2-DICHLOROPROPANE		1.51	U		1.34	U		2.26	U		2.33	U	
1,3-DICHLOROBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
1,4-DICHLOROBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
2-BUTANONE		3.01	U		2.68	U		4.53	U		4.66	U	
2-HEXANONE		1.51	U		1.34	U		2.26	U		2.33	U	
4-METHYL-2-PENTANONE		1.51	U		1.34	U		2.26	U		2.33	U	
ACETONE		18.3	J	EP	126	J	E	115	J	E	105	J	E
BENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
BROMOCHLOROMETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
BROMODICHLOROMETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
BROMOFORM		1.51	U		1.34	U		2.26	U		2.33	U	
BROMOMETHANE		3.01	U		2.68	U		4.53	U		4.66	U	
CARBON DISULFIDE		1.51	U		4.02	J	P	2.26	U		2.33	U	
CARBON TETRACHLORIDE		1.51	U		1.34	U		2.26	U		2.33	U	
CHLOROBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
CHLORODIBROMOMETHANE		1.51	U		1.34	U		2.26	U		2.33	U	
CHLOROETHANE		3.01	U		2.68	U		4.53	U		4.66	U	
CHLOROFORM		1.51	U		1.34	U		2.26	U		2.33	U	
CHLOROMETHANE		3.01	U		2.68	U		4.53	U		4.66	U	
CIS-1,2-DICHLOROETHENE		1.51	U		1.34	U		2.26	U		2.33	U	
CIS-1,3-DICHLOROPROPENE		1.51	U		1.34	U		2.26	U		2.33	U	
CYCLOHEXANE		1.51	U		1.34	U		2.26	U		2.33	U	
DICHLORODIFLUOROMETHANE		3.01	U		2.68	U		4.53	U		4.66	U	

PROJ_NO: 02686	NSAMPLE	55SS07-0X02			55SS09-0X02		
SDG: 1108171	LAB_ID	1108171-28			1108171-35		
FRACTION: OV	SAMP_DATE	8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM		
	UNITS	UG/KG			UG/KG		
	PCT_SOLIDS	77.5			69.4		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.26	U		1.43	U	
1,1,2,2-TETRACHLOROETHANE		1.26	U		1.43	U	
1,1,2-TRICHLOROETHANE		1.26	U		1.43	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.53	U		2.86	U	
1,1-DICHLOROETHANE		1.26	U		1.43	U	
1,1-DICHLOROETHENE		1.26	U		1.43	U	
1,2,3-TRICHLOROBENZENE		1.26	U		1.43	UJ	D
1,2,4-TRICHLOROBENZENE		1.26	U		1.43	UJ	D
1,2-DIBROMO-3-CHLOROPROPANE		2.53	U		2.86	U	
1,2-DIBROMOETHANE		1.26	U		1.43	U	
1,2-DICHLOROBENZENE		1.26	U		1.43	UJ	D
1,2-DICHLOROETHANE		1.26	U		1.43	U	
1,2-DICHLOROPROPANE		1.26	U		1.43	U	
1,3-DICHLOROBENZENE		1.26	U		1.43	UJ	D
1,4-DICHLOROBENZENE		1.26	U		1.43	UJ	D
2-BUTANONE		2.53	U		2.86	U	
2-HEXANONE		1.26	U		1.43	U	
4-METHYL-2-PENTANONE		1.26	U		1.43	U	
ACETONE		38.9	J	E	19.7	J	EP
BENZENE		1.26	U		1.43	U	
BROMOCHLOROMETHANE		1.26	U		1.43	U	
BROMODICHLOROMETHANE		1.26	U		1.43	U	
BROMOFORM		1.26	U		1.43	U	
BROMOMETHANE		2.53	U		2.86	U	
CARBON DISULFIDE		1.48	J	P	1.43	U	
CARBON TETRACHLORIDE		1.26	U		1.43	U	
CHLOROBENZENE		1.26	U		1.43	U	
CHLORODIBROMOMETHANE		1.26	U		1.43	U	
CHLOROETHANE		2.53	U		2.86	U	
CHLOROFORM		1.26	U		1.43	U	
CHLOROMETHANE		2.53	U		2.86	U	
CIS-1,2-DICHLOROETHENE		1.26	U		1.43	U	
CIS-1,3-DICHLOROPROPENE		1.26	U		1.43	U	
CYCLOHEXANE		1.26	U		1.43	U	
DICHLORODIFLUOROMETHANE		2.53	U		2.86	U	

PROJ_NO: 02686	NSAMPLE	55SB03-0204			55SB04-0204			55SB04-0204D			55SB07-0204		
SDG: 1108171	LAB_ID	1108171-33			1108171-25			1108171-26			1108171-29		
FRACTION: OV	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	71.3			96.6			80.8			80.6		
	DUP_OF							55SB04-0204					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHYLBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
ISOPROPYLBENZENE		1.45	U		1.34	U		1.34	U		1.16	U	
M+P-XYLENES		2.91	U		2.67	U		2.67	U		2.33	U	
METHYL ACETATE		2.91	U		2.67	U		2.67	U		2.33	U	
METHYL CYCLOHEXANE		1.45	U		1.34	U		1.34	U		1.16	U	
METHYL TERT-BUTYL ETHER		1.45	U		1.34	U		1.34	U		1.16	U	
METHYLENE CHLORIDE		7.44	J	P	6.26	J	P	6.04	J	P	4.46	J	P
O-XYLENE		1.45	U		1.34	U		1.34	U		1.16	U	
STYRENE		1.45	U		1.34	U		1.34	U		1.16	U	
TETRACHLOROETHENE		1.45	U		1.34	U		1.34	U		1.16	U	
TOLUENE		1.45	U		1.34	U		1.34	U		1.16	U	
TRANS-1,2-DICHLOROETHENE		1.45	U		1.34	U		1.34	U		1.16	U	
TRANS-1,3-DICHLOROPROPENE		1.45	U		1.34	U		1.34	U		1.16	U	
TRICHLOROETHENE		1.45	U		1.34	U		1.34	U		1.16	U	
TRICHLOROFLUOROMETHANE		2.91	U		2.67	U		2.67	U		2.33	U	
VINYL CHLORIDE		1.45	U		1.34	U		1.34	U		1.16	U	

PROJ_NO: 02686	NSAMPLE	55SB09-0204			55SS03-0X02			55SS04-0X02			55SS04-0X02D		
SDG: 1108171	LAB_ID	1108171-36			1108171-32			1108171-38			1108171-24		
FRACTION: OV	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	72.9			74.0			67.8			68.4		
	DUP_OF										55SS04-0X02		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHYLBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
ISOPROPYLBENZENE		1.51	U		1.34	U		2.26	U		2.33	U	
M+P-XYLENES		3.01	U		2.68	U		4.53	U		4.66	U	
METHYL ACETATE		3.01	U		2.68	U		4.53	U		4.66	U	
METHYL CYCLOHEXANE		1.51	U		1.34	U		2.26	U		2.33	U	
METHYL TERT-BUTYL ETHER		1.51	U		1.34	U		2.26	U		2.33	U	
METHYLENE CHLORIDE		6.71	J	P	6.18	J	P	19.6			14.7	J	P
O-XYLENE		1.51	U		1.34	U		2.26	U		2.33	U	
STYRENE		1.51	U		1.34	U		2.26	U		2.33	U	
TETRACHLOROETHENE		1.51	U		1.34	U		2.26	U		2.33	U	
TOLUENE		1.51	U		1.34	U		2.26	U		2.33	U	
TRANS-1,2-DICHLOROETHENE		1.51	U		1.34	U		2.26	U		2.33	U	
TRANS-1,3-DICHLOROPROPENE		1.51	U		1.34	U		2.26	U		2.33	U	
TRICHLOROETHENE		1.51	U		1.34	U		2.26	U		2.33	U	
TRICHLOROFLUOROMETHANE		3.01	U		2.68	U		4.53	U		4.66	U	
VINYL CHLORIDE		1.51	U		1.34	U		2.26	U		2.33	U	

PROJ_NO: 02686	NSAMPLE	55SS07-0X02			55SS09-0X02		
SDG: 1108171	LAB_ID	1108171-28			1108171-35		
FRACTION: OV	SAMP_DATE	8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM		
	UNITS	UG/KG			UG/KG		
	PCT_SOLIDS	77.5			69.4		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHYLBENZENE		1.26	U		1.43	U	
ISOPROPYLBENZENE		1.26	U		1.43	U	
M+P-XYLENES		2.53	U		2.86	U	
METHYL ACETATE		2.53	U		2.86	UJ	D
METHYL CYCLOHEXANE		1.26	U		1.43	U	
METHYL TERT-BUTYL ETHER		1.26	U		1.43	U	
METHYLENE CHLORIDE		6.06	J	P	5.05	J	P
O-XYLENE		1.26	U		1.43	U	
STYRENE		1.26	U		1.43	UJ	D
TETRACHLOROETHENE		1.26	U		1.43	U	
TOLUENE		1.26	U		1.43	U	
TRANS-1,2-DICHLOROETHENE		1.26	U		1.43	U	
TRANS-1,3-DICHLOROPROPENE		1.26	U		1.43	U	
TRICHLOROETHENE		1.26	U		1.43	U	
TRICHLOROFLUOROMETHANE		2.53	U		2.86	U	
VINYL CHLORIDE		1.26	U		1.43	U	

PROJ_NO: 02686	NSAMPLE	TRIP BLANK #0150
SDG: 1108171	LAB_ID	1108171-37
FRACTION: OV	SAMP_DATE	8/12/2011
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.25	U	
1,1,2,2-TETRACHLOROETHANE	0.25	U	
1,1,2-TRICHLOROETHANE	0.25	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U	
1,1-DICHLOROETHANE	0.25	U	
1,1-DICHLOROETHENE	0.25	U	
1,2,3-TRICHLOROBENZENE	0.25	U	
1,2,4-TRICHLOROBENZENE	0.25	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U	
1,2-DIBROMOETHANE	0.24	U	
1,2-DICHLOROBENZENE	0.16	U	
1,2-DICHLOROETHANE	0.25	U	
1,2-DICHLOROPROPANE	0.25	U	
1,3-DICHLOROBENZENE	0.25	U	
1,4-DICHLOROBENZENE	0.25	U	
2-BUTANONE	2.5	U	
2-HEXANONE	1.25	U	
4-METHYL-2-PENTANONE	1.25	U	
ACETONE	2.5	U	
BENZENE	0.25	U	
BROMOCHLOROMETHANE	0.25	U	
BROMODICHLOROMETHANE	0.25	U	
BROMOFORM	0.25	U	
BROMOMETHANE	0.5	U	
CARBON DISULFIDE	0.25	U	
CARBON TETRACHLORIDE	0.25	U	
CHLOROBENZENE	0.25	U	
CHLORODIBROMOMETHANE	0.25	U	
CHLOROETHANE	0.5	U	
CHLOROFORM	0.25	U	
CHLOROMETHANE	0.25	U	
CIS-1,2-DICHLOROETHENE	0.25	U	
CIS-1,3-DICHLOROPROPENE	0.25	U	
CYCLOHEXANE	0.25	U	
DICHLORODIFLUOROMETHANE	0.5	UJ	C

PROJ_NO: 02686	NSAMPLE	TRIP BLANK #0150
SDG: 1108171	LAB_ID	1108171-37
FRACTION: OV	SAMP_DATE	8/12/2011
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
ETHYLBENZENE	0.25	U	
ISOPROPYLBENZENE	0.25	U	
M+P-XYLENES	0.5	U	
METHYL ACETATE	0.5	U	
METHYL CYCLOHEXANE	0.25	U	
METHYL TERT-BUTYL ETHER	0.25	U	
METHYLENE CHLORIDE	0.5	U	
O-XYLENE	0.25	U	
STYRENE	0.25	U	
TETRACHLOROETHENE	0.25	U	
TOLUENE	0.25	U	
TRANS-1,2-DICHLOROETHENE	0.5	U	
TRANS-1,3-DICHLOROPROPENE	0.25	U	
TRICHLOROETHENE	0.25	U	
TRICHLOROFLUOROMETHANE	0.5	U	
VINYL CHLORIDE	0.25	U	

PROJ_NO: 02686	NSAMPLE	55SB03-0204			55SB04-0204			55SB04-0204D			55SB07-0204		
SDG: 1108171	LAB_ID	1108171-33			1108171-25			1108171-26			1108171-29		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	71.3			96.6			80.8			80.6		
	DUP_OF							55SB04-0204					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		112	U		170	U		100	U		103	U	
1,2,4,5-TETRACHLOROBENZENE		112	U		170	U		100	U		103	U	
1,4-DIOXANE		112	U		170	U		100	U		103	U	
1-METHYLNAPHTHALENE		112	U		170	U		100	U		103	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		112	U		170	U		100	U		103	U	
2,3,4,6-TETRACHLOROPHENOL		112	U		170	U		100	U		103	U	
2,4,5-TRICHLOROPHENOL		112	U		170	U		100	U		103	U	
2,4,6-TRICHLOROPHENOL		112	U		170	U		100	U		103	U	
2,4-DICHLOROPHENOL		112	U		170	U		100	U		103	U	
2,4-DIMETHYLPHENOL		447	U		680	U		401	U		410	U	
2,4-DINITROPHENOL		1120	U		1700	U		1000	U		1030	U	
2,4-DINITROTOLUENE		112	U		170	U		100	U		103	U	
2,6-DINITROTOLUENE		112	U		170	U		100	U		103	U	
2-CHLORONAPHTHALENE		112	UJ	C	170	U		100	UJ	C	103	UJ	C
2-CHLOROPHENOL		112	U		170	U		100	U		103	U	
2-METHYLNAPHTHALENE		112	U		170	U		100	U		103	U	
2-METHYLPHENOL		112	U		170	U		100	U		103	U	
2-NITROANILINE		447	U		680	U		401	U		410	U	
2-NITROPHENOL		112	U		170	U		100	U		103	U	
3,3'-DICHLOROBENZIDINE		112	UJ	C	170	UJ	C	100	UJ	C	103	UJ	C
3-NITROANILINE		447	U		680	U		401	U		410	U	
4,6-DINITRO-2-METHYLPHENOL		1120	U		1700	U		1000	U		1030	U	
4-BROMOPHENYL PHENYL ETHER		112	U		170	U		100	U		103	U	
4-CHLORO-3-METHYLPHENOL		112	U		170	U		100	U		103	U	
4-CHLOROANILINE		112	U		170	U		100	U		103	U	
4-CHLOROPHENYL PHENYL ETHER		112	U		170	U		100	U		103	U	
4-METHYLPHENOL		112	U		170	U		100	U		103	U	
4-NITROANILINE		447	U		680	U		401	U		410	U	
4-NITROPHENOL		447	U		680	U		401	U		410	U	
ACENAPHTHENE		112	U		170	U		100	U		103	U	
ACENAPHTHYLENE		112	U		170	U		100	U		103	U	
ACETOPHENONE		112	U		170	U		100	U		103	U	
ANTHRACENE		112	U		170	U		100	U		103	U	
ATRAZINE		112	U		170	U		100	U		103	U	
BENZALDEHYDE		112	U		170	U		100	U		103	U	

PROJ_NO: 02686	NSAMPLE	55SB09-0204			55SS03-000X			55SS03-000XD			55SS03-0X02		
SDG: 1108171	LAB_ID	1108171-36			1108171-30			1108171-31			1108171-32		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	72.9			84.8			84.3			74.0		
	DUP_OF							55SS03-000X					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		111	U		96.3	U		96.2	U		110	U	
1,2,4,5-TETRACHLOROBENZENE		111	U		96.3	U		96.2	U		110	U	
1,4-DIOXANE		111	U		96.3	U		96.2	U		110	U	
1-METHYLNAPHTHALENE		111	U		96.3	U		96.2	U		110	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		111	U		96.3	U		96.2	U		110	U	
2,3,4,6-TETRACHLOROPHENOL		111	U		96.3	U		96.2	U		110	U	
2,4,5-TRICHLOROPHENOL		111	U		96.3	U		96.2	U		110	U	
2,4,6-TRICHLOROPHENOL		111	U		96.3	U		96.2	U		110	U	
2,4-DICHLOROPHENOL		111	U		96.3	U		96.2	U		110	U	
2,4-DIMETHYLPHENOL		445	U		385	U		385	U		438	U	
2,4-DINITROPHENOL		1110	U		963	U		962	U		1100	U	
2,4-DINITROTOLUENE		111	U		96.3	U		96.2	U		110	U	
2,6-DINITROTOLUENE		111	U		96.3	U		96.2	U		110	U	
2-CHLORONAPHTHALENE		111	U		96.3	U		96.2	U		110	UJ	C
2-CHLOROPHENOL		111	U		96.3	U		96.2	U		110	U	
2-METHYLNAPHTHALENE		111	U		96.3	U		96.2	U		110	U	
2-METHYLPHENOL		111	U		96.3	U		96.2	U		110	U	
2-NITROANILINE		445	U		385	U		385	U		438	U	
2-NITROPHENOL		111	U		96.3	U		96.2	U		110	U	
3,3'-DICHLOROBENZIDINE		111	UJ	C	96.3	UJ	C	96.2	UJ	C	110	UJ	C
3-NITROANILINE		445	U		385	U		385	U		438	U	
4,6-DINITRO-2-METHYLPHENOL		1110	U		963	U		962	U		1100	U	
4-BROMOPHENYL PHENYL ETHER		111	U		96.3	U		96.2	U		110	U	
4-CHLORO-3-METHYLPHENOL		111	U		96.3	U		96.2	U		110	U	
4-CHLOROANILINE		111	U		96.3	U		96.2	U		110	U	
4-CHLOROPHENYL PHENYL ETHER		111	U		96.3	U		96.2	U		110	U	
4-METHYLPHENOL		111	U		96.3	U		96.2	U		110	U	
4-NITROANILINE		445	U		385	U		385	U		438	U	
4-NITROPHENOL		445	U		385	U		385	U		438	U	
ACENAPHTHENE		111	U		96.3	U		96.2	U		110	U	
ACENAPHTHYLENE		111	U		96.3	U		96.2	U		110	U	
ACETOPHENONE		111	U		96.3	U		96.2	U		110	U	
ANTHRACENE		111	U		96.3	U		96.2	U		110	U	
ATRAZINE		111	U		96.3	UJ	C	96.2	UJ	C	110	U	
BENZALDEHYDE		111	U		635	J	C	470	J	C	110	U	

PROJ_NO: 02686	NSAMPLE	55SS04-000X			55SS04-000XD			55SS04-0X02			55SS04-0X02D		
SDG: 1108171	LAB_ID	1108171-22			1108171-23			1108171-38			1108171-24		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	73.0			65.3			67.8			68.4		
	DUP_OF				55SS04-000X						55SS04-0X02		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		228	UJ	R	247	UJ	R	242	U		237	U	
1,2,4,5-TETRACHLOROBENZENE		228	UJ	R	247	UJ	R	242	U		237	U	
1,4-DIOXANE		228	UJ	R	247	UJ	R	242	U		237	U	
1-METHYLNAPHTHALENE		228	UJ	R	247	UJ	R	242	U		237	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		228	UJ	R	247	UJ	R	242	U		237	U	
2,3,4,6-TETRACHLOROPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
2,4,5-TRICHLOROPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
2,4,6-TRICHLOROPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
2,4-DICHLOROPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
2,4-DIMETHYLPHENOL		912	UJ	R	987	UJ	R	969	U		949	U	
2,4-DINITROPHENOL		2280	UJ	R	2470	UJ	R	2420	U		2370	U	
2,4-DINITROTOLUENE		228	UJ	R	247	UJ	R	242	U		237	U	
2,6-DINITROTOLUENE		228	UJ	R	247	UJ	R	242	U		237	U	
2-CHLORONAPHTHALENE		228	UJ	R	247	UJ	R	242	U		237	U	
2-CHLOROPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
2-METHYLNAPHTHALENE		228	UJ	R	247	UJ	R	242	U		237	U	
2-METHYLPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
2-NITROANILINE		912	UJ	R	987	UJ	R	969	U		949	U	
2-NITROPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
3,3'-DICHLOROBENZIDINE		228	UJ	CR	247	UJ	CR	242	UJ	C	237	UJ	C
3-NITROANILINE		912	UJ	R	987	UJ	R	969	U		949	U	
4,6-DINITRO-2-METHYLPHENOL		2280	UJ	R	2470	UJ	R	2420	U		2370	U	
4-BROMOPHENYL PHENYL ETHER		228	UJ	R	247	UJ	R	242	U		237	U	
4-CHLORO-3-METHYLPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
4-CHLOROANILINE		228	UJ	R	247	UJ	R	242	U		237	U	
4-CHLOROPHENYL PHENYL ETHER		228	UJ	R	247	UJ	R	242	U		237	U	
4-METHYLPHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
4-NITROANILINE		912	UJ	R	987	UJ	R	969	U		949	U	
4-NITROPHENOL		912	UJ	R	987	UJ	R	969	U		949	U	
ACENAPHTHENE		228	UJ	R	247	UJ	R	242	U		237	U	
ACENAPHTHYLENE		228	UJ	R	247	UJ	R	242	U		237	U	
ACETOPHENONE		228	UJ	R	247	UJ	R	242	U		237	U	
ANTHRACENE		228	UJ	R	247	UJ	R	242	U		237	U	
ATRAZINE		228	UJ	R	247	UJ	R	242	U		237	U	
BENZALDEHYDE		228	UJ	R	247	UJ	R	242	U		237	U	

PROJ_NO: 02686	NSAMPLE	55SS07-000X			55SS07-0X02			55SS09-000X			55SS09-0X02		
SDG: 1108171	LAB_ID	1108171-27			1108171-28			1108171-34			1108171-35		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	83.3			77.5			68.3			69.4		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		98.7	U		102	U		118	U		118	U	
1,2,4,5-TETRACHLOROBENZENE		98.7	U		102	U		118	U		118	U	
1,4-DIOXANE		98.7	U		102	U		118	U		118	U	
1-METHYLNAPHTHALENE		98.7	U		102	U		118	U		118	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		98.7	U		102	U		118	U		118	U	
2,3,4,6-TETRACHLOROPHENOL		98.7	U		102	U		118	U		118	U	
2,4,5-TRICHLOROPHENOL		98.7	U		102	U		118	U		118	U	
2,4,6-TRICHLOROPHENOL		98.7	U		102	U		118	U		118	U	
2,4-DICHLOROPHENOL		98.7	U		102	U		118	U		118	U	
2,4-DIMETHYLPHENOL		394	U		408	U		471	U		474	U	
2,4-DINITROPHENOL		987	U		1020	U		1180	U		1180	U	
2,4-DINITROTOLUENE		98.7	U		102	U		118	U		118	U	
2,6-DINITROTOLUENE		98.7	U		102	U		118	U		118	U	
2-CHLORONAPHTHALENE		98.7	U		102	UJ	C	118	U		118	UJ	C
2-CHLOROPHENOL		98.7	U		102	U		118	U		118	U	
2-METHYLNAPHTHALENE		98.7	U		102	U		118	U		118	U	
2-METHYLPHENOL		98.7	U		102	U		118	U		118	U	
2-NITROANILINE		394	U		408	U		471	U		474	U	
2-NITROPHENOL		98.7	U		102	U		118	U		118	U	
3,3'-DICHLOROBENZIDINE		98.7	UJ	C	102	UJ	C	118	UJ	C	118	UJ	C
3-NITROANILINE		394	U		408	U		471	U		474	U	
4,6-DINITRO-2-METHYLPHENOL		987	U		1020	U		1180	U		1180	U	
4-BROMOPHENYL PHENYL ETHER		98.7	U		102	U		118	U		118	U	
4-CHLORO-3-METHYLPHENOL		98.7	U		102	U		118	U		118	U	
4-CHLOROANILINE		98.7	U		102	U		118	U		118	U	
4-CHLOROPHENYL PHENYL ETHER		98.7	U		102	U		118	U		118	U	
4-METHYLPHENOL		98.7	U		102	U		118	U		118	U	
4-NITROANILINE		394	U		408	U		471	U		474	U	
4-NITROPHENOL		394	U		408	U		471	U		474	U	
ACENAPHTHENE		98.7	U		102	U		118	U		118	U	
ACENAPHTHYLENE		98.7	U		102	U		118	U		118	U	
ACETOPHENONE		98.7	U		102	U		118	U		118	U	
ANTHRACENE		98.7	U		102	U		118	U		118	U	
ATRAZINE		98.7	UJ	C	102	U		118	U		118	U	
BENZALDEHYDE		98.7	UJ	C	102	U		118	U		118	U	

PROJ_NO: 02686	NSAMPLE	55SB03-0204			55SB04-0204			55SB04-0204D			55SB07-0204		
SDG: 1108171	LAB_ID	1108171-33			1108171-25			1108171-26			1108171-29		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	71.3			96.6			80.8			80.6		
	DUP_OF							55SB04-0204					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(A)ANTHRACENE		112	U		170	U		100	U		103	U	
BENZO(A)PYRENE		112	U		170	U		100	U		103	U	
BENZO(B)FLUORANTHENE		112	UJ	C	170	UJ	C	100	UJ	C	103	UJ	C
BENZO(G,H,I)PERYLENE		112	U		170	U		100	U		103	U	
BENZO(K)FLUORANTHENE		112	U		170	U		100	U		103	U	
BIS(2-CHLOROETHOXY)METHANE		112	U		170	U		100	U		103	U	
BIS(2-CHLOROETHYL)ETHER		112	U		170	U		100	U		103	U	
BIS(2-ETHYLHEXYL)PHTHALATE		112	UJ	C	170	UJ	C	100	UJ	C	103	UJ	C
BUTYL BENZYL PHTHALATE		112	UJ	C	170	UJ	C	100	UJ	C	103	UJ	C
CAPROLACTAM		112	U		170	U		100	U		103	U	
CARBAZOLE		112	U		170	U		100	U		103	U	
CHRYSENE		112	U		170	U		100	U		103	U	
DIBENZO(A,H)ANTHRACENE		112	U		170	U		100	U		103	U	
DIBENZOFURAN		112	U		170	U		100	U		103	U	
DIETHYL PHTHALATE		112	U		170	U		100	U		103	U	
DIMETHYL PHTHALATE		112	U		170	U		100	U		103	U	
DI-N-BUTYL PHTHALATE		112	U		170	U		100	U		103	U	
DI-N-OCTYL PHTHALATE		112	UJ	C	170	UJ	C	100	UJ	C	103	UJ	C
FLUORANTHENE		112	U		170	U		100	U		103	U	
FLUORENE		112	U		170	U		100	U		103	U	
HEXACHLOROBENZENE		112	U		170	U		100	U		103	U	
HEXACHLOROBUTADIENE		112	U		170	U		100	U		103	U	
HEXACHLOROCYCLOPENTADIENE		112	U		170	U		100	U		103	U	
HEXACHLOROETHANE		112	U		170	U		100	U		103	U	
INDENO(1,2,3-CD)PYRENE		112	U		170	U		100	U		103	U	
ISOPHORONE		112	U		170	U		100	U		103	U	
NAPHTHALENE		112	U		170	U		100	U		103	U	
NITROBENZENE		112	U		170	U		100	U		103	U	
N-NITROSO-DI-N-PROPYLAMINE		112	U		170	U		100	U		103	U	
N-NITROSODIPHENYLAMINE		112	U		170	U		100	U		103	U	
PENTACHLOROPHENOL		447	U		680	U		401	U		410	U	
PHENANTHRENE		112	U		170	U		100	U		103	U	
PHENOL		112	U		170	U		100	U		103	U	
PYRENE		112	U		170	U		100	U		103	U	

PROJ_NO: 02686	NSAMPLE	55SB09-0204			55SS03-000X			55SS03-000XD			55SS03-0X02		
SDG: 1108171	LAB_ID	1108171-36			1108171-30			1108171-31			1108171-32		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	72.9			84.8			84.3			74.0		
	DUP_OF							55SS03-000X					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(A)ANTHRACENE		111	U		96.3	U		96.2	U		110	U	
BENZO(A)PYRENE		111	U		96.3	U		96.2	U		110	U	
BENZO(B)FLUORANTHENE		111	UJ	C	96.3	UJ	C	96.2	UJ	C	110	UJ	C
BENZO(G,H,I)PERYLENE		111	U		96.3	U		96.2	U		110	U	
BENZO(K)FLUORANTHENE		111	U		96.3	U		96.2	U		110	U	
BIS(2-CHLOROETHOXY)METHANE		111	U		96.3	U		96.2	U		110	U	
BIS(2-CHLOROETHYL)ETHER		111	U		96.3	U		96.2	U		110	U	
BIS(2-ETHYLHEXYL)PHTHALATE		111	UJ	C	96.3	UJ	C	96.2	UJ	C	110	UJ	C
BUTYL BENZYL PHTHALATE		111	UJ	C	96.3	UJ	C	96.2	UJ	C	110	UJ	C
CAPROLACTAM		111	U		96.3	U		96.2	U		110	U	
CARBAZOLE		111	U		96.3	U		96.2	U		110	U	
CHRYSENE		111	U		96.3	U		96.2	U		110	U	
DIBENZO(A,H)ANTHRACENE		111	U		96.3	U		96.2	U		110	U	
DIBENZOFURAN		111	U		96.3	U		96.2	U		110	U	
DIETHYL PHTHALATE		111	U		96.3	U		96.2	U		110	U	
DIMETHYL PHTHALATE		111	U		96.3	U		96.2	U		110	U	
DI-N-BUTYL PHTHALATE		111	U		96.3	U		96.2	U		110	U	
DI-N-OCTYL PHTHALATE		111	UJ	C	96.3	UJ	C	96.2	UJ	C	110	UJ	C
FLUORANTHENE		111	U		96.3	U		96.2	U		110	U	
FLUORENE		111	U		96.3	U		96.2	U		110	U	
HEXACHLOROBENZENE		111	U		96.3	U		96.2	U		110	U	
HEXACHLOROBUTADIENE		111	U		96.3	U		96.2	U		110	U	
HEXACHLOROCYCLOPENTADIENE		111	U		96.3	U		96.2	U		110	U	
HEXACHLOROETHANE		111	U		96.3	U		96.2	U		110	U	
INDENO(1,2,3-CD)PYRENE		111	U		96.3	U		96.2	U		110	U	
ISOPHORONE		111	U		96.3	U		96.2	U		110	U	
NAPHTHALENE		111	U		96.3	U		96.2	U		110	U	
NITROBENZENE		111	U		96.3	U		96.2	U		110	U	
N-NITROSO-DI-N-PROPYLAMINE		111	U		96.3	U		96.2	U		110	U	
N-NITROSODIPHENYLAMINE		111	U		96.3	U		96.2	U		110	U	
PENTACHLOROPHENOL		445	U		385	U		385	U		438	U	
PHENANTHRENE		111	U		96.3	U		96.2	U		110	U	
PHENOL		111	U		96.3	U		96.2	U		110	U	
PYRENE		111	U		96.3	U		96.2	U		110	U	

PROJ_NO: 02686	NSAMPLE	55SS04-000X			55SS04-000XD			55SS04-0X02			55SS04-0X02D		
SDG: 1108171	LAB_ID	1108171-22			1108171-23			1108171-38			1108171-24		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	73.0			65.3			67.8			68.4		
	DUP_OF				55SS04-000X						55SS04-0X02		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(A)ANTHRACENE		228	UJ	R	247	UJ	R	242	U		237	U	
BENZO(A)PYRENE		228	UJ	R	247	UJ	R	242	U		237	U	
BENZO(B)FLUORANTHENE		228	UJ	CR	247	UJ	CR	242	UJ	C	237	UJ	C
BENZO(G,H,I)PERYLENE		228	UJ	R	247	UJ	R	242	U		237	U	
BENZO(K)FLUORANTHENE		228	UJ	R	247	UJ	R	242	U		237	U	
BIS(2-CHLOROETHOXY)METHANE		228	UJ	R	247	UJ	R	242	U		237	U	
BIS(2-CHLOROETHYL)ETHER		228	UJ	R	247	UJ	R	242	U		237	U	
BIS(2-ETHYLHEXYL)PHTHALATE		228	UJ	CR	247	UJ	CR	242	UJ	C	237	UJ	C
BUTYL BENZYL PHTHALATE		228	UJ	CR	247	UJ	CR	242	UJ	C	237	UJ	C
CAPROLACTAM		228	UJ	R	247	UJ	R	242	U		237	U	
CARBAZOLE		228	UJ	R	247	UJ	R	242	U		237	U	
CHRYSENE		228	UJ	R	247	UJ	R	242	U		237	U	
DIBENZO(A,H)ANTHRACENE		228	UJ	R	247	UJ	R	242	U		237	U	
DIBENZOFURAN		228	UJ	R	247	UJ	R	242	U		237	U	
DIETHYL PHTHALATE		228	UJ	R	247	UJ	R	242	U		237	U	
DIMETHYL PHTHALATE		228	UJ	R	247	UJ	R	242	U		237	U	
DI-N-BUTYL PHTHALATE		228	UJ	R	247	UJ	R	242	U		237	U	
DI-N-OCTYL PHTHALATE		228	UJ	CR	247	UJ	CR	242	UJ	C	237	UJ	C
FLUORANTHENE		228	UJ	R	247	UJ	R	242	U		237	U	
FLUORENE		228	UJ	R	247	UJ	R	242	U		237	U	
HEXACHLOROBENZENE		228	UJ	R	247	UJ	R	242	U		237	U	
HEXACHLOROBUTADIENE		228	UJ	R	247	UJ	R	242	U		237	U	
HEXACHLOROCYCLOPENTADIENE		228	UJ	R	247	UJ	R	242	U		237	U	
HEXACHLOROETHANE		228	UJ	R	247	UJ	R	242	U		237	U	
INDENO(1,2,3-CD)PYRENE		228	UJ	R	247	UJ	R	242	U		237	U	
ISOPHORONE		228	UJ	R	247	UJ	R	242	U		237	U	
NAPHTHALENE		228	UJ	R	247	UJ	R	242	U		237	U	
NITROBENZENE		228	UJ	R	247	UJ	R	242	U		237	U	
N-NITROSO-DI-N-PROPYLAMINE		228	UJ	R	247	UJ	R	242	U		237	U	
N-NITROSODIPHENYLAMINE		228	UJ	R	247	UJ	R	242	U		237	U	
PENTACHLOROPHENOL		912	UJ	R	987	UJ	R	969	U		949	U	
PHENANTHRENE		228	UJ	R	247	UJ	R	242	U		237	U	
PHENOL		228	UJ	R	247	UJ	R	242	U		237	U	
PYRENE		228	UJ	R	247	UJ	R	242	U		237	U	

PROJ_NO: 02686	NSAMPLE	55SS07-000X			55SS07-0X02			55SS09-000X			55SS09-0X02		
SDG: 1108171	LAB_ID	1108171-27			1108171-28			1108171-34			1108171-35		
FRACTION: PAH	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	83.3			77.5			68.3			69.4		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(A)ANTHRACENE		98.7	U		102	U		118	U		118	U	
BENZO(A)PYRENE		98.7	U		102	U		118	U		118	U	
BENZO(B)FLUORANTHENE		117	J	CP	102	UJ	C	118	UJ	C	118	UJ	C
BENZO(G,H,I)PERYLENE		98.7	U		102	U		118	U		118	U	
BENZO(K)FLUORANTHENE		98.7	U		102	U		118	U		118	U	
BIS(2-CHLOROETHOXY)METHANE		98.7	U		102	U		118	U		118	U	
BIS(2-CHLOROETHYL)ETHER		98.7	U		102	U		118	U		118	U	
BIS(2-ETHYLHEXYL)PHTHALATE		98.7	UJ	C	102	UJ	C	118	UJ	C	118	UJ	C
BUTYL BENZYL PHTHALATE		98.7	UJ	C	102	UJ	C	118	UJ	C	118	UJ	C
CAPROLACTAM		98.7	U		102	U		118	U		118	U	
CARBAZOLE		98.7	U		102	U		118	U		118	U	
CHRYSENE		98.7	U		102	U		118	U		118	U	
DIBENZO(A,H)ANTHRACENE		98.7	U		102	U		118	U		118	U	
DIBENZOFURAN		98.7	U		102	U		118	U		118	U	
DIETHYL PHTHALATE		98.7	U		102	U		118	U		118	U	
DIMETHYL PHTHALATE		98.7	U		102	U		118	U		118	U	
DI-N-BUTYL PHTHALATE		98.7	U		102	U		118	U		118	U	
DI-N-OCTYL PHTHALATE		98.7	UJ	C	102	UJ	C	118	UJ	C	118	UJ	C
FLUORANTHENE		98.7	U		102	U		118	U		118	U	
FLUORENE		98.7	U		102	U		118	U		118	U	
HEXACHLOROBENZENE		98.7	U		102	U		118	U		118	U	
HEXACHLOROBUTADIENE		98.7	U		102	U		118	U		118	U	
HEXACHLOROCYCLOPENTADIENE		98.7	U		102	U		118	U		118	U	
HEXACHLOROETHANE		98.7	U		102	U		118	U		118	U	
INDENO(1,2,3-CD)PYRENE		98.7	U		102	U		118	U		118	U	
ISOPHORONE		98.7	U		102	U		118	U		118	U	
NAPHTHALENE		98.7	U		102	U		118	U		118	U	
NITROBENZENE		98.7	U		102	U		118	U		118	U	
N-NITROSO-DI-N-PROPYLAMINE		98.7	U		102	U		118	U		118	U	
N-NITROSODIPHENYLAMINE		98.7	U		102	U		118	U		118	U	
PENTACHLOROPHENOL		394	U		408	U		471	U		474	U	
PHENANTHRENE		98.7	U		102	U		118	U		118	U	
PHENOL		98.7	U		102	U		118	U		118	U	
PYRENE		98.7	U		102	U		118	U		118	U	

PROJ_NO: 02686	NSAMPLE	55SB01-0204			55SB02-0204			55SB02-0406			55SB03-0204		
SDG: 1108171	LAB_ID	1108171-03			1108171-20			1108171-21			1108171-33		
FRACTION: PCB	SAMP_DATE	8/11/2011			8/11/2011			8/11/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	65.9			79.9			79.3			71.3		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1221		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1232		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1242		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1248		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1254		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1260		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1262		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R
AROCLOR-1268		6.13	U		5.09	U		5.13	UJ	R	5.82	UJ	R

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SB04-0204			55SB04-0204D			55SB05-0204			55SB05-0406		
	LAB_ID	1108171-25			1108171-26			1108171-09			1108171-10		
	SAMP_DATE	8/12/2011			8/12/2011			8/11/2011			8/11/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	96.6			80.8			81.1			77.4		
	DUP_OF				55SB04-0204								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		4.29	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1221		4.29	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1232		4.29	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1242		4.29	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1248		63.3	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1254		63.3	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1260		61.3	J	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1262		63.3	UJ	R	5.13	UJ	R	4.95	U		5.25	U	
AROCLOR-1268		63.3	UJ	R	5.13	UJ	R	4.95	U		5.25	U	

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SB06-0204			55SB07-0204			55SB08-0204			55SB08-0406		
	LAB_ID	1108171-13			1108171-29			1108171-16			1108171-17		
	SAMP_DATE	8/11/2011			8/12/2011			8/11/2011			8/11/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	81.4			80.6			82.4			82.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1221		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1232		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1242		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1248		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1254		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1260		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1262		5.16	U		5.18	UJ	R	5.06	U		5.09	U	
AROCLOR-1268		5.16	U		5.18	UJ	R	5.06	U		5.09	U	

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SB09-0204			55SB10-0204			55SS01-000X			55SS01-0X02		
	LAB_ID	1108171-36			1108171-06			1108171-01			1108171-02		
	SAMP_DATE	8/12/2011			8/11/2011			8/11/2011			8/11/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	72.9			80.2			79.7			74.5		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1221		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1232		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1242		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1248		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1254		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1260		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1262		5.76	U		5	U		5.27	U		5.42	U	
AROCLOR-1268		5.76	U		5	U		5.27	U		5.42	U	

PROJ_NO: 02686	NSAMPLE	55SS02-000X			55SS02-0X02			55SS03-000X			55SS03-000XD		
SDG: 1108171	LAB_ID	1108171-18			1108171-19			1108171-30			1108171-31		
FRACTION: PCB	SAMP_DATE	8/11/2011			8/11/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	69.0			96.7			84.8			84.3		
	DUP_OF										55SS03-000X		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1221		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1232		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1242		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1248		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1254		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1260		365	J	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1262		519	UJ	R	4.31	U		4.89	U		4.91	U	
AROCLOR-1268		519	UJ	R	4.31	U		4.89	U		4.91	U	

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SS03-0X02			55SS04-000X			55SS04-000XD			55SS04-0X02		
	LAB_ID	1108171-32			1108171-22			1108171-23			1108171-38		
	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	74.0			73.0			65.3			67.8		
	DUP_OF							55SS04-000X					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		5.46	UJ	R	5.68	UJ	R	6.31	UJ	R	168	UJ	R
AROCLOR-1221		5.46	UJ	R	5.68	UJ	R	6.31	UJ	R	168	UJ	R
AROCLOR-1232		5.46	UJ	R	5.68	UJ	R	6.31	UJ	R	168	UJ	R
AROCLOR-1242		5.46	UJ	R	5.68	UJ	R	6.31	UJ	R	168	UJ	R
AROCLOR-1248		5.46	UJ	R	128	UJ	R	143	UJ	R	168	UJ	R
AROCLOR-1254		5.46	UJ	R	128	UJ	R	143	UJ	R	168	UJ	R
AROCLOR-1260		5.46	UJ	R	94.3	J	R	94.1	J	R	117	J	DR
AROCLOR-1262		5.46	UJ	R	128	UJ	R	143	UJ	R	168	UJ	R
AROCLOR-1268		5.46	UJ	R	128	UJ	R	143	UJ	R	168	UJ	R

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SS04-0X02D			55SS05-000X			55SS05-0X02			55SS06-000X		
	LAB_ID	1108171-24			1108171-07			1108171-08			1108171-11		
	SAMP_DATE	8/12/2011			8/11/2011			8/11/2011			8/11/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	68.4			85.5			83.9			64.6		
	DUP_OF	55SS04-0X02											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		6.02	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1221		6.02	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1232		6.02	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1242		6.02	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1248		118	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1254		118	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1260		81.5	J	R	4.85	U		4.91	U		138	J	RU
AROCLOR-1262		118	UJ	R	4.85	U		4.91	U		205	UJ	R
AROCLOR-1268		118	UJ	R	4.85	U		4.91	U		205	UJ	R

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SS06-0X02			55SS07-000X			55SS07-0X02			55SS08-000X		
	LAB_ID	1108171-12			1108171-27			1108171-28			1108171-14		
	SAMP_DATE	8/11/2011			8/12/2011			8/12/2011			8/11/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	64.9			83.3			77.5			61.4		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1221		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1232		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1242		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1248		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1254		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1260		75.7			4.97	UJ	R	5.17	UJ	R	499		
AROCLOR-1262		116	U		4.97	UJ	R	5.17	UJ	R	771	U	
AROCLOR-1268		116	U		4.97	UJ	R	5.17	UJ	R	771	U	

PROJ_NO: 02686 SDG: 1108171 FRACTION: PCB MEDIA: SOIL	NSAMPLE	55SS08-0X02			55SS09-000X			55SS09-0X02			55SS10-000X		
	LAB_ID	1108171-15			1108171-34			1108171-35			1108171-04		
	SAMP_DATE	8/11/2011			8/12/2011			8/12/2011			8/11/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	68.4			68.3			69.4			79.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1221		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1232		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1242		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1248		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1254		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1260		154	J	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1262		222	UJ	R	6.1	U		6.01	U		5.31	U	
AROCLOR-1268		222	UJ	R	6.1	U		6.01	U		5.31	U	

PROJ_NO: 02686	NSAMPLE	55SS10-0X02		
SDG: 1108171	LAB_ID	1108171-05		
FRACTION: PCB	SAMP_DATE	8/11/2011		
MEDIA: SOIL	QC_TYPE	NM		
	UNITS	UG/KG		
	PCT_SOLIDS	77.9		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
AROCLOR-1016		5.15	U	
AROCLOR-1221		5.15	U	
AROCLOR-1232		5.15	U	
AROCLOR-1242		5.15	U	
AROCLOR-1248		5.15	U	
AROCLOR-1254		5.15	U	
AROCLOR-1260		5.15	U	
AROCLOR-1262		5.15	U	
AROCLOR-1268		5.15	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ANALYSIS DATA SHEET

55SB03-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-33	File ID:	0817133.D
Sampled:	08/12/11 11:40	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 16:17
Solids:	71.25	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	32.4	5.82	11.6	23.3	Q
71-43-2	Benzene		1.45	2.91	5.82	U
74-97-5	Bromochloromethane		1.45	2.91	5.82	U
75-27-4	Bromodichloromethane		1.45	2.91	5.82	U
75-25-2	Bromoform		1.45	2.91	5.82	U
74-83-9	Bromomethane		2.91	5.82	11.6	U
78-93-3	2-Butanone		2.91	5.82	11.6	Q, U
75-15-0	Carbon disulfide		1.45	2.91	5.82	U
56-23-5	Carbon tetrachloride		1.45	2.91	5.82	U
108-90-7	Chlorobenzene		1.45	2.91	5.82	U
75-00-3	Chloroethane		2.91	5.82	11.6	U
67-66-3	Chloroform		1.45	2.91	5.82	U
74-87-3	Chloromethane		2.91	5.82	11.6	U
110-82-7	Cyclohexane		1.45	2.91	5.82	U
124-48-1	Dibromochloromethane		1.45	2.91	5.82	U
96-12-8	1,2-Dibromo-3-chloropropane		2.91	5.82	11.6	U
106-93-4	1,2-Dibromoethane (EDB)		1.45	2.91	5.82	U
95-50-1	1,2-Dichlorobenzene		1.45	2.91	5.82	U
541-73-1	1,3-Dichlorobenzene		1.45	2.91	5.82	U
106-46-7	1,4-Dichlorobenzene		1.45	2.91	5.82	U
75-71-8	Dichlorodifluoromethane		2.91	5.82	11.6	U
75-34-3	1,1-Dichloroethane		1.45	2.91	5.82	U
107-06-2	1,2-Dichloroethane		1.45	2.91	5.82	U
75-35-4	1,1-Dichloroethene		1.45	2.91	5.82	U
156-59-2	cis-1,2-Dichloroethene		1.45	2.91	5.82	U
156-60-5	trans-1,2-Dichloroethene		1.45	2.91	5.82	U
78-87-5	1,2-Dichloropropane		1.45	2.91	5.82	U
10061-01-5	cis-1,3-Dichloropropene		1.45	2.91	5.82	U
10061-02-6	trans-1,3-Dichloropropene		1.45	2.91	5.82	U
100-41-4	Ethylbenzene		1.45	2.91	5.82	U
591-78-6	2-Hexanone		1.45	2.91	5.82	Q, U
98-82-8	Isopropylbenzene		1.45	2.91	5.82	U
75-09-2	Methylene chloride	7.44	2.91	5.82	11.6	I
79-20-9	Methyl Acetate		2.91	5.82	11.6	U
108-87-2	Methylcyclohexane		1.45	2.91	5.82	U
108-10-1	4-Methyl-2-pentanone		1.45	2.91	5.82	U
1634-04-4	Methyl t-Butyl Ether		1.45	2.91	5.82	U
100-42-5	Styrene		1.45	2.91	5.82	U
79-34-5	1,1,2,2-Tetrachloroethane		1.45	2.91	5.82	U

ANALYSIS DATA SHEET

55SB03-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-33	File ID:	0817133.D
Sampled:	08/12/11 11:40	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 16:17
Solids:	71.25	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.45	2.91	5.82	U
108-88-3	Toluene		1.45	2.91	5.82	U
87-61-6	1,2,3-Trichlorobenzene		1.45	2.91	5.82	U
120-82-1	1,2,4-Trichlorobenzene		1.45	2.91	5.82	U
79-00-5	1,1,2-Trichloroethane		1.45	2.91	5.82	U
71-55-6	1,1,1-Trichloroethane		1.45	2.91	5.82	U
79-01-6	Trichloroethene		1.45	2.91	5.82	U
75-69-4	Trichlorofluoromethane		2.91	5.82	11.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.91	5.82	11.6	U
75-01-4	Vinyl chloride		1.45	2.91	11.6	U
108-38-3/106-42-	m,p-Xylene		2.91	5.82	11.6	U
95-47-6	o-Xylene		1.45	2.91	5.82	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	34.91	36.57	105	85 - 120	X
Dibromofluoromethane	34.91	39.77	114	80 - 125	
1,2-Dichloroethane-d4	34.91	43.58	125	75 - 140	
Toluene-d8	34.91	33.29	95.4	85 - 115	

ANALYSIS DATA SHEET

55SB04-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-25	File ID:	0817125.D
Sampled:	08/12/11 09:15	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:00
Solids:	96.60	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	22.7	5.35	10.7	21.4	Q
71-43-2	Benzene		1.34	2.67	5.35	U
74-97-5	Bromochloromethane		1.34	2.67	5.35	U
75-27-4	Bromodichloromethane		1.34	2.67	5.35	U
75-25-2	Bromoform		1.34	2.67	5.35	U
74-83-9	Bromomethane		2.67	5.35	10.7	U
78-93-3	2-Butanone		2.67	5.35	10.7	Q, U
75-15-0	Carbon disulfide		1.34	2.67	5.35	U
56-23-5	Carbon tetrachloride		1.34	2.67	5.35	U
108-90-7	Chlorobenzene		1.34	2.67	5.35	U
75-00-3	Chloroethane		2.67	5.35	10.7	U
67-66-3	Chloroform		1.34	2.67	5.35	U
74-87-3	Chloromethane		2.67	5.35	10.7	U
110-82-7	Cyclohexane		1.34	2.67	5.35	U
124-48-1	Dibromochloromethane		1.34	2.67	5.35	U
96-12-8	1,2-Dibromo-3-chloropropane		2.67	5.35	10.7	U
106-93-4	1,2-Dibromoethane (EDB)		1.34	2.67	5.35	U
95-50-1	1,2-Dichlorobenzene		1.34	2.67	5.35	U
541-73-1	1,3-Dichlorobenzene		1.34	2.67	5.35	U
106-46-7	1,4-Dichlorobenzene		1.34	2.67	5.35	U
75-71-8	Dichlorodifluoromethane		2.67	5.35	10.7	U
75-34-3	1,1-Dichloroethane		1.34	2.67	5.35	U
107-06-2	1,2-Dichloroethane		1.34	2.67	5.35	U
75-35-4	1,1-Dichloroethene		1.34	2.67	5.35	U
156-59-2	cis-1,2-Dichloroethene		1.34	2.67	5.35	U
156-60-5	trans-1,2-Dichloroethene		1.34	2.67	5.35	U
78-87-5	1,2-Dichloropropane		1.34	2.67	5.35	U
10061-01-5	cis-1,3-Dichloropropene		1.34	2.67	5.35	U
10061-02-6	trans-1,3-Dichloropropene		1.34	2.67	5.35	U
100-41-4	Ethylbenzene		1.34	2.67	5.35	U
591-78-6	2-Hexanone		1.34	2.67	5.35	Q, U
98-82-8	Isopropylbenzene		1.34	2.67	5.35	U
75-09-2	Methylene chloride	6.26	2.67	5.35	10.7	I
79-20-9	Methyl Acetate		2.67	5.35	10.7	U
108-87-2	Methylcyclohexane		1.34	2.67	5.35	U
108-10-1	4-Methyl-2-pentanone		1.34	2.67	5.35	U
1634-04-4	Methyl t-Butyl Ether		1.34	2.67	5.35	U
100-42-5	Styrene		1.34	2.67	5.35	U
79-34-5	1,1,2,2-Tetrachloroethane		1.34	2.67	5.35	U

ANALYSIS DATA SHEET

55SB04-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-25	File ID:	0817125.D
Sampled:	08/12/11 09:15	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:00
Solids:	96.60	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.34	2.67	5.35	U
108-88-3	Toluene		1.34	2.67	5.35	U
87-61-6	1,2,3-Trichlorobenzene		1.34	2.67	5.35	U
120-82-1	1,2,4-Trichlorobenzene		1.34	2.67	5.35	U
79-00-5	1,1,2-Trichloroethane		1.34	2.67	5.35	U
71-55-6	1,1,1-Trichloroethane		1.34	2.67	5.35	U
79-01-6	Trichloroethene		1.34	2.67	5.35	U
75-69-4	Trichlorofluoromethane		2.67	5.35	10.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.67	5.35	10.7	U
75-01-4	Vinyl chloride		1.34	2.67	10.7	U
108-38-3/106-42-	m,p-Xylene		2.67	5.35	10.7	U
95-47-6	o-Xylene		1.34	2.67	5.35	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.08	35.18	110	85 - 120	X
Dibromofluoromethane	32.08	36.56	114	80 - 125	
1,2-Dichloroethane-d4	32.08	38.11	119	75 - 140	
Toluene-d8	32.08	31.81	99.2	85 - 115	

ANALYSIS DATA SHEET

55SB04-0204D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-26	File ID:	0817126.D
Sampled:	08/12/11 09:15	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:27
Solids:	80.83	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	22.1	5.34	10.7	21.4	Q
71-43-2	Benzene		1.34	2.67	5.34	U
74-97-5	Bromochloromethane		1.34	2.67	5.34	U
75-27-4	Bromodichloromethane		1.34	2.67	5.34	U
75-25-2	Bromoform		1.34	2.67	5.34	U
74-83-9	Bromomethane		2.67	5.34	10.7	U
78-93-3	2-Butanone		2.67	5.34	10.7	Q, U
75-15-0	Carbon disulfide		1.34	2.67	5.34	U
56-23-5	Carbon tetrachloride		1.34	2.67	5.34	U
108-90-7	Chlorobenzene		1.34	2.67	5.34	U
75-00-3	Chloroethane		2.67	5.34	10.7	U
67-66-3	Chloroform		1.34	2.67	5.34	U
74-87-3	Chloromethane		2.67	5.34	10.7	U
110-82-7	Cyclohexane		1.34	2.67	5.34	U
124-48-1	Dibromochloromethane		1.34	2.67	5.34	U
96-12-8	1,2-Dibromo-3-chloropropane		2.67	5.34	10.7	U
106-93-4	1,2-Dibromoethane (EDB)		1.34	2.67	5.34	U
95-50-1	1,2-Dichlorobenzene		1.34	2.67	5.34	U
541-73-1	1,3-Dichlorobenzene		1.34	2.67	5.34	U
106-46-7	1,4-Dichlorobenzene		1.34	2.67	5.34	U
75-71-8	Dichlorodifluoromethane		2.67	5.34	10.7	U
75-34-3	1,1-Dichloroethane		1.34	2.67	5.34	U
107-06-2	1,2-Dichloroethane		1.34	2.67	5.34	U
75-35-4	1,1-Dichloroethene		1.34	2.67	5.34	U
156-59-2	cis-1,2-Dichloroethene		1.34	2.67	5.34	U
156-60-5	trans-1,2-Dichloroethene		1.34	2.67	5.34	U
78-87-5	1,2-Dichloropropane		1.34	2.67	5.34	U
10061-01-5	cis-1,3-Dichloropropene		1.34	2.67	5.34	U
10061-02-6	trans-1,3-Dichloropropene		1.34	2.67	5.34	U
100-41-4	Ethylbenzene		1.34	2.67	5.34	U
591-78-6	2-Hexanone		1.34	2.67	5.34	Q, U
98-82-8	Isopropylbenzene		1.34	2.67	5.34	U
75-09-2	Methylene chloride	6.04	2.67	5.34	10.7	I
79-20-9	Methyl Acetate		2.67	5.34	10.7	U
108-87-2	Methylcyclohexane		1.34	2.67	5.34	U
108-10-1	4-Methyl-2-pentanone		1.34	2.67	5.34	U
1634-04-4	Methyl t-Butyl Ether		1.34	2.67	5.34	U
100-42-5	Styrene		1.34	2.67	5.34	U
79-34-5	1,1,2,2-Tetrachloroethane		1.34	2.67	5.34	U

ANALYSIS DATA SHEET

55SB04-0204D

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-26	File ID:	0817126.D
Sampled:	08/12/11 09:15	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:27
Solids:	80.83	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.34	2.67	5.34	U
108-88-3	Toluene		1.34	2.67	5.34	U
87-61-6	1,2,3-Trichlorobenzene		1.34	2.67	5.34	U
120-82-1	1,2,4-Trichlorobenzene		1.34	2.67	5.34	U
79-00-5	1,1,2-Trichloroethane		1.34	2.67	5.34	U
71-55-6	1,1,1-Trichloroethane		1.34	2.67	5.34	U
79-01-6	Trichloroethene		1.34	2.67	5.34	U
75-69-4	Trichlorofluoromethane		2.67	5.34	10.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.67	5.34	10.7	U
75-01-4	Vinyl chloride		1.34	2.67	10.7	U
108-38-3/106-42-	m,p-Xylene		2.67	5.34	10.7	U
95-47-6	o-Xylene		1.34	2.67	5.34	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.05	34.64	108	85 - 120	X
Dibromofluoromethane	32.05	37.90	118	80 - 125	
1,2-Dichloroethane-d4	32.05	38.77	121	75 - 140	
Toluene-d8	32.05	31.45	98.1	85 - 115	

ANALYSIS DATA SHEET

55SB07-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-29	File ID:	0817129.D
Sampled:	08/12/11 10:35	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:22
Solids:	80.60	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	42.0	4.65	9.30	18.6	Q
71-43-2	Benzene		1.16	2.33	4.65	U
74-97-5	Bromochloromethane		1.16	2.33	4.65	U
75-27-4	Bromodichloromethane		1.16	2.33	4.65	U
75-25-2	Bromoform		1.16	2.33	4.65	U
74-83-9	Bromomethane		2.33	4.65	9.30	U
78-93-3	2-Butanone		2.33	4.65	9.30	Q, U
75-15-0	Carbon disulfide		1.16	2.33	4.65	U
56-23-5	Carbon tetrachloride		1.16	2.33	4.65	U
108-90-7	Chlorobenzene		1.16	2.33	4.65	U
75-00-3	Chloroethane		2.33	4.65	9.30	U
67-66-3	Chloroform		1.16	2.33	4.65	U
74-87-3	Chloromethane		2.33	4.65	9.30	U
110-82-7	Cyclohexane		1.16	2.33	4.65	U
124-48-1	Dibromochloromethane		1.16	2.33	4.65	U
96-12-8	1,2-Dibromo-3-chloropropane		2.33	4.65	9.30	U
106-93-4	1,2-Dibromoethane (EDB)		1.16	2.33	4.65	U
95-50-1	1,2-Dichlorobenzene		1.16	2.33	4.65	U
541-73-1	1,3-Dichlorobenzene		1.16	2.33	4.65	U
106-46-7	1,4-Dichlorobenzene		1.16	2.33	4.65	U
75-71-8	Dichlorodifluoromethane		2.33	4.65	9.30	U
75-34-3	1,1-Dichloroethane		1.16	2.33	4.65	U
107-06-2	1,2-Dichloroethane		1.16	2.33	4.65	U
75-35-4	1,1-Dichloroethene		1.16	2.33	4.65	U
156-59-2	cis-1,2-Dichloroethene		1.16	2.33	4.65	U
156-60-5	trans-1,2-Dichloroethene		1.16	2.33	4.65	U
78-87-5	1,2-Dichloropropane		1.16	2.33	4.65	U
10061-01-5	cis-1,3-Dichloropropene		1.16	2.33	4.65	U
10061-02-6	trans-1,3-Dichloropropene		1.16	2.33	4.65	U
100-41-4	Ethylbenzene		1.16	2.33	4.65	U
591-78-6	2-Hexanone		1.16	2.33	4.65	Q, U
98-82-8	Isopropylbenzene		1.16	2.33	4.65	U
75-09-2	Methylene chloride	4.46	2.33	4.65	9.30	I
79-20-9	Methyl Acetate		2.33	4.65	9.30	U
108-87-2	Methylcyclohexane		1.16	2.33	4.65	U
108-10-1	4-Methyl-2-pentanone		1.16	2.33	4.65	U
1634-04-4	Methyl t-Butyl Ether		1.16	2.33	4.65	U
100-42-5	Styrene		1.16	2.33	4.65	U
79-34-5	1,1,2,2-Tetrachloroethane		1.16	2.33	4.65	U

ANALYSIS DATA SHEET

55SB07-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-29	File ID:	0817129.D
Sampled:	08/12/11 10:35	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:22
Solids:	80.60	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.16	2.33	4.65	U
108-88-3	Toluene		1.16	2.33	4.65	U
87-61-6	1,2,3-Trichlorobenzene		1.16	2.33	4.65	U
120-82-1	1,2,4-Trichlorobenzene		1.16	2.33	4.65	U
79-00-5	1,1,2-Trichloroethane		1.16	2.33	4.65	U
71-55-6	1,1,1-Trichloroethane		1.16	2.33	4.65	U
79-01-6	Trichloroethene		1.16	2.33	4.65	U
75-69-4	Trichlorofluoromethane		2.33	4.65	9.30	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.33	4.65	9.30	U
75-01-4	Vinyl chloride		1.16	2.33	9.30	U
108-38-3/106-42-	m,p-Xylene		2.33	4.65	9.30	U
95-47-6	o-Xylene		1.16	2.33	4.65	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	27.90	29.74	107	85 - 120	X
Dibromofluoromethane	27.90	31.21	112	80 - 125	
1,2-Dichloroethane-d4	27.90	30.79	110	75 - 140	
Toluene-d8	27.90	26.50	95.0	85 - 115	

ANALYSIS DATA SHEET

55SB09-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-36	File ID:	0817136.D
Sampled:	08/12/11 12:55	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 17:11
Solids:	72.95	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	18.3	6.02	12.0	24.1	Q, I
71-43-2	Benzene		1.51	3.01	6.02	U
74-97-5	Bromochloromethane		1.51	3.01	6.02	U
75-27-4	Bromodichloromethane		1.51	3.01	6.02	U
75-25-2	Bromoform		1.51	3.01	6.02	U
74-83-9	Bromomethane		3.01	6.02	12.0	U
78-93-3	2-Butanone		3.01	6.02	12.0	Q, U
75-15-0	Carbon disulfide		1.51	3.01	6.02	U
56-23-5	Carbon tetrachloride		1.51	3.01	6.02	U
108-90-7	Chlorobenzene		1.51	3.01	6.02	U
75-00-3	Chloroethane		3.01	6.02	12.0	U
67-66-3	Chloroform		1.51	3.01	6.02	U
74-87-3	Chloromethane		3.01	6.02	12.0	U
110-82-7	Cyclohexane		1.51	3.01	6.02	U
124-48-1	Dibromochloromethane		1.51	3.01	6.02	U
96-12-8	1,2-Dibromo-3-chloropropane		3.01	6.02	12.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.51	3.01	6.02	U
95-50-1	1,2-Dichlorobenzene		1.51	3.01	6.02	U
541-73-1	1,3-Dichlorobenzene		1.51	3.01	6.02	U
106-46-7	1,4-Dichlorobenzene		1.51	3.01	6.02	U
75-71-8	Dichlorodifluoromethane		3.01	6.02	12.0	U
75-34-3	1,1-Dichloroethane		1.51	3.01	6.02	U
107-06-2	1,2-Dichloroethane		1.51	3.01	6.02	U
75-35-4	1,1-Dichloroethene		1.51	3.01	6.02	U
156-59-2	cis-1,2-Dichloroethene		1.51	3.01	6.02	U
156-60-5	trans-1,2-Dichloroethene		1.51	3.01	6.02	U
78-87-5	1,2-Dichloropropane		1.51	3.01	6.02	U
10061-01-5	cis-1,3-Dichloropropene		1.51	3.01	6.02	U
10061-02-6	trans-1,3-Dichloropropene		1.51	3.01	6.02	U
100-41-4	Ethylbenzene		1.51	3.01	6.02	U
591-78-6	2-Hexanone		1.51	3.01	6.02	Q, U
98-82-8	Isopropylbenzene		1.51	3.01	6.02	U
75-09-2	Methylene chloride	6.71	3.01	6.02	12.0	I
79-20-9	Methyl Acetate		3.01	6.02	12.0	U
108-87-2	Methylcyclohexane		1.51	3.01	6.02	U
108-10-1	4-Methyl-2-pentanone		1.51	3.01	6.02	U
1634-04-4	Methyl t-Butyl Ether		1.51	3.01	6.02	U
100-42-5	Styrene		1.51	3.01	6.02	U
79-34-5	1,1,2,2-Tetrachloroethane		1.51	3.01	6.02	U

ANALYSIS DATA SHEET

55SB09-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-36	File ID:	0817136.D
Sampled:	08/12/11 12:55	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 17:11
Solids:	72.95	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.51	3.01	6.02	U
108-88-3	Toluene		1.51	3.01	6.02	U
87-61-6	1,2,3-Trichlorobenzene		1.51	3.01	6.02	U
120-82-1	1,2,4-Trichlorobenzene		1.51	3.01	6.02	U
79-00-5	1,1,2-Trichloroethane		1.51	3.01	6.02	U
71-55-6	1,1,1-Trichloroethane		1.51	3.01	6.02	U
79-01-6	Trichloroethene		1.51	3.01	6.02	U
75-69-4	Trichlorofluoromethane		3.01	6.02	12.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		3.01	6.02	12.0	U
75-01-4	Vinyl chloride		1.51	3.01	12.0	U
108-38-3/106-42-	m,p-Xylene		3.01	6.02	12.0	U
95-47-6	o-Xylene		1.51	3.01	6.02	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	36.14	39.27	109	85 - 120	X
Dibromofluoromethane	36.14	39.41	109	80 - 125	
1,2-Dichloroethane-d4	36.14	37.60	104	75 - 140	
Toluene-d8	36.14	35.44	98.1	85 - 115	

ANALYSIS DATA SHEET

55SS03-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-32	File ID:	0817132.D
Sampled:	08/12/11 11:35	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:49
Solids:	73.99	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	126	5.36	10.7	21.5	Q
71-43-2	Benzene		1.34	2.68	5.36	U
74-97-5	Bromochloromethane		1.34	2.68	5.36	U
75-27-4	Bromodichloromethane		1.34	2.68	5.36	U
75-25-2	Bromoform		1.34	2.68	5.36	U
74-83-9	Bromomethane		2.68	5.36	10.7	U
78-93-3	2-Butanone		2.68	5.36	10.7	Q, U
75-15-0	Carbon disulfide	4.02	1.34	2.68	5.36	I
56-23-5	Carbon tetrachloride		1.34	2.68	5.36	U
108-90-7	Chlorobenzene		1.34	2.68	5.36	U
75-00-3	Chloroethane		2.68	5.36	10.7	U
67-66-3	Chloroform		1.34	2.68	5.36	U
74-87-3	Chloromethane		2.68	5.36	10.7	U
110-82-7	Cyclohexane		1.34	2.68	5.36	U
124-48-1	Dibromochloromethane		1.34	2.68	5.36	U
96-12-8	1,2-Dibromo-3-chloropropane		2.68	5.36	10.7	U
106-93-4	1,2-Dibromoethane (EDB)		1.34	2.68	5.36	U
95-50-1	1,2-Dichlorobenzene		1.34	2.68	5.36	U
541-73-1	1,3-Dichlorobenzene		1.34	2.68	5.36	U
106-46-7	1,4-Dichlorobenzene		1.34	2.68	5.36	U
75-71-8	Dichlorodifluoromethane		2.68	5.36	10.7	U
75-34-3	1,1-Dichloroethane		1.34	2.68	5.36	U
107-06-2	1,2-Dichloroethane		1.34	2.68	5.36	U
75-35-4	1,1-Dichloroethene		1.34	2.68	5.36	U
156-59-2	cis-1,2-Dichloroethene		1.34	2.68	5.36	U
156-60-5	trans-1,2-Dichloroethene		1.34	2.68	5.36	U
78-87-5	1,2-Dichloropropane		1.34	2.68	5.36	U
10061-01-5	cis-1,3-Dichloropropene		1.34	2.68	5.36	U
10061-02-6	trans-1,3-Dichloropropene		1.34	2.68	5.36	U
100-41-4	Ethylbenzene		1.34	2.68	5.36	U
591-78-6	2-Hexanone		1.34	2.68	5.36	Q, U
98-82-8	Isopropylbenzene		1.34	2.68	5.36	U
75-09-2	Methylene chloride	6.18	2.68	5.36	10.7	I
79-20-9	Methyl Acetate		2.68	5.36	10.7	U
108-87-2	Methylcyclohexane		1.34	2.68	5.36	U
108-10-1	4-Methyl-2-pentanone		1.34	2.68	5.36	U
1634-04-4	Methyl t-Butyl Ether		1.34	2.68	5.36	U
100-42-5	Styrene		1.34	2.68	5.36	U
79-34-5	1,1,2,2-Tetrachloroethane		1.34	2.68	5.36	U

ANALYSIS DATA SHEET

55SS03-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-32	File ID:	0817132.D
Sampled:	08/12/11 11:35	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:49
Solids:	73.99	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.34	2.68	5.36	U
108-88-3	Toluene		1.34	2.68	5.36	U
87-61-6	1,2,3-Trichlorobenzene		1.34	2.68	5.36	U
120-82-1	1,2,4-Trichlorobenzene		1.34	2.68	5.36	U
79-00-5	1,1,2-Trichloroethane		1.34	2.68	5.36	U
71-55-6	1,1,1-Trichloroethane		1.34	2.68	5.36	U
79-01-6	Trichloroethene		1.34	2.68	5.36	U
75-69-4	Trichlorofluoromethane		2.68	5.36	10.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.68	5.36	10.7	U
75-01-4	Vinyl chloride		1.34	2.68	10.7	U
108-38-3/106-42-	m,p-Xylene		2.68	5.36	10.7	U
95-47-6	o-Xylene		1.34	2.68	5.36	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.18	35.40	110	85 - 120	X
Dibromofluoromethane	32.18	37.58	117	80 - 125	
1,2-Dichloroethane-d4	32.18	37.92	118	75 - 140	
Toluene-d8	32.18	30.77	95.6	85 - 115	

ANALYSIS DATA SHEET

55SS04-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-38	File ID:	0817138.D
Sampled:	08/12/11 09:05	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 17:38
Solids:	67.84	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence:	1H23501	Calibration:	1194001
Instrument:	MS-VOA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	115	9.05	18.1	36.2	Q
71-43-2	Benzene		2.26	4.53	9.05	U
74-97-5	Bromochloromethane		2.26	4.53	9.05	U
75-27-4	Bromodichloromethane		2.26	4.53	9.05	U
75-25-2	Bromoform		2.26	4.53	9.05	U
74-83-9	Bromomethane		4.53	9.05	18.1	U
78-93-3	2-Butanone		4.53	9.05	18.1	Q, U
75-15-0	Carbon disulfide		2.26	4.53	9.05	U
56-23-5	Carbon tetrachloride		2.26	4.53	9.05	U
108-90-7	Chlorobenzene		2.26	4.53	9.05	U
75-00-3	Chloroethane		4.53	9.05	18.1	U
67-66-3	Chloroform		2.26	4.53	9.05	U
74-87-3	Chloromethane		4.53	9.05	18.1	U
110-82-7	Cyclohexane		2.26	4.53	9.05	U
124-48-1	Dibromochloromethane		2.26	4.53	9.05	U
96-12-8	1,2-Dibromo-3-chloropropane		4.53	9.05	18.1	U
106-93-4	1,2-Dibromoethane (EDB)		2.26	4.53	9.05	U
95-50-1	1,2-Dichlorobenzene		2.26	4.53	9.05	U
541-73-1	1,3-Dichlorobenzene		2.26	4.53	9.05	U
106-46-7	1,4-Dichlorobenzene		2.26	4.53	9.05	U
75-71-8	Dichlorodifluoromethane		4.53	9.05	18.1	U
75-34-3	1,1-Dichloroethane		2.26	4.53	9.05	U
107-06-2	1,2-Dichloroethane		2.26	4.53	9.05	U
75-35-4	1,1-Dichloroethene		2.26	4.53	9.05	U
156-59-2	cis-1,2-Dichloroethene		2.26	4.53	9.05	U
156-60-5	trans-1,2-Dichloroethene		2.26	4.53	9.05	U
78-87-5	1,2-Dichloropropane		2.26	4.53	9.05	U
10061-01-5	cis-1,3-Dichloropropene		2.26	4.53	9.05	U
10061-02-6	trans-1,3-Dichloropropene		2.26	4.53	9.05	U
100-41-4	Ethylbenzene		2.26	4.53	9.05	U
591-78-6	2-Hexanone		2.26	4.53	9.05	Q, U
98-82-8	Isopropylbenzene		2.26	4.53	9.05	U
75-09-2	Methylene chloride	19.6	4.53	9.05	18.1	
79-20-9	Methyl Acetate		4.53	9.05	18.1	U
108-87-2	Methylcyclohexane		2.26	4.53	9.05	U
108-10-1	4-Methyl-2-pentanone		2.26	4.53	9.05	U
1634-04-4	Methyl t-Butyl Ether		2.26	4.53	9.05	U
100-42-5	Styrene		2.26	4.53	9.05	U
79-34-5	1,1,2,2-Tetrachloroethane		2.26	4.53	9.05	U

ANALYSIS DATA SHEET

55SS04-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-38	File ID:	0817138.D
Sampled:	08/12/11 09:05	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 17:38
Solids:	67.84	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		2.26	4.53	9.05	U
108-88-3	Toluene		2.26	4.53	9.05	U
87-61-6	1,2,3-Trichlorobenzene		2.26	4.53	9.05	U
120-82-1	1,2,4-Trichlorobenzene		2.26	4.53	9.05	U
79-00-5	1,1,2-Trichloroethane		2.26	4.53	9.05	U
71-55-6	1,1,1-Trichloroethane		2.26	4.53	9.05	U
79-01-6	Trichloroethene		2.26	4.53	9.05	U
75-69-4	Trichlorofluoromethane		4.53	9.05	18.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		4.53	9.05	18.1	U
75-01-4	Vinyl chloride		2.26	4.53	18.1	U
108-38-3/106-42-	m,p-Xylene		4.53	9.05	18.1	U
95-47-6	o-Xylene		2.26	4.53	9.05	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	54.33	57.42	106	85 - 120	X
Dibromofluoromethane	54.33	60.34	111	80 - 125	
1,2-Dichloroethane-d4	54.33	58.70	108	75 - 140	
Toluene-d8	54.33	53.61	98.7	85 - 115	

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-24	File ID:	0817124.D
Sampled:	08/12/11 09:05	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 13:33
Solids:	68.36	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	9.33	18.7	37.3	Q
71-43-2	Benzene		2.33	4.66	9.33	U
74-97-5	Bromochloromethane		2.33	4.66	9.33	U
75-27-4	Bromodichloromethane		2.33	4.66	9.33	U
75-25-2	Bromoform		2.33	4.66	9.33	U
74-83-9	Bromomethane		4.66	9.33	18.7	U
78-93-3	2-Butanone		4.66	9.33	18.7	Q, U
75-15-0	Carbon disulfide		2.33	4.66	9.33	U
56-23-5	Carbon tetrachloride		2.33	4.66	9.33	U
108-90-7	Chlorobenzene		2.33	4.66	9.33	U
75-00-3	Chloroethane		4.66	9.33	18.7	U
67-66-3	Chloroform		2.33	4.66	9.33	U
74-87-3	Chloromethane		4.66	9.33	18.7	U
110-82-7	Cyclohexane		2.33	4.66	9.33	U
124-48-1	Dibromochloromethane		2.33	4.66	9.33	U
96-12-8	1,2-Dibromo-3-chloropropane		4.66	9.33	18.7	U
106-93-4	1,2-Dibromoethane (EDB)		2.33	4.66	9.33	U
95-50-1	1,2-Dichlorobenzene		2.33	4.66	9.33	U
541-73-1	1,3-Dichlorobenzene		2.33	4.66	9.33	U
106-46-7	1,4-Dichlorobenzene		2.33	4.66	9.33	U
75-71-8	Dichlorodifluoromethane		4.66	9.33	18.7	U
75-34-3	1,1-Dichloroethane		2.33	4.66	9.33	U
107-06-2	1,2-Dichloroethane		2.33	4.66	9.33	U
75-35-4	1,1-Dichloroethene		2.33	4.66	9.33	U
156-59-2	cis-1,2-Dichloroethene		2.33	4.66	9.33	U
156-60-5	trans-1,2-Dichloroethene		2.33	4.66	9.33	U
78-87-5	1,2-Dichloropropane		2.33	4.66	9.33	U
10061-01-5	cis-1,3-Dichloropropene		2.33	4.66	9.33	U
10061-02-6	trans-1,3-Dichloropropene		2.33	4.66	9.33	U
100-41-4	Ethylbenzene		2.33	4.66	9.33	U
591-78-6	2-Hexanone		2.33	4.66	9.33	Q, U
98-82-8	Isopropylbenzene		2.33	4.66	9.33	U
75-09-2	Methylene chloride	14.7	4.66	9.33	18.7	I
79-20-9	Methyl Acetate		4.66	9.33	18.7	U
108-87-2	Methylcyclohexane		2.33	4.66	9.33	U
108-10-1	4-Methyl-2-pentanone		2.33	4.66	9.33	U
1634-04-4	Methyl t-Butyl Ether		2.33	4.66	9.33	U
100-42-5	Styrene		2.33	4.66	9.33	U
79-34-5	1,1,2,2-Tetrachloroethane		2.33	4.66	9.33	U

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-24	File ID:	0817124.D
Sampled:	08/12/11 09:05	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 13:33
Solids:	68.36	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		2.33	4.66	9.33	U
108-88-3	Toluene		2.33	4.66	9.33	U
87-61-6	1,2,3-Trichlorobenzene		2.33	4.66	9.33	U
120-82-1	1,2,4-Trichlorobenzene		2.33	4.66	9.33	U
79-00-5	1,1,2-Trichloroethane		2.33	4.66	9.33	U
71-55-6	1,1,1-Trichloroethane		2.33	4.66	9.33	U
79-01-6	Trichloroethene		2.33	4.66	9.33	U
75-69-4	Trichlorofluoromethane		4.66	9.33	18.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		4.66	9.33	18.7	U
75-01-4	Vinyl chloride		2.33	4.66	18.7	U
108-38-3/106-42-	m,p-Xylene		4.66	9.33	18.7	U
95-47-6	o-Xylene		2.33	4.66	9.33	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	55.98	59.68	107	85 - 120	X
Dibromofluoromethane	55.98	60.72	108	80 - 125	
1,2-Dichloroethane-d4	55.98	65.32	117	75 - 140	
Toluene-d8	55.98	55.48	99.1	85 - 115	

ANALYSIS DATA SHEET

55SS07-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-28	File ID:	0817128.D
Sampled:	08/12/11 10:25	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:55
Solids:	77.55	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	38.9	5.05	10.1	20.2	Q
71-43-2	Benzene		1.26	2.53	5.05	U
74-97-5	Bromochloromethane		1.26	2.53	5.05	U
75-27-4	Bromodichloromethane		1.26	2.53	5.05	U
75-25-2	Bromoform		1.26	2.53	5.05	U
74-83-9	Bromomethane		2.53	5.05	10.1	U
78-93-3	2-Butanone		2.53	5.05	10.1	Q, U
75-15-0	Carbon disulfide	1.48	1.26	2.53	5.05	I
56-23-5	Carbon tetrachloride		1.26	2.53	5.05	U
108-90-7	Chlorobenzene		1.26	2.53	5.05	U
75-00-3	Chloroethane		2.53	5.05	10.1	U
67-66-3	Chloroform		1.26	2.53	5.05	U
74-87-3	Chloromethane		2.53	5.05	10.1	U
110-82-7	Cyclohexane		1.26	2.53	5.05	U
124-48-1	Dibromochloromethane		1.26	2.53	5.05	U
96-12-8	1,2-Dibromo-3-chloropropane		2.53	5.05	10.1	U
106-93-4	1,2-Dibromoethane (EDB)		1.26	2.53	5.05	U
95-50-1	1,2-Dichlorobenzene		1.26	2.53	5.05	U
541-73-1	1,3-Dichlorobenzene		1.26	2.53	5.05	U
106-46-7	1,4-Dichlorobenzene		1.26	2.53	5.05	U
75-71-8	Dichlorodifluoromethane		2.53	5.05	10.1	U
75-34-3	1,1-Dichloroethane		1.26	2.53	5.05	U
107-06-2	1,2-Dichloroethane		1.26	2.53	5.05	U
75-35-4	1,1-Dichloroethene		1.26	2.53	5.05	U
156-59-2	cis-1,2-Dichloroethene		1.26	2.53	5.05	U
156-60-5	trans-1,2-Dichloroethene		1.26	2.53	5.05	U
78-87-5	1,2-Dichloropropane		1.26	2.53	5.05	U
10061-01-5	cis-1,3-Dichloropropene		1.26	2.53	5.05	U
10061-02-6	trans-1,3-Dichloropropene		1.26	2.53	5.05	U
100-41-4	Ethylbenzene		1.26	2.53	5.05	U
591-78-6	2-Hexanone		1.26	2.53	5.05	Q, U
98-82-8	Isopropylbenzene		1.26	2.53	5.05	U
75-09-2	Methylene chloride	6.06	2.53	5.05	10.1	I
79-20-9	Methyl Acetate		2.53	5.05	10.1	U
108-87-2	Methylcyclohexane		1.26	2.53	5.05	U
108-10-1	4-Methyl-2-pentanone		1.26	2.53	5.05	U
1634-04-4	Methyl t-Butyl Ether		1.26	2.53	5.05	U
100-42-5	Styrene		1.26	2.53	5.05	U
79-34-5	1,1,2,2-Tetrachloroethane		1.26	2.53	5.05	U

ANALYSIS DATA SHEET

55SS07-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-28	File ID:	0817128.D
Sampled:	08/12/11 10:25	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:55
Solids:	77.55	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.26	2.53	5.05	U
108-88-3	Toluene		1.26	2.53	5.05	U
87-61-6	1,2,3-Trichlorobenzene		1.26	2.53	5.05	U
120-82-1	1,2,4-Trichlorobenzene		1.26	2.53	5.05	U
79-00-5	1,1,2-Trichloroethane		1.26	2.53	5.05	U
71-55-6	1,1,1-Trichloroethane		1.26	2.53	5.05	U
79-01-6	Trichloroethene		1.26	2.53	5.05	U
75-69-4	Trichlorofluoromethane		2.53	5.05	10.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.53	5.05	10.1	U
75-01-4	Vinyl chloride		1.26	2.53	10.1	U
108-38-3/106-42-	m,p-Xylene		2.53	5.05	10.1	U
95-47-6	o-Xylene		1.26	2.53	5.05	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.32	32.89	108	85 - 120	X
Dibromofluoromethane	30.32	33.99	112	80 - 125	
1,2-Dichloroethane-d4	30.32	36.90	122	75 - 140	
Toluene-d8	30.32	29.62	97.7	85 - 115	

ANALYSIS DATA SHEET

55SS09-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-35	File ID:	0817135.D
Sampled:	08/12/11 12:45	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 16:44
Solids:	69.40	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	19.7	5.72	11.4	22.9	Q, I
71-43-2	Benzene		1.43	2.86	5.72	U
74-97-5	Bromochloromethane		1.43	2.86	5.72	U
75-27-4	Bromodichloromethane		1.43	2.86	5.72	U
75-25-2	Bromoform		1.43	2.86	5.72	U
74-83-9	Bromomethane		2.86	5.72	11.4	U
78-93-3	2-Butanone		2.86	5.72	11.4	Q, U
75-15-0	Carbon disulfide		1.43	2.86	5.72	U
56-23-5	Carbon tetrachloride		1.43	2.86	5.72	U
108-90-7	Chlorobenzene		1.43	2.86	5.72	N, U
75-00-3	Chloroethane		2.86	5.72	11.4	U
67-66-3	Chloroform		1.43	2.86	5.72	U
74-87-3	Chloromethane		2.86	5.72	11.4	U
110-82-7	Cyclohexane		1.43	2.86	5.72	U
124-48-1	Dibromochloromethane		1.43	2.86	5.72	U
96-12-8	1,2-Dibromo-3-chloropropane		2.86	5.72	11.4	U
106-93-4	1,2-Dibromoethane (EDB)		1.43	2.86	5.72	U
95-50-1	1,2-Dichlorobenzene		1.43	2.86	5.72	N, U
541-73-1	1,3-Dichlorobenzene		1.43	2.86	5.72	N, U
106-46-7	1,4-Dichlorobenzene		1.43	2.86	5.72	N, U
75-71-8	Dichlorodifluoromethane		2.86	5.72	11.4	U
75-34-3	1,1-Dichloroethane		1.43	2.86	5.72	U
107-06-2	1,2-Dichloroethane		1.43	2.86	5.72	U
75-35-4	1,1-Dichloroethene		1.43	2.86	5.72	U
156-59-2	cis-1,2-Dichloroethene		1.43	2.86	5.72	U
156-60-5	trans-1,2-Dichloroethene		1.43	2.86	5.72	U
78-87-5	1,2-Dichloropropane		1.43	2.86	5.72	U
10061-01-5	cis-1,3-Dichloropropene		1.43	2.86	5.72	N, U
10061-02-6	trans-1,3-Dichloropropene		1.43	2.86	5.72	U
100-41-4	Ethylbenzene		1.43	2.86	5.72	U
591-78-6	2-Hexanone		1.43	2.86	5.72	N, Q, U
98-82-8	Isopropylbenzene		1.43	2.86	5.72	U
75-09-2	Methylene chloride	5.05	2.86	5.72	11.4	I
79-20-9	Methyl Acetate		2.86	5.72	11.4	N, U
108-87-2	Methylcyclohexane		1.43	2.86	5.72	U
108-10-1	4-Methyl-2-pentanone		1.43	2.86	5.72	U
1634-04-4	Methyl t-Butyl Ether		1.43	2.86	5.72	U
100-42-5	Styrene		1.43	2.86	5.72	N, U
79-34-5	1,1,2,2-Tetrachloroethane		1.43	2.86	5.72	U

ANALYSIS DATA SHEET

55SS09-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-35	File ID:	0817135.D
Sampled:	08/12/11 12:45	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 16:44
Solids:	69.40	Preparation:	5035	Dilution:	1
Batch:	1H20003	Sequence: 1H23501	Calibration:	1194001	Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		1.43	2.86	5.72	U
108-88-3	Toluene		1.43	2.86	5.72	U
87-61-6	1,2,3-Trichlorobenzene		1.43	2.86	5.72	N, U
120-82-1	1,2,4-Trichlorobenzene		1.43	2.86	5.72	N, U
79-00-5	1,1,2-Trichloroethane		1.43	2.86	5.72	U
71-55-6	1,1,1-Trichloroethane		1.43	2.86	5.72	U
79-01-6	Trichloroethene		1.43	2.86	5.72	U
75-69-4	Trichlorofluoromethane		2.86	5.72	11.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.86	5.72	11.4	U
75-01-4	Vinyl chloride		1.43	2.86	11.4	U
108-38-3/106-42-	m,p-Xylene		2.86	5.72	11.4	N, U
95-47-6	o-Xylene		1.43	2.86	5.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	34.31	38.02	111	85 - 120	X
Dibromofluoromethane	34.31	39.62	115	80 - 125	
1,2-Dichloroethane-d4	34.31	41.63	121	75 - 140	
Toluene-d8	34.31	33.41	97.4	85 - 115	

ANALYSIS DATA SHEET

TRIP BLANK #0150

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108171-37	File ID:	0817137.D
Sampled:	08/12/11 13:40	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 13:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

TRIP BLANK #0150

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108171-37	File ID:	0817137.D
Sampled:	08/12/11 13:40	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 13:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.86	99.5	75 - 120	
Dibromofluoromethane	30.00	29.58	98.6	85 - 115	
1,2-Dichloroethane-d4	30.00	28.82	96.1	70 - 120	
Toluene-d8	30.00	30.46	102	85 - 120	

ANALYSIS DATA SHEET

55SB03-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-33	File ID:	0817133.D
Sampled:	08/12/11 11:40	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 07:59
Solids:	71.25	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		112	224	443	U
208-96-8	Acenaphthylene		112	224	443	U
98-86-2	Acetophenone		112	224	443	U
120-12-7	Anthracene		112	224	443	U
1912-24-9	Atrazine		112	224	443	U
100-52-7	Benzaldehyde		112	224	443	U
56-55-3	Benzo(a)anthracene		112	224	443	U
50-32-8	Benzo(a)pyrene		112	224	443	U
205-99-2	Benzo(b)fluoranthene		112	224	443	X, U
191-24-2	Benzo(g,h,i)perylene		112	224	443	U
207-08-9	Benzo(k)fluoranthene		112	224	443	U
92-52-4	1,1-Biphenyl		112	224	443	U
101-55-3	4-Bromophenyl-phenylether		112	224	443	U
85-68-7	Butylbenzylphthalate		112	224	443	X, U
105-60-2	Caprolactam		112	224	443	U
86-74-8	Carbazole		112	224	443	U
59-50-7	4-Chloro-3-methylphenol		112	224	443	U
106-47-8	4-Chloroaniline		112	224	443	U
111-91-1	Bis(2-chloroethoxy)methane		112	224	443	U
111-44-4	Bis(2-chloroethyl)ether		112	224	443	U
108-60-1	2,2'-Oxybis-1-chloropropane		112	224	443	U
91-58-7	2-Chloronaphthalene		112	224	443	X, U
95-57-8	2-Chlorophenol		112	224	443	U
7005-72-3	4-Chlorophenyl phenyl ether		112	224	443	U
218-01-9	Chrysene		112	224	443	U
53-70-3	Dibenz(a,h)anthracene		112	224	443	U
132-64-9	Dibenzofuran		112	224	443	U
84-74-2	Di-n-butylphthalate		112	224	443	U
91-94-1	3,3'-Dichlorobenzidine		112	224	443	X, U
120-83-2	2,4-Dichlorophenol		112	224	443	U
84-66-2	Diethylphthalate		112	224	443	U
105-67-9	2,4-Dimethylphenol		447	894	1740	U
131-11-3	Dimethyl phthalate		112	224	443	U
534-52-1	4,6-Dinitro-2-methylphenol		1120	2240	4430	U
51-28-5	2,4-Dinitrophenol		1120	2240	4430	X, U
121-14-2	2,4-Dinitrotoluene		112	224	443	U
606-20-2	2,6-Dinitrotoluene		112	224	443	U
117-84-0	Di-n-octylphthalate		112	224	443	X, U
123-91-1	1,4-Dioxane		112	224	443	U

ANALYSIS DATA SHEET

55SB03-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-33	File ID:	0817133.D
Sampled:	08/12/11 11:40	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 07:59
Solids:	71.25	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		112	224	443	X, U
206-44-0	Fluoranthene		112	224	443	U
86-73-7	Fluorene		112	224	443	U
118-74-1	Hexachlorobenzene		112	224	443	U
87-68-3	Hexachlorobutadiene		112	224	443	U
77-47-4	Hexachlorocyclopentadiene		112	224	443	U
67-72-1	Hexachloroethane		112	224	443	U
193-39-5	Indeno(1,2,3-cd)pyrene		112	224	443	U
78-59-1	Isophorone		112	224	443	U
90-12-0	1-Methylnaphthalene		112	224	443	U
91-57-6	2-Methylnaphthalene		112	224	443	U
95-48-7	2-Methylphenol		112	224	443	U
106-44-5	4-Methylphenol		112	224	443	U
91-20-3	Naphthalene		112	224	443	U
100-01-6	4-Nitroaniline		447	894	1740	U
99-09-2	3-Nitroaniline		447	894	1740	U
88-74-4	2-Nitroaniline		447	894	1740	U
98-95-3	Nitrobenzene		112	224	443	U
100-02-7	4-Nitrophenol		447	894	1740	U
88-75-5	2-Nitrophenol		112	224	443	U
86-30-6	N-Nitrosodiphenylamine		112	224	443	U
621-64-7	N-Nitroso-di-n-propylamine		112	224	443	U
87-86-5	Pentachlorophenol		447	894	1740	U
85-01-8	Phenanthrene		112	224	443	U
108-95-2	Phenol		112	224	443	U
129-00-0	Pyrene		112	224	443	U
95-94-3	1,2,4,5-Tetrachlorobenzene		112	224	443	U
58-90-2	2,3,4,6-Tetrachlorophenol		112	224	443	U
88-06-2	2,4,6-Trichlorophenol		112	224	443	U
95-95-4	2,4,5-Trichlorophenol		112	224	443	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4380	3075	70.2	45 - 105	
2-Fluorophenol	8939	6900	77.2	35 - 105	
Nitrobenzene-d5	4380	2872	65.6	35 - 100	
Phenol-d6	8939	6531	73.1	40 - 100	
Terphenyl-d14	4380	3456	78.9	30 - 125	
2,4,6-Tribromophenol	8939	6562	73.4	35 - 125	

ANALYSIS DATA SHEET

55SB04-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-25	File ID:	0817125D.D
Sampled:	08/12/11 09:15	Prepared:	08/24/11 09:00	Analyzed:	09/05/11 02:34
Solids:	96.60	Preparation:	EXT_3546	Dilution:	2
Batch:	1H18012	Sequence: 1I24909	Calibration:	1236001	Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		170	341	674	U
208-96-8	Acenaphthylene		170	341	674	U
98-86-2	Acetophenone		170	341	674	U
120-12-7	Anthracene		170	341	674	U
1912-24-9	Atrazine		170	341	674	U
100-52-7	Benzaldehyde		170	341	674	U
56-55-3	Benzo(a)anthracene		170	341	674	U
50-32-8	Benzo(a)pyrene		170	341	674	U
205-99-2	Benzo(b)fluoranthene		170	341	674	X, U
191-24-2	Benzo(g,h,i)perylene		170	341	674	U
207-08-9	Benzo(k)fluoranthene		170	341	674	U
92-52-4	1,1-Biphenyl		170	341	674	U
101-55-3	4-Bromophenyl-phenylether		170	341	674	U
85-68-7	Butylbenzylphthalate		170	341	674	X, U
105-60-2	Caprolactam		170	341	674	U
86-74-8	Carbazole		170	341	674	U
59-50-7	4-Chloro-3-methylphenol		170	341	674	U
106-47-8	4-Chloroaniline		170	341	674	U
111-91-1	Bis(2-chloroethoxy)methane		170	341	674	U
111-44-4	Bis(2-chloroethyl)ether		170	341	674	U
108-60-1	2,2'-Oxybis-1-chloropropane		170	341	674	U
91-58-7	2-Chloronaphthalene		170	341	674	U
95-57-8	2-Chlorophenol		170	341	674	U
7005-72-3	4-Chlorophenyl phenyl ether		170	341	674	U
218-01-9	Chrysene		170	341	674	U
53-70-3	Dibenz(a,h)anthracene		170	341	674	U
132-64-9	Dibenzofuran		170	341	674	U
84-74-2	Di-n-butylphthalate		170	341	674	U
91-94-1	3,3'-Dichlorobenzidine		170	341	674	X, U
120-83-2	2,4-Dichlorophenol		170	341	674	U
84-66-2	Diethylphthalate		170	341	674	U
105-67-9	2,4-Dimethylphenol		680	1360	2660	U
131-11-3	Dimethyl phthalate		170	341	674	U
534-52-1	4,6-Dinitro-2-methylphenol		1700	3410	6740	U
51-28-5	2,4-Dinitrophenol		1700	3410	6740	X, U
121-14-2	2,4-Dinitrotoluene		170	341	674	U
606-20-2	2,6-Dinitrotoluene		170	341	674	U
117-84-0	Di-n-octylphthalate		170	341	674	X, U
123-91-1	1,4-Dioxane		170	341	674	U

ANALYSIS DATA SHEET

55SB04-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-25	File ID:	0817125D.D
Sampled:	08/12/11 09:15	Prepared:	08/24/11 09:00	Analyzed:	09/05/11 02:34
Solids:	96.60	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24909 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		170	341	674	X, U
206-44-0	Fluoranthene		170	341	674	U
86-73-7	Fluorene		170	341	674	U
118-74-1	Hexachlorobenzene		170	341	674	U
87-68-3	Hexachlorobutadiene		170	341	674	U
77-47-4	Hexachlorocyclopentadiene		170	341	674	U
67-72-1	Hexachloroethane		170	341	674	U
193-39-5	Indeno(1,2,3-cd)pyrene		170	341	674	U
78-59-1	Isophorone		170	341	674	U
90-12-0	1-Methylnaphthalene		170	341	674	U
91-57-6	2-Methylnaphthalene		170	341	674	U
95-48-7	2-Methylphenol		170	341	674	U
106-44-5	4-Methylphenol		170	341	674	U
91-20-3	Naphthalene		170	341	674	U
100-01-6	4-Nitroaniline		680	1360	2660	U
99-09-2	3-Nitroaniline		680	1360	2660	U
88-74-4	2-Nitroaniline		680	1360	2660	U
98-95-3	Nitrobenzene		170	341	674	U
100-02-7	4-Nitrophenol		680	1360	2660	U
88-75-5	2-Nitrophenol		170	341	674	U
86-30-6	N-Nitrosodiphenylamine		170	341	674	U
621-64-7	N-Nitroso-di-n-propylamine		170	341	674	U
87-86-5	Pentachlorophenol		680	1360	2660	U
85-01-8	Phenanthrene		170	341	674	U
108-95-2	Phenol		170	341	674	U
129-00-0	Pyrene		170	341	674	U
95-94-3	1,2,4,5-Tetrachlorobenzene		170	341	674	U
58-90-2	2,3,4,6-Tetrachlorophenol		170	341	674	U
88-06-2	2,4,6-Trichlorophenol		170	341	674	U
95-95-4	2,4,5-Trichlorophenol		170	341	674	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3337	2051	61.5	45 - 105	
2-Fluorophenol	6810	3337	49.0	35 - 105	
Nitrobenzene-d5	3337	1633	48.9	35 - 100	
Phenol-d6	6810	3412	50.1	40 - 100	
Terphenyl-d14	3337	2457	73.6	30 - 125	
2,4,6-Tribromophenol	6810	3761	55.2	35 - 125	

ANALYSIS DATA SHEET

55SB04-0204D

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-26	File ID:	0817126.D
Sampled:	08/12/11 09:15	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 03:18
Solids:	80.83	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		100	201	398	U
208-96-8	Acenaphthylene		100	201	398	U
98-86-2	Acetophenone		100	201	398	U
120-12-7	Anthracene		100	201	398	U
1912-24-9	Atrazine		100	201	398	U
100-52-7	Benzaldehyde		100	201	398	U
56-55-3	Benzo(a)anthracene		100	201	398	U
50-32-8	Benzo(a)pyrene		100	201	398	U
205-99-2	Benzo(b)fluoranthene		100	201	398	X, U
191-24-2	Benzo(g,h,i)perylene		100	201	398	U
207-08-9	Benzo(k)fluoranthene		100	201	398	U
92-52-4	1,1-Biphenyl		100	201	398	U
101-55-3	4-Bromophenyl-phenylether		100	201	398	U
85-68-7	Butylbenzylphthalate		100	201	398	X, U
105-60-2	Caprolactam		100	201	398	U
86-74-8	Carbazole		100	201	398	U
59-50-7	4-Chloro-3-methylphenol		100	201	398	U
106-47-8	4-Chloroaniline		100	201	398	U
111-91-1	Bis(2-chloroethoxy)methane		100	201	398	U
111-44-4	Bis(2-chloroethyl)ether		100	201	398	U
108-60-1	2,2'-Oxybis-1-chloropropane		100	201	398	U
91-58-7	2-Chloronaphthalene		100	201	398	X, U
95-57-8	2-Chlorophenol		100	201	398	U
7005-72-3	4-Chlorophenyl phenyl ether		100	201	398	U
218-01-9	Chrysene		100	201	398	U
53-70-3	Dibenz(a,h)anthracene		100	201	398	U
132-64-9	Dibenzofuran		100	201	398	U
84-74-2	Di-n-butylphthalate		100	201	398	U
91-94-1	3,3'-Dichlorobenzidine		100	201	398	X, U
120-83-2	2,4-Dichlorophenol		100	201	398	U
84-66-2	Diethylphthalate		100	201	398	U
105-67-9	2,4-Dimethylphenol		401	804	1570	U
131-11-3	Dimethyl phthalate		100	201	398	U
534-52-1	4,6-Dinitro-2-methylphenol		1000	2010	3980	U
51-28-5	2,4-Dinitrophenol		1000	2010	3980	X, U
121-14-2	2,4-Dinitrotoluene		100	201	398	U
606-20-2	2,6-Dinitrotoluene		100	201	398	U
117-84-0	Di-n-octylphthalate		100	201	398	X, U
123-91-1	1,4-Dioxane		100	201	398	U

ANALYSIS DATA SHEET

55SB04-0204D

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-26	File ID:	0817126.D
Sampled:	08/12/11 09:15	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 03:18
Solids:	80.83	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		100	201	398	X, U
206-44-0	Fluoranthene		100	201	398	U
86-73-7	Fluorene		100	201	398	U
118-74-1	Hexachlorobenzene		100	201	398	U
87-68-3	Hexachlorobutadiene		100	201	398	U
77-47-4	Hexachlorocyclopentadiene		100	201	398	U
67-72-1	Hexachloroethane		100	201	398	U
193-39-5	Indeno(1,2,3-cd)pyrene		100	201	398	U
78-59-1	Isophorone		100	201	398	U
90-12-0	1-Methylnaphthalene		100	201	398	U
91-57-6	2-Methylnaphthalene		100	201	398	U
95-48-7	2-Methylphenol		100	201	398	U
106-44-5	4-Methylphenol		100	201	398	U
91-20-3	Naphthalene		100	201	398	U
100-01-6	4-Nitroaniline		401	804	1570	U
99-09-2	3-Nitroaniline		401	804	1570	U
88-74-4	2-Nitroaniline		401	804	1570	U
98-95-3	Nitrobenzene		100	201	398	U
100-02-7	4-Nitrophenol		401	804	1570	U
88-75-5	2-Nitrophenol		100	201	398	U
86-30-6	N-Nitrosodiphenylamine		100	201	398	U
621-64-7	N-Nitroso-di-n-propylamine		100	201	398	U
87-86-5	Pentachlorophenol		401	804	1570	U
85-01-8	Phenanthrene		100	201	398	U
108-95-2	Phenol		100	201	398	U
129-00-0	Pyrene		100	201	398	U
95-94-3	1,2,4,5-Tetrachlorobenzene		100	201	398	U
58-90-2	2,3,4,6-Tetrachlorophenol		100	201	398	U
88-06-2	2,4,6-Trichlorophenol		100	201	398	U
95-95-4	2,4,5-Trichlorophenol		100	201	398	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3937	2483	63.1	45 - 105	
2-Fluorophenol	8034	5658	70.4	35 - 105	
Nitrobenzene-d5	3937	2409	61.2	35 - 100	
Phenol-d6	8034	5450	67.8	40 - 100	
Terphenyl-d14	3937	2690	68.3	30 - 125	
2,4,6-Tribromophenol	8034	4603	57.3	35 - 125	

ANALYSIS DATA SHEET

55SB07-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-29	File ID:	0817129.D
Sampled:	08/12/11 10:35	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 04:40
Solids:	80.60	Preparation:	EXT_3546	Dilution:	1
Batch:	1H18012	Sequence: 1I24413	Calibration:	1122001	Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		103	206	407	U
208-96-8	Acenaphthylene		103	206	407	U
98-86-2	Acetophenone		103	206	407	U
120-12-7	Anthracene		103	206	407	U
1912-24-9	Atrazine		103	206	407	U
100-52-7	Benzaldehyde		103	206	407	U
56-55-3	Benzo(a)anthracene		103	206	407	U
50-32-8	Benzo(a)pyrene		103	206	407	U
205-99-2	Benzo(b)fluoranthene		103	206	407	X, U
191-24-2	Benzo(g,h,i)perylene		103	206	407	U
207-08-9	Benzo(k)fluoranthene		103	206	407	U
92-52-4	1,1-Biphenyl		103	206	407	U
101-55-3	4-Bromophenyl-phenylether		103	206	407	U
85-68-7	Butylbenzylphthalate		103	206	407	X, U
105-60-2	Caprolactam		103	206	407	U
86-74-8	Carbazole		103	206	407	U
59-50-7	4-Chloro-3-methylphenol		103	206	407	U
106-47-8	4-Chloroaniline		103	206	407	U
111-91-1	Bis(2-chloroethoxy)methane		103	206	407	U
111-44-4	Bis(2-chloroethyl)ether		103	206	407	U
108-60-1	2,2'-Oxybis-1-chloropropane		103	206	407	U
91-58-7	2-Chloronaphthalene		103	206	407	X, U
95-57-8	2-Chlorophenol		103	206	407	U
7005-72-3	4-Chlorophenyl phenyl ether		103	206	407	U
218-01-9	Chrysene		103	206	407	U
53-70-3	Dibenz(a,h)anthracene		103	206	407	U
132-64-9	Dibenzofuran		103	206	407	U
84-74-2	Di-n-butylphthalate		103	206	407	U
91-94-1	3,3'-Dichlorobenzidine		103	206	407	X, U
120-83-2	2,4-Dichlorophenol		103	206	407	U
84-66-2	Diethylphthalate		103	206	407	U
105-67-9	2,4-Dimethylphenol		410	822	1600	U
131-11-3	Dimethyl phthalate		103	206	407	U
534-52-1	4,6-Dinitro-2-methylphenol		1030	2060	4070	U
51-28-5	2,4-Dinitrophenol		1030	2060	4070	X, U
121-14-2	2,4-Dinitrotoluene		103	206	407	U
606-20-2	2,6-Dinitrotoluene		103	206	407	U
117-84-0	Di-n-octylphthalate		103	206	407	X, U
123-91-1	1,4-Dioxane		103	206	407	U

ANALYSIS DATA SHEET

55SB07-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-29	File ID:	0817129.D
Sampled:	08/12/11 10:35	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 04:40
Solids:	80.60	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		103	206	407	X, U
206-44-0	Fluoranthene		103	206	407	U
86-73-7	Fluorene		103	206	407	U
118-74-1	Hexachlorobenzene		103	206	407	U
87-68-3	Hexachlorobutadiene		103	206	407	U
77-47-4	Hexachlorocyclopentadiene		103	206	407	U
67-72-1	Hexachloroethane		103	206	407	U
193-39-5	Indeno(1,2,3-cd)pyrene		103	206	407	U
78-59-1	Isophorone		103	206	407	U
90-12-0	1-Methylnaphthalene		103	206	407	U
91-57-6	2-Methylnaphthalene		103	206	407	U
95-48-7	2-Methylphenol		103	206	407	U
106-44-5	4-Methylphenol		103	206	407	U
91-20-3	Naphthalene		103	206	407	U
100-01-6	4-Nitroaniline		410	822	1600	U
99-09-2	3-Nitroaniline		410	822	1600	U
88-74-4	2-Nitroaniline		410	822	1600	U
98-95-3	Nitrobenzene		103	206	407	U
100-02-7	4-Nitrophenol		410	822	1600	U
88-75-5	2-Nitrophenol		103	206	407	U
86-30-6	N-Nitrosodiphenylamine		103	206	407	U
621-64-7	N-Nitroso-di-n-propylamine		103	206	407	U
87-86-5	Pentachlorophenol		410	822	1600	U
85-01-8	Phenanthrene		103	206	407	U
108-95-2	Phenol		103	206	407	U
129-00-0	Pyrene		103	206	407	U
95-94-3	1,2,4,5-Tetrachlorobenzene		103	206	407	U
58-90-2	2,3,4,6-Tetrachlorophenol		103	206	407	U
88-06-2	2,4,6-Trichlorophenol		103	206	407	U
95-95-4	2,4,5-Trichlorophenol		103	206	407	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4026	3046	75.7	45 - 105	
2-Fluorophenol	8216	6414	78.1	35 - 105	
Nitrobenzene-d5	4026	2647	65.8	35 - 100	
Phenol-d6	8216	6054	73.7	40 - 100	
Terphenyl-d14	4026	3488	86.6	30 - 125	
2,4,6-Tribromophenol	8216	5593	68.1	35 - 125	

ANALYSIS DATA SHEET

55SB09-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-36	File ID:	0817136.D
Sampled:	08/12/11 12:55	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 06:58
Solids:	72.95	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		111	223	441	U
208-96-8	Acenaphthylene		111	223	441	U
98-86-2	Acetophenone		111	223	441	U
120-12-7	Anthracene		111	223	441	U
1912-24-9	Atrazine		111	223	441	U
100-52-7	Benzaldehyde		111	223	441	U
56-55-3	Benzo(a)anthracene		111	223	441	U
50-32-8	Benzo(a)pyrene		111	223	441	U
205-99-2	Benzo(b)fluoranthene		111	223	441	X, U
191-24-2	Benzo(g,h,i)perylene		111	223	441	U
207-08-9	Benzo(k)fluoranthene		111	223	441	U
92-52-4	1,1-Biphenyl		111	223	441	U
101-55-3	4-Bromophenyl-phenylether		111	223	441	U
85-68-7	Butylbenzylphthalate		111	223	441	X, U
105-60-2	Caprolactam		111	223	441	U
86-74-8	Carbazole		111	223	441	U
59-50-7	4-Chloro-3-methylphenol		111	223	441	U
106-47-8	4-Chloroaniline		111	223	441	U
111-91-1	Bis(2-chloroethoxy)methane		111	223	441	U
111-44-4	Bis(2-chloroethyl)ether		111	223	441	U
108-60-1	2,2'-Oxybis-1-chloropropane		111	223	441	U
91-58-7	2-Chloronaphthalene		111	223	441	U
95-57-8	2-Chlorophenol		111	223	441	U
7005-72-3	4-Chlorophenyl phenyl ether		111	223	441	U
218-01-9	Chrysene		111	223	441	U
53-70-3	Dibenz(a,h)anthracene		111	223	441	U
132-64-9	Dibenzofuran		111	223	441	U
84-74-2	Di-n-butylphthalate		111	223	441	U
91-94-1	3,3'-Dichlorobenzidine		111	223	441	X, U
120-83-2	2,4-Dichlorophenol		111	223	441	U
84-66-2	Diethylphthalate		111	223	441	U
105-67-9	2,4-Dimethylphenol		445	891	1740	U
131-11-3	Dimethyl phthalate		111	223	441	U
534-52-1	4,6-Dinitro-2-methylphenol		1110	2230	4410	U
51-28-5	2,4-Dinitrophenol		1110	2230	4410	X, U
121-14-2	2,4-Dinitrotoluene		111	223	441	U
606-20-2	2,6-Dinitrotoluene		111	223	441	U
117-84-0	Di-n-octylphthalate		111	223	441	X, U
123-91-1	1,4-Dioxane		111	223	441	U

ANALYSIS DATA SHEET

55SB09-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-36	File ID:	0817136.D
Sampled:	08/12/11 12:55	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 06:58
Solids:	72.95	Preparation:	EXT_3546	Dilution:	1
Batch:	1H18012	Sequence:	1I24513	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		111	223	441	X, U
206-44-0	Fluoranthene		111	223	441	U
86-73-7	Fluorene		111	223	441	U
118-74-1	Hexachlorobenzene		111	223	441	U
87-68-3	Hexachlorobutadiene		111	223	441	U
77-47-4	Hexachlorocyclopentadiene		111	223	441	U
67-72-1	Hexachloroethane		111	223	441	U
193-39-5	Indeno(1,2,3-cd)pyrene		111	223	441	U
78-59-1	Isophorone		111	223	441	U
90-12-0	1-Methylnaphthalene		111	223	441	U
91-57-6	2-Methylnaphthalene		111	223	441	U
95-48-7	2-Methylphenol		111	223	441	U
106-44-5	4-Methylphenol		111	223	441	U
91-20-3	Naphthalene		111	223	441	U
100-01-6	4-Nitroaniline		445	891	1740	U
99-09-2	3-Nitroaniline		445	891	1740	U
88-74-4	2-Nitroaniline		445	891	1740	U
98-95-3	Nitrobenzene		111	223	441	U
100-02-7	4-Nitrophenol		445	891	1740	U
88-75-5	2-Nitrophenol		111	223	441	U
86-30-6	N-Nitrosodiphenylamine		111	223	441	U
621-64-7	N-Nitroso-di-n-propylamine		111	223	441	U
87-86-5	Pentachlorophenol		445	891	1740	U
85-01-8	Phenanthrene		111	223	441	U
108-95-2	Phenol		111	223	441	U
129-00-0	Pyrene		111	223	441	U
95-94-3	1,2,4,5-Tetrachlorobenzene		111	223	441	U
58-90-2	2,3,4,6-Tetrachlorophenol		111	223	441	U
88-06-2	2,4,6-Trichlorophenol		111	223	441	U
95-95-4	2,4,5-Trichlorophenol		111	223	441	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4362	3445	79.0	45 - 105	
2-Fluorophenol	8901	7363	82.7	35 - 105	
Nitrobenzene-d5	4362	3058	70.1	35 - 100	
Phenol-d6	8901	6885	77.4	40 - 100	
Terphenyl-d14	4362	3838	88.0	30 - 125	
2,4,6-Tribromophenol	8901	6771	76.1	35 - 125	

ANALYSIS DATA SHEET

55SS03-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-30	File ID:	0817130.D
Sampled:	08/12/11 11:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 13:27
Solids:	84.79	Preparation:	EXT_3546	Dilution:	1
Batch:	1H18012	Sequence: 1I24512	Calibration:	1122001	Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		96.3	193	382	U
208-96-8	Acenaphthylene		96.3	193	382	U
98-86-2	Acetophenone		96.3	193	382	U
120-12-7	Anthracene		96.3	193	382	U
1912-24-9	Atrazine		96.3	193	382	Y, U
100-52-7	Benzaldehyde	635	96.3	193	382	Y
56-55-3	Benzo(a)anthracene		96.3	193	382	U
50-32-8	Benzo(a)pyrene		96.3	193	382	U
205-99-2	Benzo(b)fluoranthene		96.3	193	382	X, U
191-24-2	Benzo(g,h,i)perylene		96.3	193	382	U
207-08-9	Benzo(k)fluoranthene		96.3	193	382	U
92-52-4	1,1-Biphenyl		96.3	193	382	U
101-55-3	4-Bromophenyl-phenylether		96.3	193	382	U
85-68-7	Butylbenzylphthalate		96.3	193	382	X, U
105-60-2	Caprolactam		96.3	193	382	U
86-74-8	Carbazole		96.3	193	382	U
59-50-7	4-Chloro-3-methylphenol		96.3	193	382	U
106-47-8	4-Chloroaniline		96.3	193	382	U
111-91-1	Bis(2-chloroethoxy)methane		96.3	193	382	U
111-44-4	Bis(2-chloroethyl)ether		96.3	193	382	U
108-60-1	2,2'-Oxybis-1-chloropropane		96.3	193	382	U
91-58-7	2-Chloronaphthalene		96.3	193	382	U
95-57-8	2-Chlorophenol		96.3	193	382	U
7005-72-3	4-Chlorophenyl phenyl ether		96.3	193	382	U
218-01-9	Chrysene		96.3	193	382	U
53-70-3	Dibenz(a,h)anthracene		96.3	193	382	U
132-64-9	Dibenzofuran		96.3	193	382	U
84-74-2	Di-n-butylphthalate		96.3	193	382	U
91-94-1	3,3'-Dichlorobenzidine		96.3	193	382	X, U
120-83-2	2,4-Dichlorophenol		96.3	193	382	U
84-66-2	Diethylphthalate		96.3	193	382	U
105-67-9	2,4-Dimethylphenol		385	771	1500	U
131-11-3	Dimethyl phthalate		96.3	193	382	U
534-52-1	4,6-Dinitro-2-methylphenol		963	1930	3820	U
51-28-5	2,4-Dinitrophenol		963	1930	3820	X, U
121-14-2	2,4-Dinitrotoluene		96.3	193	382	U
606-20-2	2,6-Dinitrotoluene		96.3	193	382	U
117-84-0	Di-n-octylphthalate		96.3	193	382	X, U
123-91-1	1,4-Dioxane		96.3	193	382	U

ANALYSIS DATA SHEET

55SS03-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-30	File ID:	0817130.D
Sampled:	08/12/11 11:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 13:27
Solids:	84.79	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24512 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		96.3	193	382	X, U
206-44-0	Fluoranthene		96.3	193	382	U
86-73-7	Fluorene		96.3	193	382	U
118-74-1	Hexachlorobenzene		96.3	193	382	U
87-68-3	Hexachlorobutadiene		96.3	193	382	U
77-47-4	Hexachlorocyclopentadiene		96.3	193	382	U
67-72-1	Hexachloroethane		96.3	193	382	U
193-39-5	Indeno(1,2,3-cd)pyrene		96.3	193	382	U
78-59-1	Isophorone		96.3	193	382	U
90-12-0	1-Methylnaphthalene		96.3	193	382	U
91-57-6	2-Methylnaphthalene		96.3	193	382	U
95-48-7	2-Methylphenol		96.3	193	382	U
106-44-5	4-Methylphenol		96.3	193	382	U
91-20-3	Naphthalene		96.3	193	382	U
100-01-6	4-Nitroaniline		385	771	1500	U
99-09-2	3-Nitroaniline		385	771	1500	U
88-74-4	2-Nitroaniline		385	771	1500	U
98-95-3	Nitrobenzene		96.3	193	382	U
100-02-7	4-Nitrophenol		385	771	1500	U
88-75-5	2-Nitrophenol		96.3	193	382	U
86-30-6	N-Nitrosodiphenylamine		96.3	193	382	U
621-64-7	N-Nitroso-di-n-propylamine		96.3	193	382	U
87-86-5	Pentachlorophenol		385	771	1500	U
85-01-8	Phenanthrene		96.3	193	382	U
108-95-2	Phenol		96.3	193	382	U
129-00-0	Pyrene		96.3	193	382	U
95-94-3	1,2,4,5-Tetrachlorobenzene		96.3	193	382	U
58-90-2	2,3,4,6-Tetrachlorophenol		96.3	193	382	U
88-06-2	2,4,6-Trichlorophenol		96.3	193	382	U
95-95-4	2,4,5-Trichlorophenol		96.3	193	382	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	7554	5314	70.3	45 - 105	
2-Fluorophenol	15420	9517	61.7	35 - 105	
Nitrobenzene-d5	7554	4420	58.5	35 - 100	
Phenol-d6	15420	9653	62.6	40 - 100	
Terphenyl-d14	7554	5966	79.0	30 - 125	
2,4,6-Tribromophenol	15420	10250	66.5	35 - 125	

ANALYSIS DATA SHEET

55SS03-000XD

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-31	File ID:	0817131.D
Sampled:	08/12/11 11:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 14:14
Solids:	84.34	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24512 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		96.2	193	381	U
208-96-8	Acenaphthylene		96.2	193	381	U
98-86-2	Acetophenone		96.2	193	381	U
120-12-7	Anthracene		96.2	193	381	U
1912-24-9	Atrazine		96.2	193	381	Y, U
100-52-7	Benzaldehyde	470	96.2	193	381	Y
56-55-3	Benzo(a)anthracene		96.2	193	381	U
50-32-8	Benzo(a)pyrene		96.2	193	381	U
205-99-2	Benzo(b)fluoranthene		96.2	193	381	X, U
191-24-2	Benzo(g,h,i)perylene		96.2	193	381	U
207-08-9	Benzo(k)fluoranthene		96.2	193	381	U
92-52-4	1,1-Biphenyl		96.2	193	381	U
101-55-3	4-Bromophenyl-phenylether		96.2	193	381	U
85-68-7	Butylbenzylphthalate		96.2	193	381	X, U
105-60-2	Caprolactam		96.2	193	381	U
86-74-8	Carbazole		96.2	193	381	U
59-50-7	4-Chloro-3-methylphenol		96.2	193	381	U
106-47-8	4-Chloroaniline		96.2	193	381	U
111-91-1	Bis(2-chloroethoxy)methane		96.2	193	381	U
111-44-4	Bis(2-chloroethyl)ether		96.2	193	381	U
108-60-1	2,2'-Oxybis-1-chloropropane		96.2	193	381	U
91-58-7	2-Chloronaphthalene		96.2	193	381	U
95-57-8	2-Chlorophenol		96.2	193	381	U
7005-72-3	4-Chlorophenyl phenyl ether		96.2	193	381	U
218-01-9	Chrysene		96.2	193	381	U
53-70-3	Dibenz(a,h)anthracene		96.2	193	381	U
132-64-9	Dibenzofuran		96.2	193	381	U
84-74-2	Di-n-butylphthalate		96.2	193	381	U
91-94-1	3,3'-Dichlorobenzidine		96.2	193	381	X, U
120-83-2	2,4-Dichlorophenol		96.2	193	381	U
84-66-2	Diethylphthalate		96.2	193	381	U
105-67-9	2,4-Dimethylphenol		385	770	1500	U
131-11-3	Dimethyl phthalate		96.2	193	381	U
534-52-1	4,6-Dinitro-2-methylphenol		962	1930	3810	U
51-28-5	2,4-Dinitrophenol		962	1930	3810	X, U
121-14-2	2,4-Dinitrotoluene		96.2	193	381	U
606-20-2	2,6-Dinitrotoluene		96.2	193	381	U
117-84-0	Di-n-octylphthalate		96.2	193	381	X, U
123-91-1	1,4-Dioxane		96.2	193	381	U

ANALYSIS DATA SHEET

55SS03-000XD

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-31	File ID:	0817131.D
Sampled:	08/12/11 11:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 14:14
Solids:	84.34	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24512 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		96.2	193	381	X, U
206-44-0	Fluoranthene		96.2	193	381	U
86-73-7	Fluorene		96.2	193	381	U
118-74-1	Hexachlorobenzene		96.2	193	381	U
87-68-3	Hexachlorobutadiene		96.2	193	381	U
77-47-4	Hexachlorocyclopentadiene		96.2	193	381	U
67-72-1	Hexachloroethane		96.2	193	381	U
193-39-5	Indeno(1,2,3-cd)pyrene		96.2	193	381	U
78-59-1	Isophorone		96.2	193	381	U
90-12-0	1-Methylnaphthalene		96.2	193	381	U
91-57-6	2-Methylnaphthalene		96.2	193	381	U
95-48-7	2-Methylphenol		96.2	193	381	U
106-44-5	4-Methylphenol		96.2	193	381	U
91-20-3	Naphthalene		96.2	193	381	U
100-01-6	4-Nitroaniline		385	770	1500	U
99-09-2	3-Nitroaniline		385	770	1500	U
88-74-4	2-Nitroaniline		385	770	1500	U
98-95-3	Nitrobenzene		96.2	193	381	U
100-02-7	4-Nitrophenol		385	770	1500	U
88-75-5	2-Nitrophenol		96.2	193	381	U
86-30-6	N-Nitrosodiphenylamine		96.2	193	381	U
621-64-7	N-Nitroso-di-n-propylamine		96.2	193	381	U
87-86-5	Pentachlorophenol		385	770	1500	U
85-01-8	Phenanthrene		96.2	193	381	U
108-95-2	Phenol		96.2	193	381	U
129-00-0	Pyrene		96.2	193	381	U
95-94-3	1,2,4,5-Tetrachlorobenzene		96.2	193	381	U
58-90-2	2,3,4,6-Tetrachlorophenol		96.2	193	381	U
88-06-2	2,4,6-Trichlorophenol		96.2	193	381	U
95-95-4	2,4,5-Trichlorophenol		96.2	193	381	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3773	2311	61.3	45 - 105	
2-Fluorophenol	7699	4559	59.2	35 - 105	
Nitrobenzene-d5	3773	1898	50.3	35 - 100	
Phenol-d6	7699	4090	53.1	40 - 100	
Terphenyl-d14	3773	2533	67.1	30 - 125	
2,4,6-Tribromophenol	7699	4490	58.3	35 - 125	

ANALYSIS DATA SHEET

55SS03-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-32	File ID:	0817132.D
Sampled:	08/12/11 11:35	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 07:19
Solids:	73.99	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		110	220	434	U
208-96-8	Acenaphthylene		110	220	434	U
98-86-2	Acetophenone		110	220	434	U
120-12-7	Anthracene		110	220	434	U
1912-24-9	Atrazine		110	220	434	U
100-52-7	Benzaldehyde		110	220	434	U
56-55-3	Benzo(a)anthracene		110	220	434	U
50-32-8	Benzo(a)pyrene		110	220	434	U
205-99-2	Benzo(b)fluoranthene		110	220	434	X, U
191-24-2	Benzo(g,h,i)perylene		110	220	434	U
207-08-9	Benzo(k)fluoranthene		110	220	434	U
92-52-4	1,1-Biphenyl		110	220	434	U
101-55-3	4-Bromophenyl-phenylether		110	220	434	U
85-68-7	Butylbenzylphthalate		110	220	434	X, U
105-60-2	Caprolactam		110	220	434	U
86-74-8	Carbazole		110	220	434	U
59-50-7	4-Chloro-3-methylphenol		110	220	434	U
106-47-8	4-Chloroaniline		110	220	434	U
111-91-1	Bis(2-chloroethoxy)methane		110	220	434	U
111-44-4	Bis(2-chloroethyl)ether		110	220	434	U
108-60-1	2,2'-Oxybis-1-chloropropane		110	220	434	U
91-58-7	2-Chloronaphthalene		110	220	434	X, U
95-57-8	2-Chlorophenol		110	220	434	U
7005-72-3	4-Chlorophenyl phenyl ether		110	220	434	U
218-01-9	Chrysene		110	220	434	U
53-70-3	Dibenz(a,h)anthracene		110	220	434	U
132-64-9	Dibenzofuran		110	220	434	U
84-74-2	Di-n-butylphthalate		110	220	434	U
91-94-1	3,3'-Dichlorobenzidine		110	220	434	X, U
120-83-2	2,4-Dichlorophenol		110	220	434	U
84-66-2	Diethylphthalate		110	220	434	U
105-67-9	2,4-Dimethylphenol		438	878	1710	U
131-11-3	Dimethyl phthalate		110	220	434	U
534-52-1	4,6-Dinitro-2-methylphenol		1100	2200	4340	U
51-28-5	2,4-Dinitrophenol		1100	2200	4340	X, U
121-14-2	2,4-Dinitrotoluene		110	220	434	U
606-20-2	2,6-Dinitrotoluene		110	220	434	U
117-84-0	Di-n-octylphthalate		110	220	434	X, U
123-91-1	1,4-Dioxane		110	220	434	U

ANALYSIS DATA SHEET

55SS03-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-32	File ID:	0817132.D
Sampled:	08/12/11 11:35	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 07:19
Solids:	73.99	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		110	220	434	X, U
206-44-0	Fluoranthene		110	220	434	U
86-73-7	Fluorene		110	220	434	U
118-74-1	Hexachlorobenzene		110	220	434	U
87-68-3	Hexachlorobutadiene		110	220	434	U
77-47-4	Hexachlorocyclopentadiene		110	220	434	U
67-72-1	Hexachloroethane		110	220	434	U
193-39-5	Indeno(1,2,3-cd)pyrene		110	220	434	U
78-59-1	Isophorone		110	220	434	U
90-12-0	1-Methylnaphthalene		110	220	434	U
91-57-6	2-Methylnaphthalene		110	220	434	U
95-48-7	2-Methylphenol		110	220	434	U
106-44-5	4-Methylphenol		110	220	434	U
91-20-3	Naphthalene		110	220	434	U
100-01-6	4-Nitroaniline		438	878	1710	U
99-09-2	3-Nitroaniline		438	878	1710	U
88-74-4	2-Nitroaniline		438	878	1710	U
98-95-3	Nitrobenzene		110	220	434	U
100-02-7	4-Nitrophenol		438	878	1710	U
88-75-5	2-Nitrophenol		110	220	434	U
86-30-6	N-Nitrosodiphenylamine		110	220	434	U
621-64-7	N-Nitroso-di-n-propylamine		110	220	434	U
87-86-5	Pentachlorophenol		438	878	1710	U
85-01-8	Phenanthrene		110	220	434	U
108-95-2	Phenol		110	220	434	U
129-00-0	Pyrene		110	220	434	U
95-94-3	1,2,4,5-Tetrachlorobenzene		110	220	434	U
58-90-2	2,3,4,6-Tetrachlorophenol		110	220	434	U
88-06-2	2,4,6-Trichlorophenol		110	220	434	U
95-95-4	2,4,5-Trichlorophenol		110	220	434	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4300	3057	71.1	45 - 105	
2-Fluorophenol	8776	7241	82.5	35 - 105	
Nitrobenzene-d5	4300	2980	69.3	35 - 100	
Phenol-d6	8776	6651	75.8	40 - 100	
Terphenyl-d14	4300	3439	80.0	30 - 125	
2,4,6-Tribromophenol	8776	6276	71.5	35 - 125	

ANALYSIS DATA SHEET

55SS04-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-22	File ID:	0817122D.D
Sampled:	08/12/11 09:00	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 09:05
Solids:	73.01	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		228	457	904	U
208-96-8	Acenaphthylene		228	457	904	U
98-86-2	Acetophenone		228	457	904	U
120-12-7	Anthracene		228	457	904	U
1912-24-9	Atrazine		228	457	904	U
100-52-7	Benzaldehyde		228	457	904	U
56-55-3	Benzo(a)anthracene		228	457	904	U
50-32-8	Benzo(a)pyrene		228	457	904	U
205-99-2	Benzo(b)fluoranthene		228	457	904	X, U
191-24-2	Benzo(g,h,i)perylene		228	457	904	U
207-08-9	Benzo(k)fluoranthene		228	457	904	U
92-52-4	1,1-Biphenyl		228	457	904	U
101-55-3	4-Bromophenyl-phenylether		228	457	904	U
85-68-7	Butylbenzylphthalate		228	457	904	X, U
105-60-2	Caprolactam		228	457	904	U
86-74-8	Carbazole		228	457	904	U
59-50-7	4-Chloro-3-methylphenol		228	457	904	U
106-47-8	4-Chloroaniline		228	457	904	U
111-91-1	Bis(2-chloroethoxy)methane		228	457	904	U
111-44-4	Bis(2-chloroethyl)ether		228	457	904	U
108-60-1	2,2'-Oxybis-1-chloropropane		228	457	904	U
91-58-7	2-Chloronaphthalene		228	457	904	U
95-57-8	2-Chlorophenol		228	457	904	U
7005-72-3	4-Chlorophenyl phenyl ether		228	457	904	U
218-01-9	Chrysene		228	457	904	U
53-70-3	Dibenz(a,h)anthracene		228	457	904	U
132-64-9	Dibenzofuran		228	457	904	U
84-74-2	Di-n-butylphthalate		228	457	904	U
91-94-1	3,3'-Dichlorobenzidine		228	457	904	X, U
120-83-2	2,4-Dichlorophenol		228	457	904	U
84-66-2	Diethylphthalate		228	457	904	U
105-67-9	2,4-Dimethylphenol		912	1830	3560	U
131-11-3	Dimethyl phthalate		228	457	904	U
534-52-1	4,6-Dinitro-2-methylphenol		2280	4570	9040	U
51-28-5	2,4-Dinitrophenol		2280	4570	9040	X, U
121-14-2	2,4-Dinitrotoluene		228	457	904	U
606-20-2	2,6-Dinitrotoluene		228	457	904	U
117-84-0	Di-n-octylphthalate		228	457	904	X, U
123-91-1	1,4-Dioxane		228	457	904	U

ANALYSIS DATA SHEET

55SS04-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-22	File ID:	0817122D.D
Sampled:	08/12/11 09:00	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 09:05
Solids:	73.01	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		228	457	904	X, U
206-44-0	Fluoranthene		228	457	904	U
86-73-7	Fluorene		228	457	904	U
118-74-1	Hexachlorobenzene		228	457	904	U
87-68-3	Hexachlorobutadiene		228	457	904	U
77-47-4	Hexachlorocyclopentadiene		228	457	904	U
67-72-1	Hexachloroethane		228	457	904	U
193-39-5	Indeno(1,2,3-cd)pyrene		228	457	904	U
78-59-1	Isophorone		228	457	904	U
90-12-0	1-Methylnaphthalene		228	457	904	U
91-57-6	2-Methylnaphthalene		228	457	904	U
95-48-7	2-Methylphenol		228	457	904	U
106-44-5	4-Methylphenol		228	457	904	U
91-20-3	Naphthalene		228	457	904	U
100-01-6	4-Nitroaniline		912	1830	3560	U
99-09-2	3-Nitroaniline		912	1830	3560	U
88-74-4	2-Nitroaniline		912	1830	3560	U
98-95-3	Nitrobenzene		228	457	904	U
100-02-7	4-Nitrophenol		912	1830	3560	U
88-75-5	2-Nitrophenol		228	457	904	U
86-30-6	N-Nitrosodiphenylamine		228	457	904	U
621-64-7	N-Nitroso-di-n-propylamine		228	457	904	U
87-86-5	Pentachlorophenol		912	1830	3560	U
85-01-8	Phenanthrene		228	457	904	U
108-95-2	Phenol		228	457	904	U
129-00-0	Pyrene		228	457	904	U
95-94-3	1,2,4,5-Tetrachlorobenzene		228	457	904	U
58-90-2	2,3,4,6-Tetrachlorophenol		228	457	904	U
88-06-2	2,4,6-Trichlorophenol		228	457	904	U
95-95-4	2,4,5-Trichlorophenol		228	457	904	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4474	1839	41.1	45 - 105	*
2-Fluorophenol	9131	2859	31.3	35 - 105	*
Nitrobenzene-d5	4474	1258	28.1	35 - 100	*
Phenol-d6	9131	2975	32.6	40 - 100	*
Terphenyl-d14	4474	2228	49.8	30 - 125	
2,4,6-Tribromophenol	9131	3840	42.1	35 - 125	

ANALYSIS DATA SHEET

55SS04-000XD

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-23	File ID:	0817123D.D
Sampled:	08/12/11 09:00	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 09:48
Solids:	65.30	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		247	495	978	U
208-96-8	Acenaphthylene		247	495	978	U
98-86-2	Acetophenone		247	495	978	U
120-12-7	Anthracene		247	495	978	U
1912-24-9	Atrazine		247	495	978	U
100-52-7	Benzaldehyde		247	495	978	U
56-55-3	Benzo(a)anthracene		247	495	978	U
50-32-8	Benzo(a)pyrene		247	495	978	U
205-99-2	Benzo(b)fluoranthene		247	495	978	X, U
191-24-2	Benzo(g,h,i)perylene		247	495	978	U
207-08-9	Benzo(k)fluoranthene		247	495	978	U
92-52-4	1,1-Biphenyl		247	495	978	U
101-55-3	4-Bromophenyl-phenylether		247	495	978	U
85-68-7	Butylbenzylphthalate		247	495	978	X, U
105-60-2	Caprolactam		247	495	978	U
86-74-8	Carbazole		247	495	978	U
59-50-7	4-Chloro-3-methylphenol		247	495	978	U
106-47-8	4-Chloroaniline		247	495	978	U
111-91-1	Bis(2-chloroethoxy)methane		247	495	978	U
111-44-4	Bis(2-chloroethyl)ether		247	495	978	U
108-60-1	2,2'-Oxybis-1-chloropropane		247	495	978	U
91-58-7	2-Chloronaphthalene		247	495	978	U
95-57-8	2-Chlorophenol		247	495	978	U
7005-72-3	4-Chlorophenyl phenyl ether		247	495	978	U
218-01-9	Chrysene		247	495	978	U
53-70-3	Dibenz(a,h)anthracene		247	495	978	U
132-64-9	Dibenzofuran		247	495	978	U
84-74-2	Di-n-butylphthalate		247	495	978	U
91-94-1	3,3'-Dichlorobenzidine		247	495	978	X, U
120-83-2	2,4-Dichlorophenol		247	495	978	U
84-66-2	Diethylphthalate		247	495	978	U
105-67-9	2,4-Dimethylphenol		987	1980	3850	U
131-11-3	Dimethyl phthalate		247	495	978	U
534-52-1	4,6-Dinitro-2-methylphenol		2470	4950	9780	U
51-28-5	2,4-Dinitrophenol		2470	4950	9780	X, U
121-14-2	2,4-Dinitrotoluene		247	495	978	U
606-20-2	2,6-Dinitrotoluene		247	495	978	U
117-84-0	Di-n-octylphthalate		247	495	978	X, U
123-91-1	1,4-Dioxane		247	495	978	U

ANALYSIS DATA SHEET

55SS04-000XD

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-23	File ID:	0817123D.D
Sampled:	08/12/11 09:00	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 09:48
Solids:	65.30	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		247	495	978	X, U
206-44-0	Fluoranthene		247	495	978	U
86-73-7	Fluorene		247	495	978	U
118-74-1	Hexachlorobenzene		247	495	978	U
87-68-3	Hexachlorobutadiene		247	495	978	U
77-47-4	Hexachlorocyclopentadiene		247	495	978	U
67-72-1	Hexachloroethane		247	495	978	U
193-39-5	Indeno(1,2,3-cd)pyrene		247	495	978	U
78-59-1	Isophorone		247	495	978	U
90-12-0	1-Methylnaphthalene		247	495	978	U
91-57-6	2-Methylnaphthalene		247	495	978	U
95-48-7	2-Methylphenol		247	495	978	U
106-44-5	4-Methylphenol		247	495	978	U
91-20-3	Naphthalene		247	495	978	U
100-01-6	4-Nitroaniline		987	1980	3850	U
99-09-2	3-Nitroaniline		987	1980	3850	U
88-74-4	2-Nitroaniline		987	1980	3850	U
98-95-3	Nitrobenzene		247	495	978	U
100-02-7	4-Nitrophenol		987	1980	3850	U
88-75-5	2-Nitrophenol		247	495	978	U
86-30-6	N-Nitrosodiphenylamine		247	495	978	U
621-64-7	N-Nitroso-di-n-propylamine		247	495	978	U
87-86-5	Pentachlorophenol		987	1980	3850	U
85-01-8	Phenanthrene		247	495	978	U
108-95-2	Phenol		247	495	978	U
129-00-0	Pyrene		247	495	978	U
95-94-3	1,2,4,5-Tetrachlorobenzene		247	495	978	U
58-90-2	2,3,4,6-Tetrachlorophenol		247	495	978	U
88-06-2	2,4,6-Trichlorophenol		247	495	978	U
95-95-4	2,4,5-Trichlorophenol		247	495	978	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4841	1905	39.3	45 - 105	*
2-Fluorophenol	9879	3045	30.8	35 - 105	*
Nitrobenzene-d5	4841	1375	28.4	35 - 100	*
Phenol-d6	9879	2982	30.2	40 - 100	*
Terphenyl-d14	4841	2294	47.4	30 - 125	
2,4,6-Tribromophenol	9879	3513	35.6	35 - 125	

ANALYSIS DATA SHEET

55SS04-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-38	File ID:	0817138D.D
Sampled:	08/12/11 09:05	Prepared:	08/24/11 09:00	Analyzed:	09/05/11 03:55
Solids:	67.84	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24909 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		242	486	960	U
208-96-8	Acenaphthylene		242	486	960	U
98-86-2	Acetophenone		242	486	960	U
120-12-7	Anthracene		242	486	960	U
1912-24-9	Atrazine		242	486	960	U
100-52-7	Benzaldehyde		242	486	960	U
56-55-3	Benzo(a)anthracene		242	486	960	U
50-32-8	Benzo(a)pyrene		242	486	960	U
205-99-2	Benzo(b)fluoranthene		242	486	960	X, U
191-24-2	Benzo(g,h,i)perylene		242	486	960	U
207-08-9	Benzo(k)fluoranthene		242	486	960	U
92-52-4	1,1-Biphenyl		242	486	960	U
101-55-3	4-Bromophenyl-phenylether		242	486	960	U
85-68-7	Butylbenzylphthalate		242	486	960	X, U
105-60-2	Caprolactam		242	486	960	U
86-74-8	Carbazole		242	486	960	U
59-50-7	4-Chloro-3-methylphenol		242	486	960	U
106-47-8	4-Chloroaniline		242	486	960	U
111-91-1	Bis(2-chloroethoxy)methane		242	486	960	U
111-44-4	Bis(2-chloroethyl)ether		242	486	960	U
108-60-1	2,2'-Oxybis-1-chloropropane		242	486	960	U
91-58-7	2-Chloronaphthalene		242	486	960	U
95-57-8	2-Chlorophenol		242	486	960	U
7005-72-3	4-Chlorophenyl phenyl ether		242	486	960	U
218-01-9	Chrysene		242	486	960	U
53-70-3	Dibenz(a,h)anthracene		242	486	960	U
132-64-9	Dibenzofuran		242	486	960	U
84-74-2	Di-n-butylphthalate		242	486	960	U
91-94-1	3,3'-Dichlorobenzidine		242	486	960	X, U
120-83-2	2,4-Dichlorophenol		242	486	960	U
84-66-2	Diethylphthalate		242	486	960	U
105-67-9	2,4-Dimethylphenol		969	1940	3780	U
131-11-3	Dimethyl phthalate		242	486	960	U
534-52-1	4,6-Dinitro-2-methylphenol		2420	4860	9600	U
51-28-5	2,4-Dinitrophenol		2420	4860	9600	X, U
121-14-2	2,4-Dinitrotoluene		242	486	960	U
606-20-2	2,6-Dinitrotoluene		242	486	960	U
117-84-0	Di-n-octylphthalate		242	486	960	X, U
123-91-1	1,4-Dioxane		242	486	960	U

ANALYSIS DATA SHEET

55SS04-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-38	File ID:	0817138D.D
Sampled:	08/12/11 09:05	Prepared:	08/24/11 09:00	Analyzed:	09/05/11 03:55
Solids:	67.84	Preparation:	EXT_3546	Dilution:	2
Batch:	1H18012	Sequence: 1I24909	Calibration:	1236001	Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		242	486	960	X, U
206-44-0	Fluoranthene		242	486	960	U
86-73-7	Fluorene		242	486	960	U
118-74-1	Hexachlorobenzene		242	486	960	U
87-68-3	Hexachlorobutadiene		242	486	960	U
77-47-4	Hexachlorocyclopentadiene		242	486	960	U
67-72-1	Hexachloroethane		242	486	960	U
193-39-5	Indeno(1,2,3-cd)pyrene		242	486	960	U
78-59-1	Isophorone		242	486	960	U
90-12-0	1-Methylnaphthalene		242	486	960	U
91-57-6	2-Methylnaphthalene		242	486	960	U
95-48-7	2-Methylphenol		242	486	960	U
106-44-5	4-Methylphenol		242	486	960	U
91-20-3	Naphthalene		242	486	960	U
100-01-6	4-Nitroaniline		969	1940	3780	U
99-09-2	3-Nitroaniline		969	1940	3780	U
88-74-4	2-Nitroaniline		969	1940	3780	U
98-95-3	Nitrobenzene		242	486	960	U
100-02-7	4-Nitrophenol		969	1940	3780	U
88-75-5	2-Nitrophenol		242	486	960	U
86-30-6	N-Nitrosodiphenylamine		242	486	960	U
621-64-7	N-Nitroso-di-n-propylamine		242	486	960	U
87-86-5	Pentachlorophenol		969	1940	3780	U
85-01-8	Phenanthrene		242	486	960	U
108-95-2	Phenol		242	486	960	U
129-00-0	Pyrene		242	486	960	U
95-94-3	1,2,4,5-Tetrachlorobenzene		242	486	960	U
58-90-2	2,3,4,6-Tetrachlorophenol		242	486	960	U
88-06-2	2,4,6-Trichlorophenol		242	486	960	U
95-95-4	2,4,5-Trichlorophenol		242	486	960	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4752	2712	57.1	45 - 105	
2-Fluorophenol	9698	3800	39.2	35 - 105	
Nitrobenzene-d5	4752	2215	46.6	35 - 100	
Phenol-d6	9698	4389	45.3	40 - 100	
Terphenyl-d14	4752	3091	65.0	30 - 125	
2,4,6-Tribromophenol	9698	5394	55.6	35 - 125	

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-24	File ID:	0817124D.D
Sampled:	08/12/11 09:05	Prepared:	08/24/11 09:00	Analyzed:	09/05/11 03:14
Solids:	68.36	Preparation:	EXT_3546	Dilution:	2
Batch:	1H18012	Sequence: 1I24909	Calibration:	1236001	Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		237	476	940	U
208-96-8	Acenaphthylene		237	476	940	U
98-86-2	Acetophenone		237	476	940	U
120-12-7	Anthracene		237	476	940	U
1912-24-9	Atrazine		237	476	940	U
100-52-7	Benzaldehyde		237	476	940	U
56-55-3	Benzo(a)anthracene		237	476	940	U
50-32-8	Benzo(a)pyrene		237	476	940	U
205-99-2	Benzo(b)fluoranthene		237	476	940	X, U
191-24-2	Benzo(g,h,i)perylene		237	476	940	U
207-08-9	Benzo(k)fluoranthene		237	476	940	U
92-52-4	1,1-Biphenyl		237	476	940	U
101-55-3	4-Bromophenyl-phenylether		237	476	940	U
85-68-7	Butylbenzylphthalate		237	476	940	X, U
105-60-2	Caprolactam		237	476	940	U
86-74-8	Carbazole		237	476	940	U
59-50-7	4-Chloro-3-methylphenol		237	476	940	U
106-47-8	4-Chloroaniline		237	476	940	U
111-91-1	Bis(2-chloroethoxy)methane		237	476	940	U
111-44-4	Bis(2-chloroethyl)ether		237	476	940	U
108-60-1	2,2'-Oxybis-1-chloropropane		237	476	940	U
91-58-7	2-Chloronaphthalene		237	476	940	U
95-57-8	2-Chlorophenol		237	476	940	U
7005-72-3	4-Chlorophenyl phenyl ether		237	476	940	U
218-01-9	Chrysene		237	476	940	U
53-70-3	Dibenz(a,h)anthracene		237	476	940	U
132-64-9	Dibenzofuran		237	476	940	U
84-74-2	Di-n-butylphthalate		237	476	940	U
91-94-1	3,3'-Dichlorobenzidine		237	476	940	X, U
120-83-2	2,4-Dichlorophenol		237	476	940	U
84-66-2	Diethylphthalate		237	476	940	U
105-67-9	2,4-Dimethylphenol		949	1900	3700	U
131-11-3	Dimethyl phthalate		237	476	940	U
534-52-1	4,6-Dinitro-2-methylphenol		2370	4760	9400	U
51-28-5	2,4-Dinitrophenol		2370	4760	9400	X, U
121-14-2	2,4-Dinitrotoluene		237	476	940	U
606-20-2	2,6-Dinitrotoluene		237	476	940	U
117-84-0	Di-n-octylphthalate		237	476	940	X, U
123-91-1	1,4-Dioxane		237	476	940	U

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-24	File ID:	0817124D.D
Sampled:	08/12/11 09:05	Prepared:	08/24/11 09:00	Analyzed:	09/05/11 03:14
Solids:	68.36	Preparation:	EXT_3546	Dilution:	2

Batch: 1H18012 Sequence: 1I24909 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		237	476	940	X, U
206-44-0	Fluoranthene		237	476	940	U
86-73-7	Fluorene		237	476	940	U
118-74-1	Hexachlorobenzene		237	476	940	U
87-68-3	Hexachlorobutadiene		237	476	940	U
77-47-4	Hexachlorocyclopentadiene		237	476	940	U
67-72-1	Hexachloroethane		237	476	940	U
193-39-5	Indeno(1,2,3-cd)pyrene		237	476	940	U
78-59-1	Isophorone		237	476	940	U
90-12-0	1-Methylnaphthalene		237	476	940	U
91-57-6	2-Methylnaphthalene		237	476	940	U
95-48-7	2-Methylphenol		237	476	940	U
106-44-5	4-Methylphenol		237	476	940	U
91-20-3	Naphthalene		237	476	940	U
100-01-6	4-Nitroaniline		949	1900	3700	U
99-09-2	3-Nitroaniline		949	1900	3700	U
88-74-4	2-Nitroaniline		949	1900	3700	U
98-95-3	Nitrobenzene		237	476	940	U
100-02-7	4-Nitrophenol		949	1900	3700	U
88-75-5	2-Nitrophenol		237	476	940	U
86-30-6	N-Nitrosodiphenylamine		237	476	940	U
621-64-7	N-Nitroso-di-n-propylamine		237	476	940	U
87-86-5	Pentachlorophenol		949	1900	3700	U
85-01-8	Phenanthrene		237	476	940	U
108-95-2	Phenol		237	476	940	U
129-00-0	Pyrene		237	476	940	U
95-94-3	1,2,4,5-Tetrachlorobenzene		237	476	940	U
58-90-2	2,3,4,6-Tetrachlorophenol		237	476	940	U
88-06-2	2,4,6-Trichlorophenol		237	476	940	U
95-95-4	2,4,5-Trichlorophenol		237	476	940	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4654	2540	54.6	45 - 105	
2-Fluorophenol	9499	3187	33.5	35 - 105	*
Nitrobenzene-d5	4654	2136	45.9	35 - 100	
Phenol-d6	9499	4262	44.9	40 - 100	
Terphenyl-d14	4654	2863	61.5	30 - 125	
2,4,6-Tribromophenol	9499	4818	50.7	35 - 125	

ANALYSIS DATA SHEET

55SS07-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-27	File ID:	0817127.D
Sampled:	08/12/11 10:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 12:43
Solids:	83.33	Preparation:	EXT_3546	Dilution:	1
Batch:	1H18012	Sequence:	1I24512	Calibration:	1122001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		98.7	198	391	U
208-96-8	Acenaphthylene		98.7	198	391	U
98-86-2	Acetophenone		98.7	198	391	U
120-12-7	Anthracene		98.7	198	391	U
1912-24-9	Atrazine		98.7	198	391	Y, U
100-52-7	Benzaldehyde		98.7	198	391	Y, U
56-55-3	Benzo(a)anthracene		98.7	198	391	U
50-32-8	Benzo(a)pyrene		98.7	198	391	U
205-99-2	Benzo(b)fluoranthene	117	98.7	198	391	X, I
191-24-2	Benzo(g,h,i)perylene		98.7	198	391	U
207-08-9	Benzo(k)fluoranthene		98.7	198	391	U
92-52-4	1,1-Biphenyl		98.7	198	391	U
101-55-3	4-Bromophenyl-phenylether		98.7	198	391	U
85-68-7	Butylbenzylphthalate		98.7	198	391	X, U
105-60-2	Caprolactam		98.7	198	391	U
86-74-8	Carbazole		98.7	198	391	U
59-50-7	4-Chloro-3-methylphenol		98.7	198	391	U
106-47-8	4-Chloroaniline		98.7	198	391	U
111-91-1	Bis(2-chloroethoxy)methane		98.7	198	391	U
111-44-4	Bis(2-chloroethyl)ether		98.7	198	391	U
108-60-1	2,2'-Oxybis-1-chloropropane		98.7	198	391	U
91-58-7	2-Chloronaphthalene		98.7	198	391	U
95-57-8	2-Chlorophenol		98.7	198	391	U
7005-72-3	4-Chlorophenyl phenyl ether		98.7	198	391	U
218-01-9	Chrysene		98.7	198	391	U
53-70-3	Dibenz(a,h)anthracene		98.7	198	391	U
132-64-9	Dibenzofuran		98.7	198	391	U
84-74-2	Di-n-butylphthalate		98.7	198	391	U
91-94-1	3,3'-Dichlorobenzidine		98.7	198	391	X, U
120-83-2	2,4-Dichlorophenol		98.7	198	391	U
84-66-2	Diethylphthalate		98.7	198	391	U
105-67-9	2,4-Dimethylphenol		394	790	1540	U
131-11-3	Dimethyl phthalate		98.7	198	391	U
534-52-1	4,6-Dinitro-2-methylphenol		987	1980	3910	U
51-28-5	2,4-Dinitrophenol		987	1980	3910	X, U
121-14-2	2,4-Dinitrotoluene		98.7	198	391	U
606-20-2	2,6-Dinitrotoluene		98.7	198	391	U
117-84-0	Di-n-octylphthalate		98.7	198	391	X, U
123-91-1	1,4-Dioxane		98.7	198	391	U

ANALYSIS DATA SHEET

55SS07-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-27	File ID:	0817127.D
Sampled:	08/12/11 10:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 12:43
Solids:	83.33	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24512 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		98.7	198	391	X, U
206-44-0	Fluoranthene		98.7	198	391	U
86-73-7	Fluorene		98.7	198	391	U
118-74-1	Hexachlorobenzene		98.7	198	391	U
87-68-3	Hexachlorobutadiene		98.7	198	391	U
77-47-4	Hexachlorocyclopentadiene		98.7	198	391	U
67-72-1	Hexachloroethane		98.7	198	391	U
193-39-5	Indeno(1,2,3-cd)pyrene		98.7	198	391	U
78-59-1	Isophorone		98.7	198	391	U
90-12-0	1-Methylnaphthalene		98.7	198	391	U
91-57-6	2-Methylnaphthalene		98.7	198	391	U
95-48-7	2-Methylphenol		98.7	198	391	U
106-44-5	4-Methylphenol		98.7	198	391	U
91-20-3	Naphthalene		98.7	198	391	U
100-01-6	4-Nitroaniline		394	790	1540	U
99-09-2	3-Nitroaniline		394	790	1540	U
88-74-4	2-Nitroaniline		394	790	1540	U
98-95-3	Nitrobenzene		98.7	198	391	U
100-02-7	4-Nitrophenol		394	790	1540	U
88-75-5	2-Nitrophenol		98.7	198	391	U
86-30-6	N-Nitrosodiphenylamine		98.7	198	391	U
621-64-7	N-Nitroso-di-n-propylamine		98.7	198	391	U
87-86-5	Pentachlorophenol		394	790	1540	U
85-01-8	Phenanthrene		98.7	198	391	U
108-95-2	Phenol		98.7	198	391	U
129-00-0	Pyrene		98.7	198	391	U
95-94-3	1,2,4,5-Tetrachlorobenzene		98.7	198	391	U
58-90-2	2,3,4,6-Tetrachlorophenol		98.7	198	391	U
88-06-2	2,4,6-Trichlorophenol		98.7	198	391	U
95-95-4	2,4,5-Trichlorophenol		98.7	198	391	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3869	2559	66.1	45 - 105	
2-Fluorophenol	7895	5269	66.7	35 - 105	
Nitrobenzene-d5	3869	2251	58.2	35 - 100	
Phenol-d6	7895	4732	59.9	40 - 100	
Terphenyl-d14	3869	2884	74.6	30 - 125	
2,4,6-Tribromophenol	7895	4895	62.0	35 - 125	

ANALYSIS DATA SHEET

55SS07-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-28	File ID:	0817128.D
Sampled:	08/12/11 10:25	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 04:00
Solids:	77.55	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		102	204	404	U
208-96-8	Acenaphthylene		102	204	404	U
98-86-2	Acetophenone		102	204	404	U
120-12-7	Anthracene		102	204	404	U
1912-24-9	Atrazine		102	204	404	U
100-52-7	Benzaldehyde		102	204	404	U
56-55-3	Benzo(a)anthracene		102	204	404	U
50-32-8	Benzo(a)pyrene		102	204	404	U
205-99-2	Benzo(b)fluoranthene		102	204	404	X, U
191-24-2	Benzo(g,h,i)perylene		102	204	404	U
207-08-9	Benzo(k)fluoranthene		102	204	404	U
92-52-4	1,1-Biphenyl		102	204	404	U
101-55-3	4-Bromophenyl-phenylether		102	204	404	U
85-68-7	Butylbenzylphthalate		102	204	404	X, U
105-60-2	Caprolactam		102	204	404	U
86-74-8	Carbazole		102	204	404	U
59-50-7	4-Chloro-3-methylphenol		102	204	404	U
106-47-8	4-Chloroaniline		102	204	404	U
111-91-1	Bis(2-chloroethoxy)methane		102	204	404	U
111-44-4	Bis(2-chloroethyl)ether		102	204	404	U
108-60-1	2,2'-Oxybis-1-chloropropane		102	204	404	U
91-58-7	2-Chloronaphthalene		102	204	404	X, U
95-57-8	2-Chlorophenol		102	204	404	U
7005-72-3	4-Chlorophenyl phenyl ether		102	204	404	U
218-01-9	Chrysene		102	204	404	U
53-70-3	Dibenz(a,h)anthracene		102	204	404	U
132-64-9	Dibenzofuran		102	204	404	U
84-74-2	Di-n-butylphthalate		102	204	404	U
91-94-1	3,3'-Dichlorobenzidine		102	204	404	X, U
120-83-2	2,4-Dichlorophenol		102	204	404	U
84-66-2	Diethylphthalate		102	204	404	U
105-67-9	2,4-Dimethylphenol		408	817	1590	U
131-11-3	Dimethyl phthalate		102	204	404	U
534-52-1	4,6-Dinitro-2-methylphenol		1020	2040	4040	U
51-28-5	2,4-Dinitrophenol		1020	2040	4040	X, U
121-14-2	2,4-Dinitrotoluene		102	204	404	U
606-20-2	2,6-Dinitrotoluene		102	204	404	U
117-84-0	Di-n-octylphthalate		102	204	404	X, U
123-91-1	1,4-Dioxane		102	204	404	U

ANALYSIS DATA SHEET

55SS07-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-28	File ID:	0817128.D
Sampled:	08/12/11 10:25	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 04:00
Solids:	77.55	Preparation:	EXT_3546	Dilution:	1
Batch:	1H18012	Sequence: 1I24413	Calibration:	1122001	Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		102	204	404	X, U
206-44-0	Fluoranthene		102	204	404	U
86-73-7	Fluorene		102	204	404	U
118-74-1	Hexachlorobenzene		102	204	404	U
87-68-3	Hexachlorobutadiene		102	204	404	U
77-47-4	Hexachlorocyclopentadiene		102	204	404	U
67-72-1	Hexachloroethane		102	204	404	U
193-39-5	Indeno(1,2,3-cd)pyrene		102	204	404	U
78-59-1	Isophorone		102	204	404	U
90-12-0	1-Methylnaphthalene		102	204	404	U
91-57-6	2-Methylnaphthalene		102	204	404	U
95-48-7	2-Methylphenol		102	204	404	U
106-44-5	4-Methylphenol		102	204	404	U
91-20-3	Naphthalene		102	204	404	U
100-01-6	4-Nitroaniline		408	817	1590	U
99-09-2	3-Nitroaniline		408	817	1590	U
88-74-4	2-Nitroaniline		408	817	1590	U
98-95-3	Nitrobenzene		102	204	404	U
100-02-7	4-Nitrophenol		408	817	1590	U
88-75-5	2-Nitrophenol		102	204	404	U
86-30-6	N-Nitrosodiphenylamine		102	204	404	U
621-64-7	N-Nitroso-di-n-propylamine		102	204	404	U
87-86-5	Pentachlorophenol		408	817	1590	U
85-01-8	Phenanthrene		102	204	404	U
108-95-2	Phenol		102	204	404	U
129-00-0	Pyrene		102	204	404	U
95-94-3	1,2,4,5-Tetrachlorobenzene		102	204	404	U
58-90-2	2,3,4,6-Tetrachlorophenol		102	204	404	U
88-06-2	2,4,6-Trichlorophenol		102	204	404	U
95-95-4	2,4,5-Trichlorophenol		102	204	404	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3999	2801	70.0	45 - 105	
2-Fluorophenol	8162	5595	68.6	35 - 105	
Nitrobenzene-d5	3999	2394	59.9	35 - 100	
Phenol-d6	8162	5394	66.1	40 - 100	
Terphenyl-d14	3999	3371	84.3	30 - 125	
2,4,6-Tribromophenol	8162	5390	66.0	35 - 125	

ANALYSIS DATA SHEET

55SS09-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-34	File ID:	0817134.D
Sampled:	08/12/11 12:40	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 07:40
Solids:	68.35	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		118	236	467	U
208-96-8	Acenaphthylene		118	236	467	U
98-86-2	Acetophenone		118	236	467	U
120-12-7	Anthracene		118	236	467	U
1912-24-9	Atrazine		118	236	467	U
100-52-7	Benzaldehyde		118	236	467	U
56-55-3	Benzo(a)anthracene		118	236	467	U
50-32-8	Benzo(a)pyrene		118	236	467	U
205-99-2	Benzo(b)fluoranthene		118	236	467	X, U
191-24-2	Benzo(g,h,i)perylene		118	236	467	U
207-08-9	Benzo(k)fluoranthene		118	236	467	U
92-52-4	1,1-Biphenyl		118	236	467	U
101-55-3	4-Bromophenyl-phenylether		118	236	467	U
85-68-7	Butylbenzylphthalate		118	236	467	X, U
105-60-2	Caprolactam		118	236	467	U
86-74-8	Carbazole		118	236	467	U
59-50-7	4-Chloro-3-methylphenol		118	236	467	U
106-47-8	4-Chloroaniline		118	236	467	U
111-91-1	Bis(2-chloroethoxy)methane		118	236	467	U
111-44-4	Bis(2-chloroethyl)ether		118	236	467	U
108-60-1	2,2'-Oxybis-1-chloropropane		118	236	467	U
91-58-7	2-Chloronaphthalene		118	236	467	U
95-57-8	2-Chlorophenol		118	236	467	U
7005-72-3	4-Chlorophenyl phenyl ether		118	236	467	U
218-01-9	Chrysene		118	236	467	U
53-70-3	Dibenz(a,h)anthracene		118	236	467	U
132-64-9	Dibenzofuran		118	236	467	U
84-74-2	Di-n-butylphthalate		118	236	467	U
91-94-1	3,3'-Dichlorobenzidine		118	236	467	X, U
120-83-2	2,4-Dichlorophenol		118	236	467	U
84-66-2	Diethylphthalate		118	236	467	U
105-67-9	2,4-Dimethylphenol		471	944	1840	U
131-11-3	Dimethyl phthalate		118	236	467	U
534-52-1	4,6-Dinitro-2-methylphenol		1180	2360	4670	U
51-28-5	2,4-Dinitrophenol		1180	2360	4670	X, U
121-14-2	2,4-Dinitrotoluene		118	236	467	U
606-20-2	2,6-Dinitrotoluene		118	236	467	U
117-84-0	Di-n-octylphthalate		118	236	467	X, U
123-91-1	1,4-Dioxane		118	236	467	U

ANALYSIS DATA SHEET

55SS09-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-34	File ID:	0817134.D
Sampled:	08/12/11 12:40	Prepared:	08/24/11 09:00	Analyzed:	09/02/11 07:40
Solids:	68.35	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24513 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		118	236	467	X, U
206-44-0	Fluoranthene		118	236	467	U
86-73-7	Fluorene		118	236	467	U
118-74-1	Hexachlorobenzene		118	236	467	U
87-68-3	Hexachlorobutadiene		118	236	467	U
77-47-4	Hexachlorocyclopentadiene		118	236	467	U
67-72-1	Hexachloroethane		118	236	467	U
193-39-5	Indeno(1,2,3-cd)pyrene		118	236	467	U
78-59-1	Isophorone		118	236	467	U
90-12-0	1-Methylnaphthalene		118	236	467	U
91-57-6	2-Methylnaphthalene		118	236	467	U
95-48-7	2-Methylphenol		118	236	467	U
106-44-5	4-Methylphenol		118	236	467	U
91-20-3	Naphthalene		118	236	467	U
100-01-6	4-Nitroaniline		471	944	1840	U
99-09-2	3-Nitroaniline		471	944	1840	U
88-74-4	2-Nitroaniline		471	944	1840	U
98-95-3	Nitrobenzene		118	236	467	U
100-02-7	4-Nitrophenol		471	944	1840	U
88-75-5	2-Nitrophenol		118	236	467	U
86-30-6	N-Nitrosodiphenylamine		118	236	467	U
621-64-7	N-Nitroso-di-n-propylamine		118	236	467	U
87-86-5	Pentachlorophenol		471	944	1840	U
85-01-8	Phenanthrene		118	236	467	U
108-95-2	Phenol		118	236	467	U
129-00-0	Pyrene		118	236	467	U
95-94-3	1,2,4,5-Tetrachlorobenzene		118	236	467	U
58-90-2	2,3,4,6-Tetrachlorophenol		118	236	467	U
88-06-2	2,4,6-Trichlorophenol		118	236	467	U
95-95-4	2,4,5-Trichlorophenol		118	236	467	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4625	3176	68.7	45 - 105	
2-Fluorophenol	9439	5961	63.1	35 - 105	
Nitrobenzene-d5	4625	2882	62.3	35 - 100	
Phenol-d6	9439	6713	71.1	40 - 100	
Terphenyl-d14	4625	3307	71.5	30 - 125	
2,4,6-Tribromophenol	9439	6378	67.6	35 - 125	

ANALYSIS DATA SHEET

55SS09-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-35	File ID:	0817135.D
Sampled:	08/12/11 12:45	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 05:19
Solids:	69.40	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		118	237	469	U
208-96-8	Acenaphthylene		118	237	469	U
98-86-2	Acetophenone		118	237	469	U
120-12-7	Anthracene		118	237	469	U
1912-24-9	Atrazine		118	237	469	U
100-52-7	Benzaldehyde		118	237	469	U
56-55-3	Benzo(a)anthracene		118	237	469	U
50-32-8	Benzo(a)pyrene		118	237	469	U
205-99-2	Benzo(b)fluoranthene		118	237	469	X, U
191-24-2	Benzo(g,h,i)perylene		118	237	469	U
207-08-9	Benzo(k)fluoranthene		118	237	469	U
92-52-4	1,1-Biphenyl		118	237	469	U
101-55-3	4-Bromophenyl-phenylether		118	237	469	U
85-68-7	Butylbenzylphthalate		118	237	469	X, U
105-60-2	Caprolactam		118	237	469	U
86-74-8	Carbazole		118	237	469	U
59-50-7	4-Chloro-3-methylphenol		118	237	469	U
106-47-8	4-Chloroaniline		118	237	469	U
111-91-1	Bis(2-chloroethoxy)methane		118	237	469	U
111-44-4	Bis(2-chloroethyl)ether		118	237	469	U
108-60-1	2,2'-Oxybis-1-chloropropane		118	237	469	U
91-58-7	2-Chloronaphthalene		118	237	469	X, U
95-57-8	2-Chlorophenol		118	237	469	U
7005-72-3	4-Chlorophenyl phenyl ether		118	237	469	U
218-01-9	Chrysene		118	237	469	U
53-70-3	Dibenz(a,h)anthracene		118	237	469	U
132-64-9	Dibenzofuran		118	237	469	U
84-74-2	Di-n-butylphthalate		118	237	469	U
91-94-1	3,3'-Dichlorobenzidine		118	237	469	X, U
120-83-2	2,4-Dichlorophenol		118	237	469	U
84-66-2	Diethylphthalate		118	237	469	U
105-67-9	2,4-Dimethylphenol		474	948	1850	U
131-11-3	Dimethyl phthalate		118	237	469	U
534-52-1	4,6-Dinitro-2-methylphenol		1180	2370	4690	U
51-28-5	2,4-Dinitrophenol		1180	2370	4690	X, U
121-14-2	2,4-Dinitrotoluene		118	237	469	U
606-20-2	2,6-Dinitrotoluene		118	237	469	U
117-84-0	Di-n-octylphthalate		118	237	469	X, U
123-91-1	1,4-Dioxane		118	237	469	U

ANALYSIS DATA SHEET

55SS09-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-35	File ID:	0817135.D
Sampled:	08/12/11 12:45	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 05:19
Solids:	69.40	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24413 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		118	237	469	X, U
206-44-0	Fluoranthene		118	237	469	U
86-73-7	Fluorene		118	237	469	U
118-74-1	Hexachlorobenzene		118	237	469	U
87-68-3	Hexachlorobutadiene		118	237	469	U
77-47-4	Hexachlorocyclopentadiene		118	237	469	U
67-72-1	Hexachloroethane		118	237	469	U
193-39-5	Indeno(1,2,3-cd)pyrene		118	237	469	U
78-59-1	Isophorone		118	237	469	U
90-12-0	1-Methylnaphthalene		118	237	469	U
91-57-6	2-Methylnaphthalene		118	237	469	U
95-48-7	2-Methylphenol		118	237	469	U
106-44-5	4-Methylphenol		118	237	469	U
91-20-3	Naphthalene		118	237	469	U
100-01-6	4-Nitroaniline		474	948	1850	U
99-09-2	3-Nitroaniline		474	948	1850	U
88-74-4	2-Nitroaniline		474	948	1850	U
98-95-3	Nitrobenzene		118	237	469	U
100-02-7	4-Nitrophenol		474	948	1850	U
88-75-5	2-Nitrophenol		118	237	469	U
86-30-6	N-Nitrosodiphenylamine		118	237	469	U
621-64-7	N-Nitroso-di-n-propylamine		118	237	469	U
87-86-5	Pentachlorophenol		474	948	1850	U
85-01-8	Phenanthrene		118	237	469	U
108-95-2	Phenol		118	237	469	U
129-00-0	Pyrene		118	237	469	U
95-94-3	1,2,4,5-Tetrachlorobenzene		118	237	469	U
58-90-2	2,3,4,6-Tetrachlorophenol		118	237	469	U
88-06-2	2,4,6-Trichlorophenol		118	237	469	U
95-95-4	2,4,5-Trichlorophenol		118	237	469	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4645	3246	69.9	45 - 105	
2-Fluorophenol	9480	7234	76.3	35 - 105	
Nitrobenzene-d5	4645	2947	63.5	35 - 100	
Phenol-d6	9480	6799	71.7	40 - 100	
Terphenyl-d14	4645	3755	80.8	30 - 125	
2,4,6-Tribromophenol	9480	6594	69.6	35 - 125	

ANALYSIS DATA SHEET

55SB01-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-03	File ID:	012F1201.D
Sampled:	08/11/11 08:30	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 18:23
Solids:	65.88	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1125814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		6.13	12.2	24.8	U
11104-28-2	Aroclor-1221		6.13	12.2	24.8	U
11141-16-5	Aroclor-1232		6.13	12.2	24.8	U
53469-21-9	Aroclor-1242		6.13	12.2	24.8	U
12672-29-6	Aroclor-1248		6.13	12.2	24.8	U
11097-69-1	Aroclor-1254		6.13	12.2	24.8	U
11096-82-5	Aroclor-1260		6.13	12.2	24.8	U
37324-23-5	Aroclor-1262		6.13	12.2	24.8	U
11100-14-4	Aroclor-1268		6.13	12.2	24.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	48.65	30.60	62.9	70 - 125	*
Tetrachloro-m-xylene [2C]	48.65	41.17	84.6	70 - 125	X
Decachlorobiphenyl	48.65	26.51	54.5	60 - 125	*
Decachlorobiphenyl [2C]	48.65	37.93	78.0	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB02-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-20	File ID:	031F3101.D
Sampled:	08/11/11 12:50	Prepared:	08/25/11 09:30	Analyzed:	08/27/11 00:17
Solids:	79.88	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.09	10.1	20.6	U
11104-28-2	Aroclor-1221		5.09	10.1	20.6	U
11141-16-5	Aroclor-1232		5.09	10.1	20.6	U
53469-21-9	Aroclor-1242		5.09	10.1	20.6	U
12672-29-6	Aroclor-1248		5.09	10.1	20.6	U
11097-69-1	Aroclor-1254		5.09	10.1	20.6	U
11096-82-5	Aroclor-1260		5.09	10.1	20.6	U
37324-23-5	Aroclor-1262		5.09	10.1	20.6	U
11100-14-4	Aroclor-1268		5.09	10.1	20.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	40.38	31.25	77.4	70 - 125	
Tetrachloro-m-xylene [2C]	40.38	41.25	102	70 - 125	X
Decachlorobiphenyl	40.38	26.83	66.4	60 - 125	
Decachlorobiphenyl [2C]	40.38	33.86	83.8	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB02-0406

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-21	File ID:	014F1401.D
Sampled:	08/11/11 12:55	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 20:02
Solids:	79.29	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence: 1125601	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.13	10.2	20.7	U
11104-28-2	Aroclor-1221		5.13	10.2	20.7	U
11141-16-5	Aroclor-1232		5.13	10.2	20.7	U
53469-21-9	Aroclor-1242		5.13	10.2	20.7	U
12672-29-6	Aroclor-1248		5.13	10.2	20.7	U
11097-69-1	Aroclor-1254		5.13	10.2	20.7	UX
11096-82-5	Aroclor-1260		5.13	10.2	20.7	U
37324-23-5	Aroclor-1262		5.13	10.2	20.7	U
11100-14-4	Aroclor-1268		5.13	10.2	20.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	20.34	11.30	55.5	70 - 125	*
Tetrachloro-m-xylene [2C]	20.34	11.96	58.8	70 - 125	*X
Decachlorobiphenyl	20.34	8.261	40.6	60 - 125	*
Decachlorobiphenyl [2C]	20.34	8.581	42.2	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB03-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-33	File ID:	032F3201.D
Sampled:	08/12/11 11:40	Prepared:	08/19/11 14:09	Analyzed:	08/23/11 01:38
Solids:	71.25	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1125601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.82	11.5	23.5	U
11104-28-2	Aroclor-1221		5.82	11.5	23.5	U
11141-16-5	Aroclor-1232		5.82	11.5	23.5	U
53469-21-9	Aroclor-1242		5.82	11.5	23.5	U
12672-29-6	Aroclor-1248		5.82	11.5	23.5	U
11097-69-1	Aroclor-1254		5.82	11.5	23.5	UX
11096-82-5	Aroclor-1260		5.82	11.5	23.5	U
37324-23-5	Aroclor-1262		5.82	11.5	23.5	U
11100-14-4	Aroclor-1268		5.82	11.5	23.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	23.08	12.42	53.8	70 - 125	*
Tetrachloro-m-xylene [2C]	23.08	15.87	68.7	70 - 125	*X
Decachlorobiphenyl	23.08	9.536	41.3	60 - 125	*
Decachlorobiphenyl [2C]	23.08	11.91	51.6	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB04-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-25	File ID:	018F1801.D
Sampled:	08/12/11 09:15	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 21:16
Solids:	96.60	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1125601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.29	8.51	17.4	U
11104-28-2	Aroclor-1221		4.29	8.51	17.4	U
11141-16-5	Aroclor-1232		4.29	8.51	17.4	U
53469-21-9	Aroclor-1242		4.29	8.51	17.4	U
12672-29-6	Aroclor-1248		63.3	63.3	63.3	UZ-01
11097-69-1	Aroclor-1254		63.3	63.3	63.3	UX, Z-01
11096-82-5	Aroclor-1260	61.3	4.29	8.51	17.4	Z-01b
37324-23-5	Aroclor-1262		63.3	63.3	63.3	UZ-01
11100-14-4	Aroclor-1268		63.3	63.3	63.3	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	17.03	8.719	51.2	70 - 125	*
Tetrachloro-m-xylene [2C]	17.03	9.318	54.7	70 - 125	*X
Decachlorobiphenyl	17.03	7.707	45.3	60 - 125	*
Decachlorobiphenyl [2C]	17.03	5.486	32.2	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB04-0204D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-26	File ID:	019F1901.D
Sampled:	08/12/11 09:15	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 21:35
Solids:	80.83	Preparation:	3546 Microwave	Dilution:	1
Batch:	1H15025	Sequence: 1125601	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.13	10.2	20.8	U
11104-28-2	Aroclor-1221		5.13	10.2	20.8	U
11141-16-5	Aroclor-1232		5.13	10.2	20.8	U
53469-21-9	Aroclor-1242		5.13	10.2	20.8	U
12672-29-6	Aroclor-1248		5.13	10.2	20.8	U
11097-69-1	Aroclor-1254		5.13	10.2	20.8	UX
11096-82-5	Aroclor-1260		5.13	10.2	20.8	U
37324-23-5	Aroclor-1262		5.13	10.2	20.8	U
11100-14-4	Aroclor-1268		5.13	10.2	20.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	20.35	14.43	70.9	70 - 125	
Tetrachloro-m-xylene [2C]	20.35	17.59	86.5	70 - 125	X
Decachlorobiphenyl	20.35	10.72	52.7	60 - 125	*
Decachlorobiphenyl [2C]	20.35	12.19	59.9	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB05-0204

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-09	File ID:	018F1801.D
Sampled:	08/11/11 09:45	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 20:14
Solids:	81.08	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1I25814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.95	9.82	20.0	U
11104-28-2	Aroclor-1221		4.95	9.82	20.0	U
11141-16-5	Aroclor-1232		4.95	9.82	20.0	U
53469-21-9	Aroclor-1242		4.95	9.82	20.0	U
12672-29-6	Aroclor-1248		4.95	9.82	20.0	U
11097-69-1	Aroclor-1254		4.95	9.82	20.0	U
11096-82-5	Aroclor-1260		4.95	9.82	20.0	U
37324-23-5	Aroclor-1262		4.95	9.82	20.0	U
11100-14-4	Aroclor-1268		4.95	9.82	20.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	39.28	25.57	65.1	70 - 125	*
Tetrachloro-m-xylene [2C]	39.28	34.67	88.3	70 - 125	X
Decachlorobiphenyl	39.28	23.62	60.1	60 - 125	
Decachlorobiphenyl [2C]	39.28	34.63	88.2	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB05-0406

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-10	File ID:	019F1901.D
Sampled:	08/11/11 09:50	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 20:33
Solids:	77.42	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1I25814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.25	10.4	21.3	U
11104-28-2	Aroclor-1221		5.25	10.4	21.3	U
11141-16-5	Aroclor-1232		5.25	10.4	21.3	U
53469-21-9	Aroclor-1242		5.25	10.4	21.3	U
12672-29-6	Aroclor-1248		5.25	10.4	21.3	U
11097-69-1	Aroclor-1254		5.25	10.4	21.3	U
11096-82-5	Aroclor-1260		5.25	10.4	21.3	U
37324-23-5	Aroclor-1262		5.25	10.4	21.3	U
11100-14-4	Aroclor-1268		5.25	10.4	21.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	41.67	29.25	70.2	70 - 125	
Tetrachloro-m-xylene [2C]	41.67	39.80	95.5	70 - 125	X
Decachlorobiphenyl	41.67	25.85	62.0	60 - 125	
Decachlorobiphenyl [2C]	41.67	38.46	92.3	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB06-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-13	File ID:	024F2401.D
Sampled:	08/11/11 11:10	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 22:07
Solids:	81.42	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence: 1I25814	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.16	10.2	20.9	U
11104-28-2	Aroclor-1221		5.16	10.2	20.9	U
11141-16-5	Aroclor-1232		5.16	10.2	20.9	U
53469-21-9	Aroclor-1242		5.16	10.2	20.9	U
12672-29-6	Aroclor-1248		5.16	10.2	20.9	U
11097-69-1	Aroclor-1254		5.16	10.2	20.9	U
11096-82-5	Aroclor-1260		5.16	10.2	20.9	U
37324-23-5	Aroclor-1262		5.16	10.2	20.9	U
11100-14-4	Aroclor-1268		5.16	10.2	20.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	40.94	29.28	71.5	70 - 125	
Tetrachloro-m-xylene [2C]	40.94	39.26	95.9	70 - 125	X
Decachlorobiphenyl	40.94	25.83	63.1	60 - 125	
Decachlorobiphenyl [2C]	40.94	33.76	82.4	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB07-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-29	File ID:	022F2201.D
Sampled:	08/12/11 10:35	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 22:31
Solids:	80.60	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.18	10.3	21.0	U
11104-28-2	Aroclor-1221		5.18	10.3	21.0	U
11141-16-5	Aroclor-1232		5.18	10.3	21.0	U
53469-21-9	Aroclor-1242		5.18	10.3	21.0	U
12672-29-6	Aroclor-1248		5.18	10.3	21.0	U
11097-69-1	Aroclor-1254		5.18	10.3	21.0	UX
11096-82-5	Aroclor-1260		5.18	10.3	21.0	U
37324-23-5	Aroclor-1262		5.18	10.3	21.0	U
11100-14-4	Aroclor-1268		5.18	10.3	21.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	20.54	8.021	39.0	70 - 125	*
Tetrachloro-m-xylene [2C]	20.54	9.595	46.7	70 - 125	*X
Decachlorobiphenyl	20.54	5.676	27.6	60 - 125	*
Decachlorobiphenyl [2C]	20.54	6.563	32.0	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB08-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-16	File ID:	027F2701.D
Sampled:	08/11/11 12:00	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 23:03
Solids:	82.44	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1125814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.06	10.0	20.5	U
11104-28-2	Aroclor-1221		5.06	10.0	20.5	U
11141-16-5	Aroclor-1232		5.06	10.0	20.5	U
53469-21-9	Aroclor-1242		5.06	10.0	20.5	U
12672-29-6	Aroclor-1248		5.06	10.0	20.5	U
11097-69-1	Aroclor-1254		5.06	10.0	20.5	U
11096-82-5	Aroclor-1260		5.06	10.0	20.5	U
37324-23-5	Aroclor-1262		5.06	10.0	20.5	U
11100-14-4	Aroclor-1268		5.06	10.0	20.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	40.17	24.64	61.3	70 - 125	*
Tetrachloro-m-xylene [2C]	40.17	31.26	77.8	70 - 125	X
Decachlorobiphenyl	40.17	22.88	57.0	60 - 125	*
Decachlorobiphenyl [2C]	40.17	24.90	62.0	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB08-0406

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-17	File ID:	028F2801.D
Sampled:	08/11/11 12:05	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 23:21
Solids:	82.00	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence: 1I25814	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.09	10.1	20.6	U
11104-28-2	Aroclor-1221		5.09	10.1	20.6	U
11141-16-5	Aroclor-1232		5.09	10.1	20.6	U
53469-21-9	Aroclor-1242		5.09	10.1	20.6	U
12672-29-6	Aroclor-1248		5.09	10.1	20.6	U
11097-69-1	Aroclor-1254		5.09	10.1	20.6	U
11096-82-5	Aroclor-1260		5.09	10.1	20.6	U
37324-23-5	Aroclor-1262		5.09	10.1	20.6	U
11100-14-4	Aroclor-1268		5.09	10.1	20.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	40.38	27.97	69.3	70 - 125	*
Tetrachloro-m-xylene [2C]	40.38	36.74	91.0	70 - 125	X
Decachlorobiphenyl	40.38	24.62	61.0	60 - 125	
Decachlorobiphenyl [2C]	40.38	32.05	79.4	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB09-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-36	File ID:	037F3701.D
Sampled:	08/12/11 12:55	Prepared:	08/19/11 14:09	Analyzed:	08/23/11 03:12
Solids:	72.95	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1125601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.76	11.4	23.3	U
11104-28-2	Aroclor-1221		5.76	11.4	23.3	U
11141-16-5	Aroclor-1232		5.76	11.4	23.3	U
53469-21-9	Aroclor-1242		5.76	11.4	23.3	U
12672-29-6	Aroclor-1248		5.76	11.4	23.3	U
11097-69-1	Aroclor-1254		5.76	11.4	23.3	UX
11096-82-5	Aroclor-1260		5.76	11.4	23.3	U
37324-23-5	Aroclor-1262		5.76	11.4	23.3	U
11100-14-4	Aroclor-1268		5.76	11.4	23.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	22.85	19.27	84.3	70 - 125	
Tetrachloro-m-xylene [2C]	22.85	24.86	109	70 - 125	X
Decachlorobiphenyl	22.85	16.59	72.6	60 - 125	
Decachlorobiphenyl [2C]	22.85	22.58	98.8	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SB10-0204

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-06	File ID:	015F1501.D
Sampled:	08/11/11 09:00	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 19:18
Solids:	80.19	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1I25814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.00	9.92	20.3	U
11104-28-2	Aroclor-1221		5.00	9.92	20.3	U
11141-16-5	Aroclor-1232		5.00	9.92	20.3	U
53469-21-9	Aroclor-1242		5.00	9.92	20.3	U
12672-29-6	Aroclor-1248		5.00	9.92	20.3	U
11097-69-1	Aroclor-1254		5.00	9.92	20.3	U
11096-82-5	Aroclor-1260		5.00	9.92	20.3	U
37324-23-5	Aroclor-1262		5.00	9.92	20.3	U
11100-14-4	Aroclor-1268		5.00	9.92	20.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	39.72	27.54	69.4	70 - 125	*
Tetrachloro-m-xylene [2C]	39.72	37.33	94.0	70 - 125	X
Decachlorobiphenyl	39.72	25.69	64.7	60 - 125	
Decachlorobiphenyl [2C]	39.72	37.83	95.3	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS01-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-01	File ID:	008F0801.D
Sampled:	08/11/11 08:20	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 17:08
Solids:	79.74	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence: 1I25814	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.27	10.4	21.3	U
11104-28-2	Aroclor-1221		5.27	10.4	21.3	U
11141-16-5	Aroclor-1232		5.27	10.4	21.3	U
53469-21-9	Aroclor-1242		5.27	10.4	21.3	U
12672-29-6	Aroclor-1248		5.27	10.4	21.3	U
11097-69-1	Aroclor-1254		5.27	10.4	21.3	U
11096-82-5	Aroclor-1260		5.27	10.4	21.3	U
37324-23-5	Aroclor-1262		5.27	10.4	21.3	U
11100-14-4	Aroclor-1268		5.27	10.4	21.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	41.80	29.30	70.1	70 - 125	
Tetrachloro-m-xylene [2C]	41.80	39.15	93.6	70 - 125	X
Decachlorobiphenyl	41.80	27.60	66.0	60 - 125	
Decachlorobiphenyl [2C]	41.80	40.37	96.6	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS01-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-02	File ID:	011F1101.D
Sampled:	08/11/11 08:25	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 18:04
Solids:	74.51	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1I25814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.42	10.8	21.9	U
11104-28-2	Aroclor-1221		5.42	10.8	21.9	U
11141-16-5	Aroclor-1232		5.42	10.8	21.9	U
53469-21-9	Aroclor-1242		5.42	10.8	21.9	U
12672-29-6	Aroclor-1248		5.42	10.8	21.9	U
11097-69-1	Aroclor-1254		5.42	10.8	21.9	U
11096-82-5	Aroclor-1260		5.42	10.8	21.9	U
37324-23-5	Aroclor-1262		5.42	10.8	21.9	U
11100-14-4	Aroclor-1268		5.42	10.8	21.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	43.02	31.66	73.6	70 - 125	
Tetrachloro-m-xylene [2C]	43.02	43.31	101	70 - 125	X
Decachlorobiphenyl	43.02	26.79	62.3	60 - 125	
Decachlorobiphenyl [2C]	43.02	38.24	88.9	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS02-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-18	File ID:	029F2901.D
Sampled:	08/11/11 12:40	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 23:40
Solids:	68.99	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15024 Sequence: 1I25814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		519	519	519	UZ-01
11104-28-2	Aroclor-1221		519	519	519	UZ-01
11141-16-5	Aroclor-1232		519	519	519	UZ-01
53469-21-9	Aroclor-1242		519	519	519	UZ-01
12672-29-6	Aroclor-1248		519	519	519	UZ-01
11097-69-1	Aroclor-1254		519	519	519	UZ-01
11096-82-5	Aroclor-1260	365	5.97	11.8	24.2	Z-01b
37324-23-5	Aroclor-1262		519	519	519	UZ-01
11100-14-4	Aroclor-1268		519	519	519	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	47.37	28.16	59.5	70 - 125	*
Tetrachloro-m-xylene [2C]	47.37	36.20	76.4	70 - 125	X
Decachlorobiphenyl	47.37	28.15	59.4	60 - 125	*
Decachlorobiphenyl [2C]	47.37	27.02	57.0	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS02-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-19	File ID:	030F3001.D
Sampled:	08/11/11 12:45	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 23:59
Solids:	96.74	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.31	8.55	17.5	U
11104-28-2	Aroclor-1221		4.31	8.55	17.5	U
11141-16-5	Aroclor-1232		4.31	8.55	17.5	U
53469-21-9	Aroclor-1242		4.31	8.55	17.5	U
12672-29-6	Aroclor-1248		4.31	8.55	17.5	U
11097-69-1	Aroclor-1254		4.31	8.55	17.5	U
11096-82-5	Aroclor-1260		4.31	8.55	17.5	U
37324-23-5	Aroclor-1262		4.31	8.55	17.5	U
11100-14-4	Aroclor-1268		4.31	8.55	17.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	34.23	24.59	71.8	70 - 125	
Tetrachloro-m-xylene [2C]	34.23	31.24	91.3	70 - 125	X
Decachlorobiphenyl	34.23	23.36	68.3	60 - 125	
Decachlorobiphenyl [2C]	34.23	27.75	81.1	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS03-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-30	File ID:	023F2301.D
Sampled:	08/12/11 11:20	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 22:50
Solids:	84.79	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence: 1I25601	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.89	9.70	19.8	U
11104-28-2	Aroclor-1221		4.89	9.70	19.8	U
11141-16-5	Aroclor-1232		4.89	9.70	19.8	U
53469-21-9	Aroclor-1242		4.89	9.70	19.8	U
12672-29-6	Aroclor-1248		4.89	9.70	19.8	U
11097-69-1	Aroclor-1254		4.89	9.70	19.8	UX
11096-82-5	Aroclor-1260 [2C]		4.89	9.70	19.8	UY
37324-23-5	Aroclor-1262		4.89	9.70	19.8	U
11100-14-4	Aroclor-1268		4.89	9.70	19.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	19.40	12.76	65.8	70 - 125	*
Tetrachloro-m-xylene [2C]	19.40	15.12	77.9	70 - 125	X
Decachlorobiphenyl	19.40	10.49	54.1	60 - 125	*
Decachlorobiphenyl [2C]	19.40	12.67	65.3	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS03-000XD

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-31	File ID:	030F3001.D
Sampled:	08/12/11 11:20	Prepared:	08/19/11 14:09	Analyzed:	08/23/11 01:01
Solids:	84.34	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence:	1I25601	Calibration:	1240001	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.91	9.75	19.9	U
11104-28-2	Aroclor-1221		4.91	9.75	19.9	U
11141-16-5	Aroclor-1232		4.91	9.75	19.9	U
53469-21-9	Aroclor-1242		4.91	9.75	19.9	U
12672-29-6	Aroclor-1248		4.91	9.75	19.9	U
11097-69-1	Aroclor-1254		4.91	9.75	19.9	UX
11096-82-5	Aroclor-1260		4.91	9.75	19.9	U
37324-23-5	Aroclor-1262		4.91	9.75	19.9	U
11100-14-4	Aroclor-1268		4.91	9.75	19.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	19.50	11.33	58.1	70 - 125	*
Tetrachloro-m-xylene [2C]	19.50	13.71	70.3	70 - 125	X
Decachlorobiphenyl	19.50	9.726	49.9	60 - 125	*
Decachlorobiphenyl [2C]	19.50	11.77	60.4	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS03-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-32	File ID:	031F3101.D
Sampled:	08/12/11 11:35	Prepared:	08/19/11 14:09	Analyzed:	08/23/11 01:19
Solids:	73.99	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.46	10.8	22.1	U
11104-28-2	Aroclor-1221		5.46	10.8	22.1	U
11141-16-5	Aroclor-1232		5.46	10.8	22.1	U
53469-21-9	Aroclor-1242		5.46	10.8	22.1	U
12672-29-6	Aroclor-1248		5.46	10.8	22.1	U
11097-69-1	Aroclor-1254		5.46	10.8	22.1	UX
11096-82-5	Aroclor-1260		5.46	10.8	22.1	U
37324-23-5	Aroclor-1262		5.46	10.8	22.1	U
11100-14-4	Aroclor-1268		5.46	10.8	22.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	21.66	12.27	56.7	70 - 125	*
Tetrachloro-m-xylene [2C]	21.66	15.67	72.3	70 - 125	X
Decachlorobiphenyl	21.66	8.470	39.1	60 - 125	*
Decachlorobiphenyl [2C]	21.66	10.52	48.6	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS04-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-22	File ID:	015F1501.D
Sampled:	08/12/11 09:00	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 20:21
Solids:	73.01	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.68	11.3	23.0	U
11104-28-2	Aroclor-1221		5.68	11.3	23.0	U
11141-16-5	Aroclor-1232		5.68	11.3	23.0	U
53469-21-9	Aroclor-1242		5.68	11.3	23.0	U
12672-29-6	Aroclor-1248		128	128	128	UZ-01
11097-69-1	Aroclor-1254		128	128	128	UX, Z-01
11096-82-5	Aroclor-1260	94.3	5.68	11.3	23.0	Z-01b
37324-23-5	Aroclor-1262		128	128	128	UZ-01
11100-14-4	Aroclor-1268		128	128	128	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	22.53	11.11	49.3	70 - 125	*
Tetrachloro-m-xylene [2C]	22.53	11.49	51.0	70 - 125	*X
Decachlorobiphenyl	22.53	10.41	46.2	60 - 125	*
Decachlorobiphenyl [2C]	22.53	7.158	31.8	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS04-000XD

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-23	File ID:	016F1601.D
Sampled:	08/12/11 09:00	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 20:39
Solids:	65.30	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1125601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		6.31	12.5	25.5	U
11104-28-2	Aroclor-1221		6.31	12.5	25.5	U
11141-16-5	Aroclor-1232		6.31	12.5	25.5	U
53469-21-9	Aroclor-1242		6.31	12.5	25.5	U
12672-29-6	Aroclor-1248		143	143	143	UZ-01
11097-69-1	Aroclor-1254		143	143	143	UX, Z-01
11096-82-5	Aroclor-1260	94.1	6.31	12.5	25.5	Z-01b
37324-23-5	Aroclor-1262		143	143	143	UZ-01
11100-14-4	Aroclor-1268		143	143	143	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	25.02	10.80	43.2	70 - 125	*
Tetrachloro-m-xylene [2C]	25.02	11.64	46.5	70 - 125	*X
Decachlorobiphenyl	25.02	11.39	45.5	60 - 125	*
Decachlorobiphenyl [2C]	25.02	8.363	33.4	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS04-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-38	File ID:	013F1301.D
Sampled:	08/12/11 09:05	Prepared:	08/23/11 14:24	Analyzed:	08/24/11 13:33
Solids:	67.84	Preparation:	EXT_3546	Dilution:	1

Batch: 1H23517 Sequence: 1I25810 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		168	168	168	UZ-01
11104-28-2	Aroclor-1221		168	168	168	UZ-01
11141-16-5	Aroclor-1232		168	168	168	UZ-01
53469-21-9	Aroclor-1242		168	168	168	UZ-01
12672-29-6	Aroclor-1248		168	168	168	UZ-01
11097-69-1	Aroclor-1254		168	168	168	UX, Z-01
11096-82-5	Aroclor-1260	117	6.03	12.0	24.4	NN, Z-01b
37324-23-5	Aroclor-1262		168	168	168	UZ-01
11100-14-4	Aroclor-1268		168	168	168	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	23.93	14.57	60.9	70 - 125	*
Tetrachloro-m-xylene [2C]	23.93	13.78	57.6	70 - 125	*X
Decachlorobiphenyl	23.93	13.87	58.0	60 - 125	*
Decachlorobiphenyl [2C]	23.93	6.585	27.5	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-24	File ID:	017F1701.D
Sampled:	08/12/11 09:05	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 20:58
Solids:	68.36	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence:	1I25601	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		6.02	11.9	24.4	U
11104-28-2	Aroclor-1221		6.02	11.9	24.4	U
11141-16-5	Aroclor-1232		6.02	11.9	24.4	U
53469-21-9	Aroclor-1242		6.02	11.9	24.4	U
12672-29-6	Aroclor-1248		118	118	118	UZ-01
11097-69-1	Aroclor-1254		118	118	118	UX, Z-01
11096-82-5	Aroclor-1260	81.5	6.02	11.9	24.4	Z-01b
37324-23-5	Aroclor-1262		118	118	118	UZ-01
11100-14-4	Aroclor-1268		118	118	118	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	23.90	11.51	48.2	70 - 125	*
Tetrachloro-m-xylene [2C]	23.90	12.64	52.9	70 - 125	*X
Decachlorobiphenyl	23.90	9.495	39.7	60 - 125	*
Decachlorobiphenyl [2C]	23.90	6.909	28.9	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS05-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-07	File ID:	016F1601.D
Sampled:	08/11/11 09:35	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 19:37
Solids:	85.53	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence: 1125814	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.85	9.61	19.6	U
11104-28-2	Aroclor-1221		4.85	9.61	19.6	U
11141-16-5	Aroclor-1232		4.85	9.61	19.6	U
53469-21-9	Aroclor-1242		4.85	9.61	19.6	U
12672-29-6	Aroclor-1248		4.85	9.61	19.6	U
11097-69-1	Aroclor-1254		4.85	9.61	19.6	U
11096-82-5	Aroclor-1260		4.85	9.61	19.6	U
37324-23-5	Aroclor-1262		4.85	9.61	19.6	U
11100-14-4	Aroclor-1268 [2C]		4.85	9.61	19.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	38.46	26.29	68.3	70 - 125	*
Tetrachloro-m-xylene [2C]	38.46	35.59	92.5	70 - 125	X
Decachlorobiphenyl	38.46	22.43	58.3	60 - 125	*
Decachlorobiphenyl [2C]	38.46	32.07	83.4	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS05-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-08	File ID:	017F1701.D
Sampled:	08/11/11 09:40	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 19:56
Solids:	83.90	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1125814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.91	9.73	19.9	U
11104-28-2	Aroclor-1221		4.91	9.73	19.9	U
11141-16-5	Aroclor-1232		4.91	9.73	19.9	U
53469-21-9	Aroclor-1242		4.91	9.73	19.9	U
12672-29-6	Aroclor-1248		4.91	9.73	19.9	U
11097-69-1	Aroclor-1254		4.91	9.73	19.9	U
11096-82-5	Aroclor-1260		4.91	9.73	19.9	U
37324-23-5	Aroclor-1262		4.91	9.73	19.9	U
11100-14-4	Aroclor-1268		4.91	9.73	19.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	38.95	28.10	72.1	70 - 125	
Tetrachloro-m-xylene [2C]	38.95	38.65	99.2	70 - 125	X
Decachlorobiphenyl	38.95	24.30	62.4	60 - 125	
Decachlorobiphenyl [2C]	38.95	35.50	91.1	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS06-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-11	File ID:	022F2201.D
Sampled:	08/11/11 11:00	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 21:29
Solids:	64.57	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		205	205	205	UZ-01
11104-28-2	Aroclor-1221		205	205	205	UZ-01
11141-16-5	Aroclor-1232		205	205	205	UZ-01
53469-21-9	Aroclor-1242		205	205	205	UZ-01
12672-29-6	Aroclor-1248		205	205	205	UZ-01
11097-69-1	Aroclor-1254		205	205	205	UZ-01
11096-82-5	Aroclor-1260	138	6.25	12.4	25.3	PZ-01b
37324-23-5	Aroclor-1262		205	205	205	UZ-01
11100-14-4	Aroclor-1268		205	205	205	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	49.64	30.33	61.1	70 - 125	*
Tetrachloro-m-xylene [2C]	49.64	38.01	76.6	70 - 125	X
Decachlorobiphenyl	49.64	29.32	59.1	60 - 125	*
Decachlorobiphenyl [2C]	49.64	25.26	50.9	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS06-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-12	File ID:	023F2301.D
Sampled:	08/11/11 11:05	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 21:48
Solids:	64.86	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence: 1I25814	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		116	116	116	UZ-01
11104-28-2	Aroclor-1221		116	116	116	UZ-01
11141-16-5	Aroclor-1232		116	116	116	UZ-01
53469-21-9	Aroclor-1242		116	116	116	UZ-01
12672-29-6	Aroclor-1248		116	116	116	UZ-01
11097-69-1	Aroclor-1254		116	116	116	UZ-01
11096-82-5	Aroclor-1260	75.7	6.39	12.7	25.9	Z-01b
37324-23-5	Aroclor-1262		116	116	116	UZ-01
11100-14-4	Aroclor-1268		116	116	116	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	50.71	34.29	67.6	70 - 125	*
Tetrachloro-m-xylene [2C]	50.71	42.12	83.0	70 - 125	X
Decachlorobiphenyl	50.71	30.07	59.3	60 - 125	*
Decachlorobiphenyl [2C]	50.71	26.28	51.8	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS07-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-27	File ID:	020F2001.D
Sampled:	08/12/11 10:20	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 21:54
Solids:	83.33	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence:	1I25601	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.97	9.87	20.1	U
11104-28-2	Aroclor-1221		4.97	9.87	20.1	U
11141-16-5	Aroclor-1232		4.97	9.87	20.1	U
53469-21-9	Aroclor-1242		4.97	9.87	20.1	U
12672-29-6	Aroclor-1248		4.97	9.87	20.1	U
11097-69-1	Aroclor-1254		4.97	9.87	20.1	UX
11096-82-5	Aroclor-1260 [2C]		4.97	9.87	20.1	UY
37324-23-5	Aroclor-1262		4.97	9.87	20.1	U
11100-14-4	Aroclor-1268		4.97	9.87	20.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	19.74	11.53	58.4	70 - 125	*
Tetrachloro-m-xylene [2C]	19.74	13.65	69.2	70 - 125	*X
Decachlorobiphenyl	19.74	10.10	51.2	60 - 125	*
Decachlorobiphenyl [2C]	19.74	10.81	54.8	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS07-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-28	File ID:	021F2101.D
Sampled:	08/12/11 10:25	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 22:13
Solids:	77.55	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence: 1I25601	Calibration:	1240001	Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.17	10.3	20.9	U
11104-28-2	Aroclor-1221		5.17	10.3	20.9	U
11141-16-5	Aroclor-1232		5.17	10.3	20.9	U
53469-21-9	Aroclor-1242		5.17	10.3	20.9	U
12672-29-6	Aroclor-1248		5.17	10.3	20.9	U
11097-69-1	Aroclor-1254		5.17	10.3	20.9	UX
11096-82-5	Aroclor-1260		5.17	10.3	20.9	U
37324-23-5	Aroclor-1262		5.17	10.3	20.9	U
11100-14-4	Aroclor-1268		5.17	10.3	20.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	20.53	9.557	46.5	70 - 125	*
Tetrachloro-m-xylene [2C]	20.53	11.68	56.9	70 - 125	*X
Decachlorobiphenyl	20.53	7.421	36.1	60 - 125	*
Decachlorobiphenyl [2C]	20.53	8.574	41.8	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS08-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-14	File ID:	025F2501.D
Sampled:	08/11/11 11:50	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 22:25
Solids:	61.42	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		771	771	771	UZ-01
11104-28-2	Aroclor-1221		771	771	771	UZ-01
11141-16-5	Aroclor-1232		771	771	771	UZ-01
53469-21-9	Aroclor-1242		771	771	771	UZ-01
12672-29-6	Aroclor-1248		771	771	771	UZ-01
11097-69-1	Aroclor-1254		771	771	771	UZ-01
11096-82-5	Aroclor-1260	499	6.49	12.9	26.3	Z-01b
37324-23-5	Aroclor-1262		771	771	771	UZ-01
11100-14-4	Aroclor-1268		771	771	771	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	51.52	38.54	74.8	70 - 125	
Tetrachloro-m-xylene [2C]	51.52	45.48	88.3	70 - 125	X
Decachlorobiphenyl	51.52	33.21	64.4	60 - 125	
Decachlorobiphenyl [2C]	51.52	24.35	47.3	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS08-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-15	File ID:	026F2601.D
Sampled:	08/11/11 11:55	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 22:44
Solids:	68.40	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		222	222	222	UZ-01
11104-28-2	Aroclor-1221		222	222	222	UZ-01
11141-16-5	Aroclor-1232		222	222	222	UZ-01
53469-21-9	Aroclor-1242		222	222	222	UZ-01
12672-29-6	Aroclor-1248		222	222	222	UZ-01
11097-69-1	Aroclor-1254		222	222	222	UZ-01
11096-82-5	Aroclor-1260 [2C]	154	6.06	12.0	24.5	Z-01b
37324-23-5	Aroclor-1262		222	222	222	UZ-01
11100-14-4	Aroclor-1268		222	222	222	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	48.09	22.40	46.6	70 - 125	*
Tetrachloro-m-xylene [2C]	48.09	27.93	58.1	70 - 125	*X
Decachlorobiphenyl	48.09	25.66	53.4	60 - 125	*
Decachlorobiphenyl [2C]	48.09	18.14	37.7	60 - 125	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS09-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-34	File ID:	033F3301.D
Sampled:	08/12/11 12:40	Prepared:	08/19/11 14:09	Analyzed:	08/23/11 01:56
Solids:	68.35	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence:	1I25601	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		6.10	12.1	24.7	U
11104-28-2	Aroclor-1221		6.10	12.1	24.7	U
11141-16-5	Aroclor-1232		6.10	12.1	24.7	U
53469-21-9	Aroclor-1242		6.10	12.1	24.7	U
12672-29-6	Aroclor-1248		6.10	12.1	24.7	U
11097-69-1	Aroclor-1254		6.10	12.1	24.7	UX
11096-82-5	Aroclor-1260 [2C]		6.10	12.1	24.7	U
37324-23-5	Aroclor-1262		6.10	12.1	24.7	U
11100-14-4	Aroclor-1268		6.10	12.1	24.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	24.22	19.25	79.5	70 - 125	
Tetrachloro-m-xylene [2C]	24.22	23.58	97.3	70 - 125	X
Decachlorobiphenyl	24.22	15.57	64.3	60 - 125	
Decachlorobiphenyl [2C]	24.22	19.44	80.2	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS09-0X02

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-35	File ID:	034F3401.D
Sampled:	08/12/11 12:45	Prepared:	08/19/11 14:09	Analyzed:	08/23/11 02:15
Solids:	69.40	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15025	Sequence:	1I25601	Calibration:	1240001	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		6.01	11.9	24.3	U
11104-28-2	Aroclor-1221		6.01	11.9	24.3	U
11141-16-5	Aroclor-1232		6.01	11.9	24.3	U
53469-21-9	Aroclor-1242		6.01	11.9	24.3	U
12672-29-6	Aroclor-1248		6.01	11.9	24.3	U
11097-69-1	Aroclor-1254		6.01	11.9	24.3	UX
11096-82-5	Aroclor-1260		6.01	11.9	24.3	U
37324-23-5	Aroclor-1262		6.01	11.9	24.3	U
11100-14-4	Aroclor-1268		6.01	11.9	24.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	23.86	19.86	83.3	70 - 125	
Tetrachloro-m-xylene [2C]	23.86	26.11	109	70 - 125	X
Decachlorobiphenyl	23.86	16.69	70.0	60 - 125	
Decachlorobiphenyl [2C]	23.86	22.43	94.0	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS10-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-04	File ID:	013F1301.D
Sampled:	08/11/11 08:50	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 18:41
Solids:	79.04	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.31	10.5	21.5	U
11104-28-2	Aroclor-1221		5.31	10.5	21.5	U
11141-16-5	Aroclor-1232		5.31	10.5	21.5	U
53469-21-9	Aroclor-1242		5.31	10.5	21.5	U
12672-29-6	Aroclor-1248		5.31	10.5	21.5	U
11097-69-1	Aroclor-1254		5.31	10.5	21.5	U
11096-82-5	Aroclor-1260		5.31	10.5	21.5	U
37324-23-5	Aroclor-1262		5.31	10.5	21.5	U
11100-14-4	Aroclor-1268		5.31	10.5	21.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	42.17	26.27	62.3	70 - 125	*
Tetrachloro-m-xylene [2C]	42.17	34.67	82.2	70 - 125	X
Decachlorobiphenyl	42.17	23.72	56.2	60 - 125	*
Decachlorobiphenyl [2C]	42.17	34.06	80.8	60 - 125	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55SS10-0X02

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-05	File ID:	014F1401.D
Sampled:	08/11/11 08:55	Prepared:	08/25/11 09:30	Analyzed:	08/26/11 19:00
Solids:	77.85	Preparation:	3546_Microwave	Dilution:	1
Batch:	1H15024	Sequence:	1I25814	Calibration:	1240001
Instrument:	GL-ECD3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.15	10.2	20.9	U
11104-28-2	Aroclor-1221		5.15	10.2	20.9	U
11141-16-5	Aroclor-1232		5.15	10.2	20.9	U
53469-21-9	Aroclor-1242		5.15	10.2	20.9	U
12672-29-6	Aroclor-1248		5.15	10.2	20.9	U
11097-69-1	Aroclor-1254		5.15	10.2	20.9	U
11096-82-5	Aroclor-1260		5.15	10.2	20.9	U
37324-23-5	Aroclor-1262		5.15	10.2	20.9	U
11100-14-4	Aroclor-1268		5.15	10.2	20.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	40.91	26.12	63.9	70 - 125	*
Tetrachloro-m-xylene [2C]	40.91	35.54	86.9	70 - 125	X
Decachlorobiphenyl	40.91	23.14	56.6	60 - 125	*
Decachlorobiphenyl [2C]	40.91	32.94	80.5	60 - 125	X

* Values outside of QC limits

APPENDIX C

SUPPORT DOCUMENTATION

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The surrogate Bromofluorobenzene exceeded criteria with a positive bias in 1H20003-BS2.

The batch spike associated to batches 1H20003-BS1 and –BS2 exceeded criteria with a positive bias for Acetone, 2-Butanone, and 2-Hexanone.

The matrix spikes associated to sample 1108171-35 exceeded recovery criteria with a negative bias for Chlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Cis-1,3-Dichloropropene, Styrene, 1,2,3-Trichlorobenzene,

1,2,4-Trichlorobenzene, and m,p-Xylene, exceeded recovery criteria with no recovery in the matrix spike for Methyl Acetate, and exceeded relative percent difference criteria for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Styrene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, and 2-Hexanone.

The continuing calibration verifications exceeded criteria in 1H23101-CCV1 with a positive bias for Dichlorodifluoromethane, in 1H23501-CCV1 with a positive bias for Bromofluorobenzene, and in 1H23501-CCV2 with a negative bias for 1,4_Dichlorobenzene, Methyl Acetate, Methyl t-Butyl Ether, and 1,1,2,2-Tetrachloroethane and with a positive bias for Bromofluorobenzene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The surrogates 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, and Phenol-d6 exceeded criteria with a negative bias in samples 1108171-22 and -23. The surrogate 2-Fluorophenol exceeded criteria with a negative bias in 1108171-24.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verifications exceeded criteria in 1H24307-CCV1, 1I24513-CCV1, and 1I24909-CCV1 with a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1I24413-CCV1 with a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, 2-Chloronaphthalene, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, and in 1I24512-CCV1 with a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate and with a negative bias for Atrazine and Benzaldehyde.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogate Tetrachloro-m-xylene exceeded criteria with a negative bias on one or both columns in 1108171-03, -04, -05, -06, -07, -09, -11, -12, -15, -16, -17, -18, -21, -22, -23, -24, -25, -27, -28, -29, -30, -31, -32, -33, -38, 1H15024-BS1, 1H23517-MS1, and -MSD1. The surrogate Decachlorobiphenyl exceeded criteria with a negative bias on one or both columns in 1108171-03, -04, -05, -07, -11, -12, -14, -15, -16, -18, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -38, 1H15024-BLK1, -BS1, 1H23517-MS1, and –MSD1.

Samples 1108171-11, -12, -14, -15, -18, -22, -23, -24, -25, and -38 are qualified with a Z-01 to indicate that the DL, LOD, and LOQ were raised due to matrix interference and with a Z-01B for Aroclor-1260 to indicate that the Aroclor was identified as the Aroclor most closely matched.

The continuing calibration verifications exceeded criteria in 1I25601-CCV1 with a negative bias on column 2 for Aroclor-1016 and -1260, in 1I25601-CCV4 and 1I25801-CCV6 with a positive bias on both columns for Aroclor-1254, in 1I25601-CCV3, -CCV5, 1I25810-CCV3, and 1I25814-CCV3 with a positive bias on column 1 for Aroclor-1016 and with a positive bias on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl, in 1I25601-CCV6 with a positive bias on column 1 for Aroclor-1254, and in 1I25810-CCV1, 1I25814-CCV1, and –CCV5 with a positive bias on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7471A:
Samples 1108171-02, -05, -08, -10, -16, -17, -20, -21, and -25 are qualified with an M for Silver, in 1108171-20 is qualified with an M for Thallium, and sample 1108171-21, -29, and -33 are qualified with an M for Cadmium to indicate that the DL was raised due to interference.

The batch spike associated to batch 1H23503 exceeded criteria with a positive bias for Iron.

The continuing calibration blank 1H23804-CCB4 has positive results for Iron.

The matrix spike associated to sample 1108171-20 exceeded recovery criteria with a negative bias for Antimony and Chromium and exceeded recovery criteria for Aluminum, Calcium, Iron, Manganese, Magnesium, and Potassium; however, the parent sample concentrations for Aluminum, Calcium, Iron, Manganese, Magnesium, and Potassium are greater than 4 times the amount spiked. The post spike associated to sample 1108171-20 exceeded criteria for Aluminum, Iron, and Manganese; however, the parent sample concentrations for Aluminum, Iron, and Manganese are greater than 4 times the amount spiked. The matrix spikes associated to sample 1108171-35 exceeded recovery criteria with a negative bas for Antimony, exceeded recovery criteria with a positive bias for Chromium, Magnesium, Manganese, and Potassium, and exceeded recovery criteria for Aluminum, Calcium, and Iron; however, the parent sample concentrations for Aluminum, Calcium, and Iron are greater than 4 times the amount spiked. The post spike associated to sample 1108171-35 exceeded criteria for Calcium and Iron; however, the parent sample concentrations for Calcium and Iron are greater than 4 times the amount spiked. The duplicate for sample 1108171-20 exceeded relative percent difference criteria for Magnesium and Mercury. The duplicate for sample 1108171-35 exceeded relative percent difference criteria for Calcium.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2278 | PAGE 1 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02686	NAS JAX-SITE55	ALAN PATE	904-636-6125	EMPIRICAL LABORATORIES, LLC
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		ZACH SCRIBNER	904-636-6125	621 MAINSTREAM DRIVE SUITE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8660 1730 1175		NASHVILLE, TN 37228

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: TAL METALS | PCBs (water/soil)

	DATE YEAR 2011	TIME	SAMPLE ID (1108171)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TAL METALS	PCBs (water/soil)	COMMENTS
-01	8/11	0820	55SS01-000X				SO	G	1	1		→ cool to 4°C
-02		0825	55SS01-0X02						1	1		
-03		0830	55SB01-0204						1	1		
-04		0850	55SS10-000X						1	1		
-05		0855	55SS10-0X02						1	1		
-06		0900	55SB10-0204						1	1		
-07		0935	55SS05-000X						1	1		
-08		0940	55SS05-0X02						1	1		
-09		0945	55SB05-0204						1	1		
-10		0950	55SB05-0406						1	1		
-11		1100	55SS06-000X						1	1		
-12		1105	55SS06-0X02						1	1		
-13		1110	55SB06-0204						1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	08/12/11	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY Reginald Fallay	8.15.11	0830

COMMENTS

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1108171

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 2279 | PAGE 2 OF 3

PROJECT NO: 112G02686	FACILITY: NAS JAX - SITE 55	PROJECT MANAGER: ALAN PATE	PHONE NUMBER: 904-636-6125	LABORATORY NAME AND CONTACT: EMPIRICAL LABORATORIES LLC / B. RICHARD
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: ZACH SCRIBNER	PHONE NUMBER: 904-636-6125	ADDRESS: 601 MAINSTREAM DR, STE 270
		CARRIER/WAYBILL NUMBER: 8660 1730 1175		CITY, STATE: NASHVILLE TN 37228

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G G G
PRESERVATIVE USED: — — — — —

	DATE YEAR 2011	TIME	SAMPLE ID (1108171)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TOT METALS	PCBs (60/8082B)	5 VOC's	VOC's	VOC (DRY WEIGHT)				COMMENTS
-14	8/11	1150	55SS08-000X				SO	G	1	1	0	0	0					Cool to 4°C
-15		1155	55SS080X02						1	1	0	0	0					
-16		1200	55SB08-0204						1	1	0	0	0					
-17		1205	55SB08-0406						1	1	0	0	0					
-18		1240	55SS02-000X						1	1	0	0	0					
-19		1245	55SS02-0X02						1	1	0	0	0					
-20		1250	55SB02-0204						1	1	0	0	0					
-21		1255	55SB02-0406						1	1	0	0	0					
-22	8/12	0900	55SS04-000X						2	1	1	0	0					
-23		0905	55SS04-000X D						2	1	1	0	0					
-24		0905	55SS040X02 (D)*						4~~6~~	X2	X2	6~~3~~	X2					SAMPLE + DUP
-25		0915	55SB04-0204						6	1	1	3	1					
-26		0915	55SB04-0204 D						5~~6~~	1	1	3	0					

1. RELINQUISHED BY [signature]	DATE 08/12/11	TIME 1530	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY Reginald Talley	DATE 8.15.11	TIME 0830

COMMENTS

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1108171

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER 2280 PAGE 3 OF 3

PROJECT NO: 112G02686
FACILITY: NAS JAX-SITE 55
PROJECT MANAGER: ALAN PATE
PHONE NUMBER: 904-636-6125
LABORATORY NAME AND CONTACT: EMPIRICAL LABORATORIES LLC / B. RICHARD
SAMPLERS (SIGNATURE):
FIELD OPERATIONS LEADER: ZACH SCRIBNER
PHONE NUMBER: 904-636-6125
ADDRESS: 621 MAINSTREAM DR., STE 270
CARRIER/WAYBILL NUMBER: 8660 1730 1175
CITY, STATE: NASHVILLE, TN 37228

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

1108171

	DATE YEAR 2011	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	TOT METALS	PCB's (8082A)	SVOC's	VOC's	VOC (DRY WEIGHT)	VOC				COMMENTS
			CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	G	G	G					
			PRESERVATIVE USED							/	/	/	/	HCl					
-27	8/12	1020	55SS07-000X				SO	G	2	1	1	0	0						Cool to 4°C
-28		1025	55SS07-0X02						6	1	1	3	1						
-29		1035	55SB07-0204						6	1	1	3	1						
-30		1120	55SS03-000X						2	1	1	0	0						
-31		1120	55SS03-000X D						2	1	1	0	0						
-32		1135	55SS03-0X02						6	1	1	3	1						
-33		1140	55SB03-0204						6	1	1	3	1						
-34		1240	55SS09-000X						2	1	1	0	0						
-35		1245	55SS09-0X02						6	1	1	3	1						
		1245	55SS09-0X02				MS	MSD	6 12	1 2	1 2	3 6	1 2						QC MS/MSD
-36		1255	55SB09-0204						6	1	1	3	1						
-37		1340	TRIP BLANK # 0150				QC	-	8	0	0	0	0	2					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	08/12/11	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY Reynold Talley	8.15.11	0830

COMMENTS

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

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FORM NO. TtNUS-001

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1108171

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108171 Number of Coolers: 1 of 1

Client: TETRA TECH Project: NAS JAX SITE 55

Date/Time Received: 8/15/11 0830 Date cooler(s) opened: 8/15/11

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered EL Courier Other: _____

If applicable, enter airbill number here: 1175? TRACKING # RUBBED OFF

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 8/12/11 Seal Initials: BW

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.5 °C Correction Factor: +1.4 °C Final Value: 1.9 °C

Dates samples were logged-in: 8.15.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108171 Number of Coolers: 2 of 2

Client: TETRA TECH Project: _____

Date/Time Received: 8/13/11 Date cooler(s) opened: 8/13/11 915

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 5085

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 8/12/11 Seal Initials: N/A

3. Were custody seals unbroken and intact at the date and time of arrival?	Yes	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	Yes	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	Yes	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	Yes	No	N/A
7. Was project identifiable from custody papers?	Yes	No	N/A
8. If required, was enough ice present in the cooler(s)?	Yes	No	N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.0 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in: 8.15.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	Yes	No	N/A
13. Did all bottle labels agree with custody papers?	Yes	No	N/A
14. Were correct containers used for the analyses indicated?	Yes	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	N/A

If Non-Conformance issues were present, list by sample ID: _____

See pg 1

HOLDTIM

PROJ_NO 02686

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SB06-0204	1108171-13	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS05-0X02	1108171-08	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB05-0406	1108171-10	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS10-0X02	1108171-05	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS10-000X	1108171-04	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB05-0204	1108171-09	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB01-0204	1108171-03	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB02-0204	1108171-20	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB08-0406	1108171-17	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS08-0X02	1108171-15	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB02-0406	1108171-21	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS08-000X	1108171-14	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB08-0204	1108171-16	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS06-0X02	1108171-12	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108173	HG	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55-FB-08152011	1108173-01	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108171	M	MG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS05-0X02	1108171-08	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	M	MG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB05-0406	1108171-10	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS06-0X02	1108171-12	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS08-0X02	1108171-15	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS08-000X	1108171-14	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB02-0204	1108171-20	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS10-000X	1108171-04	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB05-0204	1108171-09	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB06-0204	1108171-13	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS10-0X02	1108171-05	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB01-0204	1108171-03	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	M	MG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB08-0204	1108171-16	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB08-0406	1108171-17	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB02-0406	1108171-21	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108173	M	UG/L	55GW07-0009-08152011	1108173-03RE1	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55-FB-08152011	1108173-01	NM	08/15/2011	08/22/2011	08/23/2011	7	1	8
1108173	M	UG/L	55GW07-0009-08152011	1108173-03RE2	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108171	OS	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204	1108171-25	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB03-0204	1108171-33	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204D	1108171-26	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	OS	UG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS09-0X02	1108171-35	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS09-000X	1108171-34	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS07-0X02	1108171-28	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS07-000X	1108171-27	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB07-0204	1108171-29	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS04-0X02D	1108171-24	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SS04-0X02	1108171-38	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB09-0204	1108171-36	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS03-000X	1108171-30	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	OS	UG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS03-0X02	1108171-32	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS04-000X	1108171-22	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS04-000XD	1108171-23	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS03-000XD	1108171-31	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108173	OS	UG/L	55GW03-0008-08152011D	1108173-05	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW09-0008-08152011	1108173-06	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW07-0009-08152011	1108173-03	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW04-0008-08152011	1108173-02	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW03-0008-08152011D	1108173-05	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW03-0008-08152011	1108173-04	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108171	OV	UG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	OV	UG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/L	TRIP BLANK #0150	1108171-37	NM	08/12/2011	08/18/2011	08/18/2011	6	0	6
1108173	OV	UG/L	55GW03-0008-08152011D	1108173-05	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	TB-01	1108173-07	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108171	PCB	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS06-0X02	1108171-12	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	PCB	UG/KG	55SS05-0X02	1108171-08	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS08-0X02	1108171-15	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS10-000X	1108171-04	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS10-0X02	1108171-05	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS08-000X	1108171-14	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB08-0406	1108171-17	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB02-0204	1108171-20	NM	08/11/2011	08/25/2011	08/27/2011	14	2	16
1108171	PCB	UG/KG	55SB02-0406	1108171-21	NM	08/11/2011	08/19/2011	08/22/2011	8	3	11
1108171	PCB	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SB05-0204	1108171-09	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB05-0406	1108171-10	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	PCB	UG/KG	55SB08-0204	1108171-16	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	PCB	UG/KG	55SB06-0204	1108171-13	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SB01-0204	1108171-03	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108173	PCB	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/18/2011	08/23/2011	3	5	8
1108173	PCB	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/18/2011	08/23/2011	3	5	8
1108173	PCB	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/18/2011	09/09/2011	3	22	25
1108173	PCB	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/18/2011	08/23/2011	3	5	8

HOLDTIME

PROJ_NO 02686

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	PAH	UG/KG	55SB09-0204	1108171-36	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS04-000X	1108171-22	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS03-0X02	1108171-32	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS03-000XD	1108171-31	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-0X02	1108171-38	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SB07-0204	1108171-29	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SB04-0204D	1108171-26	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	PAH	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SB04-0204	1108171-25	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SB03-0204	1108171-33	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS03-000X	1108171-30	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-000XD	1108171-23	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS09-0X02	1108171-35	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS09-000X	1108171-34	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS07-0X02	1108171-28	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS07-000X	1108171-27	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-0X02D	1108171-24	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108173	PAH	UG/L	55GW09-0008-08152011	1108173-06	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	PAH	UG/L	55GW03-0008-08152011	1108173-04	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW03-0008-08152011D	1108173-05	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108173	PAH	UG/L	55GW03-0008-08152011D	1108173-05	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	PAH	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW04-0008-08152011	1108173-02	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW07-0009-08152011	1108173-03	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	PAH	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55SS04-0X02D	08/12/11 09:05	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 13:33	8.19	14.00	
55SB04-0204	08/12/11 09:15	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 14:00	8.20	14.00	
55SB04-0204D	08/12/11 09:15	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 14:27	8.22	14.00	
55SS07-0X02	08/12/11 10:25	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 14:55	8.19	14.00	
55SB07-0204	08/12/11 10:35	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 15:22	8.20	14.00	
55SS03-0X02	08/12/11 11:35	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 15:49	8.18	14.00	
55SB03-0204	08/12/11 11:40	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 16:17	8.19	14.00	
55SS09-0X02	08/12/11 12:45	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 16:44	8.17	14.00	
55SB09-0204	08/12/11 12:55	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 17:11	8.18	14.00	
TRIP BLANK #0150	08/12/11 13:40	08/15/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 13:22	5.99	14.00	
55SS04-0X02	08/12/11 09:05	08/15/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 17:38	8.36	14.00	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55SS04-000X	08/12/11 09:00	08/15/11 08:30	08/24/11 09:00	12.00	14.00	09/02/11 09:05	9.00	40.00	
55SS04-000XD	08/12/11 09:00	08/15/11 08:30	08/24/11 09:00	12.00	14.00	09/02/11 09:48	9.03	40.00	
55SS04-0X02D	08/12/11 09:05	08/15/11 08:30	08/24/11 09:00	12.00	14.00	09/05/11 03:14	11.76	40.00	
55SB04-0204	08/12/11 09:15	08/15/11 08:30	08/24/11 09:00	11.99	14.00	09/05/11 02:34	11.73	40.00	
55SB04-0204D	08/12/11 09:15	08/15/11 08:30	08/24/11 09:00	11.99	14.00	09/01/11 03:18	7.76	40.00	
55SS07-000X	08/12/11 10:20	08/15/11 08:30	08/24/11 09:00	11.94	14.00	09/01/11 12:43	8.15	40.00	
55SS07-0X02	08/12/11 10:25	08/15/11 08:30	08/24/11 09:00	11.94	14.00	09/01/11 04:00	7.79	40.00	
55SB07-0204	08/12/11 10:35	08/15/11 08:30	08/24/11 09:00	11.93	14.00	09/01/11 04:40	7.82	40.00	
55SS03-000X	08/12/11 11:20	08/15/11 08:30	08/24/11 09:00	11.90	14.00	09/01/11 13:27	8.19	40.00	
55SS03-000XD	08/12/11 11:20	08/15/11 08:30	08/24/11 09:00	11.90	14.00	09/01/11 14:14	8.22	40.00	
55SS03-0X02	08/12/11 11:35	08/15/11 08:30	08/24/11 09:00	11.89	14.00	09/01/11 07:19	7.93	40.00	
55SB03-0204	08/12/11 11:40	08/15/11 08:30	08/24/11 09:00	11.89	14.00	09/01/11 07:59	7.96	40.00	
55SS09-000X	08/12/11 12:40	08/15/11 08:30	08/24/11 09:00	11.85	14.00	09/02/11 07:40	8.94	40.00	
55SS09-0X02	08/12/11 12:45	08/15/11 08:30	08/24/11 09:00	11.84	14.00	09/01/11 05:19	7.85	40.00	
55SB09-0204	08/12/11 12:55	08/15/11 08:30	08/24/11 09:00	11.84	14.00	09/02/11 06:58	8.92	40.00	
55SS04-0X02	08/12/11 09:05	08/15/11 08:30	08/24/11 09:00	12.00	14.00	09/05/11 03:55	11.79	40.00	

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55SB04-0204	08/12/11 09:15	08/15/11 08:30	08/19/11 14:09	7.20	14.00	08/22/11 21:16	3.30	40.00	
55SB04-0204D	08/12/11 09:15	08/15/11 08:30	08/19/11 14:09	7.20	14.00	08/22/11 21:35	3.31	40.00	
55SS07-000X	08/12/11 10:20	08/15/11 08:30	08/19/11 14:09	7.16	14.00	08/22/11 21:54	3.32	40.00	
55SS07-0X02	08/12/11 10:25	08/15/11 08:30	08/19/11 14:09	7.16	14.00	08/22/11 22:13	3.34	40.00	
55SB07-0204	08/12/11 10:35	08/15/11 08:30	08/19/11 14:09	7.15	14.00	08/22/11 22:31	3.35	40.00	
55SS03-000X	08/12/11 11:20	08/15/11 08:30	08/19/11 14:09	7.12	14.00	08/22/11 22:50	3.36	40.00	
55SS03-000XD	08/12/11 11:20	08/15/11 08:30	08/19/11 14:09	7.12	14.00	08/23/11 01:01	3.45	40.00	
55SS03-0X02	08/12/11 11:35	08/15/11 08:30	08/19/11 14:09	7.11	14.00	08/23/11 01:19	3.47	40.00	
55SB03-0204	08/12/11 11:40	08/15/11 08:30	08/19/11 14:09	7.10	14.00	08/23/11 01:38	3.48	40.00	
55SS09-000X	08/12/11 12:40	08/15/11 08:30	08/19/11 14:09	7.06	14.00	08/23/11 01:56	3.49	40.00	
55SS09-0X02	08/12/11 12:45	08/15/11 08:30	08/19/11 14:09	7.06	14.00	08/23/11 02:15	3.50	40.00	
55SB09-0204	08/12/11 12:55	08/15/11 08:30	08/19/11 14:09	7.05	14.00	08/23/11 03:12	3.54	40.00	
55SS04-0X02	08/12/11 09:05	08/15/11 08:30	08/23/11 14:24	11.22	14.00	08/24/11 13:33	0.96	40.00	

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55SS01-000X	08/11/11 08:20	08/15/11 08:30	08/25/11 09:30	14.05	14.00	08/26/11 17:08	1.32	40.00	
55SS01-0X02	08/11/11 08:25	08/15/11 08:30	08/25/11 09:30	14.05	14.00	08/26/11 18:04	1.36	40.00	
55SB01-0204	08/11/11 08:30	08/15/11 08:30	08/25/11 09:30	14.04	14.00	08/26/11 18:23	1.37	40.00	
55SS10-000X	08/11/11 08:50	08/15/11 08:30	08/25/11 09:30	14.03	14.00	08/26/11 18:41	1.38	40.00	
55SS10-0X02	08/11/11 08:55	08/15/11 08:30	08/25/11 09:30	14.02	14.00	08/26/11 19:00	1.40	40.00	
55SB10-0204	08/11/11 09:00	08/15/11 08:30	08/25/11 09:30	14.02	14.00	08/26/11 19:18	1.41	40.00	
55SS05-000X	08/11/11 09:35	08/15/11 08:30	08/25/11 09:30	14.00	14.00	08/26/11 19:37	1.42	40.00	
55SS05-0X02	08/11/11 09:40	08/15/11 08:30	08/25/11 09:30	13.99	14.00	08/26/11 19:56	1.43	40.00	
55SB05-0204	08/11/11 09:45	08/15/11 08:30	08/25/11 09:30	13.99	14.00	08/26/11 20:14	1.45	40.00	
55SB05-0406	08/11/11 09:50	08/15/11 08:30	08/25/11 09:30	13.99	14.00	08/26/11 20:33	1.46	40.00	
55SS06-000X	08/11/11 11:00	08/15/11 08:30	08/25/11 09:30	13.94	14.00	08/26/11 21:29	1.50	40.00	
55SS06-0X02	08/11/11 11:05	08/15/11 08:30	08/25/11 09:30	13.93	14.00	08/26/11 21:48	1.51	40.00	
55SB06-0204	08/11/11 11:10	08/15/11 08:30	08/25/11 09:30	13.93	14.00	08/26/11 22:07	1.53	40.00	
55SS08-000X	08/11/11 11:50	08/15/11 08:30	08/25/11 09:30	13.90	14.00	08/26/11 22:25	1.54	40.00	
55SS08-0X02	08/11/11 11:55	08/15/11 08:30	08/25/11 09:30	13.90	14.00	08/26/11 22:44	1.55	40.00	
55SB08-0204	08/11/11 12:00	08/15/11 08:30	08/25/11 09:30	13.90	14.00	08/26/11 23:03	1.56	40.00	
55SB08-0406	08/11/11 12:05	08/15/11 08:30	08/25/11 09:30	13.89	14.00	08/26/11 23:21	1.58	40.00	
55SS02-000X	08/11/11 12:40	08/15/11 08:30	08/25/11 09:30	13.87	14.00	08/26/11 23:40	1.59	40.00	
55SS02-0X02	08/11/11 12:45	08/15/11 08:30	08/25/11 09:30	13.86	14.00	08/26/11 23:59	1.60	40.00	
55SB02-0204	08/11/11 12:50	08/15/11 08:30	08/25/11 09:30	13.86	14.00	08/27/11 00:17	1.62	40.00	
55SB02-0406	08/11/11 12:55	08/15/11 08:30	08/19/11 14:09	8.05	14.00	08/22/11 20:02	3.25	40.00	
55SS04-000X	08/12/11 09:00	08/15/11 08:30	08/19/11 14:09	7.21	14.00	08/22/11 20:21	3.26	40.00	
55SS04-000XD	08/12/11 09:00	08/15/11 08:30	08/19/11 14:09	7.21	14.00	08/22/11 20:39	3.27	40.00	
55SS04-0X02D	08/12/11 09:05	08/15/11 08:30	08/19/11 14:09	7.21	14.00	08/22/11 20:58	3.28	40.00	

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SB04-0204	UNITS	55SB04-0204D	RPD	D
OV	ACETONE	22.7 J	UG/KG	22.1 J	2.68	0.60
OV	METHYLENE CHLORIDE	6.26 J	UG/KG	6.04 J	3.58	0.22

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SB04-0204	UNITS	55SB04-0204D	RPD	D
PCB	AROCLOR-1260	61.3 J	UG/KG	ND	200.00	61.30

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS03-000X	UNITS	55SS03-000XD	RPD	RD
OS	BENZALDEHYDE	635 J	UG/KG	470 J	29.86	165.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS04-000X	UNITS	55SS04-000XD	RPD	RD
PCB	AROCLOR-1260	94.3 J	UG/KG	94.1 J	0.21	0.20

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS04-0X02	UNITS	55SS04-0X02D	RPD	[illegible]
OV	ACETONE	115 J	UG/KG	105 J	9.09	10.00
OV	METHYLENE CHLORIDE	19.6	UG/KG	14.7 J	28.57	4.90

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS04-0X02	UNITS	55SS04-0X02D	RPD	[illegible]D
PCB	AROCLOR-1260	117 J	UG/KG	81.5 J	35.77	35.50

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G19303	Instrument:	MS-VOA3
Calibration:	1194001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G19303-TUN1	0708TU1.D	07/08/11 12:18
Cal Standard	1G19303-CAL1	SEQCAL1.D	07/08/11 12:53
Cal Standard	1G19303-CAL2	SEQCAL2.D	07/08/11 13:20
Cal Standard	1G19303-CAL3	SEQCAL3.D	07/08/11 13:48
Cal Standard	1G19303-CAL4	SEQCAL4.D	07/08/11 14:15
Cal Standard	1G19303-CAL5	SEQCAL5.D	07/08/11 14:42
Cal Standard	1G19303-CAL6	SEQCAL6.D	07/08/11 15:10
Cal Standard	1G19303-CAL7	SEQCAL7.D	07/08/11 15:37
Cal Standard	1G19303-CAL8	SEQCAL8.D	07/08/11 16:04
Initial Cal Check	1G19303-ICV1	SEQICV1.D	07/08/11 16:31
Cal Standard	1G19303-CAL9	SEQCAL9.D	07/08/11 17:26
Cal Standard	1G19303-CALA	SEQCALA.D	07/08/11 17:53
Cal Standard	1G19303-CALB	SEQCALB.D	07/08/11 18:21
Cal Standard	1G19303-CALC	SEQCALC.D	07/08/11 18:48
Cal Standard	1G19303-CALD	SEQCALD.D	07/08/11 19:15
Cal Standard	1G19303-CALE	SEQCALE.D	07/08/11 19:43
Cal Standard	1G19303-CALF	SEQCALF.D	07/08/11 20:10
Cal Standard	1G19303-CALG	SEQCALG.D	07/08/11 20:37
Cal Standard	1G19303-CALH	SEQCALH.D	07/08/11 21:04
Initial Cal Check	1G19303-ICV4	SEQICV4.D	07/08/11 21:59
MS Tune	1G19303-TUN2	0708TU2.D	07/09/11 07:14
Cal Standard	1G19303-CALI	SEQCALI.D	07/09/11 07:52
Cal Standard	1G19303-CALJ	SEQCALJ.D	07/09/11 08:19
Cal Standard	1G19303-CALK	SEQCALK.D	07/09/11 08:46
Cal Standard	1G19303-CALL	SEQCALL.D	07/09/11 09:13
Cal Standard	1G19303-CALM	SEQCALM.D	07/09/11 09:40
Cal Standard	1G19303-CALN	SEQCALN.D	07/09/11 10:08
Cal Standard	1G19303-CALO	SEQCALO.D	07/09/11 10:35
Cal Standard	1G19303-CALP	SEQCALP.D	07/09/11 11:02

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0708TU1.D	Injection Date:	07/08/11
Instrument ID:	MS-VOA3	Injection Time:	12:18
Sequence:	1G19303	Lab Sample ID:	1G19303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19	PASS
75	30 - 60% of 95	57.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	87.3	PASS
175	5 - 9% of 174	7.47	PASS
176	95 - 101% of 174	99.1	PASS
177	5 - 9% of 176	5.68	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0708TU2.D	Injection Date:	07/09/11
Instrument ID:	MS-VOA3	Injection Time:	07:14
Sequence:	1G19303	Lab Sample ID:	1G19303-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.2	PASS
75	30 - 60% of 95	56.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.4	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	97.9	PASS
175	5 - 9% of 174	6.55	PASS
176	95 - 101% of 174	98.4	PASS
177	5 - 9% of 176	5.6	PASS

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1194001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/8/11 12:53 7/9/11 11:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.175386E-02	13.45417	3.5615	7.976447E-02			15	
Acrolein	0.0198109	14.184	3.451625	0.1549727			15	
Acrylonitrile	4.256999E-02	6.416032	4.4005	9.694495E-02			15	
Benzene	1.124087	6.986756	7.51625	2.471565E-02			15	
Bromobenzene	0.7071059	6.35342	12.299	5.307637E-03			15	
Bromochloromethane	0.1329411	4.981451	6.59575	4.997773E-02			15	
Tert-Amyl Methyl Ether	0.7640394	7.440405	7.70975	3.965212E-02			15	
Bromodichloromethane	0.4956952	3.727996	8.51425	3.141768E-02			15	
Bromoform	0.2712991	11.97099	11.705	2.292717E-02			SPCC (0.1)	
Bromomethane	0.2672452	6.504547	2.644	1.817762E-02			15	
Bromofluorobenzene	0.84025	7.338005	12.141	2.204767E-02			15	
n-Butylbenzene	2.818232	7.766994	13.74175	1.354586E-02			15	
2-Butanone	7.055282E-02	7.131037	6.043	0.0848597			15	
sec-Butylbenzene	3.119862	7.133619	13.199	1.325379E-02			15	
tert-Butylbenzene	2.349573	6.113405	12.962	1.094825E-02			15	
Carbon disulfide	0.8978577	5.487381	4.5835	5.778453E-02			15	
Carbon tetrachloride	0.5402457	4.824884	7.4855	3.461855E-02			15	
Chlorobenzene	1.428213	5.908843	10.973	1.796113E-02			SPCC (0.3)	
Chloroethane	0.1979737	4.584169	2.77575	0.1116795			15	
Chloroform	0.7895525	11.94576	6.5695	6.602627E-02			CCC (20)	
2-Chloroethyl vinyl ether	8.092987E-02	10.74611	8.87925	2.098219E-02			15	
Chloromethane	0.3072193	7.402878	2.06675	0.1018822			SPCC (0.1)	
1-Chlorohexane	0.7308537	6.262469	10.942	1.113631E-02			15	
2-Chlorotoluene	2.340992	7.25521	12.524	2.043875E-02			15	
4-Chlorotoluene	2.699027	10.02164	12.5865	2.694764E-02			15	
Cyclohexane	0.4018325	8.334075	7.414	1.229118E-02			15	
Dibromochloromethane	0.4573426	10.31785	10.19925	1.253626E-02			15	
1,2-Dibromo-3-chloropropane	8.405224E-02	14.48282	14.34814	1.433224E-02			15	
1,2-Dibromoethane (EDB)	0.3996021	7.131817	10.4145	2.990049E-02			15	
Dibromomethane	0.1866951	6.245088	8.4465	3.803676E-02			15	
1,2-Dichlorobenzene	1.191078	4.986822	13.698	1.810882E-02			15	
1,3-Dichlorobenzene	1.314428	5.66113	13.28425	1.375594E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1194001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/8/11 12:53 7/9/11 11:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.351914	7.63438	13.37975	2.695503E-02			15	
Dichlorodifluoromethane	0.6166265	9.292214	1.86	0.1316281			15	
1,1-Dichloroethane	0.6065013	6.572673	5.595	1.726971E-02			SPCC (0.1)	
1,2-Dichloroethane	0.5572042	8.040857	7.34175	0.0281235			15	
1,1-Dichloroethene	0.2481599	9.158338	4.04325	8.487316E-02			CCC (20)	
cis-1,2-Dichloroethene	0.3088392	5.25824	6.31375	3.900456E-02			15	
trans-1,2-Dichloroethene	0.2942103	5.020922	5.211375	8.15128E-03			15	
1,2-Dichloroethene (total)	0.3015247	4.815503	0	0			15	
1,2-Dichloropropane	0.2652321	5.110876	8.332875	1.684335E-02			CCC (20)	
1,3-Dichloropropane	0.734897	5.952551	9.93825	8.736645E-03			15	
2,2-Dichloropropane	0.5946514	4.605242	6.42125	3.766079E-02			15	
1,1-Dichloropropene	0.4999725	5.789913	7.36425	2.782072E-02			15	
cis-1,3-Dichloropropene	0.4526822	7.660809	9.09225	0.0214368			15	
trans-1,3-Dichloropropene	0.7005815	10.44784	9.57325	1.067693E-02			15	
1,3-Dichloropropene (total)	0.4288784	8.268914	9.57325	1.067693E-02			15	
Diisopropyl Ether	0.7064246	7.622305	5.9675	5.233125E-02			15	
Ethylbenzene	2.754913	4.968674	11.12425	0.0193564			CCC (20)	
Ethyl tert-Butyl Ether	0.7915563	6.875281	6.440125	2.006596E-02			15	
Ethyl Methacrylate	0.4809307	15.72493	9.762	7.584327E-03	0.9961962		0.995	
Hexachlorobutadiene	0.8646314	5.56659	15.715	2.441398E-02			15	
2-Hexanone	0.189554	14.84525	9.878	1.088735E-02			15	
Iodomethane	0.3929812	10.34068	4.232	7.403403E-02			15	
Isopropylbenzene	2.323544	7.482058	12.0295	2.372962E-02			15	
p-Isopropyltoluene	2.548046	6.049523	13.339	1.788767E-02			15	
Methylene chloride	0.3423265	27.54511	4.527	7.229445E-02	0.9981825		0.995	
Methyl Acetate	0.1220833	22.49039	4.38925	4.624854E-02	0.9989271		0.995	
Methylcyclohexane	0.5212834	7.052675	8.667	2.308207E-02			15	
Naphthalene	1.542293	11.44827	15.584	1.732435E-02			15	
Methyl Methacrylate	0.1587087	9.714565	8.47125	4.758316E-02			15	
4-Methyl-2-pentanone	0.1593286	12.34143	9.019334	3.641364E-02			15	
Methyl t-Butyl Ether	0.7867419	5.389296	5.20375	5.637179E-02			15	
n-Propylbenzene	3.4899	7.129542	12.439	1.925848E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1194001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Dates:	7/8/11 12:53 7/9/11 11:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.568894	10.50608	11.599	1.780083E-02			15	
1,1,2,2-Tetrachloroethane	0.4766051	6.567044	11.95275	1.945556E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.499663	8.478917	11.015	1.320253E-02			15	
tert-Butyl alcohol	1.645655E-02	6.982903	4.174429	7.584014E-02			15	
Tetrachloroethene	0.6493662	7.454454	10.31063	2.661371E-02			15	
Toluene	1.3092	5.736455	9.57325	1.067693E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.9429016	4.767817	15.87	1.744748E-02			15	
1,2,4-Trichlorobenzene	1.025851	3.317129	15.432	1.864096E-02			15	
1,1,2-Trichloroethane	0.3408422	5.110346	9.72625	1.794861E-02			15	
1,1,1-Trichloroethane	0.691966	4.627437	7.13925	3.330458E-02			15	
Tetrahydrofuran	3.656754E-02	5.670192	6.781857	3.645187E-02			15	
Trichloroethene	0.3845619	5.021294	8.28475	2.973086E-02			15	
Trichlorofluoromethane	0.8374506	5.964751	3.26875	9.397504E-02			15	
1,2,3-Trichloropropane	0.1631702	6.003271	12.0815	1.518235E-02			15	
1,3,5-Trimethylbenzene	2.64085	7.846363	12.621	2.072057E-02			15	
1,2,4-Trimethylbenzene	2.628282	7.483837	12.99225	5.769175E-03			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3507809	8.556994	4.121875	0.1034033			15	
Vinyl chloride	0.3908904	5.28782	2.214375	0.2074575			CCC (20)	
m,p-Xylene	2.290712	8.626072	11.234	1.290555E-02			15	
o-Xylene	2.497174	5.042784	11.62925	6.749965E-03			15	
Vinyl acetate	0.3270817	10.25032	5.668	2.547571E-02			15	
Xylenes (total)	2.359533	7.186234	0	0			15	
Dibromofluoromethane	0.3085637	7.197471	6.745	2.011418E-02			15	
1,2-Dichloroethane-d4	5.036329E-02	4.263366	7.249556	1.050351E-02			15	
Toluene-d8	1.764819	7.667525	9.494111	1.846088E-02			15	
tert-Amyl alcohol	1.077055E-02	12.0587	6.945857	3.501381E-02			15	
tert-Amyl ethyl ether	0.6046764	7.934658	8.60675	1.427051E-02			15	

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23501	Instrument:	MS-VOA3
Calibration:	1194001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23501-TUN1	0820TU1.D	08/20/11 10:11
Calibration Check	1H23501-CCV1	0820CCV1.D	08/20/11 10:39
LCS	1H20003-BS1	0820LS1.D	08/20/11 11:16
Blank	1H20003-BLK1	0820BLK1.D	08/20/11 12:38
55SS04-0X02D	1108171-24	0817124.D	08/20/11 13:33
55SB04-0204	1108171-25	0817125.D	08/20/11 14:00
55SB04-0204D	1108171-26	0817126.D	08/20/11 14:27
55SS07-0X02	1108171-28	0817128.D	08/20/11 14:55
55SB07-0204	1108171-29	0817129.D	08/20/11 15:22
55SS03-0X02	1108171-32	0817132.D	08/20/11 15:49
55SB03-0204	1108171-33	0817133.D	08/20/11 16:17
55SS09-0X02	1108171-35	0817135.D	08/20/11 16:44
55SB09-0204	1108171-36	0817136.D	08/20/11 17:11
55SS04-0X02	1108171-38	0817138.D	08/20/11 17:38
MS Tune	1H23501-TUN2	0820TU2.D	08/22/11 07:12
Calibration Check	1H23501-CCV2	0820CCV2x.D	08/22/11 07:39
LCS	1H20003-BS2	0820LS2x.D	08/22/11 08:21
55SS09-0X02	1H20003-MS1	0817135Mx.D	08/22/11 08:58
Blank	1H20003-BLK3	0820BLK3x.D	08/22/11 10:47
55SS09-0X02	1H20003-MSD3	0817135S2x.D	08/22/11 15:48

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0820TU1.D	Injection Date:	08/20/11
Instrument ID:	MS-VOA3	Injection Time:	10:11
Sequence:	1H23501	Lab Sample ID:	1H23501-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.2	PASS
75	30 - 60% of 95	59	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.59	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	62.6	PASS
175	5 - 9% of 174	8.43	PASS
176	95 - 101% of 174	99.9	PASS
177	5 - 9% of 176	6.56	PASS

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA3	Calibration:	1194001
Lab File ID:	0820CCV1.D	Calibration Date:	07/08/11 12:53
Sequence:	1H23501	Injection Date:	08/20/11
Lab Sample ID:	1H23501-CCV1	Injection Time:	10:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	182.4	6.175386E-02	5.632803E-02		-8.8	20
Benzene	A	100.0	95.30	1.124087	1.071314		-4.7	20
Bromochloromethane	A	100.0	95.81	0.1329411	0.1273746		-4.2	20
Bromodichloromethane	A	100.0	95.50	0.4956952	0.473371		-4.5	20
Bromoform	A	100.0	102.7	0.2712991	0.2786993	0.1	2.7	20
Bromomethane	A	100.0	89.89	0.2672452	0.2402316		-10.1	20
2-Butanone	A	200.0	194.2	7.055282E-02	0.0685234		-2.9	20
Carbon disulfide	A	100.0	103.4	0.8978577	0.9285792		3.4	20
Carbon tetrachloride	A	100.0	97.68	0.5402457	0.5277262		-2.3	20
Chlorobenzene	A	100.0	91.41	1.428213	1.305546	0.3	-8.6	20
Chloroethane	A	100.0	88.40	0.1979737	0.175008		-11.6	20
Chloroform	A	100.0	86.68	0.7895525	0.6843566		-13.3	20
Chloromethane	A	100.0	89.40	0.3072193	0.2746544	0.1	-10.6	20
Cyclohexane	A	100.0	100.1	0.4018325	0.4022648		0.1	20
Dibromochloromethane	A	100.0	96.02	0.4573426	0.4391573		-4.0	20
1,2-Dibromo-3-chloropropane	A	100.0	94.12	8.405224E-02	7.910811E-02		-5.9	20
1,2-Dibromoethane (EDB)	A	100.0	89.34	0.3996021	0.3569972		-10.7	20
1,2-Dichlorobenzene	A	100.0	84.02	1.191078	1.000797		-16.0	20
1,3-Dichlorobenzene	A	100.0	84.60	1.314428	1.112076		-15.4	20
1,4-Dichlorobenzene	A	100.0	82.47	1.351914	1.11493		-17.5	20
Dichlorodifluoromethane	A	100.0	90.49	0.6166265	0.5580059		-9.5	20
1,1-Dichloroethane	A	100.0	93.37	0.6065013	0.5662879	0.1	-6.6	20
1,2-Dichloroethane	A	100.0	87.89	0.5572042	0.4897377		-12.1	20
1,1-Dichloroethene	A	100.0	108.8	0.2481599	0.269894		8.8	20
cis-1,2-Dichloroethene	A	100.0	101.7	0.3088392	0.3140322		1.7	20
trans-1,2-Dichloroethene	A	100.0	101.8	0.2942103	0.2995843		1.8	20
1,2-Dichloropropane	A	100.0	90.55	0.2652321	0.2401688		-9.4	20
cis-1,3-Dichloropropene	A	100.0	99.54	0.4526822	0.4506145		-0.5	20
trans-1,3-Dichloropropene	A	100.0	103.1	0.7005815	0.7222708		3.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA3	Calibration:	1194001
Lab File ID:	0820CCV1.D	Calibration Date:	07/08/11 12:53
Sequence:	1H23501	Injection Date:	08/20/11
Lab Sample ID:	1H23501-CCV1	Injection Time:	10:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethylbenzene	A	100.0	92.27	2.754913	2.541903		-7.7	20
2-Hexanone	A	200.0	188.0	0.189554	0.1781578		-6.0	20
Isopropylbenzene	A	100.0	102.5	2.323544	2.381024		2.5	20
Methylene chloride	L	100.0	95.58	0.3423265	0.2791616		-4.4	20
Methyl Acetate	L	100.0	85.90	0.1220833	8.784962E-02		-14.1	20
Methylcyclohexane	A	100.0	98.29	0.5212834	0.5123945		-1.7	20
4-Methyl-2-pentanone	A	200.0	180.2	0.1593286	0.143553		-9.9	20
Methyl t-Butyl Ether	A	100.0	85.13	0.7867419	0.669774		-14.9	20
Styrene	A	100.0	100.2	1.568894	1.571868		0.2	20
1,1,2,2-Tetrachloroethane	A	100.0	82.08	0.4766051	0.3912183	0.3	-17.9	20
Tetrachloroethene	A	100.0	91.86	0.6493662	0.5965076		-8.1	20
Toluene	A	100.0	92.60	1.3092	1.212316		-7.4	20
1,2,3-Trichlorobenzene	A	100.0	90.82	0.9429016	0.8563931		-9.2	20
1,2,4-Trichlorobenzene	A	100.0	91.66	1.025851	0.9402444		-8.3	20
1,1,2-Trichloroethane	A	100.0	87.17	0.3408422	0.2971234		-12.8	20
1,1,1-Trichloroethane	A	100.0	92.76	0.691966	0.6418979		-7.2	20
Trichloroethene	A	100.0	93.53	0.3845619	0.3596715		-6.5	20
Trichlorofluoromethane	A	100.0	89.88	0.8374506	0.7527091		-10.1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	97.59	0.3507809	0.3423234		-2.4	20
Vinyl chloride	A	100.0	85.26	0.3908904	0.3332887		-14.7	20
m,p-Xylene	A	200.0	181.3	2.290712	2.076244		-9.4	20
o-Xylene	A	100.0	91.06	2.497174	2.273884		-8.9	20
Bromofluorobenzene	A	30.00	37.56	0.84025	1.051945		25.2	20 *
Dibromofluoromethane	A	30.00	33.18	0.3085637	0.3412476		10.6	20
1,2-Dichloroethane-d4	A	30.00	29.91	5.036329E-02	5.021971E-02		-0.3	20
Toluene-d8	A	30.00	30.17	1.764819	1.774685		0.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0820TU2.D	Injection Date:	08/22/11
Instrument ID:	MS-VOA3	Injection Time:	07:12
Sequence:	1H23501	Lab Sample ID:	1H23501-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.8	PASS
75	30 - 60% of 95	58.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.61	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	62.2	PASS
175	5 - 9% of 174	7.89	PASS
176	95 - 101% of 174	95.9	PASS
177	5 - 9% of 176	7.5	PASS

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA3	Calibration:	1194001
Lab File ID:	0820CCV2x.D	Calibration Date:	07/08/11 12:53
Sequence:	1H23501	Injection Date:	08/22/11
Lab Sample ID:	1H23501-CCV2	Injection Time:	07:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	182.3	6.175386E-02	5.628732E-02		-8.9	20
Benzene	A	100.0	92.10	1.124087	1.035236		-7.9	20
Bromochloromethane	A	100.0	89.62	0.1329411	0.1191461		-10.4	20
Bromodichloromethane	A	100.0	96.19	0.4956952	0.4767954		-3.8	20
Bromoform	A	100.0	101.8	0.2712991	0.2760547	0.1	1.8	20
Bromomethane	A	100.0	86.05	0.2672452	0.2299733		-13.9	20
2-Butanone	A	200.0	182.4	7.055282E-02	6.435399E-02		-8.8	20
Carbon disulfide	A	100.0	98.75	0.8978577	0.8866648		-1.2	20
Carbon tetrachloride	A	100.0	100.5	0.5402457	0.5430567		0.5	20
Chlorobenzene	A	100.0	83.88	1.428213	1.197996	0.3	-16.1	20
Chloroethane	A	100.0	86.77	0.1979737	0.1717856		-13.2	20
Chloroform	A	100.0	85.30	0.7895525	0.6734687		-14.7	20
Chloromethane	A	100.0	87.01	0.3072193	0.2673092	0.1	-13.0	20
Cyclohexane	A	100.0	95.06	0.4018325	0.3819752		-4.9	20
Dibromochloromethane	A	100.0	93.78	0.4573426	0.4289125		-6.2	20
1,2-Dibromo-3-chloropropane	A	100.0	91.55	8.405224E-02	7.695191E-02		-8.4	20
1,2-Dibromoethane (EDB)	A	100.0	83.77	0.3996021	0.3347312		-16.2	20
1,2-Dichlorobenzene	A	100.0	83.28	1.191078	0.9919291		-16.7	20
1,3-Dichlorobenzene	A	100.0	82.12	1.314428	1.079403		-17.9	20
1,4-Dichlorobenzene	A	100.0	78.32	1.351914	1.058888		-21.7	20 *
Dichlorodifluoromethane	A	100.0	91.44	0.6166265	0.5638698		-8.6	20
1,1-Dichloroethane	A	100.0	87.96	0.6065013	0.5334821	0.1	-12.0	20
1,2-Dichloroethane	A	100.0	86.06	0.5572042	0.479536		-13.9	20
1,1-Dichloroethene	A	100.0	100.4	0.2481599	0.2491085		0.4	20
cis-1,2-Dichloroethene	A	100.0	95.39	0.3088392	0.2946075		-4.6	20
trans-1,2-Dichloroethene	A	100.0	91.61	0.2942103	0.2695382		-8.4	20
1,2-Dichloropropane	A	100.0	87.04	0.2652321	0.2308717		-13.0	20
cis-1,3-Dichloropropene	A	100.0	92.51	0.4526822	0.4187874		-7.5	20
trans-1,3-Dichloropropene	A	100.0	98.68	0.7005815	0.6913535		-1.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA3	Calibration:	1194001
Lab File ID:	0820CCV2x.D	Calibration Date:	07/08/11 12:53
Sequence:	1H23501	Injection Date:	08/22/11
Lab Sample ID:	1H23501-CCV2	Injection Time:	07:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethylbenzene	A	100.0	83.33	2.754913	2.295762		-16.7	20
2-Hexanone	A	200.0	170.0	0.189554	0.1611449		-15.0	20
Isopropylbenzene	A	100.0	93.32	2.323544	2.168362		-6.7	20
Methylene chloride	L	100.0	90.10	0.3423265	0.2632146		-9.9	20
Methyl Acetate	L	100.0	77.01	0.1220833	7.900144E-02		-23.0	20 *
Methylcyclohexane	A	100.0	91.74	0.5212834	0.4782235		-8.3	20
4-Methyl-2-pentanone	A	200.0	161.1	0.1593286	0.1283135		-19.5	20
Methyl t-Butyl Ether	A	100.0	79.46	0.7867419	0.6251602		-20.5	20 *
Styrene	A	100.0	91.58	1.568894	1.436718		-8.4	20
1,1,2,2-Tetrachloroethane	A	100.0	79.25	0.4766051	0.3777108	0.3	-20.7	20 *
Tetrachloroethene	A	100.0	84.20	0.6493662	0.5467594		-15.8	20
Toluene	A	100.0	84.36	1.3092	1.104444		-15.6	20
1,2,3-Trichlorobenzene	A	100.0	86.13	0.9429016	0.8121602		-13.9	20
1,2,4-Trichlorobenzene	A	100.0	88.05	1.025851	0.9032933		-11.9	20
1,1,2-Trichloroethane	A	100.0	80.01	0.3408422	0.2726966		-20.0	20
1,1,1-Trichloroethane	A	100.0	94.17	0.691966	0.651647		-5.8	20
Trichloroethene	A	100.0	87.76	0.3845619	0.3375068		-12.2	20
Trichlorofluoromethane	A	100.0	87.12	0.8374506	0.729595		-12.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	91.12	0.3507809	0.3196455		-8.9	20
Vinyl chloride	A	100.0	83.69	0.3908904	0.3271494		-16.3	20
m,p-Xylene	A	200.0	167.8	2.290712	1.921646		-16.1	20
o-Xylene	A	100.0	84.05	2.497174	2.098842		-16.0	20
Bromofluorobenzene	A	30.00	36.12	0.84025	1.011769		20.4	20 *
Dibromofluoromethane	A	30.00	35.06	0.3085637	0.3606471		16.9	20
1,2-Dichloroethane-d4	A	30.00	31.27	5.036329E-02	5.249084E-02		4.2	20
Toluene-d8	A	30.00	28.70	1.764819	1.688413		-4.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H20003 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SS04-0X02D	1108171-24	08/20/11 00:00	3.92	5.00
55SB04-0204	1108171-25	08/20/11 00:00	4.84	5.00
55SB04-0204D	1108171-26	08/20/11 00:00	5.79	5.00
55SS07-0X02	1108171-28	08/20/11 00:00	6.38	5.00
55SB07-0204	1108171-29	08/20/11 00:00	6.67	5.00
55SS03-0X02	1108171-32	08/20/11 00:00	6.30	5.00
55SB03-0204	1108171-33	08/20/11 00:00	6.03	5.00
55SS09-0X02	1108171-35	08/20/11 00:00	6.30	5.00
55SB09-0204	1108171-36	08/20/11 00:00	5.69	5.00
55SS04-0X02	1108171-38	08/20/11 00:00	4.07	5.00
Blank	1H20003-BLK1	08/20/11 00:00	5.00	5.00
Blank	1H20003-BLK3	08/22/11 00:00	5.00	5.00
LCS	1H20003-BS1	08/20/11 00:00	5.00	5.00
LCS	1H20003-BS2	08/22/11 00:00	5.00	5.00
55SS09-0X02	1H20003-MS1	08/20/11 00:00	6.45	5.00
55SS09-0X02	1H20003-MSD3	08/22/11 00:00	6.49	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Matrix: Laboratory ID: 1H20003-BLK1 File ID: 0820BLK1.D

Sampled: Prepared: Analyzed: 08/20/11 12:38

Solids: Preparation: 5035 Dilution:

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone		5.00	10.0	20.0	Q, U
71-43-2	Benzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	U
78-93-3	2-Butanone		2.50	5.00	10.0	Q, U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
110-82-7	Cyclohexane		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	Q, U
98-82-8	Isopropylbenzene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	U
79-20-9	Methyl Acetate		2.50	5.00	10.0	U
108-87-2	Methylcyclohexane		1.25	2.50	5.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H20003-BLK1	File ID:	0820BLK1.D
Sampled:		Prepared:		Analyzed:	08/20/11 12:38
Solids:		Preparation:	5035	Dilution:	

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	5.00	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	5.00	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.50	5.00	10.0	U
75-01-4	Vinyl chloride		1.25	2.50	10.0	U
108-38-3/106-42-	m,p-Xylene		2.50	5.00	10.0	U
95-47-6	o-Xylene		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.99	107	85 - 120	X
Dibromofluoromethane	30.00	31.95	107	80 - 125	
1,2-Dichloroethane-d4	30.00	30.22	101	75 - 140	
Toluene-d8	30.00	30.14	100	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Matrix: Laboratory ID: 1H20003-BLK3 File ID: 0820BLK3x.D

Sampled: Prepared: Analyzed: 08/22/11 10:47

Solids: Preparation: 5035 Dilution:

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone		5.00	10.0	20.0	Q, U
71-43-2	Benzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	U
78-93-3	2-Butanone		2.50	5.00	10.0	Q, U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
110-82-7	Cyclohexane		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	Y, U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	Q, U
98-82-8	Isopropylbenzene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	U
79-20-9	Methyl Acetate		2.50	5.00	10.0	Y, U
108-87-2	Methylcyclohexane		1.25	2.50	5.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	Y, U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	Y, U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H20003-BLK3	File ID:	0820BLK3x.D
Sampled:		Prepared:		Analyzed:	08/22/11 10:47
Solids:		Preparation:	5035	Dilution:	

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg we	DL	LOD	LOQ	Q
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	5.00	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	5.00	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.50	5.00	10.0	U
75-01-4	Vinyl chloride		1.25	2.50	10.0	U
108-38-3/106-42-	m,p-Xylene		2.50	5.00	10.0	U
95-47-6	o-Xylene		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.39	108	85 - 120	X
Dibromofluoromethane	30.00	32.76	109	80 - 125	
1,2-Dichloroethane-d4	30.00	29.38	97.9	75 - 140	
Toluene-d8	30.00	30.03	100	85 - 115	

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22902	Instrument:	MS-VOA4
Calibration:	1229002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H22902-TUN1	0816TU1.D	08/16/11 09:01
Cal Standard	1H22902-CAL1	SEQ-CAL1.D	08/16/11 10:01
Cal Standard	1H22902-CAL2	SEQ-CAL2.D	08/16/11 10:30
Cal Standard	1H22902-CAL3	SEQ-CAL3.D	08/16/11 10:58
Cal Standard	1H22902-CAL4	SEQ-CAL4.D	08/16/11 11:26
Cal Standard	1H22902-CAL5	SEQ-CAL5.D	08/16/11 11:55
Cal Standard	1H22902-CAL6	SEQ-CAL6.D	08/16/11 12:23
Cal Standard	1H22902-CAL7	SEQ-CAL7.D	08/16/11 12:51
Cal Standard	1H22902-CAL8	SEQ-CAL8.D	08/16/11 13:19
Cal Standard	1H22902-CAL9	SEQ-CAL9.D	08/16/11 13:47
Initial Cal Check	1H22902-ICV1	SEQ-ICV1.D	08/16/11 14:44
Initial Cal Check	1H22902-ICV2	SEQ-ICV2.D	08/16/11 15:12

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0816TU1.D	Injection Date:	08/16/11
Instrument ID:	MS-VOA4	Injection Time:	09:01
Sequence:	1H22902	Lab Sample ID:	1H22902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.7	PASS
75	30 - 60% of 95	35.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.32	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	70.1	PASS
175	5 - 9% of 174	7.97	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.08	PASS

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.0575418	16.28374	3.87425	0.1918265	0.9996122		0.995	
Acrolein	1.541033E-02	16.24328	3.753286	0.1069534	0.9960182		0.995	
Acrylonitrile	3.374145E-02	11.82527	4.710889	8.835449E-02			15	
Benzene	0.5617921	7.379864	7.751667	3.934664E-02			15	
Bromobenzene	0.6787183	8.810238	12.48678	3.353733E-02			15	
Bromochloromethane	0.1100621	8.019581	6.848778	8.645393E-02			15	
Tert-Amyl Methyl Ether	0.4197561	6.13736	7.937556	3.929182E-02			15	
Bromodichloromethane	0.2747333	9.064225	8.732222	4.418058E-02			15	
Bromoform	0.5489907	13.16844	11.89322	2.492106E-02			SPCC (0.1)	
Bromomethane	0.1624106	9.520168	2.906222	0.1937131			15	
Bromofluorobenzene	1.084841	7.674439	12.32178	2.864882E-02			15	
n-Butylbenzene	1.091296	7.28562	13.91322	2.356767E-02			15	
2-Butanone	6.628659E-02	10.08256	6.302445	0.1092186			15	
sec-Butylbenzene	1.745914	5.052661	13.37333	2.588647E-02			15	
tert-Butylbenzene	1.239993	4.143962	13.13833	2.250046E-02			15	
Carbon disulfide	0.3963281	10.37905	4.888	5.941968E-02			15	
Carbon tetrachloride	0.1967035	8.91945	7.722222	4.253408E-02			15	
Chlorobenzene	1.789098	4.683489	11.16522	2.730701E-02			SPCC (0.3)	
Chloroethane	6.618182E-02	16.62614	3.043889	0.1796245	0.9985108		0.995	
Chloroform	0.3657383	7.177747	6.823778	5.637438E-02			CCC (20)	
2-Chloroethyl vinyl ether	7.199432E-02	13.67585	9.086333	4.628896E-02			15	
Chloromethane	0.1379611	7.881192	2.310556	0.563011			SPCC (0.1)	
1-Chlorohexane	0.6742091	9.287101	11.13033	3.437828E-02			15	
2-Chlorotoluene	1.416661	6.429502	12.70544	2.546658E-02			15	
4-Chlorotoluene	1.670036	4.396709	12.76789	2.816444E-02			15	
Cyclohexane	0.1089893	7.590067	7.654333	0.070096			15	
Dibromochloromethane	0.5962943	11.98739	10.399	2.737902E-02			15	
1,2-Dibromo-3-chloropropane	0.130454	9.693276	14.51789	2.435829E-02			15	
1,2-Dibromoethane (EDB)	0.7842657	6.720684	10.61444	2.895825E-02			15	
Dibromomethane	0.1670466	6.006732	8.667778	0.033882			15	
1,2-Dichlorobenzene	0.9132796	6.385101	13.87611	0.0213825			15	
1,3-Dichlorobenzene	0.933043	5.892607	13.46289	2.782759E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	0.9629043	6.089999	13.55589	2.527918E-02			15	
Dichlorodifluoromethane	0.1987127	9.670187	2.086333	0.1556681			15	
1,1-Dichloroethane	0.2268701	12.8994	5.867333	6.373268E-02			SPCC (0.1)	
1,2-Dichloroethane	0.267094	8.004438	7.579	4.916251E-02			15	
1,1-Dichloroethene	0.1984207	6.970958	4.357667	0.1067224			CCC (20)	
cis-1,2-Dichloroethene	0.2557099	7.991322	6.574556	9.663746E-02			15	
trans-1,2-Dichloroethene	0.2297347	7.115709	5.497889	5.579666E-02			15	
1,2-Dichloroethene (total)	0.2427223	7.394184	0	0			15	
1,2-Dichloropropane	0.1055341	7.77866	8.554	3.834985E-02			CCC (20)	
1,3-Dichloropropane	0.702035	10.03236	10.13889	4.188439E-02			15	
2,2-Dichloropropane	0.2311142	6.341311	6.678333	4.411985E-02			15	
1,1-Dichloropropene	0.1957866	7.70324	7.599778	4.556141E-02			15	
cis-1,3-Dichloropropene	0.2482491	6.668519	9.300666	3.663101E-02			15	
trans-1,3-Dichloropropene	0.8209591	6.982319	9.773778	0.0402609			15	
Diisopropyl Ether	0.4547504	10.59161	6.232333	0.0560336			15	
Ethylbenzene	2.499288	5.336849	11.31289	2.764937E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.4537613	9.160568	6.693667	7.053838E-02			15	
Ethyl Methacrylate	0.4702449	10.45766	9.958556	4.578157E-02			15	
Hexachlorobutadiene	0.1319488	9.075327	15.87967	1.575122E-02			15	
2-Hexanone	0.2701311	10.39731	10.07222	2.635162E-02			15	
Iodomethane	0.2456327	24.97849	4.548	0.1111788	0.9978509		0.995	
Isopropylbenzene	2.094953	4.044991	12.21256	3.350027E-02			15	
p-Isopropyltoluene	1.243997	4.758068	13.511	2.693563E-02			15	
Methylene chloride	0.2168724	8.428011	4.8335	0.1010171			15	
Methyl Acetate	0.1035201	11.29133	4.699889	0.2067483			15	
Methylcyclohexane	0.1499832	9.202679	8.883111	3.057022E-02			15	
Naphthalene	0.9149282	7.60523	15.75289	1.969426E-02			15	
Methyl Methacrylate	0.1448001	8.412517	8.682889	4.802117E-02			15	
4-Methyl-2-pentanone	0.1267146	8.123145	9.221778	3.968653E-02			15	
Methyl t-Butyl Ether	0.4253933	9.427374	5.487	6.647796E-02			15	
n-Propylbenzene	2.070466	5.075536	12.62011	2.411476E-02			15	
Styrene	1.924134	6.123119	11.78633	0.0361033			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.4765921	7.244244	12.13478	3.381826E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4637096	8.415579	11.20789	0.0394568			15	
tert-Butyl alcohol	1.397231E-02	13.17544	4.493333	0.1672152			15	
Tetrachloroethene	0.6566482	4.85799	10.51289	0.0391751			15	
Toluene	1.437624	6.229328	9.778222	3.393386E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.423201	7.91311	16.04033	1.353914E-02			15	
1,2,4-Trichlorobenzene	0.5127504	6.071195	15.59778	2.461357E-02			15	
1,1,2-Trichloroethane	0.4387015	7.861565	9.929111	4.611406E-02			15	
1,1,1-Trichloroethane	0.262971	11.74316	7.383444	5.639212E-02			15	
Tetrahydrofuran	3.135825E-02	12.94675	7.028375	5.329981E-02			15	
Trichloroethene	0.2353264	8.611764	8.508111	4.484945E-02			15	
Trichlorofluoromethane	0.2780621	10.99483	3.558778	9.994573E-02			15	
1,2,3-Trichloropropane	0.189917	14.04118	12.26167	3.097179E-02			15	
1,3,5-Trimethylbenzene	1.551444	6.003742	12.79833	2.713179E-02			15	
1,2,4-Trimethylbenzene	1.601946	3.60541	13.16889	3.201066E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1943975	9.569462	4.434222	0.1523799			15	
Vinyl chloride	0.1376198	8.262594	2.454778	0.1575583			CCC (20)	
m,p-Xylene	1.916489	5.358445	11.42556	2.946135E-02			15	
o-Xylene	2.016979	5.185108	11.81678	4.590072E-02			15	
Vinyl acetate	0.2879363	11.53617	5.937333	7.379793E-02			15	
Xylenes (total)	1.949986	4.873858	0	0			15	
Dibromofluoromethane	0.3026546	4.869217	6.994222	4.414058E-02			15	
1,2-Dichloroethane-d4	6.424239E-02	5.178117	7.487333	5.902665E-02			15	
Toluene-d8	2.688003	5.344191	9.702889	3.424184E-02			15	
tert-Amyl alcohol	8.123476E-03	11.22889	7.185875	7.092554E-02			15	
tert-Amyl ethyl ether	0.3262617	13.46127	8.818667	4.124662E-02			15	

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23101	Instrument:	MS-VOA4
Calibration:	1229002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23101-TUN1	0818TU1.D	08/18/11 06:39
Calibration Check	1H23101-CCV1	0818CCV1.D	08/18/11 08:01
LCS	1H18004-BS1	0818LS1.D	08/18/11 08:36
Blank	1H18004-BLK1	0818BLK1.D	08/18/11 10:33
TRIP BLANK #0150	1108171-37	0817137.D	08/18/11 13:22

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0818TU1.D	Injection Date:	08/18/11
Instrument ID:	MS-VOA4	Injection Time:	06:39
Sequence:	1H23101	Lab Sample ID:	1H23101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17	PASS
75	30 - 60% of 95	37	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.09	PASS
173	Less than 2% of 174	0.904	PASS
174	50 - 200% of 95	59.5	PASS
175	5 - 9% of 174	8.36	PASS
176	95 - 101% of 174	96.6	PASS
177	5 - 9% of 176	6.31	PASS

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0818CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23101	Injection Date:	08/18/11
Lab Sample ID:	1H23101-CCV1	Injection Time:	08:01

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	204.6	0.0575418	5.553658E-02		2.3	20
Benzene	A	100.0	101.1	0.5617921	0.5679999		1.1	20
Bromochloromethane	A	100.0	97.15	0.1100621	0.1069219		-2.9	20
Bromodichloromethane	A	100.0	99.79	0.2747333	0.2741601		-0.2	20
Bromoform	A	100.0	105.6	0.5489907	0.5796543	0.1	5.6	20
Bromomethane	A	100.0	109.0	0.1624106	0.1770298		9.0	20
2-Butanone	A	200.0	208.4	6.628659E-02	0.0690822		4.2	20
Carbon disulfide	A	100.0	111.7	0.3963281	0.4426116		11.7	20
Carbon tetrachloride	A	100.0	102.2	0.1967035	0.2009342		2.2	20
Chlorobenzene	A	100.0	89.68	1.789098	1.604448	0.3	-10.3	20
Chloroethane	L	100.0	104.5	6.618182E-02	7.670246E-02		4.5	20
Chloroform	A	100.0	94.79	0.3657383	0.3466867		-5.2	20
Chloromethane	A	100.0	104.8	0.1379611	0.1445494	0.1	4.8	20
Cyclohexane	A	100.0	114.9	0.1089893	0.1252526		14.9	20
Dibromochloromethane	A	100.0	100.6	0.5962943	0.6001588		0.6	20
1,2-Dibromo-3-chloropropane	A	100.0	104.9	0.130454	0.1368058		4.9	20
1,2-Dibromoethane (EDB)	A	100.0	98.14	0.7842657	0.7697143		-1.9	20
1,2-Dichlorobenzene	A	100.0	97.96	0.9132796	0.8946811		-2.0	20
1,3-Dichlorobenzene	A	100.0	98.31	0.933043	0.9172892		-1.7	20
1,4-Dichlorobenzene	A	100.0	92.90	0.9629043	0.8945669		-7.1	20
Dichlorodifluoromethane	A	100.0	122.4	0.1987127	0.2431495		22.4	20 *
1,1-Dichloroethane	A	100.0	111.2	0.2268701	0.2523241	0.1	11.2	20
1,2-Dichloroethane	A	100.0	98.52	0.267094	0.2631488		-1.5	20
1,1-Dichloroethene	A	100.0	105.0	0.1984207	0.2083951		5.0	20
cis-1,2-Dichloroethene	A	100.0	95.42	0.2557099	0.2439901		-4.6	20
trans-1,2-Dichloroethene	A	100.0	99.56	0.2297347	0.2287143		-0.4	20
1,2-Dichloropropane	A	100.0	106.1	0.1055341	0.1119981		6.1	20
cis-1,3-Dichloropropene	A	100.0	102.3	0.2482491	0.2539464		2.3	20
trans-1,3-Dichloropropene	A	100.0	106.3	0.8209591	0.8730243		6.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0818CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23101	Injection Date:	08/18/11
Lab Sample ID:	1H23101-CCV1	Injection Time:	08:01

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethylbenzene	A	100.0	98.28	2.499288	2.456446		-1.7	20
2-Hexanone	A	200.0	222.0	0.2701311	0.2997802		11.0	20
Isopropylbenzene	A	100.0	97.92	2.094953	2.051368		-2.1	20
Methylene chloride	A	100.0	95.19	0.2168724	0.2064496		-4.8	20
Methyl Acetate	A	100.0	101.2	0.1035201	0.1047987		1.2	20
Methylcyclohexane	A	100.0	109.2	0.1499832	0.1637388		9.2	20
4-Methyl-2-pentanone	A	200.0	215.9	0.1267146	0.136791		8.0	20
Methyl t-Butyl Ether	A	100.0	104.8	0.4253933	0.4460648		4.9	20
Styrene	A	100.0	95.59	1.924134	1.839287		-4.4	20
1,1,2,2-Tetrachloroethane	A	100.0	105.9	0.4765921	0.5046155	0.3	5.9	20
Tetrachloroethene	A	100.0	100.3	0.6566482	0.658931		0.3	20
Toluene	A	100.0	99.49	1.437624	1.430316		-0.5	20
1,2,3-Trichlorobenzene	A	100.0	99.06	0.423201	0.4192193		-0.9	20
1,2,4-Trichlorobenzene	A	100.0	99.06	0.5127504	0.5079517		-0.9	20
1,1,2-Trichloroethane	A	100.0	101.2	0.4387015	0.4441411		1.2	20
1,1,1-Trichloroethane	A	100.0	103.2	0.262971	0.2714282		3.2	20
Trichloroethene	A	100.0	98.17	0.2353264	0.2310118		-1.8	20
Trichlorofluoromethane	A	100.0	110.5	0.2780621	0.3073455		10.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	108.5	0.1943975	0.2109017		8.5	20
Vinyl chloride	A	100.0	114.5	0.1376198	0.157612		14.5	20
m,p-Xylene	A	200.0	182.4	1.916489	1.748099		-8.8	20
o-Xylene	A	100.0	95.40	2.016979	1.924211		-4.6	20
Bromofluorobenzene	A	30.00	32.33	1.084841	1.168953		7.8	20
Dibromofluoromethane	A	30.00	30.78	0.3026546	0.3104877		2.6	20
1,2-Dichloroethane-d4	A	30.00	29.11	6.424239E-02	6.233172E-02		-3.0	20
Toluene-d8	A	30.00	32.27	2.688003	2.891674		7.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Batch: 1H18004 Batch Matrix: Water

Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
TRIP BLANK #0150	1108171-37	08/18/11 08:27	5.00	5.00
Blank	1H18004-BLK1	08/18/11 08:27	5.00	5.00
LCS	1H18004-BS1	08/18/11 08:27	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Matrix:
Laboratory ID: 1H18004-BLK1
File ID: 0818BLK1.D
Sampled:
Prepared:
Analyzed: 08/18/11 10:33
Solids:
Preparation: 5030B
Dilution:
Batch: 1H18004
Sequence: 1H23101
Calibration: 1229002
Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H18004-BLK1	File ID:	0818BLK1.D
Sampled:		Prepared:		Analyzed:	08/18/11 10:33
Solids:		Preparation:	5030B	Dilution:	

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.71	106	75 - 120	
Dibromofluoromethane	30.00	30.19	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.58	102	70 - 120	
Toluene-d8	30.00	30.83	103	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22902	Instrument:	MS-VOA4
		Calibration:	1229002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1H22902-ICV1) ug/L				Lab File ID: SEQ-ICV1.D		Analyzed: 08/16/11 14:44		
Bromofluorobenzene	30.00	107	80 - 120	12.326		12.3260	+/-1.000	*
Dibromofluoromethane	30.00	107	80 - 120	6.994		6.9940	+/-1.000	*
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.496		7.4960	+/-1.000	*
Toluene-d8	30.00	102	80 - 120	9.7		9.7000	+/-1.000	*
Initial Cal Check (1H22902-ICV2) ug/L				Lab File ID: SEQ-ICV2.D		Analyzed: 08/16/11 15:12		
Bromofluorobenzene	30.00	106	80 - 120	12.326		12.3260	+/-1.000	*
Dibromofluoromethane	30.00	100	80 - 120	6.994		6.9940	+/-1.000	*
1,2-Dichloroethane-d4	30.00	95.3	80 - 120	7.486		7.4860	+/-1.000	*
Toluene-d8	30.00	106	80 - 120	9.709		9.7090	+/-1.000	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23101	Instrument:	MS-VOA4
		Calibration:	1229002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23101-CCV1) ug/L				Lab File ID: 0818CCV1.D		Analyzed: 08/18/11 08:01		
Bromofluorobenzene	30.00	108	80 - 120	12.322	12.322	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	7	7	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	80 - 120	7.492	7.492	0.0000	+/-1.000	
Toluene-d8	30.00	108	80 - 120	9.705	9.705	0.0000	+/-1.000	
LCS (1H18004-BS1) ug/L				Lab File ID: 0818LS1.D		Analyzed: 08/18/11 08:36		
Bromofluorobenzene	30.00	101	75 - 120	12.326	12.322	0.0040	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.994	7	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.496	7.492	0.0040	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.709	9.705	0.0040	+/-1.000	
Blank (1H18004-BLK1) ug/L				Lab File ID: 0818BLK1.D		Analyzed: 08/18/11 10:33		
Bromofluorobenzene	30.00	106	75 - 120	12.321	12.322	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.999	7	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.491	7.492	-0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.704	9.705	-0.0010	+/-1.000	
TRIP BLANK #0150 (1108171-37) ug/L				Lab File ID: 0817137.D		Analyzed: 08/18/11 13:22		
Bromofluorobenzene	30.00	99.5	75 - 120	12.328	12.322	0.0060	+/-1.000	
Dibromofluoromethane	30.00	98.6	85 - 115	6.996	7	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.1	70 - 120	7.488	7.492	-0.0040	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.701	9.705	-0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23501	Instrument:	MS-VOA3
		Calibration:	1194001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23501-CCV1) ug/L				Lab File ID: 0820CCV1.D		Analyzed: 08/20/11 10:39		
Bromofluorobenzene	30.00	125	80 - 120	12.141	12.141	0.0000	+/-1.000	*
Dibromofluoromethane	30.00	111	80 - 120	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	80 - 120	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	30.00	101	80 - 120	9.494	9.494	0.0000	+/-1.000	
LCS (1H20003-BS1) ug/Kg wet				Lab File ID: 0820LS1.D		Analyzed: 08/20/11 11:16		
Bromofluorobenzene	30.00	114	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.1	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	30.00	98.8	85 - 115	9.494	9.494	0.0000	+/-1.000	
Blank (1H20003-BLK1) ug/Kg wet				Lab File ID: 0820BLK1.D		Analyzed: 08/20/11 12:38		
Bromofluorobenzene	30.00	107	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	80 - 125	6.744	6.745	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	30.00	100	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SS04-0X02D (1108171-24) ug/Kg dry				Lab File ID: 0817124.D		Analyzed: 08/20/11 13:33		
Bromofluorobenzene	55.98	107	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	55.98	108	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	55.98	117	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	55.98	99.1	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SB04-0204 (1108171-25) ug/Kg dry				Lab File ID: 0817125.D		Analyzed: 08/20/11 14:00		
Bromofluorobenzene	32.08	110	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	32.08	114	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	32.08	119	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	32.08	99.2	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SB04-0204D (1108171-26) ug/Kg dry				Lab File ID: 0817126.D		Analyzed: 08/20/11 14:27		
Bromofluorobenzene	32.05	108	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	32.05	118	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	32.05	121	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	32.05	98.1	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SS07-0X02 (1108171-28) ug/Kg dry				Lab File ID: 0817128.D		Analyzed: 08/20/11 14:55		
Bromofluorobenzene	30.32	108	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	30.32	112	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.32	122	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	30.32	97.7	85 - 115	9.494	9.494	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23501	Instrument:	MS-VOA3
		Calibration:	1194001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SB07-0204 (1108171-29) ug/Kg dry				Lab File ID: 0817129.D		Analyzed: 08/20/11 15:22		
Bromofluorobenzene	27.90	107	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	27.90	112	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	27.90	110	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	27.90	95.0	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SS03-0X02 (1108171-32) ug/Kg dry				Lab File ID: 0817132.D		Analyzed: 08/20/11 15:49		
Bromofluorobenzene	32.18	110	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	32.18	117	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	32.18	118	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	32.18	95.6	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SB03-0204 (1108171-33) ug/Kg dry				Lab File ID: 0817133.D		Analyzed: 08/20/11 16:17		
Bromofluorobenzene	34.91	105	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	34.91	114	80 - 125	6.744	6.745	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	34.91	125	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	34.91	95.4	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SS09-0X02 (1108171-35) ug/Kg dry				Lab File ID: 0817135.D		Analyzed: 08/20/11 16:44		
Bromofluorobenzene	34.31	111	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	34.31	115	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	34.31	121	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	34.31	97.4	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SB09-0204 (1108171-36) ug/Kg dry				Lab File ID: 0817136.D		Analyzed: 08/20/11 17:11		
Bromofluorobenzene	36.14	109	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	36.14	109	80 - 125	6.744	6.745	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	36.14	104	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	36.14	98.1	85 - 115	9.494	9.494	0.0000	+/-1.000	
55SS04-0X02 (1108171-38) ug/Kg dry				Lab File ID: 0817138.D		Analyzed: 08/20/11 17:38		
Bromofluorobenzene	54.33	106	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	54.33	111	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	54.33	108	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	54.33	98.7	85 - 115	9.494	9.494	0.0000	+/-1.000	
Calibration Check (1H23501-CCV2) ug/L				Lab File ID: 0820CCV2x.D		Analyzed: 08/22/11 07:39		
Bromofluorobenzene	30.00	120	80 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	30.00	117	80 - 120	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	30.00	95.7	80 - 120	9.494	9.494	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23501	Instrument:	MS-VOA3
		Calibration:	1194001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS (1H20003-BS2) ug/Kg wet				Lab File ID: 0820LS2x.D		Analyzed: 08/22/11 08:21		
Bromofluorobenzene	30.00	122	85 - 120	12.141	12.141	0.0000	+/-1.000	*
Dibromofluoromethane	30.00	115	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.0	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 115	9.494	9.494	0.0000	+/-1.000	
Matrix Spike (1H20003-MS1) ug/Kg dry				Lab File ID: 0817135Mx.D		Analyzed: 08/22/11 08:58		
Bromofluorobenzene	33.51	119	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	33.51	112	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	33.51	106	75 - 140	7.25	7.25	0.0000	+/-1.000	
Toluene-d8	33.51	99.0	85 - 115	9.494	9.494	0.0000	+/-1.000	
Blank (1H20003-BLK3) ug/Kg wet				Lab File ID: 0820BLK3x.D		Analyzed: 08/22/11 10:47		
Bromofluorobenzene	30.00	108	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.9	75 - 140	7.244	7.25	-0.0060	+/-1.000	
Toluene-d8	30.00	100	85 - 115	9.495	9.494	0.0010	+/-1.000	
Matrix Spike Dup (1H20003-MSD3) ug/Kg dry				Lab File ID: 0817135S2x.D		Analyzed: 08/22/11 15:48		
Bromofluorobenzene	33.30	120	85 - 120	12.141	12.141	0.0000	+/-1.000	
Dibromofluoromethane	33.30	111	80 - 125	6.745	6.745	0.0000	+/-1.000	
1,2-Dichloroethane-d4	33.30	101	75 - 140	7.249	7.25	-0.0010	+/-1.000	
Toluene-d8	33.30	99.8	85 - 115	9.494	9.494	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H18004	Laboratory ID:	1H18004-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	85.6	85.6	40 - 140
Benzene	50.00	55.6	111	80 - 120
Bromochloromethane	50.00	49.9	99.8	65 - 130
Bromodichloromethane	50.00	50.4	101	75 - 120
Bromoform	50.00	50.1	100	70 - 130
Bromomethane	50.00	52.1	104	30 - 145
2-Butanone	100.0	96.0	96.0	30 - 150
Carbon disulfide	50.00	49.6	99.2	35 - 160
Carbon tetrachloride	50.00	55.6	111	65 - 140
Chlorobenzene	50.00	47.8	95.6	80 - 120
Chloroethane	50.00	55.8	112	60 - 135
Chloroform	50.00	50.0	100	65 - 135
Chloromethane	50.00	46.4	92.8	40 - 125
Cyclohexane	50.00	58.4	117	60 - 130
Dibromochloromethane	50.00	48.6	97.1	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.9	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.5	95.0	80 - 120
1,2-Dichlorobenzene	50.00	51.2	102	70 - 120
1,3-Dichlorobenzene	50.00	51.2	102	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	75 - 125
Dichlorodifluoromethane	50.00	48.8	97.5	30 - 155
1,1-Dichloroethane	50.00	56.7	113	70 - 135
1,2-Dichloroethane	50.00	51.2	102	70 - 130
1,1-Dichloroethene	50.00	51.1	102	70 - 130
cis-1,2-Dichloroethene	50.00	53.0	106	70 - 125
trans-1,2-Dichloroethene	50.00	50.9	102	60 - 140
1,2-Dichloropropane	50.00	56.4	113	75 - 125
cis-1,3-Dichloropropene	50.00	55.4	111	70 - 130
trans-1,3-Dichloropropene	50.00	46.9	93.9	55 - 140
Ethylbenzene	50.00	51.0	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H18004	Laboratory ID:	1H18004-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Hexanone	100.0	107	107	55 - 130
Isopropylbenzene	50.00	48.7	97.4	75 - 125
Methylene chloride	50.00	50.1	100	55 - 140
Methyl Acetate	50.00	49.8	99.5	55 - 150
Methylcyclohexane	50.00	55.9	112	60 - 125
4-Methyl-2-pentanone	100.0	107	107	60 - 135
Methyl t-Butyl Ether	50.00	52.6	105	65 - 125
Styrene	50.00	49.8	99.6	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.9	106	65 - 130
Tetrachloroethene	50.00	51.5	103	45 - 150
Toluene	50.00	49.5	99.0	75 - 120
1,2,3-Trichlorobenzene	50.00	55.1	110	55 - 140
1,2,4-Trichlorobenzene	50.00	52.7	105	65 - 135
1,1,2-Trichloroethane	50.00	52.3	105	75 - 125
1,1,1-Trichloroethane	50.00	56.1	112	65 - 130
Trichloroethene	50.00	51.5	103	70 - 125
Trichlorofluoromethane	50.00	55.3	111	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	51.2	102	60 - 130
Vinyl chloride	50.00	56.0	112	50 - 145
m,p-Xylene	100.0	99.6	99.6	75 - 130
o-Xylene	50.00	51.4	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H20003	Laboratory ID:	1H20003-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acetone	**100.0**	**236.4**	**236**	**20 - 160**
Benzene	50.00	55.54	111	75 - 125
Bromochloromethane	50.00	56.74	113	70 - 125
Bromodichloromethane	50.00	52.60	105	70 - 130
Bromoform	50.00	56.70	113	55 - 135
Bromomethane	50.00	56.72	113	30 - 160
2-Butanone	**100.0**	**166.9**	**167**	**30 - 160**
Carbon disulfide	50.00	47.67	95.3	45 - 160
Carbon tetrachloride	50.00	53.18	106	65 - 135
Chlorobenzene	50.00	51.46	103	75 - 125
Chloroethane	50.00	53.56	107	40 - 155
Chloroform	50.00	49.68	99.4	70 - 125
Chloromethane	50.00	53.31	107	50 - 130
Cyclohexane	50.00	51.43	103	65 - 140
Dibromochloromethane	50.00	52.98	106	65 - 130
1,2-Dibromo-3-chloropropane	50.00	53.73	107	40 - 135
1,2-Dibromoethane (EDB)	50.00	50.82	102	70 - 125
1,2-Dichlorobenzene	50.00	48.81	97.6	75 - 120
1,3-Dichlorobenzene	50.00	47.21	94.4	70 - 125
1,4-Dichlorobenzene	50.00	47.59	95.2	70 - 125
Dichlorodifluoromethane	50.00	41.72	83.4	35 - 135
1,1-Dichloroethane	50.00	53.03	106	75 - 125
1,2-Dichloroethane	50.00	49.91	99.8	70 - 135
1,1-Dichloroethene	50.00	57.98	116	65 - 135
cis-1,2-Dichloroethene	50.00	58.22	116	65 - 125
trans-1,2-Dichloroethene	50.00	55.93	112	65 - 135
1,2-Dichloropropane	50.00	52.86	106	70 - 120
cis-1,3-Dichloropropene	50.00	55.80	112	70 - 125
trans-1,3-Dichloropropene	50.00	49.67	99.3	65 - 125
Ethylbenzene	50.00	51.58	103	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H20003	Laboratory ID:	1H20003-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
2-Hexanone	**100.0**	**152.4**	**152**	**45 - 145**
Isopropylbenzene	50.00	54.23	108	75 - 130
Methylene chloride	50.00	57.06	114	55 - 140
Methyl Acetate	50.00	59.06	118	45 - 165
Methylcyclohexane	50.00	54.54	109	65 - 135
4-Methyl-2-pentanone	100.0	117.8	118	45 - 145
Methyl t-Butyl Ether	50.00	50.24	100	55 - 150
Styrene	50.00	55.53	111	75 - 125
1,1,2,2-Tetrachloroethane	50.00	48.70	97.4	55 - 130
Tetrachloroethene	50.00	50.98	102	65 - 140
Toluene	50.00	51.33	103	70 - 125
1,2,3-Trichlorobenzene	50.00	52.38	105	60 - 130
1,2,4-Trichlorobenzene	50.00	50.66	101	65 - 130
1,1,2-Trichloroethane	50.00	49.68	99.4	60 - 125
1,1,1-Trichloroethane	50.00	53.37	107	70 - 135
Trichloroethene	50.00	53.43	107	75 - 125
Trichlorofluoromethane	50.00	47.62	95.2	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	49.71	99.4	20 - 185
Vinyl chloride	50.00	50.98	102	60 - 125
m,p-Xylene	100.0	106.5	107	80 - 125
o-Xylene	50.00	49.50	99.0	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H20003	Laboratory ID:	1H20003-BS2
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acetone	**100.0**	**227.3**	**227**	**20 - 160**
Benzene	50.00	49.18	98.4	75 - 125
Bromochloromethane	50.00	50.22	100	70 - 125
Bromodichloromethane	50.00	48.52	97.0	70 - 130
Bromoform	50.00	58.86	118	55 - 135
Bromomethane	50.00	50.65	101	30 - 160
2-Butanone	**100.0**	**165.4**	**165**	**30 - 160**
Carbon disulfide	50.00	43.35	86.7	45 - 160
Carbon tetrachloride	50.00	51.52	103	65 - 135
Chlorobenzene	50.00	50.33	101	75 - 125
Chloroethane	50.00	47.43	94.9	40 - 155
Chloroform	50.00	44.98	90.0	70 - 125
Chloromethane	50.00	47.54	95.1	50 - 130
Cyclohexane	50.00	44.86	89.7	65 - 140
Dibromochloromethane	50.00	51.83	104	65 - 130
1,2-Dibromo-3-chloropropane	50.00	50.62	101	40 - 135
1,2-Dibromoethane (EDB)	50.00	50.19	100	70 - 125
1,2-Dichlorobenzene	50.00	45.20	90.4	75 - 120
1,3-Dichlorobenzene	50.00	46.16	92.3	70 - 125
1,4-Dichlorobenzene	50.00	44.86	89.7	70 - 125
Dichlorodifluoromethane	50.00	39.21	78.4	35 - 135
1,1-Dichloroethane	50.00	46.67	93.3	75 - 125
1,2-Dichloroethane	50.00	47.21	94.4	70 - 135
1,1-Dichloroethene	50.00	51.17	102	65 - 135
cis-1,2-Dichloroethene	50.00	50.31	101	65 - 125
trans-1,2-Dichloroethene	50.00	49.69	99.4	65 - 135
1,2-Dichloropropane	50.00	45.75	91.5	70 - 120
cis-1,3-Dichloropropene	50.00	49.76	99.5	70 - 125
trans-1,3-Dichloropropene	50.00	51.12	102	65 - 125
Ethylbenzene	50.00	50.50	101	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H20003	Laboratory ID:	1H20003-BS2
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
2-Hexanone	**100.0**	**160.6**	**161**	**45 - 145**
Isopropylbenzene	50.00	51.55	103	75 - 130
Methylene chloride	50.00	48.37	96.7	55 - 140
Methyl Acetate	50.00	47.93	95.9	45 - 165
Methylcyclohexane	50.00	47.63	95.3	65 - 135
4-Methyl-2-pentanone	100.0	97.54	97.5	45 - 145
Methyl t-Butyl Ether	50.00	44.87	89.7	55 - 150
Styrene	50.00	53.10	106	75 - 125
1,1,2,2-Tetrachloroethane	50.00	48.16	96.3	55 - 130
Tetrachloroethene	50.00	48.81	97.6	65 - 140
Toluene	50.00	50.91	102	70 - 125
1,2,3-Trichlorobenzene	50.00	48.87	97.7	60 - 130
1,2,4-Trichlorobenzene	50.00	48.22	96.4	65 - 130
1,1,2-Trichloroethane	50.00	48.76	97.5	60 - 125
1,1,1-Trichloroethane	50.00	48.41	96.8	70 - 135
Trichloroethene	50.00	47.46	94.9	75 - 125
Trichlorofluoromethane	50.00	43.72	87.4	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	43.78	87.6	20 - 185
Vinyl chloride	50.00	46.77	93.5	60 - 125
m,p-Xylene	100.0	102.1	102	80 - 125
o-Xylene	50.00	50.40	101	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H20003

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acetone	111.7	19.65	117.0	87.1		20 - 160
Benzene	55.85	ND	51.51	92.2		75 - 125
Bromochloromethane	55.85	ND	45.83	82.1		70 - 125
Bromodichloromethane	55.85	ND	44.52	79.7		70 - 130
Bromoform	55.85	ND	45.54	81.5		55 - 135
Bromomethane	55.85	ND	51.65	92.5		30 - 160
2-Butanone	111.7	ND	83.22	74.5		30 - 160
Carbon disulfide	55.85	ND	47.58	85.2		45 - 160
Carbon tetrachloride	55.85	ND	57.62	103		65 - 135
Chlorobenzene	55.85	ND	41.43	74.2	*	75 - 125
Chloroethane	55.85	ND	52.52	94.0		40 - 155
Chloroform	55.85	ND	46.76	83.7		70 - 125
Chloromethane	55.85	ND	51.60	92.4		50 - 130
Cyclohexane	55.85	ND	50.51	90.4		65 - 140
Dibromochloromethane	55.85	ND	44.86	80.3		65 - 130
1,2-Dibromo-3-chloropropane	55.85	ND	37.30	66.8		40 - 135
1,2-Dibromoethane (EDB)	55.85	ND	41.58	74.5		70 - 125
1,2-Dichlorobenzene	55.85	ND	26.63	47.7	*	75 - 120
1,3-Dichlorobenzene	55.85	ND	27.53	49.3	*	70 - 125
1,4-Dichlorobenzene	55.85	ND	25.25	45.2	*	70 - 125
Dichlorodifluoromethane	55.85	ND	45.93	82.2		35 - 135
1,1-Dichloroethane	55.85	ND	49.24	88.2		75 - 125
1,2-Dichloroethane	55.85	ND	43.02	77.0		70 - 135
1,1-Dichloroethene	55.85	ND	54.37	97.4		65 - 135
cis-1,2-Dichloroethene	55.85	ND	50.79	90.9		65 - 125
trans-1,2-Dichloroethene	55.85	ND	50.61	90.6		65 - 135
1,2-Dichloropropane	55.85	ND	44.83	80.3		70 - 120
cis-1,3-Dichloropropene	55.85	ND	38.74	69.4	*	70 - 125
trans-1,3-Dichloropropene	55.85	ND	36.87	66.0		65 - 125
Ethylbenzene	55.85	ND	46.16	82.7		75 - 125
2-Hexanone	111.7	ND	69.10	61.9		45 - 145
Isopropylbenzene	55.85	ND	45.29	81.1		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H20003

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Methylene chloride	55.85	5.055	51.55	83.3		55 - 140
Methyl Acetate	55.85	ND	11.2 U	0	*	45 - 165
Methylcyclohexane	55.85	ND	51.20	91.7		65 - 135
4-Methyl-2-pentanone	111.7	ND	82.63	74.0		45 - 145
Methyl t-Butyl Ether	55.85	ND	39.63	71.0		55 - 150
Styrene	55.85	ND	30.93	55.4	*	75 - 125
1,1,2,2-Tetrachloroethane	55.85	ND	38.24	68.5		55 - 130
Tetrachloroethene	55.85	ND	46.11	82.6		65 - 140
Toluene	55.85	ND	48.55	86.9		70 - 125
1,2,3-Trichlorobenzene	55.85	ND	15.86	28.4	*	60 - 130
1,2,4-Trichlorobenzene	55.85	ND	15.20	27.2	*	65 - 130
1,1,2-Trichloroethane	55.85	ND	40.07	71.7		60 - 125
1,1,1-Trichloroethane	55.85	ND	55.36	99.1		70 - 135
Trichloroethene	55.85	ND	48.20	86.3		75 - 125
Trichlorofluoromethane	55.85	ND	52.35	93.7		25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	55.85	ND	51.45	92.1		20 - 185
Vinyl chloride	55.85	ND	52.63	94.2		60 - 125
m,p-Xylene	111.7	ND	86.84	77.7	*	80 - 125
o-Xylene	55.85	ND	42.33	75.8		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

55SS09-0X02

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H20003		
% Solids:	69.40		
Source Sample Name:	**1108171-35**		

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H20003

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	111.0	95.34	68.2	20.4		30	20 - 160
Benzene	55.50	46.92	84.5	9.34		30	75 - 125
Bromochloromethane	55.50	47.60	85.8	3.79		30	70 - 125
Bromodichloromethane	55.50	43.57	78.5	2.16		30	70 - 130
Bromoform	55.50	44.54	80.2	2.21		30	55 - 135
Bromomethane	55.50	47.83	86.2	7.68		30	30 - 160
2-Butanone	111.0	98.12	88.4	16.4		30	30 - 160
Carbon disulfide	55.50	40.35	72.7	16.5		30	45 - 160
Carbon tetrachloride	55.50	42.85	77.2	29.4		30	65 - 135
Chlorobenzene	55.50	44.79	80.7	7.78		30	75 - 125
Chloroethane	55.50	46.48	83.7	12.2		30	40 - 155
Chloroform	55.50	42.15	75.9	10.4		30	70 - 125
Chloromethane	55.50	43.80	78.9	16.3		30	50 - 130
Cyclohexane	55.50	39.70	71.5	24.0		30	65 - 140
Dibromochloromethane	55.50	42.06	75.8	6.45		30	65 - 130
1,2-Dibromo-3-chloropropane	55.50	42.67	76.9	13.4		30	40 - 135
1,2-Dibromoethane (EDB)	55.50	44.45	80.1	6.68		30	70 - 125
1,2-Dichlorobenzene	55.50	40.20	72.4	40.6	* *	30	75 - 120
1,3-Dichlorobenzene	55.50	39.60	71.4	36.0	*	30	70 - 125
1,4-Dichlorobenzene	55.50	38.89	70.1	42.5	*	30	70 - 125
Dichlorodifluoromethane	55.50	36.09	65.0	24.0		30	35 - 135
1,1-Dichloroethane	55.50	45.21	81.4	8.53		30	75 - 125
1,2-Dichloroethane	55.50	44.36	79.9	3.06		30	70 - 135
1,1-Dichloroethene	55.50	48.29	87.0	11.8		30	65 - 135
cis-1,2-Dichloroethene	55.50	48.53	87.4	4.56		30	65 - 125
trans-1,2-Dichloroethene	55.50	45.70	82.3	10.2		30	65 - 135
1,2-Dichloropropane	55.50	44.42	80.0	0.908		30	70 - 120
cis-1,3-Dichloropropene	55.50	45.06	81.2	15.1		30	70 - 125
trans-1,3-Dichloropropene	55.50	44.08	79.4	17.8		30	65 - 125
Ethylbenzene	55.50	44.78	80.7	3.02		30	75 - 125
2-Hexanone	111.0	96.25	86.7	32.8	*	30	45 - 145
Isopropylbenzene	55.50	44.80	80.7	1.10		30	75 - 130
Methylene chloride	55.50	67.05	112	26.1		30	55 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H20003

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Methyl Acetate	55.50	41.72	75.2			30	45 - 165
Methylcyclohexane	55.50	41.87	75.4	20.0		30	65 - 135
4-Methyl-2-pentanone	111.0	97.92	88.2	16.9		30	45 - 145
Methyl t-Butyl Ether	55.50	43.99	79.3	10.4		30	55 - 150
Styrene	55.50	46.02	82.9	39.2	*	30	75 - 125
1,1,2,2-Tetrachloroethane	55.50	42.66	76.9	10.9		30	55 - 130
Tetrachloroethene	55.50	43.78	78.9	5.17		30	65 - 140
Toluene	55.50	46.05	83.0	5.29		30	70 - 125
1,2,3-Trichlorobenzene	55.50	39.06	70.4	84.5	*	30	60 - 130
1,2,4-Trichlorobenzene	55.50	38.58	69.5	87.0	*	30	65 - 130
1,1,2-Trichloroethane	55.50	44.28	79.8	9.99		30	60 - 125
1,1,1-Trichloroethane	55.50	44.14	79.5	22.6		30	70 - 135
Trichloroethene	55.50	43.44	78.3	10.4		30	75 - 125
Trichlorofluoromethane	55.50	41.01	73.9	24.3		30	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	55.50	40.73	73.4	23.3		30	20 - 185
Vinyl chloride	55.50	43.45	78.3	19.1		30	60 - 125
m,p-Xylene	111.0	92.97	83.8	6.83		30	80 - 125
o-Xylene	55.50	43.69	78.7	3.15		30	75 - 125

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1H23101

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-VOA4
Calibration: 1229002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23101-CCV1)			Lab File ID: 0818CCV1.D			Analyzed: 08/18/11 08:01			
Fluorobenzene	1231572	8.013	1127909	8.013	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	390996	11.132	395381	11.131	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	430916	13.532	464660	13.522	93	50 - 200	0.0100	+/-0.50	
LCS (1H18004-BS1)			Lab File ID: 0818LS1.D			Analyzed: 08/18/11 08:36			
Fluorobenzene	1185924	8.017	1231572	8.013	96	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	394806	11.136	390996	11.132	101	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	419362	13.526	430916	13.532	97	50 - 200	-0.0060	+/-0.50	
Blank (1H18004-BLK1)			Lab File ID: 0818BLK1.D			Analyzed: 08/18/11 10:33			
Fluorobenzene	1105301	8.012	1231572	8.013	90	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	358382	11.131	390996	11.132	92	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	398996	13.531	430916	13.532	93	50 - 200	-0.0010	+/-0.50	
TRIP BLANK #0150 (1108171-37)			Lab File ID: 0817137.D			Analyzed: 08/18/11 13:22			
Fluorobenzene	1165498	8.019	1231572	8.013	95	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	380373	11.137	390996	11.132	97	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	412538	13.528	430916	13.532	96	50 - 200	-0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1H23501

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-VOA3
Calibration: 1194001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23501-CCV1)			Lab File ID: 0820CCV1.D			Analyzed: 08/20/11 10:39			
Fluorobenzene	430110	7.785	535318	7.785	80	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	259681	10.936	308726	10.936	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	285058	13.351	279476	13.351	102	50 - 200	0.0000	+/-0.50	
LCS (1H20003-BS1)			Lab File ID: 0820LS1.D			Analyzed: 08/20/11 11:16			
Fluorobenzene	441849	7.785	430110	7.785	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	275001	10.936	259681	10.936	106	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	291758	13.345	285058	13.351	102	50 - 200	-0.0060	+/-0.50	
Blank (1H20003-BLK1)			Lab File ID: 0820BLK1.D			Analyzed: 08/20/11 12:38			
Fluorobenzene	385045	7.785	430110	7.785	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	234549	10.936	259681	10.936	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	212827	13.351	285058	13.351	75	50 - 200	0.0000	+/-0.50	
55SS04-0X02D (1108171-24)			Lab File ID: 0817124.D			Analyzed: 08/20/11 13:33			
Fluorobenzene	384164	7.785	430110	7.785	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	239723	10.936	259681	10.936	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	216738	13.351	285058	13.351	76	50 - 200	0.0000	+/-0.50	
55SB04-0204 (1108171-25)			Lab File ID: 0817125.D			Analyzed: 08/20/11 14:00			
Fluorobenzene	383156	7.785	430110	7.785	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	242212	10.936	259681	10.936	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	231082	13.351	285058	13.351	81	50 - 200	0.0000	+/-0.50	
55SB04-0204D (1108171-26)			Lab File ID: 0817126.D			Analyzed: 08/20/11 14:27			
Fluorobenzene	369038	7.785	430110	7.785	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	235589	10.936	259681	10.936	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	221919	13.351	285058	13.351	78	50 - 200	0.0000	+/-0.50	
55SS07-0X02 (1108171-28)			Lab File ID: 0817128.D			Analyzed: 08/20/11 14:55			
Fluorobenzene	360178	7.785	430110	7.785	84	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	229035	10.936	259681	10.936	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	223991	13.351	285058	13.351	79	50 - 200	0.0000	+/-0.50	
55SB07-0204 (1108171-29)			Lab File ID: 0817129.D			Analyzed: 08/20/11 15:22			
Fluorobenzene	350606	7.785	430110	7.785	82	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	232170	10.936	259681	10.936	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	224206	13.351	285058	13.351	79	50 - 200	0.0000	+/-0.50	
55SS03-0X02 (1108171-32)			Lab File ID: 0817132.D			Analyzed: 08/20/11 15:49			
Fluorobenzene	353004	7.785	430110	7.785	82	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	226923	10.936	259681	10.936	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	214469	13.351	285058	13.351	75	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1H23501

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-VOA3
Calibration: 1194001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
55SB03-0204 (1108171-33)			Lab File ID: 0817133.D			Analyzed: 08/20/11 16:17			
Fluorobenzene	361682	7.785	430110	7.785	84	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	237146	10.936	259681	10.936	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	220643	13.351	285058	13.351	77	50 - 200	0.0000	+/-0.50	
55SS09-0X02 (1108171-35)			Lab File ID: 0817135.D			Analyzed: 08/20/11 16:44			
Fluorobenzene	356737	7.785	430110	7.785	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	227442	10.936	259681	10.936	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	216117	13.345	285058	13.351	76	50 - 200	-0.0060	+/-0.50	
55SB09-0204 (1108171-36)			Lab File ID: 0817136.D			Analyzed: 08/20/11 17:11			
Fluorobenzene	358954	7.785	430110	7.785	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	223346	10.936	259681	10.936	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	217534	13.351	285058	13.351	76	50 - 200	0.0000	+/-0.50	
55SS04-0X02 (1108171-38)			Lab File ID: 0817138.D			Analyzed: 08/20/11 17:38			
Fluorobenzene	356806	7.785	430110	7.785	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	218245	10.936	259681	10.936	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	197233	13.351	285058	13.351	69	50 - 200	0.0000	+/-0.50	
Calibration Check (1H23501-CCV2)			Lab File ID: 0820CCV2x.D			Analyzed: 08/22/11 07:39			
Fluorobenzene	449126	7.785	430110	7.785	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	279976	10.936	259681	10.936	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	283030	13.351	285058	13.351	99	50 - 200	0.0000	+/-0.50	
LCS (1H20003-BS2)			Lab File ID: 0820LS2x.D			Analyzed: 08/22/11 08:21			
Fluorobenzene	444439	7.779	430110	7.785	103	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	250295	10.936	259681	10.936	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	271337	13.345	285058	13.351	95	50 - 200	-0.0060	+/-0.50	
Matrix Spike (1H20003-MS1)			Lab File ID: 0817135Mx.D			Analyzed: 08/22/11 08:58			
Fluorobenzene	453726	7.785	430110	7.785	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	266164	10.936	259681	10.936	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	278864	13.351	285058	13.351	98	50 - 200	0.0000	+/-0.50	
Blank (1H20003-BLK3)			Lab File ID: 0820BLK3x.D			Analyzed: 08/22/11 10:47			
Fluorobenzene	430369	7.785	430110	7.785	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	256734	10.936	259681	10.936	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	237006	13.345	285058	13.351	83	50 - 200	-0.0060	+/-0.50	
Matrix Spike Dup (1H20003-MSD3)			Lab File ID: 0817135S2x.D			Analyzed: 08/22/11 15:48			
Fluorobenzene	481615	7.785	430110	7.785	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	285449	10.936	259681	10.936	110	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	300677	13.351	285058	13.351	105	50 - 200	0.0000	+/-0.50	

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288294	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.80832	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.8623	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654444	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890507	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20774	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157608	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400746	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008023	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492852	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.03815	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185735	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697993	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755144	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.466992	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.64104	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326675	7.594375	0.1603634			15	
Dimethyl phthalate	1.244441	5.685728	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453456	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449686	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.730629	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748586	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.01217	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.1868569	4.354219	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.374975	6.237495	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780526	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161853	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83852	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1122001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	
4-Nitroaniline	0.3272887	5.141513	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120647	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241451	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033432	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409362	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277107	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444736	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940565	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435474	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869366	9.329125	9.747652E-02			15	

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24307	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H24307-TUN1	SEQ-TUN1.D	08/30/11 18:23
Calibration Check	1H24307-CCV1	SEQ-CCV1.D	08/30/11 18:52
Calibration Check	1H24307-CCV2	SEQ-CCV2.D	08/30/11 19:32
Blank	1H18012-BLK1	H18012B1.D	08/30/11 21:31
LCS	1H18012-BS1	H18012L1.D	08/30/11 23:29

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/30/11
Instrument ID:	MS-BNA3	Injection Time:	18:23
Sequence:	1H24307	Lab Sample ID:	1H24307-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	57.8	PASS
70	Less than 2% of 69	0.75	PASS
127	40 - 60% of 198	56.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.72	PASS
275	10 - 30% of 198	23.3	PASS
365	1 - 200% of 198	1.96	PASS
441	0.001 - 100% of 443	91.7	PASS
442	40 - 200% of 198	51.2	PASS
443	17 - 23% of 442	17.9	PASS

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.50	1.110356	1.165891		5.0	20
Acenaphthylene	A	50.00	53.64	1.725208	1.850638		7.3	20
Acetophenone	A	50.00	51.20	1.801986	1.845082		2.4	20
Anthracene	A	50.00	52.11	1.092671	1.138844		4.2	20
Atrazine	A	50.00	40.50	0.2344682	0.1899406		-19.0	20
Benzo(a)anthracene	A	50.00	55.98	1.119297	1.253098		12.0	20
Benzo(a)pyrene	A	50.00	56.17	1.045862	1.174873		12.3	20
Benzo(b)fluoranthene	A	50.00	63.88	1.093698	1.397383		27.8	20 *
Benzo(g,h,i)perylene	A	50.00	52.44	1.033139	1.083598		4.9	20
Benzo(k)fluoranthene	A	50.00	54.09	1.107729	1.198395		8.2	20
1,1-Biphenyl	A	50.00	50.54	1.444453	1.460029		1.1	20
4-Bromophenyl-phenylether	A	50.00	46.07	0.2284778	0.2105155		-7.9	20
Butylbenzylphthalate	A	50.00	64.48	0.5129818	0.6615195		29.0	20 *
Caprolactam	A	50.00	47.01	0.1128421	0.1061049		-6.0	20
Carbazole	A	50.00	50.67	1.044381	1.058369		1.3	20
4-Chloro-3-methylphenol	A	50.00	49.85	0.3113523	0.3104133		-0.3	20
4-Chloroaniline	A	50.00	53.38	0.4225325	0.4510699		6.8	20
Bis(2-chloroethoxy)methane	A	50.00	49.38	0.4269873	0.4217304		-1.2	20
Bis(2-chloroethyl)ether	A	50.00	54.28	1.297842	1.40898		8.6	20
2,2'-Oxybis-1-chloropropane	A	50.00	50.48	1.947114	1.965793		1.0	20
2-Chloronaphthalene	A	50.00	57.16	1.087766	1.243514		14.3	20
2-Chlorophenol	A	50.00	50.87	1.315004	1.337792		1.7	20
4-Chlorophenyl phenyl ether	A	50.00	48.67	0.6233489	0.6068216		-2.7	20
Chrysene	A	50.00	53.80	1.047865	1.127476		7.6	20
Dibenz(a,h)anthracene	A	50.00	53.25	1.004478	1.069753		6.5	20
Dibenzofuran	A	50.00	50.85	1.535116	1.561353		1.7	20
Di-n-butylphthalate	A	50.00	54.57	1.182012	1.289982		9.1	20
3,3'-Dichlorobenzidine	A	50.00	60.98	0.4067228	0.4960378		22.0	20 *
2,4-Dichlorophenol	A	50.00	49.80	0.3046728	0.303471		-0.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	50.00	53.72	1.194731	1.283729		7.4	20
2,4-Dimethylphenol	A	50.00	50.52	0.3636609	0.3674433		1.0	20
Dimethyl phthalate	A	50.00	52.28	1.244441	1.301307		4.6	20
4,6-Dinitro-2-methylphenol	A	50.00	46.35	0.1454148	0.1348118		-7.3	20
2,4-Dinitrophenol	A	50.00	40.06	0.1854397	0.1485793	0.05	-19.9	20
2,4-Dinitrotoluene	A	50.00	52.80	0.3929838	0.415028		5.6	20
2,6-Dinitrotoluene	A	50.00	52.90	0.2991862	0.3165179		5.8	20
Di-n-octylphthalate	A	50.00	66.66	1.204345	1.605628		33.3	20 *
1,4-Dioxane	A	50.00	47.14	0.5405832	0.5096495		-5.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	66.43	0.6793074	0.9025626		32.9	20 *
Fluoranthene	A	50.00	48.24	1.233837	1.190352		-3.5	20
Fluorene	A	50.00	50.38	1.337519	1.34763		0.8	20
Hexachlorobenzene	A	50.00	47.18	0.244362	0.2305942		-5.6	20
Hexachlorobutadiene	A	50.00	46.77	0.1868569	0.1748013		-6.5	20
Hexachlorocyclopentadiene	A	50.00	46.59	0.374975	0.3494062	0.05	-6.8	20
Hexachloroethane	A	50.00	50.71	0.5464632	0.5541974		1.4	20
Indeno(1,2,3-cd)pyrene	A	50.00	57.90	1.038008	1.201966		15.8	20
Isophorone	A	50.00	46.39	0.7442763	0.6904961		-7.2	20
1-Methylnaphthalene	A	50.00	49.45	0.5872691	0.5807819		-1.1	20
2-Methylnaphthalene	A	50.00	49.90	0.5974192	0.5962025		-0.2	20
2-Methylphenol	A	50.00	49.30	1.208635	1.191794		-1.4	20
4-Methylphenol	A	50.00	49.53	1.268409	1.256604		-0.9	20
Naphthalene	A	50.00	51.98	0.9958993	1.035393		4.0	20
4-Nitroaniline	A	50.00	55.12	0.3272887	0.3608042		10.2	20
3-Nitroaniline	A	50.00	53.64	0.3230815	0.3466255		7.3	20
2-Nitroaniline	A	50.00	48.87	0.3700237	0.3616599		-2.3	20
Nitrobenzene	A	50.00	48.60	0.4107927	0.3993294		-2.8	20
4-Nitrophenol	A	50.00	46.99	0.2721678	0.2557579	0.05	-6.0	20
2-Nitrophenol	A	50.00	48.26	0.1941449	0.1873879		-3.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	52.07	0.6728889	0.7007457		4.1	20
N-Nitroso-di-n-propylamine	A	50.00	47.19	1.033966	0.9759048	0.05	-5.6	20
Pentachlorophenol	A	50.00	45.97	0.1623094	0.1492419		-8.1	20
Phenanthrene	A	50.00	52.14	1.075866	1.12182		4.3	20
Phenol	A	50.00	50.39	1.687698	1.700858		0.8	20
Pyrene	A	50.00	56.54	1.163766	1.316022		13.1	20
1,2,4,5-Tetrachlorobenzene	A	50.00	42.94	0.3352828	0.2879566		-14.1	20
2,3,4,6-Tetrachlorophenol	A	50.00	46.34	0.3340715	0.3096398		-7.3	20
2,4,6-Trichlorophenol	A	50.00	49.32	0.382004	0.376835		-1.4	20
2,4,5-Trichlorophenol	A	50.00	49.34	0.4142645	0.4088317		-1.3	20
2-Fluorobiphenyl	A	50.00	53.90	1.265417	1.364123		7.8	20
2-Fluorophenol	A	100.0	103.2	1.142171	1.179113		3.2	20
Nitrobenzene-d5	A	50.00	47.39	0.4075494	0.3862799		-5.2	20
Phenol-d6	A	100.0	95.89	1.572986	1.508345		-4.1	20
Terphenyl-d14	A	50.00	55.99	0.7462196	0.8355991		12.0	20
2,4,6-Tribromophenol	A	100.0	87.99	0.109869	9.667288E-02		-12.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H18012 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SS04-000X	1108171-22	08/24/11 09:00	15.00	1.00
55SS04-000XD	1108171-23	08/24/11 09:00	15.50	1.00
55SS04-0X02D	1108171-24	08/24/11 09:00	15.40	1.00
55SB04-0204	1108171-25	08/24/11 09:00	15.20	1.00
55SB04-0204D	1108171-26	08/24/11 09:00	15.40	1.00
55SS07-000X	1108171-27	08/24/11 09:00	15.20	1.00
55SS07-0X02	1108171-28	08/24/11 09:00	15.80	1.00
55SB07-0204	1108171-29	08/24/11 09:00	15.10	1.00
55SS03-000X	1108171-30	08/24/11 09:00	15.30	1.00
55SS03-000XD	1108171-31	08/24/11 09:00	15.40	1.00
55SS03-0X02	1108171-32	08/24/11 09:00	15.40	1.00
55SB03-0204	1108171-33	08/24/11 09:00	15.70	1.00
55SS09-000X	1108171-34	08/24/11 09:00	15.50	1.00
55SS09-0X02	1108171-35	08/24/11 09:00	15.20	1.00
55SB09-0204	1108171-36	08/24/11 09:00	15.40	1.00
55SS04-0X02	1108171-38	08/24/11 09:00	15.20	1.00
Blank	1H18012-BLK1	08/24/11 09:00	15.00	1.00
LCS	1H18012-BS1	08/24/11 09:00	15.00	1.00
55SS09-0X02	1H18012-MS1	08/24/11 09:00	15.00	1.00
55SS09-0X02	1H18012-MSD1	08/24/11 09:00	15.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Matrix: Laboratory ID: 1H18012-BLK1 File ID: H18012B1.D

Sampled: Prepared: Analyzed: 08/30/11 21:31

Solids: Preparation: EXT_3546 Dilution:

Batch: 1H18012 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		83.3	167	330	U
208-96-8	Acenaphthylene		83.3	167	330	U
98-86-2	Acetophenone		83.3	167	330	U
120-12-7	Anthracene		83.3	167	330	U
1912-24-9	Atrazine		83.3	167	330	U
100-52-7	Benzaldehyde		83.3	167	330	U
56-55-3	Benzo(a)anthracene		83.3	167	330	U
50-32-8	Benzo(a)pyrene		83.3	167	330	U
205-99-2	Benzo(b)fluoranthene		83.3	167	330	X, U
191-24-2	Benzo(g,h,i)perylene		83.3	167	330	U
207-08-9	Benzo(k)fluoranthene		83.3	167	330	U
92-52-4	1,1-Biphenyl		83.3	167	330	U
101-55-3	4-Bromophenyl-phenylether		83.3	167	330	U
85-68-7	Butylbenzylphthalate		83.3	167	330	X, U
105-60-2	Caprolactam		83.3	167	330	U
86-74-8	Carbazole		83.3	167	330	U
59-50-7	4-Chloro-3-methylphenol		83.3	167	330	U
106-47-8	4-Chloroaniline		83.3	167	330	U
111-91-1	Bis(2-chloroethoxy)methane		83.3	167	330	U
111-44-4	Bis(2-chloroethyl)ether		83.3	167	330	U
108-60-1	2,2'-Oxybis-1-chloropropane		83.3	167	330	U
91-58-7	2-Chloronaphthalene		83.3	167	330	U
95-57-8	2-Chlorophenol		83.3	167	330	U
7005-72-3	4-Chlorophenyl phenyl ether		83.3	167	330	U
218-01-9	Chrysene		83.3	167	330	U
53-70-3	Dibenz(a,h)anthracene		83.3	167	330	U
132-64-9	Dibenzofuran		83.3	167	330	U
84-74-2	Di-n-butylphthalate		83.3	167	330	U
91-94-1	3,3'-Dichlorobenzidine		83.3	167	330	X, U
120-83-2	2,4-Dichlorophenol		83.3	167	330	U
84-66-2	Diethylphthalate		83.3	167	330	U
105-67-9	2,4-Dimethylphenol		333	667	1300	U
131-11-3	Dimethyl phthalate		83.3	167	330	U
534-52-1	4,6-Dinitro-2-methylphenol		833	1670	3300	U
51-28-5	2,4-Dinitrophenol		833	1670	3300	X, U
121-14-2	2,4-Dinitrotoluene		83.3	167	330	U
606-20-2	2,6-Dinitrotoluene		83.3	167	330	U
117-84-0	Di-n-octylphthalate		83.3	167	330	X, U
123-91-1	1,4-Dioxane		83.3	167	330	U
117-81-7	Bis(2-ethylhexyl)phthalate		83.3	167	330	X, U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:		Laboratory ID:	1H18012-BLK1	File ID:	H18012B1.D
Sampled:		Prepared:		Analyzed:	08/30/11 21:31
Solids:		Preparation:	EXT_3546	Dilution:	

Batch: 1H18012 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		83.3	167	330	U
86-73-7	Fluorene		83.3	167	330	U
118-74-1	Hexachlorobenzene		83.3	167	330	U
87-68-3	Hexachlorobutadiene		83.3	167	330	U
77-47-4	Hexachlorocyclopentadiene		83.3	167	330	U
67-72-1	Hexachloroethane		83.3	167	330	U
193-39-5	Indeno(1,2,3-cd)pyrene		83.3	167	330	U
78-59-1	Isophorone		83.3	167	330	U
90-12-0	1-Methylnaphthalene		83.3	167	330	U
91-57-6	2-Methylnaphthalene		83.3	167	330	U
95-48-7	2-Methylphenol		83.3	167	330	U
106-44-5	4-Methylphenol		83.3	167	330	U
91-20-3	Naphthalene		83.3	167	330	U
100-01-6	4-Nitroaniline		333	667	1300	U
99-09-2	3-Nitroaniline		333	667	1300	U
88-74-4	2-Nitroaniline		333	667	1300	U
98-95-3	Nitrobenzene		83.3	167	330	U
100-02-7	4-Nitrophenol		333	667	1300	U
88-75-5	2-Nitrophenol		83.3	167	330	U
86-30-6	N-Nitrosodiphenylamine		83.3	167	330	U
621-64-7	N-Nitroso-di-n-propylamine		83.3	167	330	U
87-86-5	Pentachlorophenol		333	667	1300	U
85-01-8	Phenanthrene		83.3	167	330	U
108-95-2	Phenol		83.3	167	330	U
129-00-0	Pyrene		83.3	167	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene		83.3	167	330	U
58-90-2	2,3,4,6-Tetrachlorophenol		83.3	167	330	U
88-06-2	2,4,6-Trichlorophenol		83.3	167	330	U
95-95-4	2,4,5-Trichlorophenol		83.3	167	330	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3267	3111	95.2	45 - 105	
2-Fluorophenol	6667	6182	92.7	35 - 105	
Nitrobenzene-d5	3267	2520	77.1	35 - 100	
Phenol-d6	6667	5837	87.5	40 - 100	
Terphenyl-d14	3267	3524	108	30 - 125	
2,4,6-Tribromophenol	6667	5334	80.0	35 - 125	

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24413	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I24413-TUN1	SEQ-TUN1.D	08/31/11 21:17
Calibration Check	1I24413-CCV1	SEQ-CCV1.D	08/31/11 21:45
Calibration Check	1I24413-CCV2	SEQ-CCV2.D	08/31/11 22:26
55SB04-0204D	1108171-26	0817126.D	09/01/11 03:18
55SS07-0X02	1108171-28	0817128.D	09/01/11 04:00
55SB07-0204	1108171-29	0817129.D	09/01/11 04:40
55SS09-0X02	1108171-35	0817135.D	09/01/11 05:19
55SS09-0X02	1H18012-MS1	0817135M.D	09/01/11 05:59
55SS09-0X02	1H18012-MSD1	0817135S.D	09/01/11 06:38
55SS03-0X02	1108171-32	0817132.D	09/01/11 07:19
55SB03-0204	1108171-33	0817133.D	09/01/11 07:59

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/31/11
Instrument ID:	MS-BNA3	Injection Time:	21:17
Sequence:	1I24413	Lab Sample ID:	1I24413-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	54.1	PASS
70	Less than 2% of 69	0.385	PASS
127	40 - 60% of 198	56.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.08	PASS
275	10 - 30% of 198	20.6	PASS
365	1 - 200% of 198	1.49	PASS
441	0.001 - 100% of 443	83.8	PASS
442	40 - 200% of 198	50.7	PASS
443	17 - 23% of 442	20.9	PASS

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1I24413	Injection Date:	08/31/11
Lab Sample ID:	1I24413-CCV1	Injection Time:	21:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.60	1.110356	1.168053		5.2	20
Acenaphthylene	A	50.00	54.20	1.725208	1.870122		8.4	20
Acetophenone	A	50.00	51.53	1.801986	1.85726		3.1	20
Anthracene	A	50.00	52.15	1.092671	1.139658		4.3	20
Benzo(a)anthracene	A	50.00	55.30	1.119297	1.237995		10.6	20
Benzo(a)pyrene	A	50.00	55.56	1.045862	1.162089		11.1	20
Benzo(b)fluoranthene	A	50.00	60.78	1.093698	1.329403		21.6	20 *
Benzo(g,h,i)perylene	A	50.00	51.72	1.033139	1.068678		3.4	20
Benzo(k)fluoranthene	A	50.00	55.01	1.107729	1.21871		10.0	20
1,1-Biphenyl	A	50.00	51.16	1.444453	1.477947		2.3	20
4-Bromophenyl-phenylether	A	50.00	46.47	0.2284778	0.2123498		-7.1	20
Butylbenzylphthalate	A	50.00	63.60	0.5129818	0.6524613		27.2	20 *
Caprolactam	A	50.00	46.98	0.1128421	0.1060173		-6.0	20
Carbazole	A	50.00	51.16	1.044381	1.068701		2.3	20
4-Chloro-3-methylphenol	A	50.00	48.47	0.3113523	0.3018103		-3.1	20
4-Chloroaniline	A	50.00	52.29	0.4225325	0.4419099		4.6	20
Bis(2-chloroethoxy)methane	A	50.00	48.77	0.4269873	0.4164511		-2.5	20
Bis(2-chloroethyl)ether	A	50.00	53.02	1.297842	1.376322		6.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	49.54	1.947114	1.92925		-0.9	20
2-Chloronaphthalene	A	50.00	60.21	1.087766	1.309808		20.4	20 *
2-Chlorophenol	A	50.00	52.80	1.315004	1.388513		5.6	20
4-Chlorophenyl phenyl ether	A	50.00	50.41	0.6233489	0.6285211		0.8	20
Chrysene	A	50.00	52.71	1.047865	1.104678		5.4	20
Dibenz(a,h)anthracene	A	50.00	52.75	1.004478	1.059632		5.5	20
Dibenzofuran	A	50.00	53.20	1.535116	1.633241		6.4	20
Di-n-butylphthalate	A	50.00	54.76	1.182012	1.294582		9.5	20
3,3'-Dichlorobenzidine	A	50.00	63.65	0.4067228	0.5177574		27.3	20 *
2,4-Dichlorophenol	A	50.00	48.44	0.3046728	0.2951742		-3.1	20
Diethylphthalate	A	50.00	55.14	1.194731	1.317642		10.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1I24413	Injection Date:	08/31/11
Lab Sample ID:	1I24413-CCV1	Injection Time:	21:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dimethylphenol	A	50.00	49.17	0.3636609	0.3576515		-1.7	20
Dimethyl phthalate	A	50.00	52.51	1.244441	1.306918		5.0	20
4,6-Dinitro-2-methylphenol	A	50.00	51.08	0.1454148	0.148553		2.2	20
2,4-Dinitrophenol	A	50.00	46.87	0.1854397	0.1738347	0.05	-6.3	20
2,4-Dinitrotoluene	A	50.00	53.81	0.3929838	0.4229186		7.6	20
2,6-Dinitrotoluene	A	50.00	52.81	0.2991862	0.3160031		5.6	20
Di-n-octylphthalate	A	50.00	63.52	1.204345	1.529942		27.0	20 *
1,4-Dioxane	A	50.00	46.07	0.5405832	0.49808		-7.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.36	0.6793074	0.8743997		28.7	20 *
Fluoranthene	A	50.00	48.40	1.233837	1.194302		-3.2	20
Fluorene	A	50.00	52.13	1.337519	1.39438		4.3	20
Hexachlorobenzene	A	50.00	47.81	0.244362	0.2336626		-4.4	20
Hexachlorobutadiene	A	50.00	46.42	0.1868569	0.1734951		-7.2	20
Hexachlorocyclopentadiene	A	50.00	47.03	0.374975	0.3527039	0.05	-5.9	20
Hexachloroethane	A	50.00	51.77	0.5464632	0.5658571		3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.17	1.038008	1.145287		10.3	20
Isophorone	A	50.00	44.91	0.7442763	0.6684531		-10.2	20
1-Methylnaphthalene	A	50.00	48.13	0.5872691	0.5652596		-3.7	20
2-Methylnaphthalene	A	50.00	48.75	0.5974192	0.5825236		-2.5	20
2-Methylphenol	A	50.00	50.16	1.208635	1.212516		0.3	20
4-Methylphenol	A	50.00	49.82	1.268409	1.263942		-0.4	20
Naphthalene	A	50.00	51.45	0.9958993	1.02484		2.9	20
4-Nitroaniline	A	50.00	56.18	0.3272887	0.3677245		12.4	20
3-Nitroaniline	A	50.00	54.80	0.3230815	0.3541183		9.6	20
2-Nitroaniline	A	50.00	50.89	0.3700237	0.3765953		1.8	20
Nitrobenzene	A	50.00	47.94	0.4107927	0.3938963		-4.1	20
4-Nitrophenol	A	50.00	48.59	0.2721678	0.2645094	0.05	-2.8	20
2-Nitrophenol	A	50.00	50.66	0.1941449	0.1967051		1.3	20
N-Nitrosodiphenylamine	A	50.00	52.89	0.6728889	0.7117872		5.8	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1I24413	Injection Date:	08/31/11
Lab Sample ID:	1I24413-CCV1	Injection Time:	21:45

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitroso-di-n-propylamine	A	50.00	47.18	1.033966	0.9755683	0.05	-5.6	20
Pentachlorophenol	A	50.00	46.29	0.1623094	0.1502767		-7.4	20
Phenanthrene	A	50.00	52.56	1.075866	1.130903		5.1	20
Phenol	A	50.00	50.45	1.687698	1.702781		0.9	20
Pyrene	A	50.00	57.13	1.163766	1.32963		14.3	20
1,2,4,5-Tetrachlorobenzene	A	50.00	42.66	0.3352828	0.2860697		-14.7	20
2,3,4,6-Tetrachlorophenol	A	50.00	46.41	0.3340715	0.3100801		-7.2	20
2,4,6-Trichlorophenol	A	50.00	49.53	0.382004	0.3784199		-0.9	20
2,4,5-Trichlorophenol	A	50.00	48.52	0.4142645	0.4019812		-3.0	20
2-Fluorobiphenyl	A	50.00	54.51	1.265417	1.379588		9.0	20
2-Fluorophenol	A	100.0	102.3	1.142171	1.168615		2.3	20
Nitrobenzene-d5	A	50.00	46.36	0.4075494	0.3778663		-7.3	20
Phenol-d6	A	100.0	97.01	1.572986	1.525975		-3.0	20
Terphenyl-d14	A	50.00	56.71	0.7462196	0.8462914		13.4	20
2,4,6-Tribromophenol	A	100.0	89.83	0.109869	9.869382E-02		-10.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24512	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I24512-TUN1	SEQ-TUN2.D	09/01/11 09:21
Calibration Check	1I24512-CCV1	SEQ-CCV3.D	09/01/11 09:51
55SS07-000X	1108171-27	0817127.D	09/01/11 12:43
55SS03-000X	1108171-30	0817130.D	09/01/11 13:27
55SS03-000XD	1108171-31	0817131.D	09/01/11 14:14

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/01/11
Instrument ID:	MS-BNA3	Injection Time:	09:21
Sequence:	1I24512	Lab Sample ID:	1I24512-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.2	PASS
70	Less than 2% of 69	0.257	PASS
127	40 - 60% of 198	57.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.66	PASS
275	10 - 30% of 198	21.3	PASS
365	1 - 200% of 198	2.01	PASS
441	0.001 - 100% of 443	61.5	PASS
442	40 - 200% of 198	52	PASS
443	17 - 23% of 442	20.4	PASS

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 00:00
Sequence:	1I24512	Injection Date:	09/01/11
Lab Sample ID:	1I24512-CCV1	Injection Time:	09:51

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.14	1.110356	1.157943		4.3	20
Acenaphthylene	A	50.00	54.11	1.725208	1.867075		8.2	20
Acetophenone	A	50.00	51.33	1.801986	1.850083		2.7	20
Anthracene	A	50.00	50.85	1.092671	1.111257		1.7	20
Atrazine	A	50.00	36.38	0.2344682	0.170596		-27.2	20 *
Benzaldehyde	A	50.00	36.66	1.010105	0.7405996		-26.7	20 *
Benzo(a)anthracene	A	50.00	55.79	1.119297	1.248846		11.6	20
Benzo(a)pyrene	A	50.00	55.66	1.045862	1.16424		11.3	20
Benzo(b)fluoranthene	A	50.00	64.79	1.093698	1.417285		29.6	20 *
Benzo(g,h,i)perylene	A	50.00	52.22	1.033139	1.079099		4.4	20
Benzo(k)fluoranthene	A	50.00	51.24	1.107729	1.135297		2.5	20
1,1-Biphenyl	A	50.00	50.08	1.444453	1.446891		0.2	20
4-Bromophenyl-phenylether	A	50.00	46.06	0.2284778	0.2104536		-7.9	20
Butylbenzylphthalate	A	50.00	65.13	0.5129818	0.6682546		30.3	20 *
Caprolactam	A	50.00	46.67	0.1128421	0.1053313		-6.7	20
Carbazole	A	50.00	49.51	1.044381	1.034124		-1.0	20
4-Chloro-3-methylphenol	A	50.00	49.59	0.3113523	0.3088114		-0.8	20
4-Chloroaniline	A	50.00	51.30	0.4225325	0.4334818		2.6	20
Bis(2-chloroethoxy)methane	A	50.00	48.64	0.4269873	0.4153958		-2.7	20
Bis(2-chloroethyl)ether	A	50.00	52.40	1.297842	1.360242		4.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.24	1.947114	1.878748		-3.5	20
2-Chloronaphthalene	A	50.00	56.24	1.087766	1.223486		12.5	20
2-Chlorophenol	A	50.00	51.07	1.315004	1.343043		2.1	20
4-Chlorophenyl phenyl ether	A	50.00	50.47	0.6233489	0.6292572		0.9	20
Chrysene	A	50.00	52.74	1.047865	1.105386		5.5	20
Dibenz(a,h)anthracene	A	50.00	53.22	1.004478	1.069162		6.4	20
Dibenzofuran	A	50.00	52.70	1.535116	1.618164		5.4	20
Di-n-butylphthalate	A	50.00	54.20	1.182012	1.281316		8.4	20
3,3'-Dichlorobenzidine	A	50.00	64.59	0.4067228	0.5254384		29.2	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 00:00
Sequence:	1I24512	Injection Date:	09/01/11
Lab Sample ID:	1I24512-CCV1	Injection Time:	09:51

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.77	0.3046728	0.3032751		-0.5	20
Diethylphthalate	A	50.00	54.49	1.194731	1.302064		9.0	20
2,4-Dimethylphenol	A	50.00	50.86	0.3636609	0.3699151		1.7	20
Dimethyl phthalate	A	50.00	52.35	1.244441	1.302873		4.7	20
4,6-Dinitro-2-methylphenol	A	50.00	53.41	0.1454148	0.1553384		6.8	20
2,4-Dinitrophenol	A	50.00	50.21	0.1854397	0.1862075	0.05	0.4	20
2,4-Dinitrotoluene	A	50.00	54.97	0.3929838	0.4320659		9.9	20
2,6-Dinitrotoluene	A	50.00	52.87	0.2991862	0.3163609		5.7	20
Di-n-octylphthalate	A	50.00	67.62	1.204345	1.628842		35.2	20 *
1,4-Dioxane	A	50.00	44.55	0.5405832	0.4816614		-10.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	65.92	0.6793074	0.8955362		31.8	20 *
Fluoranthene	A	50.00	47.80	1.233837	1.179642		-4.4	20
Fluorene	A	50.00	51.32	1.337519	1.37291		2.6	20
Hexachlorobenzene	A	50.00	48.43	0.244362	0.2366798		-3.1	20
Hexachlorobutadiene	A	50.00	46.70	0.1868569	0.1745142		-6.6	20
Hexachlorocyclopentadiene	A	50.00	46.85	0.374975	0.3513269	0.05	-6.3	20
Hexachloroethane	A	50.00	50.90	0.5464632	0.5563393		1.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	56.38	1.038008	1.170483		12.8	20
Isophorone	A	50.00	45.60	0.7442763	0.6787289		-8.8	20
1-Methylnaphthalene	A	50.00	49.06	0.5872691	0.5761775		-1.9	20
2-Methylnaphthalene	A	50.00	49.56	0.5974192	0.5922128		-0.9	20
2-Methylphenol	A	50.00	49.64	1.208635	1.200055		-0.7	20
4-Methylphenol	A	50.00	50.32	1.268409	1.276467		0.6	20
Naphthalene	A	50.00	51.82	0.9958993	1.032096		3.6	20
4-Nitroaniline	A	50.00	54.42	0.3272887	0.3562371		8.8	20
3-Nitroaniline	A	50.00	53.64	0.3230815	0.3465868		7.3	20
2-Nitroaniline	A	50.00	48.57	0.3700237	0.3594395		-2.9	20
Nitrobenzene	A	50.00	47.92	0.4107927	0.3936641		-4.2	20
4-Nitrophenol	A	50.00	47.89	0.2721678	0.260676	0.05	-4.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 00:00
Sequence:	1I24512	Injection Date:	09/01/11
Lab Sample ID:	1I24512-CCV1	Injection Time:	09:51

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	51.99	0.1941449	0.2018879		4.0	20
N-Nitrosodiphenylamine	A	50.00	51.68	0.6728889	0.6954475		3.4	20
N-Nitroso-di-n-propylamine	A	50.00	46.81	1.033966	0.9680432	0.05	-6.4	20
Pentachlorophenol	A	50.00	48.34	0.1623094	0.156911		-3.3	20
Phenanthrene	A	50.00	51.25	1.075866	1.10285		2.5	20
Phenol	A	50.00	49.89	1.687698	1.684058		-0.2	20
Pyrene	A	50.00	56.65	1.163766	1.31866		13.3	20
1,2,4,5-Tetrachlorobenzene	A	50.00	42.97	0.3352828	0.2881522		-14.1	20
2,3,4,6-Tetrachlorophenol	A	50.00	46.50	0.3340715	0.3106683		-7.0	20
2,4,6-Trichlorophenol	A	50.00	49.70	0.382004	0.3796887		-0.6	20
2,4,5-Trichlorophenol	A	50.00	49.41	0.4142645	0.4093538		-1.2	20
2-Fluorobiphenyl	A	50.00	53.84	1.265417	1.362685		7.7	20
2-Fluorophenol	A	100.0	101.1	1.142171	1.154928		1.1	20
Nitrobenzene-d5	A	50.00	46.76	0.4075494	0.3811362		-6.5	20
Phenol-d6	A	100.0	94.74	1.572986	1.490217		-5.3	20
Terphenyl-d14	A	50.00	56.65	0.7462196	0.8454761		13.3	20
2,4,6-Tribromophenol	A	100.0	90.06	0.109869	9.894478E-02		-9.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24513	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I24513-TUN1	SEQ-TUN1.D	09/01/11 22:41
Calibration Check	1I24513-CCV1	SEQ-CCV1.D	09/01/11 23:11
Calibration Check	1I24513-CCV2	SEQ-CCV2.D	09/01/11 23:55
55SB09-0204	1108171-36	0817136.D	09/02/11 06:58
55SS09-000X	1108171-34	0817134.D	09/02/11 07:40
55SS04-000X	1108171-22	0817122D.D	09/02/11 09:05
55SS04-000XD	1108171-23	0817123D.D	09/02/11 09:48

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/01/11
Instrument ID:	MS-BNA3	Injection Time:	22:41
Sequence:	1I24513	Lab Sample ID:	1I24513-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.6	PASS
70	Less than 2% of 69	0.441	PASS
127	40 - 60% of 198	59	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.45	PASS
275	10 - 30% of 198	20.3	PASS
365	1 - 200% of 198	1.6	PASS
441	0.001 - 100% of 443	66.8	PASS
442	40 - 200% of 198	46.5	PASS
443	17 - 23% of 442	21	PASS

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV1	Injection Time:	23:11

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	51.52	1.110356	1.14403		3.0	20
Acenaphthylene	A	50.00	53.33	1.725208	1.839987		6.7	20
Acetophenone	A	50.00	51.50	1.801986	1.856111		3.0	20
Anthracene	A	50.00	50.85	1.092671	1.111241		1.7	20
Benzo(a)anthracene	A	50.00	55.03	1.119297	1.231819		10.1	20
Benzo(a)pyrene	A	50.00	55.64	1.045862	1.163732		11.3	20
Benzo(b)fluoranthene	A	50.00	60.69	1.093698	1.327485		21.4	20 *
Benzo(g,h,i)perylene	A	50.00	51.53	1.033139	1.064739		3.1	20
Benzo(k)fluoranthene	A	50.00	55.06	1.107729	1.219816		10.1	20
1,1-Biphenyl	A	50.00	49.45	1.444453	1.428529		-1.1	20
4-Bromophenyl-phenylether	A	50.00	46.15	0.2284778	0.210877		-7.7	20
Butylbenzylphthalate	A	50.00	64.53	0.5129818	0.6620819		29.1	20 *
Caprolactam	A	50.00	47.95	0.1128421	0.1082189		-4.1	20
Carbazole	A	50.00	50.21	1.044381	1.048858		0.4	20
4-Chloro-3-methylphenol	A	50.00	49.55	0.3113523	0.3085753		-0.9	20
4-Chloroaniline	A	50.00	52.33	0.4225325	0.4422506		4.7	20
Bis(2-chloroethoxy)methane	A	50.00	47.39	0.4269873	0.4046995		-5.2	20
Bis(2-chloroethyl)ether	A	50.00	50.89	1.297842	1.32091		1.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.18	1.947114	1.876359		-3.6	20
2-Chloronaphthalene	A	50.00	54.12	1.087766	1.177412		8.2	20
2-Chlorophenol	A	50.00	51.88	1.315004	1.364566		3.8	20
4-Chlorophenyl phenyl ether	A	50.00	50.67	0.6233489	0.6317104		1.3	20
Chrysene	A	50.00	51.99	1.047865	1.089544		4.0	20
Dibenz(a,h)anthracene	A	50.00	53.34	1.004478	1.071524		6.7	20
Dibenzofuran	A	50.00	53.00	1.535116	1.627131		6.0	20
Di-n-butylphthalate	A	50.00	54.86	1.182012	1.2969		9.7	20
3,3'-Dichlorobenzidine	A	50.00	62.47	0.4067228	0.5081694		24.9	20 *
2,4-Dichlorophenol	A	50.00	49.16	0.3046728	0.2995827		-1.7	20
Diethylphthalate	A	50.00	54.49	1.194731	1.302039		9.0	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV1	Injection Time:	23:11

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dimethylphenol	A	50.00	49.91	0.3636609	0.3629976		-0.2	20
Dimethyl phthalate	A	50.00	51.90	1.24444	1.29165		3.8	20
4,6-Dinitro-2-methylphenol	A	50.00	51.78	0.1454148	0.1505894		3.6	20
2,4-Dinitrophenol	A	50.00	46.36	0.1854397	0.1719248	0.05	-7.3	20
2,4-Dinitrotoluene	A	50.00	53.93	0.3929838	0.4239046		7.9	20
2,6-Dinitrotoluene	A	50.00	52.61	0.2991862	0.314827		5.2	20
Di-n-octylphthalate	A	50.00	67.83	1.204345	1.633837		35.7	20 *
1,4-Dioxane	A	50.00	43.53	0.5405832	0.4706529		-12.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.59	0.6793074	0.8774914		29.2	20 *
Fluoranthene	A	50.00	47.72	1.233837	1.177546		-4.6	20
Fluorene	A	50.00	50.91	1.337519	1.36178		1.8	20
Hexachlorobenzene	A	50.00	47.82	0.244362	0.233732		-4.4	20
Hexachlorobutadiene	A	50.00	47.76	0.186857	0.1784963		-4.5	20
Hexachlorocyclopentadiene	A	50.00	45.25	0.3749749	0.339383	0.05	-9.5	20
Hexachloroethane	A	50.00	51.83	0.5464632	0.5664777		3.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.46	1.038008	1.109786		6.9	20
Isophorone	A	50.00	44.57	0.7442763	0.6634762		-10.9	20
1-Methylnaphthalene	A	50.00	48.62	0.5872691	0.5711015		-2.8	20
2-Methylnaphthalene	A	50.00	49.44	0.5974192	0.5906688		-1.1	20
2-Methylphenol	A	50.00	50.65	1.208635	1.224344		1.3	20
4-Methylphenol	A	50.00	50.96	1.268409	1.292716		1.9	20
Naphthalene	A	50.00	51.76	0.9958993	1.030943		3.5	20
4-Nitroaniline	A	50.00	56.70	0.3272887	0.3711544		13.4	20
3-Nitroaniline	A	50.00	53.54	0.3230815	0.3459349		7.1	20
2-Nitroaniline	A	50.00	49.29	0.3700237	0.3647971		-1.4	20
Nitrobenzene	A	50.00	47.19	0.4107927	0.3877257		-5.6	20
4-Nitrophenol	A	50.00	48.26	0.2721678	0.2627015	0.05	-3.5	20
2-Nitrophenol	A	50.00	51.35	0.1941449	0.1993787		2.7	20
N-Nitrosodiphenylamine	A	50.00	51.72	0.6728889	0.6960167		3.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV1	Injection Time:	23:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitroso-di-n-propylamine	A	50.00	46.98	1.033966	0.9715424	0.05	-6.0	20
Pentachlorophenol	A	50.00	45.46	0.1623094	0.1475583		-9.1	20
Phenanthrene	A	50.00	51.60	1.075866	1.110377		3.2	20
Phenol	A	50.00	49.44	1.687698	1.668705		-1.1	20
Pyrene	A	50.00	57.13	1.163766	1.329686		14.3	20
1,2,4,5-Tetrachlorobenzene	A	50.00	43.24	0.3352828	0.2899552		-13.5	20
2,3,4,6-Tetrachlorophenol	A	50.00	47.22	0.3340715	0.3154982		-5.6	20
2,4,6-Trichlorophenol	A	50.00	49.15	0.382004	0.375547		-1.7	20
2,4,5-Trichlorophenol	A	50.00	48.61	0.4142645	0.4027191		-2.8	20
2-Fluorobiphenyl	A	50.00	53.34	1.265417	1.350041		6.7	20
2-Fluorophenol	A	100.0	100.6	1.142171	1.149023		0.6	20
Nitrobenzene-d5	A	50.00	46.28	0.4075494	0.3772022		-7.4	20
Phenol-d6	A	100.0	94.78	1.572986	1.490868		-5.2	20
Terphenyl-d14	A	50.00	57.49	0.7462196	0.8579632		15.0	20
2,4,6-Tribromophenol	A	100.0	91.73	0.109869	0.100783		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24909	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I24909-TUN1	SEQ-TUN1.D	09/04/11 17:59
Calibration Check	1I24909-CCV1	SEQ-CCV1.D	09/04/11 18:26
Calibration Check	1I24909-CCV2	SEQ-CCV2.D	09/04/11 19:06
55SB04-0204	1108171-25	0817125D.D	09/05/11 02:34
55SS04-0X02D	1108171-24	0817124D.D	09/05/11 03:14
55SS04-0X02	1108171-38	0817138D.D	09/05/11 03:55

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/04/11
Instrument ID:	MS-BNA3	Injection Time:	17:59
Sequence:	1I24909	Lab Sample ID:	1I24909-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	45.9	PASS
70	Less than 2% of 69	0.751	PASS
127	40 - 60% of 198	52.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.79	PASS
275	10 - 30% of 198	24	PASS
365	1 - 200% of 198	2.48	PASS
441	0.001 - 100% of 443	74.1	PASS
442	40 - 200% of 198	62.7	PASS
443	17 - 23% of 442	20.1	PASS

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I24909	Injection Date:	09/04/11
Lab Sample ID:	1I24909-CCV1	Injection Time:	18:26

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.24	1.110356	1.160104		4.5	20
Acenaphthylene	A	50.00	54.29	1.725208	1.873172		8.6	20
Acetophenone	A	50.00	52.33	1.801986	1.886112		4.7	20
Anthracene	A	50.00	51.04	1.092671	1.115526		2.1	20
Atrazine	A	50.00	42.43	0.2344682	0.1989631		-15.1	20
Benzo(a)anthracene	A	50.00	55.57	1.119297	1.244079		11.1	20
Benzo(a)pyrene	A	50.00	55.91	1.045862	1.169472		11.8	20
Benzo(b)fluoranthene	A	50.00	63.89	1.093698	1.397624		27.8	20 *
Benzo(g,h,i)perylene	A	50.00	51.62	1.033139	1.06656		3.2	20
Benzo(k)fluoranthene	A	50.00	53.83	1.107729	1.192581		7.7	20
1,1-Biphenyl	A	50.00	50.15	1.444453	1.448692		0.3	20
4-Bromophenyl-phenylether	A	50.00	46.91	0.2284778	0.2143753		-6.2	20
Butylbenzylphthalate	A	50.00	67.10	0.5129818	0.6884137		34.2	20 *
Caprolactam	A	50.00	45.64	0.1128421	0.1030064		-8.7	20
Carbazole	A	50.00	50.03	1.044381	1.044975		0.06	20
4-Chloro-3-methylphenol	A	50.00	53.68	0.3113523	0.3342701		7.4	20
4-Chloroaniline	A	50.00	52.59	0.4225325	0.4444463		5.2	20
Bis(2-chloroethoxy)methane	A	50.00	48.76	0.4269873	0.4163638		-2.5	20
Bis(2-chloroethyl)ether	A	50.00	50.06	1.297842	1.299408		0.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	54.23	1.947114	2.112017		8.5	20
2-Chloronaphthalene	A	50.00	59.51	1.087766	1.294608		19.0	20
2-Chlorophenol	A	50.00	49.70	1.315004	1.307269		-0.6	20
4-Chlorophenyl phenyl ether	A	50.00	52.08	0.6233489	0.649295		4.2	20
Chrysene	A	50.00	53.04	1.047865	1.111528		6.1	20
Dibenz(a,h)anthracene	A	50.00	52.97	1.004478	1.064162		5.9	20
Dibenzofuran	A	50.00	53.60	1.535116	1.645558		7.2	20
Di-n-butylphthalate	A	50.00	56.00	1.182012	1.323799		12.0	20
3,3'-Dichlorobenzidine	A	50.00	61.19	0.4067228	0.497717		22.4	20 *
2,4-Dichlorophenol	A	50.00	49.28	0.3046728	0.3003081		-1.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I24909	Injection Date:	09/04/11
Lab Sample ID:	1I24909-CCV1	Injection Time:	18:26

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	50.00	56.60	1.194731	1.352472		13.2	20
2,4-Dimethylphenol	A	50.00	52.94	0.3636609	0.3850083		5.9	20
Dimethyl phthalate	A	50.00	53.30	1.24444	1.326472		6.6	20
4,6-Dinitro-2-methylphenol	A	50.00	51.64	0.1454148	0.1501997		3.3	20
2,4-Dinitrophenol	A	50.00	49.94	0.1854397	0.1852206	0.05	-0.1	20
2,4-Dinitrotoluene	A	50.00	56.45	0.3929838	0.4436898		12.9	20
2,6-Dinitrotoluene	A	50.00	53.94	0.2991862	0.3227339		7.9	20
Di-n-octylphthalate	A	50.00	70.59	1.204345	1.700384		41.2	20 *
1,4-Dioxane	A	50.00	44.72	0.5405832	0.4834578		-10.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	66.43	0.6793074	0.9025173		32.9	20 *
Fluoranthene	A	50.00	48.47	1.233837	1.196079		-3.1	20
Fluorene	A	50.00	52.05	1.337519	1.392349		4.1	20
Hexachlorobenzene	A	50.00	47.79	0.244362	0.2335778		-4.4	20
Hexachlorobutadiene	A	50.00	49.42	0.186857	0.184705		-1.2	20
Hexachlorocyclopentadiene	A	50.00	47.34	0.3749749	0.3550527	0.05	-5.3	20
Hexachloroethane	A	50.00	52.27	0.5464632	0.5712911		4.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.52	1.038008	1.131831		9.0	20
Isophorone	A	50.00	47.84	0.7442763	0.7120945		-4.3	20
1-Methylnaphthalene	A	50.00	49.46	0.5872691	0.5809274		-1.1	20
2-Methylnaphthalene	A	50.00	49.92	0.5974192	0.5964985		-0.2	20
2-Methylphenol	A	50.00	53.19	1.208635	1.285839		6.4	20
4-Methylphenol	A	50.00	50.38	1.268409	1.27809		0.8	20
Naphthalene	A	50.00	51.80	0.9958993	1.031804		3.6	20
4-Nitroaniline	A	50.00	56.52	0.3272887	0.3699647		13.0	20
3-Nitroaniline	A	50.00	53.88	0.3230815	0.3481248		7.8	20
2-Nitroaniline	A	50.00	51.77	0.3700237	0.383153		3.5	20
Nitrobenzene	A	50.00	50.86	0.4107927	0.4178277		1.7	20
4-Nitrophenol	A	50.00	50.91	0.2721678	0.2771352	0.05	1.8	20
2-Nitrophenol	A	50.00	51.12	0.1941449	0.1984891		2.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I24909	Injection Date:	09/04/11
Lab Sample ID:	1I24909-CCV1	Injection Time:	18:26

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.55	0.6728889	0.6937014		3.1	20
N-Nitroso-di-n-propylamine	A	50.00	48.41	1.033966	1.001162	0.05	-3.2	20
Pentachlorophenol	A	50.00	43.83	0.1623094	0.1422848		-12.3	20
Phenanthrene	A	50.00	51.98	1.075866	1.118512		4.0	20
Phenol	A	50.00	54.20	1.687698	1.829637		8.4	20
Pyrene	A	50.00	57.48	1.163766	1.33789		15.0	20
1,2,4,5-Tetrachlorobenzene	A	50.00	43.97	0.3352828	0.2948579		-12.1	20
2,3,4,6-Tetrachlorophenol	A	50.00	48.98	0.3340715	0.3272588		-2.0	20
2,4,6-Trichlorophenol	A	50.00	48.78	0.382004	0.3726648		-2.4	20
2,4,5-Trichlorophenol	A	50.00	50.09	0.4142645	0.4149844		0.2	20
2-Fluorobiphenyl	A	50.00	54.07	1.265417	1.368507		8.1	20
2-Fluorophenol	A	100.0	96.83	1.142171	1.10598		-3.2	20
Nitrobenzene-d5	A	50.00	49.47	0.4075494	0.4032627		-1.1	20
Phenol-d6	A	100.0	97.17	1.572986	1.52849		-2.8	20
Terphenyl-d14	A	50.00	57.58	0.7462196	0.8593667		15.2	20
2,4,6-Tribromophenol	A	100.0	89.22	0.109869	9.802932E-02		-10.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1H24307

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24307-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/30/11 18:52		
2-Fluorobiphenyl	50.00	108	80 - 120	10.507	10.507	0.0000	+/-0.500	
2-Fluorophenol	100.0	103	80 - 120	5.892	5.892	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.8	80 - 120	8.237	8.237	0.0000	+/-0.500	
Phenol-d6	100.0	95.9	80 - 120	7.04	7.04	0.0000	+/-0.500	
Terphenyl-d14	50.00	112	80 - 120	15.655	15.655	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	88.0	80 - 120	12.349	12.349	0.0000	+/-0.500	
Blank (1H18012-BLK1) ug/Kg wet				Lab File ID: H18012B1.D		Analyzed: 08/30/11 21:31		
2-Fluorobiphenyl	3267	95.2	45 - 105	10.48	10.507	-0.0270	+/-0.500	
2-Fluorophenol	6667	92.7	35 - 105	5.866	5.892	-0.0260	+/-0.500	
Nitrobenzene-d5	3267	77.1	35 - 100	8.205	8.237	-0.0320	+/-0.500	
Phenol-d6	6667	87.5	40 - 100	6.998	7.04	-0.0420	+/-0.500	
Terphenyl-d14	3267	108	30 - 125	15.629	15.655	-0.0260	+/-0.500	
2,4,6-Tribromophenol	6667	80.0	35 - 125	12.318	12.349	-0.0310	+/-0.500	
LCS (1H18012-BS1) ug/Kg wet				Lab File ID: H18012L1.D		Analyzed: 08/30/11 23:29		
2-Fluorobiphenyl	3267	95.6	45 - 105	10.489	10.507	-0.0180	+/-0.500	
2-Fluorophenol	6667	93.7	35 - 105	5.869	5.892	-0.0230	+/-0.500	
Nitrobenzene-d5	3267	79.9	35 - 100	8.214	8.237	-0.0230	+/-0.500	
Phenol-d6	6667	90.3	40 - 100	7.012	7.04	-0.0280	+/-0.500	
Terphenyl-d14	3267	106	30 - 125	15.638	15.655	-0.0170	+/-0.500	
2,4,6-Tribromophenol	6667	84.9	35 - 125	12.326	12.349	-0.0230	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24413	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I24413-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/31/11 21:45		
2-Fluorobiphenyl	50.00	109	80 - 120	10.471	10.471	0.0000	+/-0.500	
2-Fluorophenol	100.0	102	80 - 120	5.851	5.851	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.7	80 - 120	8.196	8.196	0.0000	+/-0.500	
Phenol-d6	100.0	97.0	80 - 120	6.994	6.994	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.615	15.615	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	89.8	80 - 120	12.308	12.308	0.0000	+/-0.500	
55SB04-0204D (1108171-26) ug/Kg dry				Lab File ID: 0817126.D		Analyzed: 09/01/11 03:18		
2-Fluorobiphenyl	3937	63.1	45 - 105	10.452	10.471	-0.0190	+/-0.500	
2-Fluorophenol	8034	70.4	35 - 105	5.832	5.851	-0.0190	+/-0.500	
Nitrobenzene-d5	3937	61.2	35 - 100	8.171	8.196	-0.0250	+/-0.500	
Phenol-d6	8034	67.8	40 - 100	6.97	6.994	-0.0240	+/-0.500	
Terphenyl-d14	3937	68.3	30 - 125	15.59	15.615	-0.0250	+/-0.500	
2,4,6-Tribromophenol	8034	57.3	35 - 125	12.284	12.308	-0.0240	+/-0.500	
55SS07-0X02 (1108171-28) ug/Kg dry				Lab File ID: 0817128.D		Analyzed: 09/01/11 04:00		
2-Fluorobiphenyl	3999	70.0	45 - 105	10.452	10.471	-0.0190	+/-0.500	
2-Fluorophenol	8162	68.6	35 - 105	5.837	5.851	-0.0140	+/-0.500	
Nitrobenzene-d5	3999	59.9	35 - 100	8.177	8.196	-0.0190	+/-0.500	
Phenol-d6	8162	66.1	40 - 100	6.97	6.994	-0.0240	+/-0.500	
Terphenyl-d14	3999	84.3	30 - 125	15.59	15.615	-0.0250	+/-0.500	
2,4,6-Tribromophenol	8162	66.0	35 - 125	12.284	12.308	-0.0240	+/-0.500	
55SB07-0204 (1108171-29) ug/Kg dry				Lab File ID: 0817129.D		Analyzed: 09/01/11 04:40		
2-Fluorobiphenyl	4026	75.7	45 - 105	10.452	10.471	-0.0190	+/-0.500	
2-Fluorophenol	8216	78.1	35 - 105	5.826	5.851	-0.0250	+/-0.500	
Nitrobenzene-d5	4026	65.8	35 - 100	8.171	8.196	-0.0250	+/-0.500	
Phenol-d6	8216	73.7	40 - 100	6.964	6.994	-0.0300	+/-0.500	
Terphenyl-d14	4026	86.6	30 - 125	15.59	15.615	-0.0250	+/-0.500	
2,4,6-Tribromophenol	8216	68.1	35 - 125	12.284	12.308	-0.0240	+/-0.500	
55SS09-0X02 (1108171-35) ug/Kg dry				Lab File ID: 0817135.D		Analyzed: 09/01/11 05:19		
2-Fluorobiphenyl	4645	69.9	45 - 105	10.458	10.471	-0.0130	+/-0.500	
2-Fluorophenol	9480	76.3	35 - 105	5.838	5.851	-0.0130	+/-0.500	
Nitrobenzene-d5	4645	63.5	35 - 100	8.177	8.196	-0.0190	+/-0.500	
Phenol-d6	9480	71.7	40 - 100	6.975	6.994	-0.0190	+/-0.500	
Terphenyl-d14	4645	80.8	30 - 125	15.596	15.615	-0.0190	+/-0.500	
2,4,6-Tribromophenol	9480	69.6	35 - 125	12.29	12.308	-0.0180	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1124413	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (1H18012-MS1) ug/Kg dry				Lab File ID: 0817135M.D		Analyzed: 09/01/11 05:59		
2-Fluorobiphenyl	4707	88.1	45 - 105	10.47	10.471	-0.0010	+/-0.500	
2-Fluorophenol	9606	86.2	35 - 105	5.856	5.851	0.0050	+/-0.500	
Nitrobenzene-d5	4707	73.6	35 - 100	8.201	8.196	0.0050	+/-0.500	
Phenol-d6	9606	84.0	40 - 100	6.999	6.994	0.0050	+/-0.500	
Terphenyl-d14	4707	105	30 - 125	15.614	15.615	-0.0010	+/-0.500	
2,4,6-Tribromophenol	9606	86.5	35 - 125	12.313	12.308	0.0050	+/-0.500	
Matrix Spike Dup (1H18012-MSD1) ug/Kg dry				Lab File ID: 0817135S.D		Analyzed: 09/01/11 06:38		
2-Fluorobiphenyl	4707	85.0	45 - 105	10.458	10.471	-0.0130	+/-0.500	
2-Fluorophenol	9606	85.6	35 - 105	5.838	5.851	-0.0130	+/-0.500	
Nitrobenzene-d5	4707	75.2	35 - 100	8.182	8.196	-0.0140	+/-0.500	
Phenol-d6	9606	83.1	40 - 100	6.986	6.994	-0.0080	+/-0.500	
Terphenyl-d14	4707	98.3	30 - 125	15.596	15.615	-0.0190	+/-0.500	
2,4,6-Tribromophenol	9606	85.3	35 - 125	12.295	12.308	-0.0130	+/-0.500	
55SS03-0X02 (1108171-32) ug/Kg dry				Lab File ID: 0817132.D		Analyzed: 09/01/11 07:19		
2-Fluorobiphenyl	4300	71.1	45 - 105	10.468	10.471	-0.0030	+/-0.500	
2-Fluorophenol	8776	82.5	35 - 105	5.848	5.851	-0.0030	+/-0.500	
Nitrobenzene-d5	4300	69.3	35 - 100	8.187	8.196	-0.0090	+/-0.500	
Phenol-d6	8776	75.8	40 - 100	6.985	6.994	-0.0090	+/-0.500	
Terphenyl-d14	4300	80.0	30 - 125	15.606	15.615	-0.0090	+/-0.500	
2,4,6-Tribromophenol	8776	71.5	35 - 125	12.3	12.308	-0.0080	+/-0.500	
55SB03-0204 (1108171-33) ug/Kg dry				Lab File ID: 0817133.D		Analyzed: 09/01/11 07:59		
2-Fluorobiphenyl	4380	70.2	45 - 105	10.455	10.471	-0.0160	+/-0.500	
2-Fluorophenol	8939	77.2	35 - 105	5.84	5.851	-0.0110	+/-0.500	
Nitrobenzene-d5	4380	65.6	35 - 100	8.179	8.196	-0.0170	+/-0.500	
Phenol-d6	8939	73.1	40 - 100	6.978	6.994	-0.0160	+/-0.500	
Terphenyl-d14	4380	78.9	30 - 125	15.598	15.615	-0.0170	+/-0.500	
2,4,6-Tribromophenol	8939	73.4	35 - 125	12.292	12.308	-0.0160	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I24512

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I24512-CCV1) ug/mL				Lab File ID: SEQ-CCV3.D		Analyzed: 09/01/11 09:51		
2-Fluorobiphenyl	50.00	108	80 - 120	10.465	10.465	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	5.845	5.845	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	93.5	80 - 120	8.195	8.195	0.0000	+/-0.500	
Phenol-d6	100.0	94.7	80 - 120	6.999	6.999	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.608	15.608	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	90.1	80 - 120	12.308	12.308	0.0000	+/-0.500	
55SS07-000X (1108171-27) ug/Kg dry				Lab File ID: 0817127.D		Analyzed: 09/01/11 12:43		
2-Fluorobiphenyl	3869	66.1	45 - 105	10.458	10.465	-0.0070	+/-0.500	
2-Fluorophenol	7895	66.7	35 - 105	5.843	5.845	-0.0020	+/-0.500	
Nitrobenzene-d5	3869	58.2	35 - 100	8.177	8.195	-0.0180	+/-0.500	
Phenol-d6	7895	59.9	40 - 100	6.976	6.999	-0.0230	+/-0.500	
Terphenyl-d14	3869	74.6	30 - 125	15.601	15.608	-0.0070	+/-0.500	
2,4,6-Tribromophenol	7895	62.0	35 - 125	12.29	12.308	-0.0180	+/-0.500	
55SS03-000X (1108171-30) ug/Kg dry				Lab File ID: 0817130.D		Analyzed: 09/01/11 13:27		
2-Fluorobiphenyl	7554	70.3	45 - 105	10.457	10.465	-0.0080	+/-0.500	
2-Fluorophenol	15420	61.7	35 - 105	5.837	5.845	-0.0080	+/-0.500	
Nitrobenzene-d5	7554	58.5	35 - 100	8.176	8.195	-0.0190	+/-0.500	
Phenol-d6	15420	62.6	40 - 100	6.975	6.999	-0.0240	+/-0.500	
Terphenyl-d14	7554	79.0	30 - 125	15.6	15.608	-0.0080	+/-0.500	
2,4,6-Tribromophenol	15420	66.5	35 - 125	12.294	12.308	-0.0140	+/-0.500	
55SS03-000XD (1108171-31) ug/Kg dry				Lab File ID: 0817131.D		Analyzed: 09/01/11 14:14		
2-Fluorobiphenyl	3773	61.3	45 - 105	10.457	10.465	-0.0080	+/-0.500	
2-Fluorophenol	7699	59.2	35 - 105	5.842	5.845	-0.0030	+/-0.500	
Nitrobenzene-d5	3773	50.3	35 - 100	8.182	8.195	-0.0130	+/-0.500	
Phenol-d6	7699	53.1	40 - 100	6.98	6.999	-0.0190	+/-0.500	
Terphenyl-d14	3773	67.1	30 - 125	15.606	15.608	-0.0020	+/-0.500	
2,4,6-Tribromophenol	7699	58.3	35 - 125	12.295	12.308	-0.0130	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I24513

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I24513-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/01/11 23:11		
2-Fluorobiphenyl	50.00	107	80 - 120	10.437	10.437	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	5.828	5.828	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.6	80 - 120	8.167	8.167	0.0000	+/-0.500	
Phenol-d6	100.0	94.8	80 - 120	6.976	6.976	0.0000	+/-0.500	
Terphenyl-d14	50.00	115	80 - 120	15.57	15.57	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	91.7	80 - 120	12.28	12.28	0.0000	+/-0.500	
55SB09-0204 (1108171-36) ug/Kg dry				Lab File ID: 0817136.D		Analyzed: 09/02/11 06:58		
2-Fluorobiphenyl	4362	79.0	45 - 105	10.42	10.437	-0.0170	+/-0.500	
2-Fluorophenol	8901	82.7	35 - 105	5.811	5.828	-0.0170	+/-0.500	
Nitrobenzene-d5	4362	70.1	35 - 100	8.145	8.167	-0.0220	+/-0.500	
Phenol-d6	8901	77.4	40 - 100	6.949	6.976	-0.0270	+/-0.500	
Terphenyl-d14	4362	88.0	30 - 125	15.548	15.57	-0.0220	+/-0.500	
2,4,6-Tribromophenol	8901	76.1	35 - 125	12.258	12.28	-0.0220	+/-0.500	
55SS09-000X (1108171-34) ug/Kg dry				Lab File ID: 0817134.D		Analyzed: 09/02/11 07:40		
2-Fluorobiphenyl	4625	68.7	45 - 105	10.418	10.437	-0.0190	+/-0.500	
2-Fluorophenol	9439	63.1	35 - 105	5.804	5.828	-0.0240	+/-0.500	
Nitrobenzene-d5	4625	62.3	35 - 100	8.143	8.167	-0.0240	+/-0.500	
Phenol-d6	9439	71.1	40 - 100	6.941	6.976	-0.0350	+/-0.500	
Terphenyl-d14	4625	71.5	30 - 125	15.546	15.57	-0.0240	+/-0.500	
2,4,6-Tribromophenol	9439	67.6	35 - 125	12.256	12.28	-0.0240	+/-0.500	
55SS04-000X (1108171-22) ug/Kg dry				Lab File ID: 0817122D.D		Analyzed: 09/02/11 09:05		
2-Fluorobiphenyl	4474	41.1	45 - 105	10.423	10.437	-0.0140	+/-0.500	*
2-Fluorophenol	9131	31.3	35 - 105	5.819	5.828	-0.0090	+/-0.500	*
Nitrobenzene-d5	4474	28.1	35 - 100	8.148	8.167	-0.0190	+/-0.500	*
Phenol-d6	9131	32.6	40 - 100	6.957	6.976	-0.0190	+/-0.500	*
Terphenyl-d14	4474	49.8	30 - 125	15.556	15.57	-0.0140	+/-0.500	
2,4,6-Tribromophenol	9131	42.1	35 - 125	12.271	12.28	-0.0090	+/-0.500	
55SS04-000XD (1108171-23) ug/Kg dry				Lab File ID: 0817123D.D		Analyzed: 09/02/11 09:48		
2-Fluorobiphenyl	4841	39.3	45 - 105	10.434	10.437	-0.0030	+/-0.500	*
2-Fluorophenol	9879	30.8	35 - 105	5.824	5.828	-0.0040	+/-0.500	*
Nitrobenzene-d5	4841	28.4	35 - 100	8.158	8.167	-0.0090	+/-0.500	*
Phenol-d6	9879	30.2	40 - 100	6.973	6.976	-0.0030	+/-0.500	*
Terphenyl-d14	4841	47.4	30 - 125	15.566	15.57	-0.0040	+/-0.500	
2,4,6-Tribromophenol	9879	35.6	35 - 125	12.282	12.28	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I24909

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I24909-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/04/11 18:26		
2-Fluorobiphenyl	50.00	108	80 - 120	10.362	10.362	0.0000	+/-0.500	
2-Fluorophenol	100.0	96.8	80 - 120	5.752	5.752	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	98.9	80 - 120	8.086	8.086	0.0000	+/-0.500	
Phenol-d6	100.0	97.2	80 - 120	6.9	6.9	0.0000	+/-0.500	
Terphenyl-d14	50.00	115	80 - 120	15.475	15.475	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	89.2	80 - 120	12.2	12.2	0.0000	+/-0.500	
55SB04-0204 (1108171-25) ug/Kg dry				Lab File ID: 0817125D.D		Analyzed: 09/05/11 02:34		
2-Fluorobiphenyl	3337	61.5	45 - 105	10.365	10.362	0.0030	+/-0.500	
2-Fluorophenol	6810	49.0	35 - 105	5.755	5.752	0.0030	+/-0.500	
Nitrobenzene-d5	3337	48.9	35 - 100	8.089	8.086	0.0030	+/-0.500	
Phenol-d6	6810	50.1	40 - 100	6.898	6.9	-0.0020	+/-0.500	
Terphenyl-d14	3337	73.6	30 - 125	15.477	15.475	0.0020	+/-0.500	
2,4,6-Tribromophenol	6810	55.2	35 - 125	12.203	12.2	0.0030	+/-0.500	
55SS04-0X02D (1108171-24) ug/Kg dry				Lab File ID: 0817124D.D		Analyzed: 09/05/11 03:14		
2-Fluorobiphenyl	4654	54.6	45 - 105	10.357	10.362	-0.0050	+/-0.500	
2-Fluorophenol	9499	33.5	35 - 105	5.747	5.752	-0.0050	+/-0.500	*
Nitrobenzene-d5	4654	45.9	35 - 100	8.076	8.086	-0.0100	+/-0.500	
Phenol-d6	9499	44.9	40 - 100	6.89	6.9	-0.0100	+/-0.500	
Terphenyl-d14	4654	61.5	30 - 125	15.469	15.475	-0.0060	+/-0.500	
2,4,6-Tribromophenol	9499	50.7	35 - 125	12.194	12.2	-0.0060	+/-0.500	
55SS04-0X02 (1108171-38) ug/Kg dry				Lab File ID: 0817138D.D		Analyzed: 09/05/11 03:55		
2-Fluorobiphenyl	4752	57.1	45 - 105	10.356	10.362	-0.0060	+/-0.500	
2-Fluorophenol	9698	39.2	35 - 105	5.751	5.752	-0.0010	+/-0.500	
Nitrobenzene-d5	4752	46.6	35 - 100	8.081	8.086	-0.0050	+/-0.500	
Phenol-d6	9698	45.3	40 - 100	6.9	6.9	0.0000	+/-0.500	
Terphenyl-d14	4752	65.0	30 - 125	15.474	15.475	-0.0010	+/-0.500	
2,4,6-Tribromophenol	9698	55.6	35 - 125	12.199	12.2	-0.0010	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H18012	Laboratory ID:	1H18012-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	3333	2920	87.6	45 - 110
Acenaphthylene	3333	2549	76.5	45 - 105
Acetophenone	3333	2897	86.9	35 - 110
Anthracene	3333	2831	84.9	55 - 105
Atrazine	3333	2765	83.0	55 - 105
Benzaldehyde	3333	1804	54.1	10 - 160
Benzo(a)anthracene	3333	3195	95.8	50 - 110
Benzo(a)pyrene	3333	2905	87.1	50 - 110
Benzo(b)fluoranthene	3333	3424	103	45 - 115
Benzo(g,h,i)perylene	3333	3115	93.5	40 - 125
Benzo(k)fluoranthene	3333	3222	96.7	45 - 125
1,1-Biphenyl	3333	3056	91.7	45 - 110
4-Bromophenyl-phenylether	3333	2860	85.8	45 - 115
Butylbenzylphthalate	3333	4066	122	50 - 125
Caprolactam	3333	2889	86.7	50 - 110
Carbazole	3333	2757	82.7	45 - 115
4-Chloro-3-methylphenol	3333	2833	85.0	45 - 115
4-Chloroaniline	3333	2630	78.9	10 - 95
Bis(2-chloroethoxy)methane	3333	3008	90.2	45 - 110
Bis(2-chloroethyl)ether	3333	2971	89.1	40 - 105
2,2'-Oxybis-1-chloropropane	3333	2976	89.3	20 - 115
2-Chloronaphthalene	3333	3086	92.6	45 - 105
2-Chlorophenol	3333	2817	84.5	45 - 105
4-Chlorophenyl phenyl ether	3333	2938	88.1	45 - 110
Chrysene	3333	3079	92.4	55 - 110
Dibenz(a,h)anthracene	3333	3156	94.7	40 - 125
Dibenzofuran	3333	3052	91.6	50 - 105
Di-n-butylphthalate	3333	3337	100	55 - 110
3,3'-Dichlorobenzidine	3333	3002	90.1	19 - 130
2,4-Dichlorophenol	3333	2761	82.8	45 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H18012	Laboratory ID:	1H18012-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Diethylphthalate	3333	3367	101	50 - 115
2,4-Dimethylphenol	3333	2772	83.2	30 - 105
Dimethyl phthalate	3333	3220	96.6	50 - 110
4,6-Dinitro-2-methylphenol	3333	2774	83.2	30 - 135
2,4-Dinitrophenol	3333	2181	65.4	15 - 130
2,4-Dinitrotoluene	3333	3095	92.8	50 - 115
2,6-Dinitrotoluene	3333	2898	86.9	50 - 110
Di-n-octylphthalate	3333	4215	126	40 - 130
Bis(2-ethylhexyl)phthalate	3333	4103	123	45 - 125
Fluoranthene	3333	2749	82.5	55 - 115
Fluorene	3333	2889	86.7	50 - 110
Hexachlorobenzene	3333	2747	82.4	45 - 120
Hexachlorobutadiene	3333	2839	85.2	30 - 110
Hexachlorocyclopentadiene	3333	1411	42.3	10 - 110
Hexachloroethane	3333	2721	81.6	35 - 110
Indeno(1,2,3-cd)pyrene	3333	3212	96.4	40 - 120
Isophorone	3333	2305	69.1	45 - 110
1-Methylnaphthalene	3333	2688	80.7	30 - 110
2-Methylnaphthalene	3333	2795	83.8	40 - 110
2-Methylphenol	3333	2857	85.7	40 - 105
4-Methylphenol	3333	2817	84.5	40 - 105
Naphthalene	3333	2863	85.9	40 - 105
4-Nitroaniline	3333	3056	91.7	35 - 115
3-Nitroaniline	3333	2827	84.8	25 - 110
2-Nitroaniline	3333	2633	79.0	45 - 120
Nitrobenzene	3333	2667	80.0	40 - 115
4-Nitrophenol	3333	2347	70.4	15 - 140
2-Nitrophenol	3333	2653	79.6	40 - 110
N-Nitrosodiphenylamine	3333	1913	57.4	50 - 115
N-Nitroso-di-n-propylamine	3333	2767	83.0	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H18012	Laboratory ID:	1H18012-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Pentachlorophenol	3333	2780	83.4	25 - 120
Phenanthrene	3333	3025	90.8	50 - 110
Phenol	3333	2806	84.2	40 - 100
Pyrene	3333	3307	99.2	45 - 125
1,2,4,5-Tetrachlorobenzene	3333	2571	77.1	50 - 150
2,3,4,6-Tetrachlorophenol	3333	2540	76.2	50 - 125
2,4,6-Trichlorophenol	3333	2801	84.0	45 - 110
2,4,5-Trichlorophenol	3333	2802	84.1	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H18012

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	4803	ND	4039	84.1		45 - 110
Acenaphthylene	4803	ND	3597	74.9		45 - 105
Acetophenone	4803	ND	3999	83.3		35 - 110
Anthracene	4803	ND	3932	81.9		55 - 105
Atrazine	4803	ND	3867	80.5		55 - 105
Benzaldehyde	4803	ND	3512	73.1		10 - 160
Benzo(a)anthracene	4803	ND	4415	91.9		50 - 110
Benzo(a)pyrene	4803	ND	3909	81.4		50 - 110
Benzo(b)fluoranthene	4803	ND	4335	90.2		45 - 115
Benzo(g,h,i)perylene	4803	ND	4316	89.9		40 - 125
Benzo(k)fluoranthene	4803	ND	4446	92.6		45 - 125
1,1-Biphenyl	4803	ND	4265	88.8		45 - 110
4-Bromophenyl-phenylether	4803	ND	4061	84.6		45 - 115
Butylbenzylphthalate	4803	ND	5909	123		50 - 125
Caprolactam	4803	ND	3952	82.3		50 - 110
Carbazole	4803	ND	3806	79.2		45 - 115
4-Chloro-3-methylphenol	4803	ND	3846	80.1		45 - 115
4-Chloroaniline	4803	ND	3547	73.8		10 - 95
Bis(2-chloroethoxy)methane	4803	ND	4012	83.5		45 - 110
Bis(2-chloroethyl)ether	4803	ND	4020	83.7		40 - 105
2,2'-Oxybis-1-chloropropane	4803	ND	3914	81.5		20 - 115
2-Chloronaphthalene	4803	ND	4288	89.3		45 - 105
2-Chlorophenol	4803	ND	3828	79.7		45 - 105
4-Chlorophenyl phenyl ether	4803	ND	4115	85.7		45 - 110
Chrysene	4803	ND	4381	91.2		55 - 110
Dibenz(a,h)anthracene	4803	ND	4515	94.0		40 - 125
Dibenzofuran	4803	ND	4304	89.6		50 - 105
Di-n-butylphthalate	4803	ND	4481	93.3		55 - 110
3,3'-Dichlorobenzidine	4803	ND	4296	89.5		19 - 130
2,4-Dichlorophenol	4803	ND	3747	78.0		45 - 110
Diethylphthalate	4803	ND	4621	96.2		50 - 115
2,4-Dimethylphenol	4803	ND	3407	70.9		30 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H18012

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Dimethyl phthalate	4803	ND	4447	92.6		50 - 110
4,6-Dinitro-2-methylphenol	4803	ND	3907	81.4		30 - 135
2,4-Dinitrophenol	4803	ND	2425	50.5		15 - 130
2,4-Dinitrotoluene	4803	ND	4292	89.4		50 - 115
2,6-Dinitrotoluene	4803	ND	4070	84.7		50 - 110
Di-n-octylphthalate	4803	ND	5787	120		40 - 130
Bis(2-ethylhexyl)phthalate	4803	ND	5855	122		45 - 125
Fluoranthene	4803	ND	3621	75.4		55 - 115
Fluorene	4803	ND	4064	84.6		50 - 110
Hexachlorobenzene	4803	ND	3927	81.8		45 - 120
Hexachlorobutadiene	4803	ND	3859	80.3		30 - 110
Hexachlorocyclopentadiene	4803	ND	1991	41.4		10 - 110
Hexachloroethane	4803	ND	3833	79.8		35 - 110
Indeno(1,2,3-cd)pyrene	4803	ND	4362	90.8		40 - 120
Isophorone	4803	ND	3092	64.4		45 - 110
1-Methylnaphthalene	4803	ND	3706	77.2		30 - 110
2-Methylnaphthalene	4803	ND	3826	79.7		40 - 110
2-Methylphenol	4803	ND	3697	77.0		40 - 105
4-Methylphenol	4803	ND	3774	78.6		40 - 105
Naphthalene	4803	ND	3919	81.6		40 - 105
4-Nitroaniline	4803	ND	4214	87.7		35 - 115
3-Nitroaniline	4803	ND	3980	82.9		25 - 110
2-Nitroaniline	4803	ND	3662	76.2		45 - 120
Nitrobenzene	4803	ND	3572	74.4		40 - 115
4-Nitrophenol	4803	ND	3740	77.9		15 - 140
2-Nitrophenol	4803	ND	3765	78.4		40 - 110
N-Nitrosodiphenylamine	4803	ND	2748	57.2		50 - 115
N-Nitroso-di-n-propylamine	4803	ND	3785	78.8		40 - 115
Pentachlorophenol	4803	ND	4176	86.9		25 - 120
Phenanthrene	4803	ND	4225	88.0		50 - 110
Phenol	4803	ND	3750	78.1		40 - 100
Pyrene	4803	ND	4836	101		45 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H18012

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
1,2,4,5-Tetrachlorobenzene	4803	ND	3548	73.9		50 - 150
2,3,4,6-Tetrachlorophenol	4803	ND	3561	74.1		50 - 125
2,4,6-Trichlorophenol	4803	ND	3917	81.6		45 - 110
2,4,5-Trichlorophenol	4803	ND	3867	80.5		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H18012

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	4803	4030	83.9	0.244		30	45 - 110
Acenaphthylene	4803	3584	74.6	0.364		30	45 - 105
Acetophenone	4803	3965	82.6	0.837		30	35 - 110
Anthracene	4803	3931	81.9	0.0276		30	55 - 105
Atrazine	4803	3823	79.6	1.13		30	55 - 105
Benzaldehyde	4803	2770	57.7	23.6		30	10 - 160
Benzo(a)anthracene	4803	4427	92.2	0.278		30	50 - 110
Benzo(a)pyrene	4803	3898	81.2	0.278		30	50 - 110
Benzo(b)fluoranthene	4803	4663	97.1	7.29		30	45 - 115
Benzo(g,h,i)perylene	4803	4324	90.0	0.199		30	40 - 125
Benzo(k)fluoranthene	4803	4135	86.1	7.23		30	45 - 125
1,1-Biphenyl	4803	4284	89.2	0.429		30	45 - 110
4-Bromophenyl-phenylether	4803	4101	85.4	0.978		30	45 - 115
Butylbenzylphthalate	4803	5856	122	0.901		30	50 - 125
Caprolactam	4803	3729	77.6	5.81		30	50 - 110
Carbazole	4803	3793	79.0	0.321		30	45 - 115
4-Chloro-3-methylphenol	4803	3909	81.4	1.61		30	45 - 115
4-Chloroaniline	4803	3486	72.6	1.73		30	10 - 95
Bis(2-chloroethoxy)methane	4803	4059	84.5	1.17		30	45 - 110
Bis(2-chloroethyl)ether	4803	4080	84.9	1.49		30	40 - 105
2,2'-Oxybis-1-chloropropane	4803	3921	81.6	0.171		30	20 - 115
2-Chloronaphthalene	4803	4285	89.2	0.0706		30	45 - 105
2-Chlorophenol	4803	3846	80.1	0.462		30	45 - 105
4-Chlorophenyl phenyl ether	4803	4166	86.7	1.24		30	45 - 110
Chrysene	4803	4407	91.8	0.606		30	55 - 110
Dibenz(a,h)anthracene	4803	4495	93.6	0.452		30	40 - 125
Dibenzofuran	4803	4279	89.1	0.578		30	50 - 105
Di-n-butylphthalate	4803	4403	91.7	1.76		30	55 - 110
3,3'-Dichlorobenzidine	4803	4017	83.6	6.73		30	19 - 130
2,4-Dichlorophenol	4803	3814	79.4	1.77		30	45 - 110
Diethylphthalate	4803	4642	96.6	0.447		30	50 - 115
2,4-Dimethylphenol	4803	3536	73.6	3.73		30	30 - 105
Dimethyl phthalate	4803	4416	91.9	0.705		30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H18012

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
4,6-Dinitro-2-methylphenol	4803	4228	88.0	7.88		30	30 - 135
2,4-Dinitrophenol	4803	3005	62.6	21.4		30	15 - 130
2,4-Dinitrotoluene	4803	4391	91.4	2.29		30	50 - 115
2,6-Dinitrotoluene	4803	4203	87.5	3.22		30	50 - 110
Di-n-octylphthalate	4803	5754	120	0.569		30	40 - 130
Bis(2-ethylhexyl)phthalate	4803	5901	123	0.790		30	45 - 125
Fluoranthene	4803	3583	74.6	1.07		30	55 - 115
Fluorene	4803	4056	84.4	0.203		30	50 - 110
Hexachlorobenzene	4803	3912	81.4	0.385		30	45 - 120
Hexachlorobutadiene	4803	3871	80.6	0.316		30	30 - 110
Hexachlorocyclopentadiene	4803	2121	44.2	6.33		30	10 - 110
Hexachloroethane	4803	3734	77.8	2.60		30	35 - 110
Indeno(1,2,3-cd)pyrene	4803	4464	92.9	2.31		30	40 - 120
Isophorone	4803	3081	64.1	0.348		30	45 - 110
1-Methylnaphthalene	4803	3715	77.3	0.226		30	30 - 110
2-Methylnaphthalene	4803	3826	79.7	0.00376		30	40 - 110
2-Methylphenol	4803	3715	77.3	0.476		30	40 - 105
4-Methylphenol	4803	3788	78.9	0.367		30	40 - 105
Naphthalene	4803	3875	80.7	1.13		30	40 - 105
4-Nitroaniline	4803	4129	86.0	2.05		30	35 - 115
3-Nitroaniline	4803	3882	80.8	2.50		30	25 - 110
2-Nitroaniline	4803	3753	78.1	2.44		30	45 - 120
Nitrobenzene	4803	3572	74.4	0.00619		30	40 - 115
4-Nitrophenol	4803	3797	79.1	1.53		30	15 - 140
2-Nitrophenol	4803	3864	80.5	2.60		30	40 - 110
N-Nitrosodiphenylamine	4803	2807	58.4	2.11		30	50 - 115
N-Nitroso-di-n-propylamine	4803	3671	76.4	3.07		30	40 - 115
Pentachlorophenol	4803	4336	90.3	3.76		30	25 - 120
Phenanthrene	4803	4216	87.8	0.210		30	50 - 110
Phenol	4803	3747	78.0	0.0671		30	40 - 100
Pyrene	4803	4689	97.6	3.08		30	45 - 125
1,2,4,5-Tetrachlorobenzene	4803	3586	74.7	1.07		30	50 - 150
2,3,4,6-Tetrachlorophenol	4803	3641	75.8	2.23		30	50 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H18012

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4,6-Trichlorophenol	4803	4004	83.4	2.19		30	45 - 110
2,4,5-Trichlorophenol	4803	4017	83.6	3.81		30	50 - 110

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1H24307

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H24307-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/30/11 18:52			
1,4-Dichlorobenzene-d4	922135	7.521	473419	6.389	195	50 - 200	1.1320	+/-0.50	
Naphthalene-d8	3188219	9.155	1697246	8.029	188	50 - 200	1.1260	+/-0.50	
Acenaphthene-d10	1734206	11.367	970176	10.251	179	50 - 200	1.1160	+/-0.50	
Phenanthrene-d10	2771764	13.247	1609148	12.094	172	50 - 200	1.1530	+/-0.50	
Chrysene-d12	2481880	17.658	1722869	16.261	144	50 - 200	1.3970	+/-0.50	
Perylene-d12	2402012	20.575	1702026	19.012	141	50 - 200	1.5630	+/-0.50	
Calibration Check (1H24307-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/30/11 19:32			
1,4-Dichlorobenzene-d4	734730	7.502	922135	7.521	80	50 - 200	-0.0190	+/-0.50	
Naphthalene-d8	2699194	9.131	3188219	9.155	85	50 - 200	-0.0240	+/-0.50	
Acenaphthene-d10	1438128	11.342	1734206	11.367	83	50 - 200	-0.0250	+/-0.50	
Phenanthrene-d10	2340773	13.222	2771764	13.247	84	50 - 200	-0.0250	+/-0.50	
Chrysene-d12	2097832	17.618	2481880	17.658	85	50 - 200	-0.0400	+/-0.50	
Perylene-d12	2111857	20.534	2402012	20.575	88	50 - 200	-0.0410	+/-0.50	
Blank (1H18012-BLK1)			Lab File ID: H18012B1.D			Analyzed: 08/30/11 21:31			
1,4-Dichlorobenzene-d4	603498	7.5	922135	7.521	65	50 - 200	-0.0210	+/-0.50	
Naphthalene-d8	2219088	9.129	3188219	9.155	70	50 - 200	-0.0260	+/-0.50	
Acenaphthene-d10	1239750	11.34	1734206	11.367	71	50 - 200	-0.0270	+/-0.50	
Phenanthrene-d10	2031598	13.215	2771764	13.247	73	50 - 200	-0.0320	+/-0.50	
Chrysene-d12	1821605	17.611	2481880	17.658	73	50 - 200	-0.0470	+/-0.50	
Perylene-d12	1799661	20.522	2402012	20.575	75	50 - 200	-0.0530	+/-0.50	
LCS (1H18012-BS1)			Lab File ID: H18012L1.D			Analyzed: 08/30/11 23:29			
1,4-Dichlorobenzene-d4	564180	7.509	922135	7.521	61	50 - 200	-0.0120	+/-0.50	
Naphthalene-d8	2018914	9.138	3188219	9.155	63	50 - 200	-0.0170	+/-0.50	
Acenaphthene-d10	1120853	11.349	1734206	11.367	65	50 - 200	-0.0180	+/-0.50	
Phenanthrene-d10	1857714	13.224	2771764	13.247	67	50 - 200	-0.0230	+/-0.50	
Chrysene-d12	1649921	17.63	2481880	17.658	66	50 - 200	-0.0280	+/-0.50	
Perylene-d12	1551695	20.535	2402012	20.575	65	50 - 200	-0.0400	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I24413

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I24413-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/31/11 21:45			
1,4-Dichlorobenzene-d4	463177	7.486	473419	6.389	98	50 - 200	1.0970	+/-0.50	
Naphthalene-d8	1694720	9.115	1697246	8.029	100	50 - 200	1.0860	+/-0.50	
Acenaphthene-d10	906705	11.331	970176	10.251	93	50 - 200	1.0800	+/-0.50	
Phenanthrene-d10	1492138	13.206	1609148	12.094	93	50 - 200	1.1120	+/-0.50	
Chrysene-d12	1326779	17.607	1722869	16.261	77	50 - 200	1.3460	+/-0.50	
Perylene-d12	1256491	20.507	1702026	19.012	74	50 - 200	1.4950	+/-0.50	
Calibration Check (1I24413-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/31/11 22:26			
1,4-Dichlorobenzene-d4	639313	7.477	463177	7.486	138	50 - 200	-0.0090	+/-0.50	
Naphthalene-d8	2361369	9.106	1694720	9.115	139	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1279889	11.317	906705	11.331	141	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	2121980	13.192	1492138	13.206	142	50 - 200	-0.0140	+/-0.50	
Chrysene-d12	1918341	17.582	1326779	17.607	145	50 - 200	-0.0250	+/-0.50	
Perylene-d12	1889757	20.488	1256491	20.507	150	50 - 200	-0.0190	+/-0.50	
55SB04-0204D (1108171-26)			Lab File ID: 0817126.D			Analyzed: 09/01/11 03:18			
1,4-Dichlorobenzene-d4	395375	7.466	463177	7.486	85	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	1453249	9.095	1694720	9.115	86	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	830261	11.307	906705	11.331	92	50 - 200	-0.0240	+/-0.50	
Phenanthrene-d10	1347887	13.181	1492138	13.206	90	50 - 200	-0.0250	+/-0.50	
Chrysene-d12	1064849	17.566	1326779	17.607	80	50 - 200	-0.0410	+/-0.50	
Perylene-d12	1027708	20.472	1256491	20.507	82	50 - 200	-0.0350	+/-0.50	
55SS07-0X02 (1108171-28)			Lab File ID: 0817128.D			Analyzed: 09/01/11 04:00			
1,4-Dichlorobenzene-d4	706121	7.466	463177	7.486	152	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	2608494	9.095	1694720	9.115	154	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	1472350	11.307	906705	11.331	162	50 - 200	-0.0240	+/-0.50	
Phenanthrene-d10	2392842	13.181	1492138	13.206	160	50 - 200	-0.0250	+/-0.50	
Chrysene-d12	1847726	17.572	1326779	17.607	139	50 - 200	-0.0350	+/-0.50	
Perylene-d12	1792214	20.483	1256491	20.507	143	50 - 200	-0.0240	+/-0.50	
55SB07-0204 (1108171-29)			Lab File ID: 0817129.D			Analyzed: 09/01/11 04:40			
1,4-Dichlorobenzene-d4	264867	7.466	463177	7.486	57	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	969421	9.095	1694720	9.115	57	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	559980	11.306	906705	11.331	62	50 - 200	-0.0250	+/-0.50	
Phenanthrene-d10	934471	13.181	1492138	13.206	63	50 - 200	-0.0250	+/-0.50	
Chrysene-d12	739160	17.566	1326779	17.607	56	50 - 200	-0.0410	+/-0.50	
Perylene-d12	691701	20.466	1256491	20.507	55	50 - 200	-0.0410	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1124413

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
55SS09-0X02 (1108171-35)			Lab File ID: 0817135.D			Analyzed: 09/01/11 05:19			
1,4-Dichlorobenzene-d4	721513	7.472	463177	7.486	156	50 - 200	-0.0140	+/-0.50	
Naphthalene-d8	2664950	9.101	1694720	9.115	157	50 - 200	-0.0140	+/-0.50	
Acenaphthene-d10	1508411	11.312	906705	11.331	166	50 - 200	-0.0190	+/-0.50	
Phenanthrene-d10	2426132	13.187	1492138	13.206	163	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	1878856	17.583	1326779	17.607	142	50 - 200	-0.0240	+/-0.50	
Perylene-d12	1812740	20.494	1256491	20.507	144	50 - 200	-0.0130	+/-0.50	
Matrix Spike (1H18012-MS1)			Lab File ID: 0817135M.D			Analyzed: 09/01/11 05:59			
1,4-Dichlorobenzene-d4	472687	7.49	463177	7.486	102	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	1719047	9.119	1694720	9.115	101	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	943606	11.33	906705	11.331	104	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1545914	13.205	1492138	13.206	104	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1221557	17.606	1326779	17.607	92	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1156582	20.512	1256491	20.507	92	50 - 200	0.0050	+/-0.50	
Matrix Spike Dup (1H18012-MSD1)			Lab File ID: 0817135S.D			Analyzed: 09/01/11 06:38			
1,4-Dichlorobenzene-d4	800581	7.472	463177	7.486	173	50 - 200	-0.0140	+/-0.50	
Naphthalene-d8	2871483	9.101	1694720	9.115	169	50 - 200	-0.0140	+/-0.50	
Acenaphthene-d10	1573295	11.317	906705	11.331	174	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	2559032	13.192	1492138	13.206	172	50 - 200	-0.0140	+/-0.50	
Chrysene-d12	2052183	17.593	1326779	17.607	155	50 - 200	-0.0140	+/-0.50	
Perylene-d12	1948442	20.493	1256491	20.507	155	50 - 200	-0.0140	+/-0.50	
55SS03-0X02 (1108171-32)			Lab File ID: 0817132.D			Analyzed: 09/01/11 07:19			
1,4-Dichlorobenzene-d4	346456	7.482	463177	7.486	75	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1255442	9.111	1694720	9.115	74	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	739213	11.322	906705	11.331	82	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1198340	13.197	1492138	13.206	80	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	904038	17.587	1326779	17.607	68	50 - 200	-0.0200	+/-0.50	
Perylene-d12	868581	20.498	1256491	20.507	69	50 - 200	-0.0090	+/-0.50	
55SB03-0204 (1108171-33)			Lab File ID: 0817133.D			Analyzed: 09/01/11 07:59			
1,4-Dichlorobenzene-d4	647265	7.474	463177	7.486	140	50 - 200	-0.0120	+/-0.50	
Naphthalene-d8	2365182	9.103	1694720	9.115	140	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10	1364427	11.315	906705	11.331	150	50 - 200	-0.0160	+/-0.50	
Phenanthrene-d10	2190718	13.189	1492138	13.206	147	50 - 200	-0.0170	+/-0.50	
Chrysene-d12	1688837	17.58	1326779	17.607	127	50 - 200	-0.0270	+/-0.50	
Perylene-d12	1615693	20.496	1256491	20.507	129	50 - 200	-0.0110	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24512	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I24512-CCV1)			Lab File ID: SEQ-CCV3.D			Analyzed: 09/01/11 09:51			
1,4-Dichlorobenzene-d4	845530	7.479	473419	6.389	179	50 - 200	1.0900	+/-0.50	
Naphthalene-d8	2999495	9.114	1697246	8.029	177	50 - 200	1.0850	+/-0.50	
Acenaphthene-d10	1641983	11.325	970176	10.251	169	50 - 200	1.0740	+/-0.50	
Phenanthrene-d10	2714043	13.205	1609148	12.094	169	50 - 200	1.1110	+/-0.50	
Chrysene-d12	2359800	17.606	1722869	16.261	137	50 - 200	1.3450	+/-0.50	
Perylene-d12	2243259	20.512	1702026	19.012	132	50 - 200	1.5000	+/-0.50	
55SS07-000X (1108171-27)			Lab File ID: 0817127.D			Analyzed: 09/01/11 12:43			
1,4-Dichlorobenzene-d4	648176	7.472	845530	7.479	77	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2272797	9.101	2999495	9.114	76	50 - 200	-0.0130	+/-0.50	
Acenaphthene-d10	1259276	11.313	1641983	11.325	77	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	2096320	13.193	2714043	13.205	77	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1726461	17.583	2359800	17.606	73	50 - 200	-0.0230	+/-0.50	
Perylene-d12	1652210	20.494	2243259	20.512	74	50 - 200	-0.0180	+/-0.50	
55SS03-000X (1108171-30)			Lab File ID: 0817130.D			Analyzed: 09/01/11 13:27			
1,4-Dichlorobenzene-d4	488244	7.471	845530	7.479	58	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	1818408	9.1	2999495	9.114	61	50 - 200	-0.0140	+/-0.50	
Acenaphthene-d10	1025481	11.312	1641983	11.325	62	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	1607504	13.186	2714043	13.205	59	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	1285783	17.577	2359800	17.606	54	50 - 200	-0.0290	+/-0.50	
Perylene-d12	1207760	20.487	2243259	20.512	54	50 - 200	-0.0250	+/-0.50	
55SS03-000XD (1108171-31)			Lab File ID: 0817131.D			Analyzed: 09/01/11 14:14			
1,4-Dichlorobenzene-d4	603679	7.477	845530	7.479	71	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2222828	9.106	2999495	9.114	74	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1266169	11.317	1641983	11.325	77	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	1992956	13.192	2714043	13.205	73	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	1578494	17.588	2359800	17.606	67	50 - 200	-0.0180	+/-0.50	
Perylene-d12	1501029	20.504	2243259	20.512	67	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I24513

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I24513-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/01/11 23:11			
1,4-Dichlorobenzene-d4	517703	7.457	473419	6.389	109	50 - 200	1.0680	+/-0.50	
Naphthalene-d8	1885919	9.086	1697246	8.029	111	50 - 200	1.0570	+/-0.50	
Acenaphthene-d10	1048868	11.297	970176	10.251	108	50 - 200	1.0460	+/-0.50	
Phenanthrene-d10	1731963	13.172	1609148	12.094	108	50 - 200	1.0780	+/-0.50	
Chrysene-d12	1510682	17.562	1722869	16.261	88	50 - 200	1.3010	+/-0.50	
Perylene-d12	1402143	20.451	1702026	19.012	82	50 - 200	1.4390	+/-0.50	
Calibration Check (1I24513-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/01/11 23:55			
1,4-Dichlorobenzene-d4	721626	7.438	517703	7.457	139	50 - 200	-0.0190	+/-0.50	
Naphthalene-d8	2668181	9.067	1885919	9.086	141	50 - 200	-0.0190	+/-0.50	
Acenaphthene-d10	1491392	11.278	1048868	11.297	142	50 - 200	-0.0190	+/-0.50	
Phenanthrene-d10	2477101	13.153	1731963	13.172	143	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	2231239	17.527	1510682	17.562	148	50 - 200	-0.0350	+/-0.50	
Perylene-d12	2127763	20.422	1402143	20.451	152	50 - 200	-0.0290	+/-0.50	
55SB09-0204 (1108171-36)			Lab File ID: 0817136.D			Analyzed: 09/02/11 06:58			
1,4-Dichlorobenzene-d4	574417	7.44	517703	7.457	111	50 - 200	-0.0170	+/-0.50	
Naphthalene-d8	2131121	9.069	1885919	9.086	113	50 - 200	-0.0170	+/-0.50	
Acenaphthene-d10	1208188	11.275	1048868	11.297	115	50 - 200	-0.0220	+/-0.50	
Phenanthrene-d10	1981486	13.15	1731963	13.172	114	50 - 200	-0.0220	+/-0.50	
Chrysene-d12	1581799	17.524	1510682	17.562	105	50 - 200	-0.0380	+/-0.50	
Perylene-d12	1541990	20.419	1402143	20.451	110	50 - 200	-0.0320	+/-0.50	
55SS09-000X (1108171-34)			Lab File ID: 0817134.D			Analyzed: 09/02/11 07:40			
1,4-Dichlorobenzene-d4	293250	7.438	517703	7.457	57	50 - 200	-0.0190	+/-0.50	
Naphthalene-d8	1118109	9.062	1885919	9.086	59	50 - 200	-0.0240	+/-0.50	
Acenaphthene-d10	640373	11.273	1048868	11.297	61	50 - 200	-0.0240	+/-0.50	
Phenanthrene-d10	1020521	13.142	1731963	13.172	59	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	842146	17.517	1510682	17.562	56	50 - 200	-0.0450	+/-0.50	
Perylene-d12	780627	20.411	1402143	20.451	56	50 - 200	-0.0400	+/-0.50	
55SS04-000X (1108171-22)			Lab File ID: 0817122D.D			Analyzed: 09/02/11 09:05			
1,4-Dichlorobenzene-d4	463356	7.443	517703	7.457	90	50 - 200	-0.0140	+/-0.50	
Naphthalene-d8	1768964	9.072	1885919	9.086	94	50 - 200	-0.0140	+/-0.50	
Acenaphthene-d10	990778	11.283	1048868	11.297	94	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	1549846	13.158	1731963	13.172	89	50 - 200	-0.0140	+/-0.50	
Chrysene-d12	1233414	17.543	1510682	17.562	82	50 - 200	-0.0190	+/-0.50	
Perylene-d12	1151002	20.448	1402143	20.451	82	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1124513	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
55SS04-000XD (1108171-23)			Lab File ID: 0817123D.D			Analyzed: 09/02/11 09:48			
1,4-Dichlorobenzene-d4	334194	7.448	517703	7.457	65	50 - 200	-0.0090	+/-0.50	
Naphthalene-d8	1252156	9.077	1885919	9.086	66	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	704448	11.288	1048868	11.297	67	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1108609	13.163	1731963	13.172	64	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	869764	17.548	1510682	17.562	58	50 - 200	-0.0140	+/-0.50	
Perylene-d12	798427	20.453	1402143	20.451	57	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I24909

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I24909-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/04/11 18:26			
1,4-Dichlorobenzene-d4	473087	7.376	473419	6.389	100	50 - 200	0.9870	+/-0.50	
Naphthalene-d8	1680959	9.005	1697246	8.029	99	50 - 200	0.9760	+/-0.50	
Acenaphthene-d10	950482	11.222	970176	10.251	98	50 - 200	0.9710	+/-0.50	
Phenanthrene-d10	1605793	13.087	1609148	12.094	100	50 - 200	0.9930	+/-0.50	
Chrysene-d12	1406904	17.456	1722869	16.261	82	50 - 200	1.1950	+/-0.50	
Perylene-d12	1287406	20.325	1702026	19.012	76	50 - 200	1.3130	+/-0.50	
Calibration Check (1I24909-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/04/11 19:06			
1,4-Dichlorobenzene-d4	469313	7.371	473087	7.376	99	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1759868	9	1680959	9.005	105	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	958933	11.212	950482	11.222	101	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1596496	13.082	1605793	13.087	99	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1457702	17.435	1406904	17.456	104	50 - 200	-0.0210	+/-0.50	
Perylene-d12	1375871	20.31	1287406	20.325	107	50 - 200	-0.0150	+/-0.50	
55SB04-0204 (1108171-25)			Lab File ID: 0817125D.D			Analyzed: 09/05/11 02:34			
1,4-Dichlorobenzene-d4	352121	7.384	473087	7.376	74	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1336781	9.013	1680959	9.005	80	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	740623	11.22	950482	11.222	78	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1191869	13.089	1605793	13.087	74	50 - 200	0.0020	+/-0.50	
Chrysene-d12	930956	17.449	1406904	17.456	66	50 - 200	-0.0070	+/-0.50	
Perylene-d12	873636	20.328	1287406	20.325	68	50 - 200	0.0030	+/-0.50	
55SS04-0X02D (1108171-24)			Lab File ID: 0817124D.D			Analyzed: 09/05/11 03:14			
1,4-Dichlorobenzene-d4	432832	7.376	473087	7.376	91	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1645338	9.005	1680959	9.005	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	916094	11.212	950482	11.222	96	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1397768	13.081	1605793	13.087	87	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1144241	17.44	1406904	17.456	81	50 - 200	-0.0160	+/-0.50	
Perylene-d12	1019020	20.325	1287406	20.325	79	50 - 200	0.0000	+/-0.50	
55SS04-0X02 (1108171-38)			Lab File ID: 0817138D.D			Analyzed: 09/05/11 03:55			
1,4-Dichlorobenzene-d4	338391	7.376	473087	7.376	72	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1286922	9.005	1680959	9.005	77	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	746354	11.216	950482	11.222	79	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1133552	13.086	1605793	13.087	71	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	921745	17.445	1406904	17.456	66	50 - 200	-0.0110	+/-0.50	
Perylene-d12	850432	20.33	1287406	20.325	66	50 - 200	0.0050	+/-0.50	

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F16727-CAL2	004R0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL2	004F0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL3	005R0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL3	005F0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL5	007R0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL5	007F0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL6	008R0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL6	008F0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL1	011R1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL1	011F1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL4	012R1201.D	06/15/11 15:30
Cal Standard	1F16727-CAL4	012F1201.D	06/15/11 15:30
Initial Cal Check	1F16727-ICV1	013R1301.D	06/15/11 16:39
Initial Cal Check	1F16727-ICV1	013F1301.D	06/15/11 16:39

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004F0401.D	06/15/11 11:44
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004R0401.D	06/15/11 11:44
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005F0501.D	06/15/11 12:02
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005R0501.D	06/15/11 12:02
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007F0701.D	06/15/11 12:39
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007R0701.D	06/15/11 12:39
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008F0801.D	06/15/11 12:58
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008R0801.D	06/15/11 12:58
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011R1101.D	06/15/11 15:11
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011F1101.D	06/15/11 15:11
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012F1201.D	06/15/11 15:30
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012R1201.D	06/15/11 15:30

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	764.9617	3.701185	6.842333	6.993766E-02			20	
Aroclor-1016 (1)	1313.194	4.773023	6.562333	0.0600394			20	
Aroclor-1016 (2)	484.2716	4.936372	5.705667	6.027624E-02			20	
Aroclor-1016 (3)	727.4158	5.456124	6.0485	5.053442E-02			20	
Aroclor-1016 (4)	729.6346	4.647932	6.249	7.702264E-02			20	
Aroclor-1016 (5)	570.2921	8.613207	6.842333	6.993766E-02			20	
Aroclor-1016 [2C]	1023.566	12.66002	5.5265	0.2629682			20	
Aroclor-1016 (1) [2C]	1604.03	13.32639	5.290167	4.263819E-02			20	
Aroclor-1016 (2) [2C]	959.9071	12.85092	4.888	2.187117E-02			20	
Aroclor-1016 (3) [2C]	923.9359	12.79206	5.046833	2.947105E-02			20	
Aroclor-1016 (4) [2C]	828.7439	11.94865	5.432667	3.546654E-02			20	
Aroclor-1016 (5) [2C]	801.2113	12.26989	5.5265	0.2629682			20	
Aroclor-1221	347.4893	9.924338	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504849	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6893	17.28239	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47423	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30277	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481552	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172853	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648797	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397496	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.747	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38972	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02			20	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.816	19.04286	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2268.142	3.933859	10.9125	5.356125E-02			20	
Aroclor-1260 (1)	4311.523	4.013749	9.821833	5.898152E-02			20	
Aroclor-1260 (2)	1902.286	5.065316	8.709667	7.050999E-02			20	
Aroclor-1260 (3)	2253.205	6.033797	9.053333	6.367493E-02			20	
Aroclor-1260 (4)	1832.006	4.516835	9.151333	6.728445E-02			20	
Aroclor-1260 (5)	1041.689	2.952778	10.9125	5.356125E-02			20	
Aroclor-1260 [2C]	2343.645	10.71217	8.009833	0.0306845			20	
Aroclor-1260 (1) [2C]	3714.819	9.330505	8.009833	0.0306845			20	
Aroclor-1260 (2) [2C]	1817.694	13.27222	6.769333	2.786608E-02			20	
Aroclor-1260 (3) [2C]	2256.668	11.29824	7.008	3.544481E-02			20	
Aroclor-1260 (4) [2C]	2106.889	11.69539	7.351834	3.499818E-02			20	
Aroclor-1260 (5) [2C]	1822.153	9.927531	7.692	3.530716E-02			20	
Tetrachloro-m-xylene	34968.44	7.672347	5.178857	5.515361E-02			20	
Tetrachloro-m-xylene [2C]	26183.29	24.10909	4.215857	0.0134251		0.9982558	0.995	
Decachlorobiphenyl	41093.6	16.74027	11.268	1.798916E-02			20	
Decachlorobiphenyl [2C]	23977.95	27.90083	9.430857	1.242397E-02		0.9991183	0.995	

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	013F1301.D	Calibration Date:	08/18/11 00:00
Sequence:	1F16727	Injection Date:	06/15/11
Lab Sample ID:	1F16727-ICV1	Injection Time:	16:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1093	1313.194	1435.669		9.3	20
Aroclor-1016 (2)	A	1000	946.9	484.2716	458.546		-5.3	20
Aroclor-1016 (3)	A	1000	964.1	727.4158	701.277		-3.6	20
Aroclor-1016 (4)	A	1000	960.9	729.6346	701.106		-3.9	20
Aroclor-1016 (5)	A	1000	987.1	570.2921	562.947		-1.3	20
Aroclor-1016 (1) [2C]	A	1000	940.9	1604.03	1509.212		-5.9	20
Aroclor-1016 (2) [2C]	A	1000	923.3	959.9071	886.326		-7.7	20
Aroclor-1016 (3) [2C]	A	1000	937.4	923.9359	866.112		-6.3	20
Aroclor-1016 (4) [2C]	A	1000	920.5	828.7439	762.829		-8.0	20
Aroclor-1016 (5) [2C]	A	1000	913.8	801.2113	732.147		-8.6	20
Aroclor-1260 (1)	A	1000	1001	4311.523	4315.435		0.09	20
Aroclor-1260 (2)	A	1000	1053	1902.286	2003.529		5.3	20
Aroclor-1260 (3)	A	1000	1191	2253.205	2683.726		19.1	20
Aroclor-1260 (4)	A	1000	959.2	1832.006	1757.239		-4.1	20
Aroclor-1260 (5)	A	1000	1008	1041.689	1050.036		0.8	20
Aroclor-1260 (1) [2C]	A	1000	953.2	3714.819	3540.866		-4.7	20
Aroclor-1260 (2) [2C]	A	1000	915.4	1817.694	1663.944		-8.5	20
Aroclor-1260 (3) [2C]	A	1000	929.0	2256.668	2096.335		-7.1	20
Aroclor-1260 (4) [2C]	A	1000	1048	2106.889	2208.576		4.8	20
Aroclor-1260 (5) [2C]	A	1000	941.9	1822.153	1716.221		-5.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1G18809-CAL1	002R0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL1	002F0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL2	003R0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL2	003F0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL3	004R0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL3	004F0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL4	005R0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL4	005F0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL5	006R0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL5	006F0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL6	007R0701.D	07/06/11 15:04
Cal Standard	1G18809-CAL6	007F0701.D	07/06/11 15:04
Initial Cal Check	1G18809-ICV1	008R0801.D	07/06/11 15:22
Initial Cal Check	1G18809-ICV1	008F0801.D	07/06/11 15:22

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002F0201.D	07/06/11 13:30
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002R0201.D	07/06/11 13:30
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003F0301.D	07/06/11 13:49
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003R0301.D	07/06/11 13:49
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004F0401.D	07/06/11 14:08
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004R0401.D	07/06/11 14:08
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005F0501.D	07/06/11 14:26
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005R0501.D	07/06/11 14:26
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006F0601.D	07/06/11 14:45
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006R0601.D	07/06/11 14:45
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007F0701.D	07/06/11 15:04
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007R0701.D	07/06/11 15:04

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	008F0801.D	Calibration Date:	08/18/11 00:00
Sequence:	1G18809	Injection Date:	07/06/11
Lab Sample ID:	1G18809-ICV1	Injection Time:	15:22

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254 (1)	A	1000	847.5	2292.719	1943.092		-15.2	20
Aroclor-1254 (2)	A	1000	806.2	693.5489	559.125		-19.4	20
Aroclor-1254 (3)	A	1000	816.0	2066.051	1685.847		-18.4	20
Aroclor-1254 (4)	A	1000	870.5	1446.243	1258.97		-12.9	20
Aroclor-1254 (5)	A	1000	767.8	1997.279	1533.6		-23.2	20 *
Aroclor-1254 (1) [2C]	L	1000	956.5	1952.343	1656.136		-4.4	20
Aroclor-1254 (2) [2C]	L	1000	939.4	1830.507	1472.581		-6.1	20
Aroclor-1254 (3) [2C]	L	1000	932.5	1494.541	1201.666		-6.8	20
Aroclor-1254 (4) [2C]	L	1000	944.0	1378.73	1194.329		-5.6	20
Aroclor-1254 (5) [2C]	L	1000	948.5	1812.816	1594.369		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22603	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0164	PCB-1242 CAL1 (2500ppb)	1H22603-CAL7	020R2001.D	08/08/11 21:34
11H0164	PCB-1242 CAL1 (2500ppb)	1H22603-CAL7	020F2001.D	08/08/11 21:34
11H0165	PCB-1242 CAL2 (1000ppb)	1H22603-CAL8	021F2101.D	08/08/11 21:52
11H0165	PCB-1242 CAL2 (1000ppb)	1H22603-CAL8	021R2101.D	08/08/11 21:52
11H0166	PCB-1242 CAL3 (750ppb)	1H22603-CAL9	022F2201.D	08/08/11 22:11
11H0166	PCB-1242 CAL3 (750ppb)	1H22603-CAL9	022R2201.D	08/08/11 22:11
11H0167	PCB-1242 CAL4 (500ppb)	1H22603-CALA	023R2301.D	08/08/11 22:29
11H0167	PCB-1242 CAL4 (500ppb)	1H22603-CALA	023F2301.D	08/08/11 22:29
11H0168	PCB-1242 CAL5 (100ppb)	1H22603-CALB	024F2401.D	08/08/11 22:48
11H0168	PCB-1242 CAL5 (100ppb)	1H22603-CALB	024R2401.D	08/08/11 22:48
11H0169	PCB-1242 CAL6 (50ppb)	1H22603-CALC	025F2501.D	08/08/11 23:07
11H0169	PCB-1242 CAL6 (50ppb)	1H22603-CALC	025R2501.D	08/08/11 23:07

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22709	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0199	Aroclor 1221 CAL1 (2500ppb)	1H22709-CAL1	002F0101.D	08/10/11 19:35
11H0199	Aroclor 1221 CAL1 (2500ppb)	1H22709-CAL1	002R0101.D	08/10/11 19:35
11H0200	Aroclor 1221 CAL2 (1000ppb)	1H22709-CAL2	003F0201.D	08/10/11 19:53
11H0200	Aroclor 1221 CAL2 (1000ppb)	1H22709-CAL2	003R0201.D	08/10/11 19:53
11H0201	Aroclor 1221 CAL3 (750ppb)	1H22709-CAL3	004F0301.D	08/10/11 20:12
11H0201	Aroclor 1221 CAL3 (750ppb)	1H22709-CAL3	004R0301.D	08/10/11 20:12
11H0202	Aroclor 1221 CAL4 (500ppb)	1H22709-CAL4	005F0401.D	08/10/11 20:30
11H0202	Aroclor 1221 CAL4 (500ppb)	1H22709-CAL4	005R0401.D	08/10/11 20:30
11H0203	Aroclor 1221 CAL5 (100ppb)	1H22709-CAL5	006R0501.D	08/10/11 20:49
11H0203	Aroclor 1221 CAL5 (100ppb)	1H22709-CAL5	006F0501.D	08/10/11 20:49
11H0204	Aroclor 1221 CAL6 (50ppb)	1H22709-CAL6	007R0601.D	08/10/11 21:08
11H0204	Aroclor 1221 CAL6 (50ppb)	1H22709-CAL6	007F0601.D	08/10/11 21:08

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24021-CAL1	002R0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL1	002F0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL2	003R0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL2	003F0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL3	004R0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL3	004F0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL4	005R0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL4	005F0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL5	006R0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL5	006F0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL6	007R0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL6	007F0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL7	008R0801.D	08/18/11 13:38
Cal Standard	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002F0201.D	08/18/11 11:46
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002R0201.D	08/18/11 11:46
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003F0301.D	08/18/11 12:05
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003R0301.D	08/18/11 12:05
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004R0401.D	08/18/11 12:24
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004F0401.D	08/18/11 12:24
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005F0501.D	08/18/11 12:42
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005R0501.D	08/18/11 12:42
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006F0601.D	08/18/11 13:01
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006R0601.D	08/18/11 13:01
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007F0701.D	08/18/11 13:20
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007R0701.D	08/18/11 13:20
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008R0801.D	08/18/11 13:38
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008F0801.D	08/18/11 13:38

ANALYSIS SEQUENCE SUMMARY
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25601	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25601-CCV1	006R0601.D	08/22/11 17:33
Calibration Check	1I25601-CCV1	006F0601.D	08/22/11 17:33
Calibration Check	1I25601-CCV2	007R0701.D	08/22/11 17:51
Calibration Check	1I25601-CCV2	007F0701.D	08/22/11 17:51
Blank	1H15025-BLK1	008F0801.D	08/22/11 18:10
Blank	1H15025-BLK1	008R0801.D	08/22/11 18:10
LCS	1H15025-BS1	009F0901.D	08/22/11 18:29
LCS	1H15025-BS1	009R0901.D	08/22/11 18:29
55SB02-0406	1108171-21	014R1401.D	08/22/11 20:02
55SB02-0406	1108171-21	014F1401.D	08/22/11 20:02
55SS04-000X	1108171-22	015F1501.D	08/22/11 20:21
55SS04-000X	1108171-22	015R1501.D	08/22/11 20:21
55SS04-000XD	1108171-23	016F1601.D	08/22/11 20:39
55SS04-000XD	1108171-23	016R1601.D	08/22/11 20:39
55SS04-0X02D	1108171-24	017F1701.D	08/22/11 20:58
55SS04-0X02D	1108171-24	017R1701.D	08/22/11 20:58
55SB04-0204	1108171-25	018F1801.D	08/22/11 21:16
55SB04-0204	1108171-25	018R1801.D	08/22/11 21:16
55SB04-0204D	1108171-26	019R1901.D	08/22/11 21:35
55SB04-0204D	1108171-26	019F1901.D	08/22/11 21:35
55SS07-000X	1108171-27	020R2001.D	08/22/11 21:54
55SS07-000X	1108171-27	020F2001.D	08/22/11 21:54
55SS07-0X02	1108171-28	021R2101.D	08/22/11 22:13
55SS07-0X02	1108171-28	021F2101.D	08/22/11 22:13
55SB07-0204	1108171-29	022F2201.D	08/22/11 22:31
55SB07-0204	1108171-29	022R2201.D	08/22/11 22:31
55SS03-000X	1108171-30	023R2301.D	08/22/11 22:50
55SS03-000X	1108171-30	023F2301.D	08/22/11 22:50
Calibration Check	1I25601-CCV3	027R2701.D	08/23/11 00:05
Calibration Check	1I25601-CCV3	027F2701.D	08/23/11 00:05
Calibration Check	1I25601-CCV4	028R2801.D	08/23/11 00:23
Calibration Check	1I25601-CCV4	028F2801.D	08/23/11 00:23

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	006F0601.D	Calibration Date:	08/18/11 00:00
Sequence:	1125601	Injection Date:	08/22/11
Lab Sample ID:	1125601-CCV1	Injection Time:	17:33

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016 (1)	A	1000	1289	1313.194	1692.571		28.9	20	*
Aroclor-1016 (2)	A	1000	1105	484.2716	535.122		10.5	20	
Aroclor-1016 (3)	A	1000	1019	727.4158	740.967		1.9	20	
Aroclor-1016 (4)	A	1000	1095	729.6346	799.233		9.5	20	
Aroclor-1016 (5)	A	1000	1316	570.2921	750.599		31.6	20	*
Aroclor-1016 (1) [2C]	A	1000	597.3	1604.03	958.122		-40.3	20	*
Aroclor-1016 (2) [2C]	A	1000	570.7	959.9071	547.829		-42.9	20	*
Aroclor-1016 (3) [2C]	A	1000	586.7	923.9359	542.078		-41.3	20	*
Aroclor-1016 (4) [2C]	A	1000	589.3	828.7439	488.348		-41.1	20	*
Aroclor-1016 (5) [2C]	A	1000	612.5	801.2113	490.775		-38.7	20	*
Aroclor-1260 (1)	A	1000	1068	4311.523	4604.274		6.8	20	
Aroclor-1260 (2)	A	1000	1163	1902.286	2212.276		16.3	20	
Aroclor-1260 (3)	A	1000	1108	2253.205	2497.26		10.8	20	
Aroclor-1260 (4)	A	1000	977.5	1832.006	1790.783		-2.3	20	
Aroclor-1260 (5)	A	1000	1075	1041.689	1120.037		7.5	20	
Aroclor-1260 (1) [2C]	A	1000	583.9	3714.819	2169.185		-41.6	20	*
Aroclor-1260 (2) [2C]	A	1000	577.0	1817.694	1048.721		-42.3	20	*
Aroclor-1260 (3) [2C]	A	1000	568.3	2256.668	1282.555		-43.2	20	*
Aroclor-1260 (4) [2C]	A	1000	627.1	2106.889	1321.181		-37.3	20	*
Aroclor-1260 (5) [2C]	A	1000	601.9	1822.153	1096.762		-39.8	20	*
Tetrachloro-m-xylene	A	100.0	97.43	34968.44	34068.74		-2.6	20	
Tetrachloro-m-xylene [2C]	Q	100.0	94.66	26183.29	19981.48		-5.3	20	
Decachlorobiphenyl	A	100.0	86.84	41093.6	35686.77		-13.2	20	
Decachlorobiphenyl [2C]	Q	100.0	94.32	23977.95	17526.3		-5.7	20	

16.5

40.9

40.8

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	007F0701.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/22/11
Lab Sample ID:	1I25601-CCV2	Injection Time:	17:51

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1053	2292.719	2415.292		5.3	20
Aroclor-1254 (2)	A	1000	988.9	693.5489	685.88		-1.1	20
Aroclor-1254 (3)	A	1000	1069	2066.051	2209.233		6.9	20
Aroclor-1254 (4)	A	1000	1238	1446.243	1790.359		23.8	20 *
Aroclor-1254 (5)	A	1000	1033	1997.279	2063.472		3.3	20
Aroclor-1254 (1) [2C]	L	1000	803.1	1952.343	1402.576		-19.7	20
Aroclor-1254 (2) [2C]	L	1000	834.7	1830.507	1318.973		-16.5	20
Aroclor-1254 (3) [2C]	L	1000	797.6	1494.541	1038.715		-20.2	20 *
Aroclor-1254 (4) [2C]	L	1000	868.6	1378.73	1101.705		-13.1	20
Aroclor-1254 (5) [2C]	L	1000	715.7	1812.816	1202.822		-28.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	027F2701.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV3	Injection Time:	00:05

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1389	1313.194	1824.164		38.9	20 *
Aroclor-1016 (2)	A	1000	1204	484.2716	583.297		20.4	20 *
Aroclor-1016 (3)	A	1000	1085	727.4158	789.328		8.5	20
Aroclor-1016 (4)	A	1000	1125	729.6346	820.549		12.5	20
Aroclor-1016 (5)	A	1000	1432	570.2921	816.801		43.2	20 *
Aroclor-1016 (1) [2C]	A	1000	826.2	1604.03	1325.342		-17.4	20
Aroclor-1016 (2) [2C]	A	1000	848.1	959.9071	814.113		-15.2	20
Aroclor-1016 (3) [2C]	A	1000	807.6	923.9359	746.217		-19.2	20
Aroclor-1016 (4) [2C]	A	1000	864.2	828.7439	716.173		-13.6	20
Aroclor-1016 (5) [2C]	A	1000	914.6	801.2113	732.757		-8.5	20
Aroclor-1260 (1)	A	1000	1146	4311.523	4943.356		14.7	20
Aroclor-1260 (2)	A	1000	1269	1902.286	2413.767		26.9	20 *
Aroclor-1260 (3)	A	1000	1216	2253.205	2738.939		21.6	20 *
Aroclor-1260 (4)	A	1000	1052	1832.006	1927.479		5.2	20
Aroclor-1260 (5)	A	1000	1135	1041.689	1182.184		13.5	20
Aroclor-1260 (1) [2C]	A	1000	858.9	3714.819	3190.555		-14.1	20
Aroclor-1260 (2) [2C]	A	1000	849.7	1817.694	1544.482		-15.0	20
Aroclor-1260 (3) [2C]	A	1000	841.4	2256.668	1898.798		-15.9	20
Aroclor-1260 (4) [2C]	A	1000	940.8	2106.889	1982.235		-5.9	20
Aroclor-1260 (5) [2C]	A	1000	884.2	1822.153	1611.181		-11.6	20
Tetrachloro-m-xylene	A	100.0	103.4	34968.44	36144.32		3.4	20
Tetrachloro-m-xylene [2C]	Q	100.0	141.8	26183.29	27860.76		41.8	20 *
Decachlorobiphenyl	A	100.0	88.88	41093.6	36522.27		-11.1	20
Decachlorobiphenyl [2C]	Q	100.0	147.6	23977.95	24228.66		47.6	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	028F2801.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV4	Injection Time:	00:23

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1159	2292.719	2657.023		15.9	20
Aroclor-1254 (2)	A	1000	1110	693.5489	770.023		11.0	20
Aroclor-1254 (3)	A	1000	1176	2066.051	2430.905		17.7	20
Aroclor-1254 (4)	A	1000	1423	1446.243	2057.761		42.3	20 *
Aroclor-1254 (5)	A	1000	1135	1997.279	2266.48		13.5	20
Aroclor-1254 (1) [2C]	L	1000	1204	1952.343	2065.937		20.4	20 *
Aroclor-1254 (2) [2C]	L	1000	1271	1830.507	1958.406		27.1	20 *
Aroclor-1254 (3) [2C]	L	1000	1206	1494.541	1532.414		20.6	20 *
Aroclor-1254 (4) [2C]	L	1000	1322	1378.73	1659.589		32.2	20 *
Aroclor-1254 (5) [2C]	L	1000	1071	1812.816	1800.632		7.1	20

21.5

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Sequence: 1I25601

Calibration: 1240001

SDG: 1108171

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
55SS03-000XD	1108171-31	030R3001.D	08/23/11 01:01
55SS03-000XD	1108171-31	030F3001.D	08/23/11 01:01
55SS03-0X02	1108171-32	031R3101.D	08/23/11 01:19
55SS03-0X02	1108171-32	031F3101.D	08/23/11 01:19
55SB03-0204	1108171-33	032F3201.D	08/23/11 01:38
55SB03-0204	1108171-33	032R3201.D	08/23/11 01:38
55SS09-000X	1108171-34	033R3301.D	08/23/11 01:56
55SS09-000X	1108171-34	033F3301.D	08/23/11 01:56
55SS09-0X02	1108171-35	034R3401.D	08/23/11 02:15
55SS09-0X02	1108171-35	034F3401.D	08/23/11 02:15
55SS09-0X02	1H15025-MS1	035F3501.D	08/23/11 02:34
55SS09-0X02	1H15025-MS1	035R3501.D	08/23/11 02:34
55SS09-0X02	1H15025-MSD1	036R3601.D	08/23/11 02:53
55SS09-0X02	1H15025-MSD1	036F3601.D	08/23/11 02:53
55SB09-0204	1108171-36	037R3701.D	08/23/11 03:12
55SB09-0204	1108171-36	037F3701.D	08/23/11 03:12
Calibration Check	1I25601-CCV5	050F5001.D	08/23/11 07:15
Calibration Check	1I25601-CCV5	050R5001.D	08/23/11 07:15
Calibration Check	1I25601-CCV6	051R5101.D	08/23/11 07:33
Calibration Check	1I25601-CCV6	051F5101.D	08/23/11 07:33

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	050F5001.D	Calibration Date:	08/18/11 00:00
Sequence:	1125601	Injection Date:	08/23/11
Lab Sample ID:	1125601-CCV5	Injection Time:	07:15

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1436	1313.194	1885.637		43.6	20 *
Aroclor-1016 (2)	A	1000	1203	484.2716	582.41		20.3	20 *
Aroclor-1016 (3)	A	1000	1107	727.4158	805.564		10.7	20
Aroclor-1016 (4)	A	1000	1171	729.6346	854.586		17.1	20
Aroclor-1016 (5)	A	1000	1458	570.2921	831.587		45.8	20 *
Aroclor-1016 (1) [2C]	A	1000	837.6	1604.03	1343.613		-16.2	20
Aroclor-1016 (2) [2C]	A	1000	733.4	959.9071	704.024		-26.7	20 *
Aroclor-1016 (3) [2C]	A	1000	779.1	923.9359	719.838		-22.1	20 *
Aroclor-1016 (4) [2C]	A	1000	830.0	828.7439	687.834		-17.0	20
Aroclor-1016 (5) [2C]	A	1000	878.1	801.2113	703.564		-12.2	20
Aroclor-1260 (1)	A	1000	1173	4311.523	5059.538		17.3	20
Aroclor-1260 (2)	A	1000	1288	1902.286	2449.293		28.8	20 *
Aroclor-1260 (3)	A	1000	1233	2253.205	2779.3		23.3	20 *
Aroclor-1260 (4)	A	1000	1075	1832.006	1969.194		7.5	20
Aroclor-1260 (5)	A	1000	1174	1041.689	1222.686		17.4	20
Aroclor-1260 (1) [2C]	A	1000	820.9	3714.819	3049.672		-17.9	20
Aroclor-1260 (2) [2C]	A	1000	807.8	1817.694	1468.384		-19.2	20
Aroclor-1260 (3) [2C]	A	1000	802.5	2256.668	1811.003		-19.7	20
Aroclor-1260 (4) [2C]	A	1000	898.3	2106.889	1892.708		-10.2	20
Aroclor-1260 (5) [2C]	A	1000	843.7	1822.153	1537.389		-15.6	20
Tetrachloro-m-xylene	A	100.0	104.2	34968.44	36434.52		4.2	20
Tetrachloro-m-xylene [2C]	Q	100.0	133.9	26183.29	26596.75		33.9	20 *
Decachlorobiphenyl	A	100.0	92.96	41093.6	38198.85		-7.0	20
Decachlorobiphenyl [2C]	Q	100.0	144.8	23977.95	23905.11		44.8	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	051F5101.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV6	Injection Time:	07:33

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1182	2292.719	2709.284		18.2	20
Aroclor-1254 (2)	A	1000	1118	693.5489	775.234		11.8	20
Aroclor-1254 (3)	A	1000	1195	2066.051	2469.2		19.5	20
Aroclor-1254 (4)	A	1000	1502	1446.243	2172.194		50.2	20 *
Aroclor-1254 (5)	A	1000	1134	1997.279	2265.041		13.4	20
Aroclor-1254 (1) [2C]	L	1000	1144	1952.343	1965.75		14.4	20
Aroclor-1254 (2) [2C]	L	1000	1200	1830.507	1854.242		20.0	20
Aroclor-1254 (3) [2C]	L	1000	1139	1494.541	1450.663		13.9	20
Aroclor-1254 (4) [2C]	L	1000	1252	1378.73	1573.491		25.2	20 *
Aroclor-1254 (5) [2C]	L	1000	1013	1812.816	1702.617		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Sequence: 1I25810

Calibration: 1240001

SDG: 1108171

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25810-CCV1	006R0601.D	08/24/11 11:22
Calibration Check	1I25810-CCV1	006F0601.D	08/24/11 11:22
Calibration Check	1I25810-CCV2	007R0701.D	08/24/11 11:41
Calibration Check	1I25810-CCV2	007F0701.D	08/24/11 11:41
Blank	1H23517-BLK1	009F0901.D	08/24/11 12:18
Blank	1H23517-BLK1	009R0901.D	08/24/11 12:18
LCS	1H23517-BS1	010F1001.D	08/24/11 12:37
LCS	1H23517-BS1	010R1001.D	08/24/11 12:37
55SS04-0X02	1108171-38	013R1301.D	08/24/11 13:33
55SS04-0X02	1108171-38	013F1301.D	08/24/11 13:33
55SS04-0X02	1H23517-MS1	014R1401.D	08/24/11 13:51
55SS04-0X02	1H23517-MS1	014F1401.D	08/24/11 13:51
55SS04-0X02	1H23517-MSD1	015R1501.D	08/24/11 14:10
55SS04-0X02	1H23517-MSD1	015F1501.D	08/24/11 14:10
Calibration Check	1I25810-CCV3	019F1901.D	08/24/11 15:25
Calibration Check	1I25810-CCV3	019R1901.D	08/24/11 15:25
Calibration Check	1I25810-CCV4	020R2001.D	08/24/11 15:43
Calibration Check	1I25810-CCV4	020F2001.D	08/24/11 15:43

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	006F0601.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25810	Injection Date:	08/24/11
Lab Sample ID:	1I25810-CCV1	Injection Time:	11:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1194	1313.194	1568.137		19.4	20
Aroclor-1016 (2)	A	1000	1133	484.2716	548.88		13.3	20
Aroclor-1016 (3)	A	1000	1019	727.4158	740.993		1.9	20
Aroclor-1016 (4)	A	1000	1103	729.6346	804.504		10.3	20
Aroclor-1016 (5)	A	1000	1346	570.2921	767.6		34.6	20 *
Aroclor-1016 (1) [2C]	A	1000	815.1	1604.03	1307.433		-18.5	20
Aroclor-1016 (2) [2C]	A	1000	834.5	959.9071	801.023		-16.6	20
Aroclor-1016 (3) [2C]	A	1000	791.7	923.9359	731.482		-20.8	20 *
Aroclor-1016 (4) [2C]	A	1000	842.4	828.7439	698.137		-15.8	20
Aroclor-1016 (5) [2C]	A	1000	884.1	801.2113	708.356		-11.6	20
Aroclor-1260 (1)	A	1000	1068	4311.523	4606.431		6.8	20
Aroclor-1260 (2)	A	1000	1171	1902.286	2227.067		17.1	20
Aroclor-1260 (3)	A	1000	1144	2253.205	2577.524		14.4	20
Aroclor-1260 (4)	A	1000	995.4	1832.006	1823.58		-0.5	20
Aroclor-1260 (5)	A	1000	1123	1041.689	1170.253		12.3	20
Aroclor-1260 (1) [2C]	A	1000	849.1	3714.819	3154.263		-15.1	20
Aroclor-1260 (2) [2C]	A	1000	826.9	1817.694	1503.076		-17.3	20
Aroclor-1260 (3) [2C]	A	1000	820.2	2256.668	1850.834		-18.0	20
Aroclor-1260 (4) [2C]	A	1000	916.9	2106.889	1931.778		-8.3	20
Aroclor-1260 (5) [2C]	A	1000	868.9	1822.153	1583.246		-13.1	20
Tetrachloro-m-xylene	A	100.0	97.03	34968.44	33928.7		-3.0	20
Tetrachloro-m-xylene [2C]	Q	100.0	138.8	26183.29	27374.64		38.8	20 *
Decachlorobiphenyl	A	100.0	89.76	41093.6	36884.06		-10.2	20
Decachlorobiphenyl [2C]	Q	100.0	159.0	23977.95	25515.68		59.0	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	007F0701.D	Calibration Date:	08/18/11 00:00
Sequence:	1125810	Injection Date:	08/24/11
Lab Sample ID:	1125810-CCV2	Injection Time:	11:41

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1093	2292.719	2505.257		9.3	20
Aroclor-1254 (2)	A	1000	1028	693.5489	712.929		2.8	20
Aroclor-1254 (3)	A	1000	1103	2066.051	2279.67		10.3	20
Aroclor-1254 (4)	A	1000	1321	1446.243	1910.897		32.1	20 *
Aroclor-1254 (5)	A	1000	1067	1997.279	2131.983		6.7	20
Aroclor-1254 (1) [2C]	L	1000	1161	1952.343	1993.858		16.1	20
Aroclor-1254 (2) [2C]	L	1000	1216	1830.507	1878.624		21.6	20 *
Aroclor-1254 (3) [2C]	L	1000	1165	1494.541	1482.77		16.5	20
Aroclor-1254 (4) [2C]	L	1000	1275	1378.73	1601.727		27.5	20 *
Aroclor-1254 (5) [2C]	L	1000	1046	1812.816	1757.493		4.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	019F1901.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25810	Injection Date:	08/24/11
Lab Sample ID:	1I25810-CCV3	Injection Time:	15:25

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1377	1313.194	1808.645		37.7	20 *
Aroclor-1016 (2)	A	1000	1165	484.2716	564.078		16.5	20
Aroclor-1016 (3)	A	1000	1049	727.4158	762.788		4.9	20
Aroclor-1016 (4)	A	1000	1120	729.6346	817.114		12.0	20
Aroclor-1016 (5)	A	1000	1375	570.2921	784.365		37.5	20 *
Aroclor-1016 (1) [2C]	A	1000	862.0	1604.03	1382.636		-13.8	20
Aroclor-1016 (2) [2C]	A	1000	814.5	959.9071	781.806		-18.6	20
Aroclor-1016 (3) [2C]	A	1000	817.4	923.9359	755.238		-18.3	20
Aroclor-1016 (4) [2C]	A	1000	879.4	828.7439	728.76		-12.1	20
Aroclor-1016 (5) [2C]	A	1000	934.9	801.2113	749.053		-6.5	20
Aroclor-1260 (1)	A	1000	1102	4311.523	4752.828		10.2	20
Aroclor-1260 (2)	A	1000	1230	1902.286	2339.998		23.0	20 *
Aroclor-1260 (3)	A	1000	1172	2253.205	2641.666		17.2	20
Aroclor-1260 (4)	A	1000	1019	1832.006	1867.337		1.9	20
Aroclor-1260 (5)	A	1000	1142	1041.689	1189.325		14.2	20
Aroclor-1260 (1) [2C]	A	1000	880.8	3714.819	3272.024		-11.9	20
Aroclor-1260 (2) [2C]	A	1000	867.8	1817.694	1577.305		-13.2	20
Aroclor-1260 (3) [2C]	A	1000	859.6	2256.668	1939.756		-14.0	20
Aroclor-1260 (4) [2C]	A	1000	950.9	2106.889	2003.508		-4.9	20
Aroclor-1260 (5) [2C]	A	1000	904.4	1822.153	1647.934		-9.6	20
Tetrachloro-m-xylene	A	100.0	99.36	34968.44	34744.79		-0.6	20
Tetrachloro-m-xylene [2C]	Q	100.0	143.7	26183.29	28157.49		43.7	20 *
Decachlorobiphenyl	A	100.0	92.49	41093.6	38007.21		-7.5	20
Decachlorobiphenyl [2C]	Q	100.0	159.5	23977.95	25570.57		59.5	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	020F2001.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25810	Injection Date:	08/24/11
Lab Sample ID:	1I25810-CCV4	Injection Time:	15:43

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1106	2292.719	2537.069		10.7	20
Aroclor-1254 (2)	A	1000	1057	693.5489	732.814		5.7	20
Aroclor-1254 (3)	A	1000	1124	2066.051	2322.341		12.4	20
Aroclor-1254 (4)	A	1000	1364	1446.243	1973.46		36.5	20 *
Aroclor-1254 (5)	A	1000	1076	1997.279	2149.057		7.6	20
Aroclor-1254 (1) [2C]	L	1000	1218	1952.343	2089.118		21.8	20 *
Aroclor-1254 (2) [2C]	L	1000	1274	1830.507	1963.933		27.4	20 *
Aroclor-1254 (3) [2C]	L	1000	1227	1494.541	1557.594		22.7	20 *
Aroclor-1254 (4) [2C]	L	1000	1336	1378.73	1676.081		33.6	20 *
Aroclor-1254 (5) [2C]	L	1000	1073	1812.816	1803.219		7.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25814	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25814-CCV1	002F0201.D	08/26/11 15:16
Calibration Check	1I25814-CCV1	002R0201.D	08/26/11 15:16
Calibration Check	1I25814-CCV2	003F0301.D	08/26/11 15:35
Calibration Check	1I25814-CCV2	003R0301.D	08/26/11 15:35
Blank	1H15024-BLK1	004R0401.D	08/26/11 15:54
Blank	1H15024-BLK1	004F0401.D	08/26/11 15:54
LCS	1H15024-BS1	005R0501.D	08/26/11 16:12
LCS	1H15024-BS1	005F0501.D	08/26/11 16:12
55SS01-000X	1108171-01	008R0801.D	08/26/11 17:08
55SS01-000X	1108171-01	008F0801.D	08/26/11 17:08
55SS01-000X	1H15024-MS1	009R0901.D	08/26/11 17:27
55SS01-000X	1H15024-MS1	009F0901.D	08/26/11 17:27
55SS01-000X	1H15024-MSD1	010R1001.D	08/26/11 17:45
55SS01-000X	1H15024-MSD1	010F1001.D	08/26/11 17:45
55SS01-0X02	1108171-02	011F1101.D	08/26/11 18:04
55SS01-0X02	1108171-02	011R1101.D	08/26/11 18:04
55SB01-0204	1108171-03	012F1201.D	08/26/11 18:23
55SB01-0204	1108171-03	012R1201.D	08/26/11 18:23
55SS10-000X	1108171-04	013R1301.D	08/26/11 18:41
55SS10-000X	1108171-04	013F1301.D	08/26/11 18:41
55SS10-0X02	1108171-05	014R1401.D	08/26/11 19:00
55SS10-0X02	1108171-05	014F1401.D	08/26/11 19:00
55SB10-0204	1108171-06	015F1501.D	08/26/11 19:18
55SB10-0204	1108171-06	015R1501.D	08/26/11 19:18
55SS05-000X	1108171-07	016F1601.D	08/26/11 19:37
55SS05-000X	1108171-07	016R1601.D	08/26/11 19:37
55SS05-0X02	1108171-08	017R1701.D	08/26/11 19:56
55SS05-0X02	1108171-08	017F1701.D	08/26/11 19:56
55SB05-0204	1108171-09	018R1801.D	08/26/11 20:14
55SB05-0204	1108171-09	018F1801.D	08/26/11 20:14
55SB05-0406	1108171-10	019F1901.D	08/26/11 20:33
55SB05-0406	1108171-10	019R1901.D	08/26/11 20:33

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	002F0201.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25814	Injection Date:	08/26/11
Lab Sample ID:	1I25814-CCV1	Injection Time:	15:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1246	1313.194	1636.137		24.6	20 *
Aroclor-1016 (2)	A	1000	1112	484.2716	538.441		11.2	20
Aroclor-1016 (3)	A	1000	1004	727.4158	730.659		0.4	20
Aroclor-1016 (4)	A	1000	1086	729.6346	792.317		8.6	20
Aroclor-1016 (5)	A	1000	1326	570.2921	756.137		32.6	20 *
Aroclor-1016 (1) [2C]	A	1000	820.3	1604.03	1315.822		-18.0	20
Aroclor-1016 (2) [2C]	A	1000	829.8	959.9071	796.491		-17.0	20
Aroclor-1016 (3) [2C]	A	1000	795.1	923.9359	734.613		-20.5	20 *
Aroclor-1016 (4) [2C]	A	1000	815.9	828.7439	676.141		-18.4	20
Aroclor-1016 (5) [2C]	A	1000	848.7	801.2113	680.008		-15.1	20
Aroclor-1260 (1)	A	1000	1056	4311.523	4552.834		5.6	20
Aroclor-1260 (2)	A	1000	1174	1902.286	2234.205		17.4	20
Aroclor-1260 (3)	A	1000	1097	2253.205	2471.575		9.7	20
Aroclor-1260 (4)	A	1000	975.6	1832.006	1787.221		-2.4	20
Aroclor-1260 (5)	A	1000	1107	1041.689	1153.143		10.7	20
Aroclor-1260 (1) [2C]	A	1000	817.9	3714.819	3038.21		-18.2	20
Aroclor-1260 (2) [2C]	A	1000	791.2	1817.694	1438.267		-20.9	20 *
Aroclor-1260 (3) [2C]	A	1000	779.4	2256.668	1758.764		-22.1	20 *
Aroclor-1260 (4) [2C]	A	1000	838.0	2106.889	1765.537		-16.2	20
Aroclor-1260 (5) [2C]	A	1000	837.8	1822.153	1526.664		-16.2	20
Tetrachloro-m-xylene	A	100.0	95.21	34968.44	33294.19		-4.8	20
Tetrachloro-m-xylene [2C]	Q	100.0	134.8	26183.29	26734.38		34.8	20 *
Decachlorobiphenyl	A	100.0	89.35	41093.6	36718.45		-10.6	20
Decachlorobiphenyl [2C]	Q	100.0	151.8	23977.95	24708.98		51.8	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	003F0301.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25814	Injection Date:	08/26/11
Lab Sample ID:	1I25814-CCV2	Injection Time:	15:35

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1014	2292.719	2325.199		1.4	20
Aroclor-1254 (2)	A	1000	982.2	693.5489	681.183		-1.8	20
Aroclor-1254 (3)	A	1000	1036	2066.051	2140.392		3.6	20
Aroclor-1254 (4)	A	1000	1285	1446.243	1858.432		28.5	20 *
Aroclor-1254 (5)	A	1000	991.1	1997.279	1979.599		-0.9	20
Aroclor-1254 (1) [2C]	L	1000	1061	1952.343	1828.29		6.1	20
Aroclor-1254 (2) [2C]	L	1000	1102	1830.507	1710.901		10.2	20
Aroclor-1254 (3) [2C]	L	1000	1052	1494.541	1345.689		5.2	20
Aroclor-1254 (4) [2C]	L	1000	1134	1378.73	1428.61		13.4	20
Aroclor-1254 (5) [2C]	L	1000	927.0	1812.816	1558.174		-7.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25814	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25814-CCV3	020R2001.D	08/26/11 20:52
Calibration Check	1I25814-CCV3	020F2001.D	08/26/11 20:52
Calibration Check	1I25814-CCV4	021R2101.D	08/26/11 21:10
Calibration Check	1I25814-CCV4	021F2101.D	08/26/11 21:10
55SS06-000X	1108171-11	022R2201.D	08/26/11 21:29
55SS06-000X	1108171-11	022F2201.D	08/26/11 21:29
55SS06-0X02	1108171-12	023R2301.D	08/26/11 21:48
55SS06-0X02	1108171-12	023F2301.D	08/26/11 21:48
55SB06-0204	1108171-13	024F2401.D	08/26/11 22:07
55SB06-0204	1108171-13	024R2401.D	08/26/11 22:07
55SS08-000X	1108171-14	025F2501.D	08/26/11 22:25
55SS08-000X	1108171-14	025R2501.D	08/26/11 22:25
55SS08-0X02	1108171-15	026R2601.D	08/26/11 22:44
55SS08-0X02	1108171-15	026F2601.D	08/26/11 22:44
55SB08-0204	1108171-16	027R2701.D	08/26/11 23:03
55SB08-0204	1108171-16	027F2701.D	08/26/11 23:03
55SB08-0406	1108171-17	028R2801.D	08/26/11 23:21
55SB08-0406	1108171-17	028F2801.D	08/26/11 23:21
55SS02-000X	1108171-18	029F2901.D	08/26/11 23:40
55SS02-000X	1108171-18	029R2901.D	08/26/11 23:40
55SS02-0X02	1108171-19	030F3001.D	08/26/11 23:59
55SS02-0X02	1108171-19	030R3001.D	08/26/11 23:59
55SB02-0204	1108171-20	031R3101.D	08/27/11 00:17
55SB02-0204	1108171-20	031F3101.D	08/27/11 00:17
Calibration Check	1I25814-CCV5	033F3301.D	08/29/11 15:51
Calibration Check	1I25814-CCV5	033R3301.D	08/29/11 15:51
Calibration Check	1I25814-CCV6	034R3401.D	08/29/11 16:10
Calibration Check	1I25814-CCV6	034F3401.D	08/29/11 16:10

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	020F2001.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25814	Injection Date:	08/26/11
Lab Sample ID:	1I25814-CCV3	Injection Time:	20:52

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1404	1313.194	1843.153		40.4	20 *
Aroclor-1016 (2)	A	1000	1187	484.2716	575.046		18.7	20
Aroclor-1016 (3)	A	1000	1073	727.4158	780.581		7.3	20
Aroclor-1016 (4)	A	1000	1104	729.6346	805.312		10.4	20
Aroclor-1016 (5)	A	1000	1384	570.2921	789.363		38.4	20 *
Aroclor-1016 (1) [2C]	A	1000	835.2	1604.03	1339.749		-16.5	20
Aroclor-1016 (2) [2C]	A	1000	828.0	959.9071	794.816		-17.2	20
Aroclor-1016 (3) [2C]	A	1000	823.5	923.9359	760.875		-17.6	20
Aroclor-1016 (4) [2C]	A	1000	848.6	828.7439	703.269		-15.1	20
Aroclor-1016 (5) [2C]	A	1000	893.1	801.2113	715.563		-10.7	20
Aroclor-1260 (1)	A	1000	1110	4311.523	4785.818		11.0	20
Aroclor-1260 (2)	A	1000	1224	1902.286	2329.403		22.5	20 *
Aroclor-1260 (3)	A	1000	1164	2253.205	2623.941		16.5	20
Aroclor-1260 (4)	A	1000	1011	1832.006	1851.608		1.1	20
Aroclor-1260 (5)	A	1000	1140	1041.689	1187.907		14.0	20
Aroclor-1260 (1) [2C]	A	1000	841.2	3714.819	3124.753		-15.9	20
Aroclor-1260 (2) [2C]	A	1000	818.4	1817.694	1487.546		-18.2	20
Aroclor-1260 (3) [2C]	A	1000	806.0	2256.668	1818.822		-19.4	20
Aroclor-1260 (4) [2C]	A	1000	885.5	2106.889	1865.74		-11.4	20
Aroclor-1260 (5) [2C]	A	1000	859.5	1822.153	1566.206		-14.0	20
Tetrachloro-m-xylene	A	100.0	101.8	34968.44	35584.86		1.8	20
Tetrachloro-m-xylene [2C]	Q	100.0	145.0	26183.29	28366.92		45.0	20 *
Decachlorobiphenyl	A	100.0	90.70	41093.6	37271.34		-9.3	20
Decachlorobiphenyl [2C]	Q	100.0	154.2	23977.95	24976.45		54.2	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	021F2101.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25814	Injection Date:	08/26/11
Lab Sample ID:	1I25814-CCV4	Injection Time:	21:10

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1125	2292.719	2579.058		12.5	20
Aroclor-1254 (2)	A	1000	1065	693.5489	738.682		6.5	20
Aroclor-1254 (3)	A	1000	1138	2066.051	2352.393		13.9	20
Aroclor-1254 (4)	A	1000	1445	1446.243	2089.335		44.5	20 *
Aroclor-1254 (5)	A	1000	1100	1997.279	2197.278		10.0	20
Aroclor-1254 (1) [2C]	L	1000	1162	1952.343	1995.53		16.2	20
Aroclor-1254 (2) [2C]	L	1000	1208	1830.507	1865.922		20.8	20 *
Aroclor-1254 (3) [2C]	L	1000	1153	1494.541	1467.724		15.3	20
Aroclor-1254 (4) [2C]	L	1000	1260	1378.73	1583.315		26.0	20 *
Aroclor-1254 (5) [2C]	L	1000	1023	1812.816	1719.634		2.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	033F3301.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25814	Injection Date:	08/29/11
Lab Sample ID:	1I25814-CCV5	Injection Time:	15:51

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1230	1313.194	1615.904		23.1	20 *
Aroclor-1016 (2)	A	1000	1090	484.2716	528.105		9.1	20
Aroclor-1016 (3)	A	1000	1017	727.4158	739.573		1.7	20
Aroclor-1016 (4)	A	1000	1047	729.6346	763.895		4.7	20
Aroclor-1016 (5)	A	1000	1299	570.2921	740.846		29.9	20 *
Aroclor-1016 (1) [2C]	A	1000	1026	1604.03	1646.055		2.6	20
Aroclor-1016 (2) [2C]	A	1000	1016	959.9071	975.831		1.7	20
Aroclor-1016 (3) [2C]	A	1000	1001	923.9359	925.14		0.1	20
Aroclor-1016 (4) [2C]	A	1000	1005	828.7439	833.106		0.5	20
Aroclor-1016 (5) [2C]	A	1000	1086	801.2113	870.487		8.6	20
Aroclor-1260 (1)	A	1000	1085	4311.523	4677.515		8.5	20
Aroclor-1260 (2)	A	1000	1187	1902.286	2258.033		18.7	20
Aroclor-1260 (3)	A	1000	1128	2253.205	2542.157		12.8	20
Aroclor-1260 (4)	A	1000	966.4	1832.006	1770.507		-3.4	20
Aroclor-1260 (5)	A	1000	1114	1041.689	1160.005		11.4	20
Aroclor-1260 (1) [2C]	A	1000	879.2	3714.819	3265.962		-12.1	20
Aroclor-1260 (2) [2C]	A	1000	958.1	1817.694	1741.547		-4.2	20
Aroclor-1260 (3) [2C]	A	1000	919.0	2256.668	2073.814		-8.1	20
Aroclor-1260 (4) [2C]	A	1000	862.6	2106.889	1817.309		-13.7	20
Aroclor-1260 (5) [2C]	A	1000	921.3	1822.153	1678.721		-7.9	20
Tetrachloro-m-xylene	A	100.0	95.70	34968.44	33463.68		-4.3	20
Tetrachloro-m-xylene [2C]	Q	100.0	183.7	26183.29	34216.09		83.7	20 *
Decachlorobiphenyl	A	100.0	88.78	41093.6	36485.04		-11.2	20
Decachlorobiphenyl [2C]	Q	100.0	165.4	23977.95	26223.09		65.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	034F3401.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25814	Injection Date:	08/29/11
Lab Sample ID:	1I25814-CCV6	Injection Time:	16:10

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1064	2292.719	2439.456		6.4	20
Aroclor-1254 (2)	A	1000	1023	693.5489	709.825		2.3	20
Aroclor-1254 (3)	A	1000	1085	2066.051	2242.459		8.5	20
Aroclor-1254 (4)	A	1000	1364	1446.243	1973.243		36.4	20 *
Aroclor-1254 (5)	A	1000	1035	1997.279	2067.833		3.5	20
Aroclor-1254 (1) [2C]	L	1000	1370	1952.343	2339.355		37.0	20 *
Aroclor-1254 (2) [2C]	L	1000	1440	1830.507	2207.214		44.0	20 *
Aroclor-1254 (3) [2C]	L	1000	1376	1494.541	1737.079		37.6	20 *
Aroclor-1254 (4) [2C]	L	1000	1486	1378.73	1861.102		48.6	20 *
Aroclor-1254 (5) [2C]	L	1000	1219	1812.816	2048.688		21.9	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H15024 Batch Matrix: Solid Preparation: 3546 Microwave

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SS01-000X	1108171-01	08/25/11 09:30	15.00	5.00
55SS01-0X02	1108171-02	08/25/11 09:30	15.60	5.00
55SB01-0204	1108171-03	08/25/11 09:30	15.60	5.00
55SS10-000X	1108171-04	08/25/11 09:30	15.00	5.00
55SS10-0X02	1108171-05	08/25/11 09:30	15.70	5.00
55SB10-0204	1108171-06	08/25/11 09:30	15.70	5.00
55SS05-000X	1108171-07	08/25/11 09:30	15.20	5.00
55SS05-0X02	1108171-08	08/25/11 09:30	15.30	5.00
55SB05-0204	1108171-09	08/25/11 09:30	15.70	5.00
55SB05-0406	1108171-10	08/25/11 09:30	15.50	5.00
55SS06-000X	1108171-11	08/25/11 09:30	15.60	5.00
55SS06-0X02	1108171-12	08/25/11 09:30	15.20	5.00
55SB06-0204	1108171-13	08/25/11 09:30	15.00	5.00
55SS08-000X	1108171-14	08/25/11 09:30	15.80	5.00
55SS08-0X02	1108171-15	08/25/11 09:30	15.20	5.00
55SB08-0204	1108171-16	08/25/11 09:30	15.10	5.00
55SB08-0406	1108171-17	08/25/11 09:30	15.10	5.00
55SS02-000X	1108171-18	08/25/11 09:30	15.30	5.00
55SS02-0X02	1108171-19	08/25/11 09:30	15.10	5.00
55SB02-0204	1108171-20	08/25/11 09:30	15.50	5.00
Blank	1H15024-BLK1	08/25/11 09:30	15.00	5.00
LCS	1H15024-BS1	08/25/11 09:30	15.00	5.00
55SS01-000X	1H15024-MS1	08/25/11 09:30	15.40	5.00
55SS01-000X	1H15024-MSD1	08/25/11 09:30	15.35	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H15024-BLK1	File ID:	004R0401.D
Sampled:		Prepared:	08/25/11 09:30	Analyzed:	08/26/11 15:54
Solids:		Preparation:	3546_Microwave	Dilution:	

Batch: 1H15024 Sequence: 1I25814 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg wet)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.20	8.33	17.0	U
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	U
11096-82-5	Aroclor-1260		4.20	8.33	17.0	U
37324-23-5	Aroclor-1262		4.20	8.33	17.0	U
11100-14-4	Aroclor-1268		4.20	8.33	17.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	33.33	29.00	87.0	70 - 125	
Tetrachloro-m-xylene [2C]	33.33	40.48	121	70 - 125	
Decachlorobiphenyl	33.33	27.01	81.0	60 - 125	
Decachlorobiphenyl [2C]	33.33	44.58	134	60 - 125	*

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Batch: 1H15025 Batch Matrix: Solid

Preparation: 3546_Microwave

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SB02-0406	1108171-21	08/19/11 14:09	15.50	5.00
55SS04-000X	1108171-22	08/19/11 14:09	15.20	5.00
55SS04-000XD	1108171-23	08/19/11 14:09	15.30	5.00
55SS04-0X02D	1108171-24	08/19/11 14:09	15.30	5.00
55SB04-0204	1108171-25	08/19/11 14:09	15.20	5.00
55SB04-0204D	1108171-26	08/19/11 14:09	15.20	5.00
55SS07-000X	1108171-27	08/19/11 14:09	15.20	5.00
55SS07-0X02	1108171-28	08/19/11 14:09	15.70	5.00
55SB07-0204	1108171-29	08/19/11 14:09	15.10	5.00
55SS03-000X	1108171-30	08/19/11 14:09	15.20	5.00
55SS03-000XD	1108171-31	08/19/11 14:09	15.20	5.00
55SS03-0X02	1108171-32	08/19/11 14:09	15.60	5.00
55SB03-0204	1108171-33	08/19/11 14:09	15.20	5.00
55SS09-000X	1108171-34	08/19/11 14:09	15.10	5.00
55SS09-0X02	1108171-35	08/19/11 14:09	15.10	5.00
55SB09-0204	1108171-36	08/19/11 14:09	15.00	5.00
Blank	1H15025-BLK1	08/19/11 14:09	15.00	5.00
LCS	1H15025-BS1	08/19/11 14:09	15.00	5.00
55SS09-0X02	1H15025-MS1	08/19/11 14:09	15.50	5.00
55SS09-0X02	1H15025-MSD1	08/19/11 14:09	15.20	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H15025-BLK1	File ID:	008F0801.D
Sampled:		Prepared:	08/19/11 14:09	Analyzed:	08/22/11 18:10
Solids:		Preparation:	3546_Microwave	Dilution:	

Batch: 1H15025 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg wet)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.20	8.33	17.0	U
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	UX
11096-82-5	Aroclor-1260		4.20	8.33	17.0	U
37324-23-5	Aroclor-1262		4.20	8.33	17.0	U
11100-14-4	Aroclor-1268		4.20	8.33	17.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.67	13.19	79.2	70 - 125	
Tetrachloro-m-xylene [2C]	16.67	12.75	76.5	70 - 125	X
Decachlorobiphenyl	16.67	12.33	74.0	60 - 125	
Decachlorobiphenyl [2C]	16.67	12.20	73.2	60 - 125	X

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Batch: 1H23517 Batch Matrix: Solid

Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SS04-0X02	1108171-38	08/23/11 14:24	15.40	5.00
Blank	1H23517-BLK1	08/23/11 14:24	15.00	5.00
LCS	1H23517-BS1	08/23/11 14:24	15.00	5.00
55SS04-0X02	1H23517-MS1	08/23/11 14:24	15.00	5.00
55SS04-0X02	1H23517-MSD1	08/23/11 14:24	15.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H23517-BLK1	File ID:	009F0901.D
Sampled:		Prepared:	08/23/11 14:24	Analyzed:	08/24/11 12:18
Solids:		Preparation:	EXT_3546	Dilution:	

Batch: 1H23517 Sequence: 1I25810 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg wet)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.20	8.33	17.0	U
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	U
11096-82-5	Aroclor-1260		4.20	8.33	17.0	U
37324-23-5	Aroclor-1262		4.20	8.33	17.0	U
11100-14-4	Aroclor-1268		4.20	8.33	17.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.67	13.31	79.9	70 - 125	
Tetrachloro-m-xylene [2C]	16.67	17.82	107	70 - 125	X
Decachlorobiphenyl	16.67	13.18	79.1	60 - 125	
Decachlorobiphenyl [2C]	16.67	18.95	114	60 - 125	X

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25601

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25601-CCV1) ug/L				Lab File ID: 006F0601.D		Analyzed: 08/22/11 17:33		
Tetrachloro-m-xylene	100.0	97.4	80 - 120	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	94.7	80 - 120	4.153	4.153	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	86.8	80 - 120	11.14	11.14	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	94.3	80 - 120	9.321	9.321	0.0000	+/-0.030	
Blank (1H15025-BLK1) ug/Kg wet				Lab File ID: 008F0801.D		Analyzed: 08/22/11 18:10		
Tetrachloro-m-xylene	16.67	79.2	70 - 125	5.093	5.09	0.0030	+/-0.030	
Tetrachloro-m-xylene [2C]	16.67	76.5	70 - 125	4.152	4.153	-0.0010	+/-0.030	
Decachlorobiphenyl	16.67	74.0	60 - 125	11.14	11.14	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	16.67	73.2	60 - 125	9.322	9.321	0.0010	+/-0.030	
LCS (1H15025-BS1) ug/Kg wet				Lab File ID: 009F0901.D		Analyzed: 08/22/11 18:29		
Tetrachloro-m-xylene	16.67	82.7	70 - 125	5.093	5.09	0.0030	+/-0.030	
Tetrachloro-m-xylene [2C]	16.67	83.5	70 - 125	4.152	4.153	-0.0010	+/-0.030	
Decachlorobiphenyl	16.67	77.4	60 - 125	11.139	11.14	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	16.67	79.9	60 - 125	9.32	9.321	-0.0010	+/-0.030	
55SB02-0406 (1108171-21) ug/Kg dry				Lab File ID: 014F1401.D		Analyzed: 08/22/11 20:02		
Tetrachloro-m-xylene	20.34	55.5	70 - 125	5.09	5.09	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	20.34	58.8	70 - 125	4.152	4.153	-0.0010	+/-0.030	*
Decachlorobiphenyl	20.34	40.6	60 - 125	11.136	11.14	-0.0040	+/-0.030	*
Decachlorobiphenyl [2C]	20.34	42.2	60 - 125	9.319	9.321	-0.0020	+/-0.030	*
55SS04-000X (1108171-22) ug/Kg dry				Lab File ID: 015F1501.D		Analyzed: 08/22/11 20:21		
Tetrachloro-m-xylene	22.53	49.3	70 - 125	5.088	5.09	-0.0020	+/-0.030	*
Tetrachloro-m-xylene [2C]	22.53	51.0	70 - 125	4.152	4.153	-0.0010	+/-0.030	*
Decachlorobiphenyl	22.53	46.2	60 - 125	11.139	11.14	-0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	22.53	31.8	60 - 125	9.319	9.321	-0.0020	+/-0.030	*
55SS04-000XD (1108171-23) ug/Kg dry				Lab File ID: 016F1601.D		Analyzed: 08/22/11 20:39		
Tetrachloro-m-xylene	25.02	43.2	70 - 125	5.089	5.09	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	25.02	46.5	70 - 125	4.152	4.153	-0.0010	+/-0.030	*
Decachlorobiphenyl	25.02	45.5	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	25.02	33.4	60 - 125	9.32	9.321	-0.0010	+/-0.030	*
55SS04-0X02D (1108171-24) ug/Kg dry				Lab File ID: 017F1701.D		Analyzed: 08/22/11 20:58		
Tetrachloro-m-xylene	23.90	48.2	70 - 125	5.087	5.09	-0.0030	+/-0.030	*
Tetrachloro-m-xylene [2C]	23.90	52.9	70 - 125	4.151	4.153	-0.0020	+/-0.030	*
Decachlorobiphenyl	23.90	39.7	60 - 125	11.139	11.14	-0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	23.90	28.9	60 - 125	9.32	9.321	-0.0010	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25601	Instrument:	GL-ECD3
		Calibration:	1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SB04-0204 (1108171-25) ug/Kg dry				Lab File ID: 018F1801.D		Analyzed: 08/22/11 21:16		
Tetrachloro-m-xylene	17.03	51.2	70 - 125	5.087	5.09	-0.0030	+/-0.030	*
Tetrachloro-m-xylene [2C]	17.03	54.7	70 - 125	4.151	4.153	-0.0020	+/-0.030	*
Decachlorobiphenyl	17.03	45.3	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	17.03	32.2	60 - 125	9.318	9.321	-0.0030	+/-0.030	*
55SB04-0204D (1108171-26) ug/Kg dry				Lab File ID: 019F1901.D		Analyzed: 08/22/11 21:35		
Tetrachloro-m-xylene	20.35	70.9	70 - 125	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	20.35	86.5	70 - 125	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	20.35	52.7	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	20.35	59.9	60 - 125	9.318	9.321	-0.0030	+/-0.030	*
55SS07-000X (1108171-27) ug/Kg dry				Lab File ID: 020F2001.D		Analyzed: 08/22/11 21:54		
Tetrachloro-m-xylene	19.74	58.4	70 - 125	5.088	5.09	-0.0020	+/-0.030	*
Tetrachloro-m-xylene [2C]	19.74	69.2	70 - 125	4.151	4.153	-0.0020	+/-0.030	*
Decachlorobiphenyl	19.74	51.2	60 - 125	11.138	11.14	-0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	19.74	54.8	60 - 125	9.319	9.321	-0.0020	+/-0.030	*
55SS07-0X02 (1108171-28) ug/Kg dry				Lab File ID: 021F2101.D		Analyzed: 08/22/11 22:13		
Tetrachloro-m-xylene	20.53	46.5	70 - 125	5.09	5.09	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	20.53	56.9	70 - 125	4.151	4.153	-0.0020	+/-0.030	*
Decachlorobiphenyl	20.53	36.1	60 - 125	11.136	11.14	-0.0040	+/-0.030	*
Decachlorobiphenyl [2C]	20.53	41.8	60 - 125	9.317	9.321	-0.0040	+/-0.030	*
55SB07-0204 (1108171-29) ug/Kg dry				Lab File ID: 022F2201.D		Analyzed: 08/22/11 22:31		
Tetrachloro-m-xylene	20.54	39.0	70 - 125	5.091	5.09	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	20.54	46.7	70 - 125	4.152	4.153	-0.0010	+/-0.030	*
Decachlorobiphenyl	20.54	27.6	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	20.54	32.0	60 - 125	9.318	9.321	-0.0030	+/-0.030	*
55SS03-000X (1108171-30) ug/Kg dry				Lab File ID: 023F2301.D		Analyzed: 08/22/11 22:50		
Tetrachloro-m-xylene	19.40	65.8	70 - 125	5.089	5.09	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	19.40	77.9	70 - 125	4.152	4.153	-0.0010	+/-0.030	
Decachlorobiphenyl	19.40	54.1	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	19.40	65.3	60 - 125	9.317	9.321	-0.0040	+/-0.030	
Calibration Check (1I25601-CCV3) ug/L				Lab File ID: 027F2701.D		Analyzed: 08/23/11 00:05		
Tetrachloro-m-xylene	100.0	103	80 - 120	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	142	80 - 120	4.152	4.153	-0.0010	+/-0.030	*
Decachlorobiphenyl	100.0	88.9	80 - 120	11.138	11.14	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	148	80 - 120	9.319	9.321	-0.0020	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1125601

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SS03-000XD (1108171-31) ug/Kg dry				Lab File ID: 030F3001.D		Analyzed: 08/23/11 01:01		
Tetrachloro-m-xylene	19.50	58.1	70 - 125	5.089	5.09	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	19.50	70.3	70 - 125	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	19.50	49.9	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	19.50	60.4	60 - 125	9.318	9.321	-0.0030	+/-0.030	
55SS03-0X02 (1108171-32) ug/Kg dry				Lab File ID: 031F3101.D		Analyzed: 08/23/11 01:19		
Tetrachloro-m-xylene	21.66	56.7	70 - 125	5.089	5.09	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	21.66	72.3	70 - 125	4.153	4.153	0.0000	+/-0.030	
Decachlorobiphenyl	21.66	39.1	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	21.66	48.6	60 - 125	9.318	9.321	-0.0030	+/-0.030	*
55SB03-0204 (1108171-33) ug/Kg dry				Lab File ID: 032F3201.D		Analyzed: 08/23/11 01:38		
Tetrachloro-m-xylene	23.08	53.8	70 - 125	5.089	5.09	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	23.08	68.7	70 - 125	4.153	4.153	0.0000	+/-0.030	*
Decachlorobiphenyl	23.08	41.3	60 - 125	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	23.08	51.6	60 - 125	9.32	9.321	-0.0010	+/-0.030	*
55SS09-000X (1108171-34) ug/Kg dry				Lab File ID: 033F3301.D		Analyzed: 08/23/11 01:56		
Tetrachloro-m-xylene	24.22	79.5	70 - 125	5.088	5.09	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	24.22	97.3	70 - 125	4.153	4.153	0.0000	+/-0.030	
Decachlorobiphenyl	24.22	64.3	60 - 125	11.137	11.14	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	24.22	80.2	60 - 125	9.318	9.321	-0.0030	+/-0.030	
55SS09-0X02 (1108171-35) ug/Kg dry				Lab File ID: 034F3401.D		Analyzed: 08/23/11 02:15		
Tetrachloro-m-xylene	23.86	83.3	70 - 125	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	23.86	109	70 - 125	4.152	4.153	-0.0010	+/-0.030	
Decachlorobiphenyl	23.86	70.0	60 - 125	11.138	11.14	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	23.86	94.0	60 - 125	9.317	9.321	-0.0040	+/-0.030	
Matrix Spike (1H15025-MS1) ug/Kg dry				Lab File ID: 035F3501.D		Analyzed: 08/23/11 02:34		
Tetrachloro-m-xylene	23.24	77.1	70 - 125	5.089	5.09	-0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	23.24	101	70 - 125	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	23.24	61.5	60 - 125	11.137	11.14	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	23.24	79.4	60 - 125	9.32	9.321	-0.0010	+/-0.030	
Matrix Spike Dup (1H15025-MSD1) ug/Kg dry				Lab File ID: 036F3601.D		Analyzed: 08/23/11 02:53		
Tetrachloro-m-xylene	23.70	85.1	70 - 125	5.089	5.09	-0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	23.70	111	70 - 125	4.152	4.153	-0.0010	+/-0.030	
Decachlorobiphenyl	23.70	75.3	60 - 125	11.137	11.14	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	23.70	101	60 - 125	9.318	9.321	-0.0030	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Sequence: 1I25601

SDG: 1108171

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SB09-0204 (1108171-36) ug/Kg dry				Lab File ID: 037F3701.D		Analyzed: 08/23/11 03:12		
Tetrachloro-m-xylene	22.85	84.3	70 - 125	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	22.85	109	70 - 125	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	22.85	72.6	60 - 125	11.137	11.14	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	22.85	98.8	60 - 125	9.318	9.321	-0.0030	+/-0.030	
Calibration Check (1I25601-CCV5) ug/L				Lab File ID: 050F5001.D		Analyzed: 08/23/11 07:15		
Tetrachloro-m-xylene	100.0	104	80 - 120	5.088	5.09	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	134	80 - 120	4.15	4.153	-0.0030	+/-0.030	*
Decachlorobiphenyl	100.0	93.0	80 - 120	11.136	11.14	-0.0040	+/-0.030	
Decachlorobiphenyl [2C]	100.0	145	80 - 120	9.315	9.321	-0.0060	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25810

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25810-CCV1) ug/L				Lab File ID: 006F0601.D		Analyzed: 08/24/11 11:22		
Tetrachloro-m-xylene	100.0	97.0	80 - 120	5.054	5.054	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	139	80 - 120	4.127	4.127	0.0000	+/-0.030	*
Decachlorobiphenyl	100.0	89.8	80 - 120	11.089	11.089	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	159	80 - 120	9.278	9.278	0.0000	+/-0.030	*
Blank (1H23517-BLK1) ug/Kg wet				Lab File ID: 009F0901.D		Analyzed: 08/24/11 12:18		
Tetrachloro-m-xylene	16.67	79.9	70 - 125	5.059	5.054	0.0050	+/-0.030	
Tetrachloro-m-xylene [2C]	16.67	107	70 - 125	4.126	4.127	-0.0010	+/-0.030	
Decachlorobiphenyl	16.67	79.1	60 - 125	11.09	11.089	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	16.67	114	60 - 125	9.278	9.278	0.0000	+/-0.030	
LCS (1H23517-BS1) ug/Kg wet				Lab File ID: 010F1001.D		Analyzed: 08/24/11 12:37		
Tetrachloro-m-xylene	16.67	86.0	70 - 125	5.058	5.054	0.0040	+/-0.030	
Tetrachloro-m-xylene [2C]	16.67	117	70 - 125	4.128	4.127	0.0010	+/-0.030	
Decachlorobiphenyl	16.67	85.8	60 - 125	11.092	11.089	0.0030	+/-0.030	
Decachlorobiphenyl [2C]	16.67	123	60 - 125	9.279	9.278	0.0010	+/-0.030	
55SS04-0X02 (1108171-38) ug/Kg dry				Lab File ID: 013F1301.D		Analyzed: 08/24/11 13:33		
Tetrachloro-m-xylene	23.93	60.9	70 - 125	5.051	5.054	-0.0030	+/-0.030	*
Tetrachloro-m-xylene [2C]	23.93	57.6	70 - 125	4.127	4.127	0.0000	+/-0.030	*
Decachlorobiphenyl	23.93	58.0	60 - 125	11.093	11.089	0.0040	+/-0.030	*
Decachlorobiphenyl [2C]	23.93	27.5	60 - 125	9.281	9.278	0.0030	+/-0.030	*
Matrix Spike (1H23517-MS1) ug/Kg dry				Lab File ID: 014F1401.D		Analyzed: 08/24/11 13:51		
Tetrachloro-m-xylene	24.57	87.6	70 - 125	5.052	5.054	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	24.57	67.6	70 - 125	4.128	4.127	0.0010	+/-0.030	*
Decachlorobiphenyl	24.57	57.8	60 - 125	11.091	11.089	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	24.57	28.7	60 - 125	9.278	9.278	0.0000	+/-0.030	*
Matrix Spike Dup (1H23517-MSD1) ug/Kg dry				Lab File ID: 015F1501.D		Analyzed: 08/24/11 14:10		
Tetrachloro-m-xylene	24.57	61.2	70 - 125	5.054	5.054	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	24.57	63.2	70 - 125	4.126	4.127	-0.0010	+/-0.030	*
Decachlorobiphenyl	24.57	52.1	60 - 125	11.09	11.089	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	24.57	28.6	60 - 125	9.278	9.278	0.0000	+/-0.030	*
Calibration Check (1I25810-CCV3) ug/L				Lab File ID: 019F1901.D		Analyzed: 08/24/11 15:25		
Tetrachloro-m-xylene	100.0	99.4	80 - 120	5.055	5.054	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	144	80 - 120	4.127	4.127	0.0000	+/-0.030	*
Decachlorobiphenyl	100.0	92.5	80 - 120	11.091	11.089	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	160	80 - 120	9.279	9.278	0.0010	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25814

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25814-CCV1) ug/L				Lab File ID: 002F0201.D		Analyzed: 08/26/11 15:16		
Tetrachloro-m-xylene	100.0	95.2	80 - 120	5.005	5.005	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	135	80 - 120	4.089	4.089	0.0000	+/-0.030	*
Decachlorobiphenyl	100.0	89.4	80 - 120	11.015	11.015	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	152	80 - 120	9.216	9.216	0.0000	+/-0.030	*
Blank (1H15024-BLK1) ug/Kg wet				Lab File ID: 004F0401.D		Analyzed: 08/26/11 15:54		
Tetrachloro-m-xylene	33.33	87.0	70 - 125	5.006	5.005	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	33.33	121	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	33.33	81.0	60 - 125	11.016	11.015	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	33.33	134	60 - 125	9.217	9.216	0.0010	+/-0.030	*
LCS (1H15024-BS1) ug/Kg wet				Lab File ID: 005F0501.D		Analyzed: 08/26/11 16:12		
Tetrachloro-m-xylene	33.33	91.6	70 - 125	5.008	5.005	0.0030	+/-0.030	
Tetrachloro-m-xylene [2C]	33.33	129	70 - 125	4.092	4.089	0.0030	+/-0.030	*
Decachlorobiphenyl	33.33	85.8	60 - 125	11.016	11.015	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	33.33	144	60 - 125	9.217	9.216	0.0010	+/-0.030	*
55SS01-000X (1108171-01) ug/Kg dry				Lab File ID: 008F0801.D		Analyzed: 08/26/11 17:08		
Tetrachloro-m-xylene	41.80	70.1	70 - 125	5.007	5.005	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	41.80	93.6	70 - 125	4.091	4.089	0.0020	+/-0.030	
Decachlorobiphenyl	41.80	66.0	60 - 125	11.017	11.015	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	41.80	96.6	60 - 125	9.218	9.216	0.0020	+/-0.030	
Matrix Spike (1H15024-MS1) ug/Kg dry				Lab File ID: 009F0901.D		Analyzed: 08/26/11 17:27		
Tetrachloro-m-xylene	40.72	83.0	70 - 125	5.007	5.005	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	40.72	116	70 - 125	4.091	4.089	0.0020	+/-0.030	
Decachlorobiphenyl	40.72	72.8	60 - 125	11.015	11.015	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	40.72	108	60 - 125	9.218	9.216	0.0020	+/-0.030	
Matrix Spike Dup (1H15024-MSD1) ug/Kg dry				Lab File ID: 010F1001.D		Analyzed: 08/26/11 17:45		
Tetrachloro-m-xylene	40.85	79.1	70 - 125	5.006	5.005	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	40.85	112	70 - 125	4.091	4.089	0.0020	+/-0.030	
Decachlorobiphenyl	40.85	69.2	60 - 125	11.015	11.015	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	40.85	102	60 - 125	9.219	9.216	0.0030	+/-0.030	
55SS01-0X02 (1108171-02) ug/Kg dry				Lab File ID: 011F1101.D		Analyzed: 08/26/11 18:04		
Tetrachloro-m-xylene	43.02	73.6	70 - 125	5.006	5.005	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	43.02	101	70 - 125	4.091	4.089	0.0020	+/-0.030	
Decachlorobiphenyl	43.02	62.3	60 - 125	11.015	11.015	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	43.02	88.9	60 - 125	9.217	9.216	0.0010	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25814

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SB01-0204 (1108171-03) ug/Kg dry				Lab File ID: 012F1201.D		Analyzed: 08/26/11 18:23		
Tetrachloro-m-xylene	48.65	62.9	70 - 125	5.006	5.005	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	48.65	84.6	70 - 125	4.09	4.089	0.0010	+/-0.030	
Decachlorobiphenyl	48.65	54.5	60 - 125	11.014	11.015	-0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	48.65	78.0	60 - 125	9.219	9.216	0.0030	+/-0.030	
55SS10-000X (1108171-04) ug/Kg dry				Lab File ID: 013F1301.D		Analyzed: 08/26/11 18:41		
Tetrachloro-m-xylene	42.17	62.3	70 - 125	5.006	5.005	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	42.17	82.2	70 - 125	4.09	4.089	0.0010	+/-0.030	
Decachlorobiphenyl	42.17	56.2	60 - 125	11.016	11.015	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	42.17	80.8	60 - 125	9.219	9.216	0.0030	+/-0.030	
55SS10-0X02 (1108171-05) ug/Kg dry				Lab File ID: 014F1401.D		Analyzed: 08/26/11 19:00		
Tetrachloro-m-xylene	40.91	63.9	70 - 125	5.006	5.005	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	40.91	86.9	70 - 125	4.09	4.089	0.0010	+/-0.030	
Decachlorobiphenyl	40.91	56.6	60 - 125	11.016	11.015	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	40.91	80.5	60 - 125	9.218	9.216	0.0020	+/-0.030	
55SB10-0204 (1108171-06) ug/Kg dry				Lab File ID: 015F1501.D		Analyzed: 08/26/11 19:18		
Tetrachloro-m-xylene	39.72	69.4	70 - 125	5.005	5.005	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	39.72	94.0	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	39.72	64.7	60 - 125	11.013	11.015	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	39.72	95.3	60 - 125	9.216	9.216	0.0000	+/-0.030	
55SS05-000X (1108171-07) ug/Kg dry				Lab File ID: 016F1601.D		Analyzed: 08/26/11 19:37		
Tetrachloro-m-xylene	38.46	68.3	70 - 125	5.007	5.005	0.0020	+/-0.030	*
Tetrachloro-m-xylene [2C]	38.46	92.5	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	38.46	58.3	60 - 125	11.015	11.015	0.0000	+/-0.030	*
Decachlorobiphenyl [2C]	38.46	83.4	60 - 125	9.218	9.216	0.0020	+/-0.030	
55SS05-0X02 (1108171-08) ug/Kg dry				Lab File ID: 017F1701.D		Analyzed: 08/26/11 19:56		
Tetrachloro-m-xylene	38.95	72.1	70 - 125	5.005	5.005	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	38.95	99.2	70 - 125	4.091	4.089	0.0020	+/-0.030	
Decachlorobiphenyl	38.95	62.4	60 - 125	11.015	11.015	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	38.95	91.1	60 - 125	9.216	9.216	0.0000	+/-0.030	
55SB05-0204 (1108171-09) ug/Kg dry				Lab File ID: 018F1801.D		Analyzed: 08/26/11 20:14		
Tetrachloro-m-xylene	39.28	65.1	70 - 125	5.006	5.005	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	39.28	88.3	70 - 125	4.088	4.089	-0.0010	+/-0.030	
Decachlorobiphenyl	39.28	60.1	60 - 125	11.014	11.015	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	39.28	88.2	60 - 125	9.215	9.216	-0.0010	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25814

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SB05-0406 (1108171-10) ug/Kg dry				Lab File ID: 019F1901.D		Analyzed: 08/26/11 20:33		
Tetrachloro-m-xylene	41.67	70.2	70 - 125	5.005	5.005	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	41.67	95.5	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	41.67	62.0	60 - 125	11.013	11.015	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	41.67	92.3	60 - 125	9.217	9.216	0.0010	+/-0.030	
Calibration Check (1I25814-CCV3) ug/L				Lab File ID: 020F2001.D		Analyzed: 08/26/11 20:52		
Tetrachloro-m-xylene	100.0	102	80 - 120	5.004	5.005	-0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	145	80 - 120	4.088	4.089	-0.0010	+/-0.030	*
Decachlorobiphenyl	100.0	90.7	80 - 120	11.014	11.015	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	100.0	154	80 - 120	9.217	9.216	0.0010	+/-0.030	*
55SS06-000X (1108171-11) ug/Kg dry				Lab File ID: 022F2201.D		Analyzed: 08/26/11 21:29		
Tetrachloro-m-xylene	49.64	61.1	70 - 125	5.002	5.005	-0.0030	+/-0.030	*
Tetrachloro-m-xylene [2C]	49.64	76.6	70 - 125	4.09	4.089	0.0010	+/-0.030	
Decachlorobiphenyl	49.64	59.1	60 - 125	11.016	11.015	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	49.64	50.9	60 - 125	9.217	9.216	0.0010	+/-0.030	*
55SS06-0X02 (1108171-12) ug/Kg dry				Lab File ID: 023F2301.D		Analyzed: 08/26/11 21:48		
Tetrachloro-m-xylene	50.71	67.6	70 - 125	5.002	5.005	-0.0030	+/-0.030	*
Tetrachloro-m-xylene [2C]	50.71	83.0	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	50.71	59.3	60 - 125	11.015	11.015	0.0000	+/-0.030	*
Decachlorobiphenyl [2C]	50.71	51.8	60 - 125	9.218	9.216	0.0020	+/-0.030	*
55SB06-0204 (1108171-13) ug/Kg dry				Lab File ID: 024F2401.D		Analyzed: 08/26/11 22:07		
Tetrachloro-m-xylene	40.94	71.5	70 - 125	5.003	5.005	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	40.94	95.9	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	40.94	63.1	60 - 125	11.012	11.015	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	40.94	82.4	60 - 125	9.216	9.216	0.0000	+/-0.030	
55SS08-000X (1108171-14) ug/Kg dry				Lab File ID: 025F2501.D		Analyzed: 08/26/11 22:25		
Tetrachloro-m-xylene	51.52	74.8	70 - 125	5.001	5.005	-0.0040	+/-0.030	
Tetrachloro-m-xylene [2C]	51.52	88.3	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	51.52	64.4	60 - 125	11.014	11.015	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	51.52	47.3	60 - 125	9.217	9.216	0.0010	+/-0.030	*
55SS08-0X02 (1108171-15) ug/Kg dry				Lab File ID: 026F2601.D		Analyzed: 08/26/11 22:44		
Tetrachloro-m-xylene	48.09	46.6	70 - 125	5.001	5.005	-0.0040	+/-0.030	*
Tetrachloro-m-xylene [2C]	48.09	58.1	70 - 125	4.089	4.089	0.0000	+/-0.030	*
Decachlorobiphenyl	48.09	53.4	60 - 125	11.014	11.015	-0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	48.09	37.7	60 - 125	9.217	9.216	0.0010	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25814

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration: 1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55SB08-0204 (1108171-16) ug/Kg dry				Lab File ID: 027F2701.D		Analyzed: 08/26/11 23:03		
Tetrachloro-m-xylene	40.17	61.3	70 - 125	5.004	5.005	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	40.17	77.8	70 - 125	4.09	4.089	0.0010	+/-0.030	
Decachlorobiphenyl	40.17	57.0	60 - 125	11.014	11.015	-0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	40.17	62.0	60 - 125	9.215	9.216	-0.0010	+/-0.030	
55SB08-0406 (1108171-17) ug/Kg dry				Lab File ID: 028F2801.D		Analyzed: 08/26/11 23:21		
Tetrachloro-m-xylene	40.38	69.3	70 - 125	5.004	5.005	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	40.38	91.0	70 - 125	4.09	4.089	0.0010	+/-0.030	
Decachlorobiphenyl	40.38	61.0	60 - 125	11.014	11.015	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	40.38	79.4	60 - 125	9.216	9.216	0.0000	+/-0.030	
55SS02-000X (1108171-18) ug/Kg dry				Lab File ID: 029F2901.D		Analyzed: 08/26/11 23:40		
Tetrachloro-m-xylene	47.37	59.5	70 - 125	5.002	5.005	-0.0030	+/-0.030	*
Tetrachloro-m-xylene [2C]	47.37	76.4	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	47.37	59.4	60 - 125	11.013	11.015	-0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	47.37	57.0	60 - 125	9.218	9.216	0.0020	+/-0.030	*
55SS02-0X02 (1108171-19) ug/Kg dry				Lab File ID: 030F3001.D		Analyzed: 08/26/11 23:59		
Tetrachloro-m-xylene	34.23	71.8	70 - 125	5.003	5.005	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	34.23	91.3	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	34.23	68.3	60 - 125	11.013	11.015	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	34.23	81.1	60 - 125	9.216	9.216	0.0000	+/-0.030	
55SB02-0204 (1108171-20) ug/Kg dry				Lab File ID: 031F3101.D		Analyzed: 08/27/11 00:17		
Tetrachloro-m-xylene	40.38	77.4	70 - 125	5.003	5.005	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	40.38	102	70 - 125	4.089	4.089	0.0000	+/-0.030	
Decachlorobiphenyl	40.38	66.4	60 - 125	11.012	11.015	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	40.38	83.8	60 - 125	9.218	9.216	0.0020	+/-0.030	
Calibration Check (1I25814-CCV5) ug/L				Lab File ID: 033F3301.D		Analyzed: 08/29/11 15:51		
Tetrachloro-m-xylene	100.0	95.7	80 - 120	5.009	5.005	0.0040	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	184	80 - 120	4.086	4.089	-0.0030	+/-0.030	*
Decachlorobiphenyl	100.0	88.8	80 - 120	11.024	11.015	0.0090	+/-0.030	
Decachlorobiphenyl [2C]	100.0	165	80 - 120	9.218	9.216	0.0020	+/-0.030	*

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H15024	Laboratory ID:	1H15024-BS1
Preparation:	3546_Microwave	Initial/Final:	15 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	333.3	457.1	137	40 - 140
Aroclor-1016 [2C]	333.3	312.1	93.6	40 - 140
Aroclor-1260	333.3	402.4	121	60 - 130
Aroclor-1260 [2C]	333.3	314.6	94.4	60 - 130

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H15025	Laboratory ID:	1H15025-BS1
Preparation:	3546 Microwave	Initial/Final:	15 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	166.7	173.8	104	40 - 140
Aroclor-1016 [2C]	166.7	104.9	62.9	40 - 140
Aroclor-1260	166.7	154.8	92.9	60 - 130
Aroclor-1260 [2C]	166.7	101.7	61.0	60 - 130

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Solid		
Batch:	1H23517	Laboratory ID:	1H23517-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	166.7	179.2	108	40 - 140
Aroclor-1016 [2C]	166.7	138.0	82.8	40 - 140
Aroclor-1260	166.7	158.4	95.0	60 - 130
Aroclor-1260 [2C]	166.7	140.0	84.0	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8082A

55SS01-000X

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H15024

% Solids: 79.74

Source Sample Name: **1108171-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Aroclor-1016	407.2	ND	502.1	123		40 - 140
Aroclor-1016 [2C]	407.2	ND	333.4	81.9		40 - 140
Aroclor-1260	407.2	ND	439.3	108		60 - 130
Aroclor-1260 [2C]	407.2	ND	321.4	78.9		60 - 130

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Aroclor-1016	408.5	477.4	117	5.06		30	40 - 140
Aroclor-1016 [2C]	408.5	329.9	80.8	1.06		30	40 - 140
Aroclor-1260	408.5	420.2	103	4.46		30	60 - 130
Aroclor-1260 [2C]	408.5	314.8	77.1	2.05		30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8082A

55SS09-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H15025

% Solids: 69.40

Source Sample Name: **1108171-35**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Aroclor-1016	232.4	ND	233.6	101		40 - 140
Aroclor-1016 [2C]	232.4	ND	167.3	72.0		40 - 140
Aroclor-1260	232.4	ND	191.4	82.4		60 - 130
Aroclor-1260 [2C]	232.4	ND	160.2	68.9		60 - 130

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Aroclor-1016	237.0	255.1	108	8.80		30	40 - 140
Aroclor-1016 [2C]	237.0	183.8	77.6	9.43		30	40 - 140
Aroclor-1260	237.0	218.5	92.2	13.2		30	60 - 130
Aroclor-1260 [2C]	237.0	180.0	75.9	11.6		30	60 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8082A

55SS04-0X02

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Batch: 1H23517

% Solids: 67.84

Source Sample Name: **1108171-38**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Aroclor-1016	245.7	ND	183.6	74.7		40 - 140
Aroclor-1016 [2C]	245.7	ND	243.5	99.1		40 - 140
Aroclor-1260	245.7	117.0	215.4	40.1	*	60 - 130
Aroclor-1260 [2C]	245.7	116.0	149.8	13.7	*	60 - 130

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	245.7	172.4	70.2	6.30		30	40 - 140
Aroclor-1016 [2C]	245.7	144.7	58.9	50.9	*	30	40 - 140
Aroclor-1260	245.7	209.2	37.5	2.94	*	30	60 - 130
Aroclor-1260 [2C]	245.7	145.2	11.9	3.09	*	30	60 - 130

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SB04-0204

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-25

Date(s) Analyzed: 08/22/2011 08/22/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.55	10.88	10.94	61.3	
	2	7.73	7.98	8.04	60.7	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS02-000X

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-18

Date(s) Analyzed: 08/26/2011 08/26/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.42	10.88	10.94	365	
	2	7.64	7.98	8.04	264	32

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS04-000X

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-22

Date(s) Analyzed: 08/22/2011 08/22/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.55	10.88	10.94	94.3	
	2	7.73	7.98	8.04	67.6	33

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS04-000XD

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-23

Date(s) Analyzed: 08/22/2011 08/22/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.55	10.88	10.94	94.1	
	2	7.73	7.98	8.04	66.4	35

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS04-0X02

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-38

Date(s) Analyzed: 08/24/2011 08/24/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.50	10.88	10.94	117	
	2	7.70	7.98	8.04	116	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS04-0X02D

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-24

Date(s) Analyzed: 08/22/2011 08/22/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.55	10.88	10.94	81.5	
	2	7.73	7.98	8.04	59.2	32

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS06-000X

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-11

Date(s) Analyzed: 08/26/2011 08/26/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.43	10.88	10.94	138	
	2	7.64	7.98	8.04	74.6	60

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS06-0X02

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-12

Date(s) Analyzed: 08/26/2011 08/26/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.43	10.88	10.94	75.7	
	2	7.64	7.98	8.04	68.3	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS08-000X

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-14

Date(s) Analyzed: 08/26/2011 08/26/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.42	10.88	10.94	499	
	2	7.64	7.98	8.04	347	36

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

55SS08-0X02

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108171-15

Date(s) Analyzed: 08/26/2011 08/26/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	10.42	10.88	10.94	114	
	2	7.64	7.98	8.04	154	30

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT NAS Jacksonville		JOB NUMBER SDG 1108171	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Ann Cognetti	CHECKED BY	APPROVED BY	DATE October 10, 2011

I. VOC; sample 555504-0X02D; acetone

$$\frac{44527}{384164} * \frac{5mL}{3.92g} * \frac{30^{ug/kg}}{0.06175386} * \frac{1}{0.6836} = 105.0^{ug/kg}$$

II. SVOC; sample 555503-000X; Benzaldehyde

$$\frac{101499}{488244} * 1 * 1000 * \frac{0.5}{15.3g * 0.5} * \frac{1}{0.8479} * \frac{40^{ng/uL}}{1.010105} = 634.6^{ug/kg}$$

III. PCB; sample 555504-000X; Aroclor 1260

$$\frac{911817}{4311.523} = 211.51 \qquad = \frac{211.51 + 326.09 + 177.02 + 156.56 + 175.48}{5}$$

$$\frac{620325}{1902.286} = 326.09 \qquad = 209.33 * \frac{5mL}{15.2g} * \frac{1}{0.7301} = 94.3^{ug/kg}$$

$$\frac{398862}{2253.205} = 177.02$$

$$\frac{286822}{1832.006} = 156.56$$

$$\frac{182794}{1041.689} = 175.48$$

Sample Calculation

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-24	File ID:	0817124.D
Sampled:	08/12/11 09:05	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 13:33
Solids:	68.36	Preparation:	5035	Dilution:	1

Batch: 1H20003 Sequence: 1H23501 Calibration: 1194001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	9.33	18.7	37.3	Q
71-43-2	Benzene		2.33	4.66	9.33	U
74-97-5	Bromochloromethane		2.33	4.66	9.33	U
75-27-4	Bromodichloromethane		2.33	4.66	9.33	U
75-25-2	Bromoform		2.33	4.66	9.33	U
74-83-9	Bromomethane		4.66	9.33	18.7	U
78-93-3	2-Butanone		4.66	9.33	18.7	Q, U
75-15-0	Carbon disulfide		2.33	4.66	9.33	U
56-23-5	Carbon tetrachloride		2.33	4.66	9.33	U
108-90-7	Chlorobenzene		2.33	4.66	9.33	U
75-00-3	Chloroethane		4.66	9.33	18.7	U
67-66-3	Chloroform		2.33	4.66	9.33	U
74-87-3	Chloromethane		4.66	9.33	18.7	U
110-82-7	Cyclohexane		2.33	4.66	9.33	U
124-48-1	Dibromochloromethane		2.33	4.66	9.33	U
96-12-8	1,2-Dibromo-3-chloropropane		4.66	9.33	18.7	U
106-93-4	1,2-Dibromoethane (EDB)		2.33	4.66	9.33	U
95-50-1	1,2-Dichlorobenzene		2.33	4.66	9.33	U
541-73-1	1,3-Dichlorobenzene		2.33	4.66	9.33	U
106-46-7	1,4-Dichlorobenzene		2.33	4.66	9.33	U
75-71-8	Dichlorodifluoromethane		4.66	9.33	18.7	U
75-34-3	1,1-Dichloroethane		2.33	4.66	9.33	U
107-06-2	1,2-Dichloroethane		2.33	4.66	9.33	U
75-35-4	1,1-Dichloroethene		2.33	4.66	9.33	U
156-59-2	cis-1,2-Dichloroethene		2.33	4.66	9.33	U
156-60-5	trans-1,2-Dichloroethene		2.33	4.66	9.33	U
78-87-5	1,2-Dichloropropane		2.33	4.66	9.33	U
10061-01-5	cis-1,3-Dichloropropene		2.33	4.66	9.33	U
10061-02-6	trans-1,3-Dichloropropene		2.33	4.66	9.33	U
100-41-4	Ethylbenzene		2.33	4.66	9.33	U
591-78-6	2-Hexanone		2.33	4.66	9.33	Q, U
98-82-8	Isopropylbenzene		2.33	4.66	9.33	U
75-09-2	Methylene chloride	14.7	4.66	9.33	18.7	I
79-20-9	Methyl Acetate		4.66	9.33	18.7	U
108-87-2	Methylcyclohexane		2.33	4.66	9.33	U
108-10-1	4-Methyl-2-pentanone		2.33	4.66	9.33	U
1634-04-4	Methyl t-Butyl Ether		2.33	4.66	9.33	U
100-42-5	Styrene		2.33	4.66	9.33	U
79-34-5	1,1,2,2-Tetrachloroethane		2.33	4.66	9.33	U

Sample Calculation

Data File: \\ELABNSH05\TARGET\chem\voa3.i\082011V3.b\0817124.D
Report Date: 22-Aug-2011 06:24

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa3.i\082011V3.b\0817124.D
Lab Smp Id: 1108171-24 555504-0X02D
Inj Date : 20-AUG-2011 13:33 MS Autotune Date: 08-FEB-2011 15:56
Operator : ADM Inst ID: voa3.i
Smp Info : 1108171-24;;;;;
Misc Info : ;0;;;;gm-all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa3.i\082011V3.b\VS3SUR.m
Meth Date : 22-Aug-2011 06:23 amonteiro Quant Type: ISTD
Cal Date : 09-JUL-2011 11:02 Cal File: SEQCALP.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: gm-all.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

mb | 11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.785	7.785	(1.000)	384164	30.0000	
9 Acetone	43	3.563	3.557	(0.458)	44527	56.3072	56.31
20 Methylene chloride	84	4.524	4.530	(0.581)	30917	7.85427	7.854(a)
$ 44 Dibromofluoromethane	111	6.745	6.745	(0.866)	128596	32.5452	32.54
$ 48 1,2-Dichloroethane-d4	102	7.250	7.250	(0.931)	22578	35.0087	35.01
$ 71 Toluene-d8	98	9.494	9.494	(0.868)	419353	29.7366	29.74
* 82 Chlorobenzene-d5	82	10.936	10.936	(1.000)	239723	30.0000	
$ 97 Bromofluorobenzene	95	12.141	12.141	(1.110)	214759	31.9856	31.98
102 1,3,5-Trimethylbenzene	105	12.536	12.621	(0.939)	8162	0.42780	0.4278(a)
106 1,2,4-Trimethylbenzene	105	12.993	12.992	(0.973)	7653	0.40304	0.4030(a)
* 110 1,4-Dichlorobenzene-d4	152	13.351	13.351	(1.000)	216738	30.0000	(Q)

06/23/11

Sample Calculation

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1194001
Instrument: MS-VOA3
Matrix: Water
Calibration Dates: 7/8/11 12:53 7/9/11 11:02

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.175386E-02	13.45417	3.5615	7.976447E-02			15	
Acrolein	0.0198109	14.184	3.451625	0.1549727			15	
Acrylonitrile	4.256999E-02	6.416032	4.4005	9.694495E-02			15	
Benzene	1.124087	6.986756	7.51625	2.471565E-02			15	
Bromobenzene	0.7071059	6.35342	12.299	5.307637E-03			15	
Bromochloromethane	0.1329411	4.981451	6.59575	4.997773E-02			15	
Tert-Amyl Methyl Ether	0.7640394	7.440405	7.70975	3.965212E-02			15	
Bromodichloromethane	0.4956952	3.727996	8.51425	3.141768E-02			15	
Bromoform	0.2712991	11.97099	11.705	2.292717E-02			SPCC (0.1)	
Bromomethane	0.2672452	6.504547	2.644	1.817762E-02			15	
Bromofluorobenzene	0.84025	7.338005	12.141	2.204767E-02			15	
n-Butylbenzene	2.818232	7.766994	13.74175	1.354586E-02			15	
2-Butanone	7.055282E-02	7.131037	6.043	0.0848597			15	
sec-Butylbenzene	3.119862	7.133619	13.199	1.325379E-02			15	
tert-Butylbenzene	2.349573	6.113405	12.962	1.094825E-02			15	
Carbon disulfide	0.8978577	5.487381	4.5835	5.778453E-02			15	
Carbon tetrachloride	0.5402457	4.824884	7.4855	3.461855E-02			15	
Chlorobenzene	1.428213	5.908843	10.973	1.796113E-02			SPCC (0.3)	
Chloroethane	0.1979737	4.584169	2.77575	0.1116795			15	
Chloroform	0.7895525	11.94576	6.5695	6.602627E-02			CCC (20)	
2-Chloroethyl vinyl ether	8.092987E-02	10.74611	8.87925	2.098219E-02			15	
Chloromethane	0.3072193	7.402878	2.06675	0.1018822			SPCC (0.1)	
1-Chlorohexane	0.7308537	6.262469	10.942	1.113631E-02			15	
2-Chlorotoluene	2.340992	7.25521	12.524	2.043875E-02			15	
4-Chlorotoluene	2.699027	10.02164	12.5865	2.694764E-02			15	
Cyclohexane	0.4018325	8.334075	7.414	1.229118E-02			15	
Dibromochloromethane	0.4573426	10.31785	10.19925	1.253626E-02			15	
1,2-Dibromo-3-chloropropane	8.405224E-02	14.48282	14.34814	1.433224E-02			15	
1,2-Dibromoethane (EDB)	0.3996021	7.131817	10.4145	2.990049E-02			15	
Dibromomethane	0.1866951	6.245088	8.4465	3.803676E-02			15	
1,2-Dichlorobenzene	1.191078	4.986822	13.698	1.810882E-02			15	
1,3-Dichlorobenzene	1.314428	5.66113	13.28425	1.375594E-02			15	

Sample Calculation

PREPARATION BENCH SHEET

1H20003

Empirical Laboratories, LLC

Instrument: VOA3

Printed: 9/14/2011 3:12:16PM

Matrix: Solid

Prepared using: MS - 5035

Surrogate used: 11A0564

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1108171-24	B	VOC_8260B_REG	08/20/2011	3.92	5				1	NA	
1108171-25	B	VOC_8260B_REG	08/20/2011	4.84	5				1	NA	
1108171-26	B	VOC_8260B_REG	08/20/2011	5.79	5				1	NA	
1108171-28	B	VOC_8260B_REG	08/20/2011	6.38	5				1	NA	
1108171-29	B	VOC_8260B_REG	08/20/2011	6.67	5				1	NA	
1108171-32	B	VOC_8260B_REG	08/20/2011	6.3	5				1	NA	
1108171-33	B	VOC_8260B_REG	08/20/2011	6.03	5				1	NA	
1108171-35	B	VOC_8260B_REG	08/20/2011	6.3	5				1	NA	MS/MSD
1108171-36	B	VOC_8260B_REG	08/20/2011	5.69	5				1	NA	
1108171-38	B	VOC_8260B_REG	08/20/2011	4.07	5				1	NA	
1108195-34	B	VOC_8260B_REG	08/22/2011	6.01	5				1	NA	See version
1108195-35	B	VOC_8260B_REG	08/22/2011	5.91	5				1	NA	See version
1108195-36	B	VOC_8260B_REG	08/22/2011	5.47	5				1	NA	See version
1108195-37	B	VOC_8260B_REG	08/22/2011	6.08	5				1	NA	See version
1108195-38	A	VOC_8260B_REG	08/22/2011	6.12	5				1	NA	See version
1108203-02	A	VOC_8260B_REG	08/22/2011	5.13	5				1	NA	
1108203-03	A	VOC_8260B_REG	08/22/2011	5.41	5				1	NA	
1H20003-BLK1		QC	08/20/2011	5	5				1	NA	
1H20003-BLK2		QC	08/20/2011	5	5				1	NA	
1H20003-BLK3		QC	08/22/2011	5	5				1	NA	
1H20003-BLK4		QC	08/22/2011	5	5				1	NA	
1H20003-BS1		QC	08/20/2011	5	5	11H0332		2.5	1	NA	

410

1108171

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Sample Calculation

ANALYSIS DATA SHEET

55SS03-000X

Laboratory:	Empirical Laboratories, LLC			SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Solid	Laboratory ID:	1108171-30	File ID:	0817130.D
Sampled:	08/12/11 11:20	Prepared:	08/24/11 09:00	Analyzed:	09/01/11 13:27
Solids:	84.79	Preparation:	EXT_3546	Dilution:	1

Batch: 1H18012 Sequence: 1I24512 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
98-86-2	Acetophenone		96.3	193	382	U
120-12-7	Anthracene		96.3	193	382	U
1912-24-9	Atrazine		96.3	193	382	Y, U
100-52-7	Benzaldehyde	635	96.3	193	382	Y
92-52-4	1,1-Biphenyl		96.3	193	382	U
101-55-3	4-Bromophenyl-phenylether		96.3	193	382	U
85-68-7	Butylbenzylphthalate		96.3	193	382	X, U
105-60-2	Caprolactam		96.3	193	382	U
86-74-8	Carbazole		96.3	193	382	U
59-50-7	4-Chloro-3-methylphenol		96.3	193	382	U
106-47-8	4-Chloroaniline		96.3	193	382	U
111-91-1	Bis(2-chloroethoxy)methane		96.3	193	382	U
111-44-4	Bis(2-chloroethyl)ether		96.3	193	382	U
108-60-1	2,2'-Oxybis-1-chloropropane		96.3	193	382	U
91-58-7	2-Chloronaphthalene		96.3	193	382	U
95-57-8	2-Chlorophenol		96.3	193	382	U
7005-72-3	4-Chlorophenyl phenyl ether		96.3	193	382	U
132-64-9	Dibenzofuran		96.3	193	382	U
84-74-2	Di-n-butylphthalate		96.3	193	382	U
91-94-1	3,3'-Dichlorobenzidine		96.3	193	382	X, U
120-83-2	2,4-Dichlorophenol		96.3	193	382	U
84-66-2	Diethylphthalate		96.3	193	382	U
105-67-9	2,4-Dimethylphenol		385	771	1500	U
131-11-3	Dimethyl phthalate		96.3	193	382	U
534-52-1	4,6-Dinitro-2-methylphenol		963	1930	3820	U
51-28-5	2,4-Dinitrophenol		963	1930	3820	X, U
121-14-2	2,4-Dinitrotoluene		96.3	193	382	U
606-20-2	2,6-Dinitrotoluene		96.3	193	382	U
117-84-0	Di-n-octylphthalate		96.3	193	382	X, U
123-91-1	1,4-Dioxane		96.3	193	382	U
117-81-7	Bis(2-ethylhexyl)phthalate		96.3	193	382	X, U
118-74-1	Hexachlorobenzene		96.3	193	382	U
87-68-3	Hexachlorobutadiene		96.3	193	382	U
77-47-4	Hexachlorocyclopentadiene		96.3	193	382	U
78-59-1	Isophorone		96.3	193	382	U
95-48-7	2-Methylphenol		96.3	193	382	U
106-44-5	4-Methylphenol		96.3	193	382	U
91-20-3	Naphthalene		96.3	193	382	U
100-01-6	4-Nitroaniline		385	771	1500	U

Sample Calculation

Data File: \\ELABNSH05\TARGET\chem\bna3.i\083111b3E.b\0817130.D
Report Date: 02-Sep-2011 10:33

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\083111b3E.b\0817130.D
Lab Smp Id: 1108171-30 Client Smp ID: 55SS03-000X
Inj Date : 01-SEP-2011 13:27 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1108171-30;;15;1000;UG/KG;;24-AUG-2011
Misc Info : ;0;;;;1H18012;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\083111b3E.b\IXBN3.m
Meth Date : 01-Sep-2011 12:04 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

MG/8/11

GLQ 2/2/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	7.471	7.479	(1.000)	488244	40.0000	
$ 2 2-Fluorophenol	112	5.837	5.845	(0.781)	1721243	123.462	123.5(A)
$ 3 Phenol-d6	99	6.975	6.999	(0.934)	2404377	125.228	125.2(AMH)
15 Benzyl alcohol	108	7.637	7.650	(1.022)	167183	15.8021	15.80
32 Benzaldehyde	106	6.921	6.935	(0.926)	101499	8.23225	8.232
* 33 Naphthalene-d8	136	9.100	9.114	(1.000)	1818408	40.0000	
$ 34 Nitrobenzene-d5	82	8.176	8.195	(0.898)	1062372	57.3410	57.34
43 Benzoic acid	105	8.732	8.847	(0.960)	59398	4.87645	4.876(aM)
* 69 Acenaphthene-d10	164	11.312	11.325	(1.000)	1025481	40.0000	
$ 74 2-Fluorobiphenyl	172	10.457	10.465	(0.924)	2236422	68.9370	68.94
* 102 Phenanthrene-d10	188	13.186	13.205	(1.000)	1607504	40.0000	
$ 107 2,4,6-Tribromophenol	330	12.294	12.308	(0.932)	587158	132.980	133.0(A)
* 132 Chrysene-d12	240	17.577	17.606	(1.000)	1285783	40.0000	

Sample Calculation

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Calibration: 1122001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288294	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.80832	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.8623	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654444	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890507	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20774	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157608	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400746	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008023	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492852	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.03815	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185735	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697993	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755144	12.86425	6.288496E-02			15	

Sample Calculation

PREPARATION BENCH SHEET

1H18012

Empirical Laboratories, LLC

Instrument:

Printed: 9/19/2011 3:02:15PM

855

Matrix: Solid

Prepared using: EXT - EXT_3546

Surrogate used: 11G0404

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1108171-22	-	SMS_BNA_8270C_3546_REG	08/24/2011	15	1				500	NA	
1108171-23	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.5	1				500	NA	
1108171-24	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.4	1				500	NA	
1108171-25	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.2	1				500	NA	
1108171-26	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.4	1				500	NA	
1108171-27	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.2	1				500	NA	
1108171-28	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.8	1				500	NA	
1108171-29	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.1	1				500	NA	
1108171-30	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.3	1				1000	NA	
1108171-31	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.4	1				500	NA	
1108171-32	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.4	1				500	NA	
1108171-33	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.7	1				500	NA	
1108171-34	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.5	1				500	NA	
1108171-35	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.2	1				500	NA	MS/MSD
1108171-36	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.4	1				500	NA	
1108171-38	-	SMS_BNA_8270C_3546_REG	08/24/2011	15.2	1				500	NA	
1H18012-BLK1		QC	08/24/2011	15	1				500	NA	
1H18012-BS1		QC	08/24/2011	15	1	11H0510		500	500	NA	
1H18012-MS1		QC	08/24/2011	15	1	11H0510	1108171-35	500	500	NA	
1H18012-MSD1		QC	08/24/2011	15	1	11H0510	1108171-35	500	500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1108171

Sample Calculation

ANALYSIS DATA SHEET

55SS04-000X

Laboratory:	Empirical Laboratories, LLC		SDG:	1108171	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Solid	Laboratory ID:	1108171-22	File ID:	015F1501.D
Sampled:	08/12/11 09:00	Prepared:	08/19/11 14:09	Analyzed:	08/22/11 20:21
Solids:	73.01	Preparation:	3546_Microwave	Dilution:	1

Batch: 1H15025 Sequence: 1125601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		5.68	11.3	23.0	U
11104-28-2	Aroclor-1221		5.68	11.3	23.0	U
11141-16-5	Aroclor-1232		5.68	11.3	23.0	U
53469-21-9	Aroclor-1242		5.68	11.3	23.0	U
12672-29-6	Aroclor-1248		128	128	128	UZ-01
11097-69-1	Aroclor-1254		128	128	128	UX, Z-01
11096-82-5	Aroclor-1260	94.3	5.68	11.3	23.0	Z-01b
37324-23-5	Aroclor-1262		128	128	128	UZ-01
11100-14-4	Aroclor-1268		128	128	128	UZ-01

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	22.53	11.11	49.3	70 - 125	*
Tetrachloro-m-xylene [2C]	22.53	11.49	51.0	70 - 125	*X
Decachlorobiphenyl	22.53	10.41	46.2	60 - 125	*
Decachlorobiphenyl [2C]	22.53	7.158	31.8	60 - 125	*X

* Values outside of QC limits

Sample Calculation

Data File: \\BC\TARGET\chem\ecd3.i\082211.b\015F1501.D
Report Date: 12-Sep-2011 16:55

J.H. 9.12.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\082211.b\015F1501.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\082211.b\015R1501.D
Inj Date : 22-AUG-2011 20:21
Sample Info: 1108171-22 555504-000X
Misc Info : ;;;;;;TCL2.sub
Cal Date : 11-SEP-2011 23:06
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\082211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\082211.b\8081_82R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1260	9.472	7.734	911817	330079	211.5	88.85	80.00- 120.00	100.00(M)
	8.063	6.531	369526	425763		234.2	38.52- 57.78	128.99(M)
	8.380	6.759	620325	327206	326.1	145.0	38.73- 58.09	68.03(M)
	8.713	7.089	398862	443477	177.0	210.5	43.95- 65.92	43.74(M)
	8.810	7.154	286822	161768	156.6		31.14- 46.70	31.46(M)
	9.080	7.424	259939	131028		71.91	40.33- 60.49	39.70(M)
	9.818	8.104	440677	137645			32.79- 49.18	41.70(M)
	10.548	8.736	182794	108295	175.5		19.33- 29.00	20.05(M)
		Average of Peak Amounts =			209.3	150.1		
TCMX	5.088	4.153	861993	635137	24.65	25.51		100.00(R)
DCB	11.140	9.319	949377	403474	23.10	15.89		100.00(R)

QC Flag Legend

← NOTE: RAISE DL/LOD/LOQ OF 1248, 1254, 1262, AND 1268.

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Sample Calculation

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1240001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.747	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38972	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02			20	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.816	19.04286	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2268.142	3.933859	10.9125	5.356125E-02			20	
Aroclor-1260 (1)	4311.523	4.013749	9.821833	5.898152E-02			20	
Aroclor-1260 (2)	1902.286	5.065316	8.709667	7.050999E-02			20	
Aroclor-1260 (3)	2253.205	6.033797	9.053333	6.367493E-02			20	
Aroclor-1260 (4)	1832.006	4.516835	9.151333	6.728445E-02			20	
Aroclor-1260 (5)	1041.689	2.952778	10.9125	5.356125E-02			20	
Aroclor-1260 [2C]	2343.645	10.71217	8.009833	0.0306845			20	
Aroclor-1260 (1) [2C]	3714.819	9.330505	8.009833	0.0306845			20	
Aroclor-1260 (2) [2C]	1817.694	13.27222	6.769333	2.786608E-02			20	
Aroclor-1260 (3) [2C]	2256.668	11.29824	7.008	3.544481E-02			20	
Aroclor-1260 (4) [2C]	2106.889	11.69539	7.351834	3.499818E-02			20	
Aroclor-1260 (5) [2C]	1822.153	9.927531	7.692	3.530716E-02			20	
Tetrachloro-m-xylene	34968.44	7.672347	5.178857	5.515361E-02			20	
Tetrachloro-m-xylene [2C]	26183.29	24.10909	4.215857	0.0134251		0.9982558	0.995	
Decachlorobiphenyl	41093.6	16.74027	11.268	1.798916E-02			20	
Decachlorobiphenyl [2C]	23977.95	27.90083	9.430857	1.242397E-02		0.9991183	0.995	

Sample Calculation

PREPARATION BENCH SHEET

1H15025

Empirical Laboratories, LLC

Instrument:

Printed: 9/19/2011 4:23:32PM

Matrix: Solid

Prepared using: EXT - 3546_Microwave

Surrogate used: 11H0338

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1108171-21	A	SGC_PCB8082A_3546	08/19/2011	15.5	5				500	NA	Includes 1262 and 1268
1108171-22	B	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-23	A	SGC_PCB8082A_3546	08/19/2011	15.3	5				500	NA	Includes 1262 and 1268
1108171-24	A	SGC_PCB8082A_3546	08/19/2011	15.3	5				500	NA	Includes 1262 and 1268
1108171-25	D	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-26	D	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-27	A	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-28	E	SGC_PCB8082A_3546	08/19/2011	15.7	5				500	NA	Includes 1262 and 1268
1108171-29	F	SGC_PCB8082A_3546	08/19/2011	15.1	5				500	NA	Includes 1262 and 1268
1108171-30	A	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-31	B	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-32	F	SGC_PCB8082A_3546	08/19/2011	15.6	5				500	NA	Includes 1262 and 1268
1108171-33	F	SGC_PCB8082A_3546	08/19/2011	15.2	5				500	NA	Includes 1262 and 1268
1108171-34	B	SGC_PCB8082A_3546	08/19/2011	15.1	5				500	NA	Includes 1262 and 1268
1108171-35	E	SGC_PCB8082A_3546	08/19/2011	15.1	5				500	NA	Includes 1262 and 1268
1108171-36	D	SGC_PCB8082A_3546	08/19/2011	15	5				500	NA	Includes 1262 and 1268
1H15025-BLK1		QC	08/19/2011	15	5				500	NA	
1H15025-BS1		QC	08/19/2011	15	5	11H0500		500	500	NA	
1H15025-BS2		QC	08/19/2011	15	5	11H0500		500	500	NA	
1H15025-BS3		QC	08/19/2011	15	5	11H0500		500	500	NA	
1H15025-BS4		QC	08/19/2011	15	5	11H0500		500	500	NA	
1H15025-BS5		QC	08/19/2011	15	5	11H0500		500	500	NA	

1403

1108171

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**A. PATE**	**DATE:**	**December 5, 2011**
FROM:	**MEGAN CARSON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS**
CTO JM19, NAS JACKSONVILLE
SAMPLE DELIVERY GROUP (SDG) – 1108171

SAMPLES: 37/Soil/

55SB01-0204	55SB02-0204	55SB02-0406
55SB03-0204	55SB04-0204	55SB04-0204D
55SB05-0204	55SB05-0406	55SB06-0204
55SB07-0204	55SB08-0204	55SB08-0406
55SB09-0204	55SB10-0204	55SS01-000X
55SS01-0X02	55SS02-000X	55SS02-0X02
55SS03-000X	55SS03-000XD	55SS03-0X02
55SS04-000X	55SS04-000XD	55SS04-0X02
55SS04-0X02D	55SS05-000X	55SS05-0X02
55SS06-000X	55SS06-0X02	55SS07-000X
55SS07-0X02	55SS08-000X	55SS08-0X02
55SS09-000X	55SS09-0X02	55SS10-000X
55SS10-0X02		

Overview

The sample set for NAS Jacksonville, CTO JM19, SDG 1108171, consists of thirty seven (37) soil environmental samples. This SDG contained four (4) field duplicate pairs: 55SB04-0204/55SB04-0204D, 55SS03-000X/55SS03-000XD, 55SS04-000X/55SS04-000XD, and 55SS04-0X02/55SS04-0X02D.

All samples were analyzed for target analyte list (TAL) metals. The samples were collected by Tetra Tech NUS on August 11th and 12th, 2011 and analyzed by Gulf Coast Analytical Laboratories, Inc. under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria using methods SW-846 6010B analytical and reporting protocol.

The full data review was evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial / Continuing Calibration Results
* • Initial / Continuing / Preparation Blank Results
• Field Duplicate Results
* • Analyte Quantitation
* • Detection Limits

* - All quality control criteria were met for this parameter.

METALS:

Field duplicate pair 55SB04-0204/55SB04-0204D had a relative percent difference or a percent difference greater than quality control limits for aluminum, arsenic, barium, calcium, copper, iron, lead, magnesium, manganese, mercury, nickel, and vanadium. Positive results for the aforementioned analytes in samples 55SB04-0204/55SB04-0204D were qualified as estimated. No other validation action was taken as other field duplicate pairs in this SDG were within quality control limits.

Notes –

The following contaminant was detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Iron	79.2 ug/L	19.8 mg/kg

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. All sample results were greater than the blank action level.

Several non-detected results for arsenic, cadmium, cobalt, mercury, selenium, and thallium exceeded the PALs listed in the SAP.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", January 2006.

The text of this report has been formulated to address only those problem areas affecting data quality.

Megan Carson

Tetra Tech NUS
Megan Carson
Chemist/Data Validator

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	=	ICP PDS Recovery Noncompliance; 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	=	RPD between columns/detectors >40% 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
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed

PROJ_NO: 02686	NSAMPLE	55SB01-0204			55SB02-0204			55SB02-0406			55SB03-0204		
SDG: 1108171	LAB_ID	1108171-03			1108171-20			1108171-21			1108171-33		
FRACTION: M	SAMP_DATE	8/11/2011			8/11/2011			8/11/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	65.9			79.9			79.3			71.3		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		8030			13900			14500			9450		
ANTIMONY		0.763	U		0.31	U		0.627	U		0.716	U	
ARSENIC		21			5.44			6.17			5.34		
BARIUM		29.1			46.8			54.3			35.4		
BERYLLIUM		1.18			1.92			1.42			1.17		
CADMIUM		0.153	U		4.97			0.251	U		0.286	U	
CALCIUM		11000			5300			14000			7400		
CHROMIUM		15.3			26.1			27.4			17.8		
COBALT		3.69			5.71			4.75			4.82		
COPPER		2.6			4.72			4.51			3.24		
IRON		18400			23100			25700			20300		
LEAD		10.7			12.3			13.3			11.1		
MAGNESIUM		2380			4050			4380			2950		
MANGANESE		117			435			209			159		
MERCURY		0.0328	J	P	0.0393			0.0327	J	P	0.0342	J	P
NICKEL		6.09			11.7			8.2			7.27		
POTASSIUM		1410			2100			1860			1480		
SELENIUM		0.458	U		0.186	U		0.376	U		0.43	U	
SILVER		0.153	U		0.186	U		0.251	U		0.143	U	
SODIUM		170	J	P	91.5	J	P	138	J	P	486	J	P
THALLIUM		0.458	U		0.248	U		0.376	U		0.43	U	
VANADIUM		18.6			22.3			32			17.8		
ZINC		22.2			29.9			28.8			23.5		

PROJ_NO: 02686	NSAMPLE	55SB04-0204			55SB04-0204D			55SB05-0204			55SB05-0406		
SDG: 1108171	LAB_ID	1108171-25			1108171-26			1108171-09			1108171-10		
FRACTION: M	SAMP_DATE	8/12/2011			8/12/2011			8/11/2011			8/11/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	96.6			80.8			81.1			77.4		
	DUP_OF				55SB04-0204								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		4460	J	G	8240	J	G	8460			10000		
ANTIMONY		0.493	U		0.628	U		0.59	U		0.646	U	
ARSENIC		2.99	J	G	13.3	J	G	9.26			4.35		
BARIUM		7.59	J	G	26.7	J	G	20.7			42.7		
BERYLLIUM		0.161	J	P	1.19			0.945			1.08		
CADMIUM		0.413	J	P	0.126	U		0.118	U		0.129	U	
CALCIUM		199	J	GP	4950	J	G	6580			6690		
CHROMIUM		19			16			17.4			19.2		
COBALT		0.493	U		4.13			3.39			6.79		
COPPER		7.83	J	G	3.18	J	G	3.79			2.88		
IRON		8190	J	G	18100	J	G	13500			17000		
LEAD		17.5	J	G	9.89	J	G	10.8			10.6		
MAGNESIUM		527	J	G	2840	J	G	2560			3170		
MANGANESE		16.5	J	G	103	J	G	92.1			207		
MERCURY		0.222	J	G	0.0268	J	GP	0.0247	J	P	0.0332	J	P
NICKEL		1.74	J	G	7.09	J	G	5.09			6.57		
POTASSIUM		362	J	P	1100			1330			1580		
SELENIUM		0.77	J	P	0.377	U		0.354	U		0.388	U	
SILVER		0.521	J	P	0.251	U		0.118	U		0.258	U	
SODIUM		98.6	U		126	U		403	J	P	280	J	P
THALLIUM		0.296	U		0.377	U		0.354	U		0.388	U	
VANADIUM		10.1	J	G	18.5	J	G	17.5			17.3		
ZINC		24.2			21			22.6			24		

PROJ_NO: 02686	NSAMPLE	55SB06-0204			55SB07-0204			55SB08-0204			55SB08-0406		
SDG: 1108171	LAB_ID	1108171-13			1108171-29			1108171-16			1108171-17		
FRACTION: M	SAMP_DATE	8/11/2011			8/12/2011			8/11/2011			8/11/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	81.4			80.6			82.4			82.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		6650			9840			10100			10000		
ANTIMONY		0.602	U		0.623	U		0.595	U		0.586	U	
ARSENIC		3.12			8.12			8.05			5.29		
BARIUM		21.6			31.9			33.4			26.6		
BERYLLIUM		0.716			1.16			1.7			1.29		
CADMIUM		0.12	U		0.249	U		2.37			2.18		
CALCIUM		2970			5170			3900			4020		
CHROMIUM		12.7			19.2			20.1			19.7		
COBALT		2.5			3.66			4.59			5.03		
COPPER		2.41			3.14			3.48			3.43		
IRON		14300			18600			20100			15100		
LEAD		7.41			9.25			12.7			9.99		
MAGNESIUM		2040			2760			2940			3700		
MANGANESE		69.2			71.6			84.8			210		
MERCURY		0.0206	J	P	0.025	J	P	0.0354	J	P	0.0303	J	P
NICKEL		3.57			6.56			10.1			8.15		
POTASSIUM		1090			1390			1460			1430		
SELENIUM		0.361	U		0.374	U		0.357	U		0.352	U	
SILVER		0.12	U		0.125	U		0.238	U		0.235	U	
SODIUM		130	J	P	129	J	P	194	J	P	1140		
THALLIUM		0.361	U		0.374	U		0.357	U		0.352	U	
VANADIUM		12.9			22.1			20.9			21.2		
ZINC		18.8			19.9			35.5			24.2		

PROJ_NO: 02686	NSAMPLE	55SB09-0204			55SB10-0204			55SS01-000X			55SS01-0X02		
SDG: 1108171	LAB_ID	1108171-36			1108171-06			1108171-01			1108171-02		
FRACTION: M	SAMP_DATE	8/12/2011			8/11/2011			8/11/2011			8/11/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	72.9			80.2			79.7			74.5		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		5260			8480			8790			11900		
ANTIMONY		0.696	U		0.64	U		0.624	U		0.642	U	
ARSENIC		6.24			6.37			5.63			4.49		
BARIUM		21			22.9			34			64.4		
BERYLLIUM		0.662	J	P	0.938			0.922			1.16		
CADMIUM		0.139	U		0.128	U		0.125	U		0.128	U	
CALCIUM		7580			14700			8980			15800		
CHROMIUM		11			16.6			16.5			22.2		
COBALT		2.9			2.65			4.32			3.98		
COPPER		2.1			3.64			10.4			3.67		
IRON		10600			10400			15200			20200		
LEAD		6.45			10.2			9.99			11.7		
MAGNESIUM		1500			2610			2530			3440		
MANGANESE		162			99.4			306			192		
MERCURY		0.0176	J	P	0.0232	J	P	0.0242			0.0298		
NICKEL		4.18			4.65			5.07			6.07		
POTASSIUM		811			1410			1130			1660		
SELENIUM		0.418	U		0.431	J	P	0.374	U		0.385	U	
SILVER		0.139	U		0.128	U		0.125	U		0.257	U	
SODIUM		139	U		161	J	P	142	J	P	196		
THALLIUM		0.418	U		0.384	U		0.374	U		0.385	U	
VANADIUM		13.5			17.5			19.6			26.2		
ZINC		11.6			21.7			24.2			26.2		

PROJ_NO: 02686	NSAMPLE	55SS02-000X			55SS02-0X02			55SS03-000X			55SS03-000XD		
SDG: 1108171	LAB_ID	1108171-18			1108171-19			1108171-30			1108171-31		
FRACTION: M	SAMP_DATE	8/11/2011			8/11/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	69.0			96.7			84.8			84.3		
	DUP_OF										55SS03-000X		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		15700			263			7420			7500		
ANTIMONY		1.74	U		0.509	U		0.587	U		0.581	U	
ARSENIC		7.73			0.306	U		4.78			4.52		
BARIUM		44.8			1.17	J	P	23.6			19.8		
BERYLLIUM		0.52	J	P	0.102	U		0.817			0.82		
CADMIUM		2.01			0.102	U		0.805			0.434	J	P
CALCIUM		2300			102	U		6890			4540		
CHROMIUM		79			1.58			17.7			16.2		
COBALT		1.74	U		0.509	U		2.83			2.88		
COPPER		30.1			0.407	U		6.58			3.65		
IRON		26400			341			12200			11700		
LEAD		62.1			2.6			17.4			13.9		
MAGNESIUM		1750			102	U		2090			2050		
MANGANESE		90.3			1.54			155			107		
MERCURY		0.537			0.0122	U		0.0752			0.048		
NICKEL		7.47			0.306	U		5.9			4.63		
POTASSIUM		1030	J	P	102	U		1140			1150		
SELENIUM		2.28			0.306	U		0.352	U		0.349	U	
SILVER		2.68	J	P	0.102	U		0.117	U		0.116	U	
SODIUM		348	U		102	U		117	U		116	U	
THALLIUM		1.05	U		0.306	U		0.352	U		0.349	U	
VANADIUM		27.4			0.669	J	P	17.8			17.1		
ZINC		72.8			1.55	J	P	35.9			23.9		

PROJ_NO: 02686	NSAMPLE	55SS03-0X02			55SS04-000X			55SS04-000XD			55SS04-0X02		
SDG: 1108171	LAB_ID	1108171-32			1108171-22			1108171-23			1108171-38		
FRACTION: M	SAMP_DATE	8/12/2011			8/12/2011			8/12/2011			8/12/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	74.0			73.0			65.3			67.8		
	DUP_OF							55SS04-000X					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		10700			15500			17200			15400		
ANTIMONY		0.676	U		1.76	U		1.83	U		1.79	U	
ARSENIC		6.39			8.54			8.34			9.03		
BARIUM		40.7			36			32.6			29.3		
BERYLLIUM		1.26			0.566	J	P	0.572	J	P	0.472	J	P
CADMIUM		0.135	U		5.1			4.47			2.57		
CALCIUM		14600			2890			2010			977	J	P
CHROMIUM		20.5			62.8			79.7			64		
COBALT		3.51			1.76	U		1.83	U		1.79	U	
COPPER		4.59			25.8			32			27.6		
IRON		17700			31900			29000			33100		
LEAD		11.3			54.4			65.7			58.8		
MAGNESIUM		3170			1790			1820	J	P	1630	J	P
MANGANESE		95.7			134			100			60.3		
MERCURY		0.0311	J	P	0.588			0.645			0.557		
NICKEL		6.26			8.36			8.36			7.04		
POTASSIUM		1410			922	J	P	932	J	P	993	J	P
SELENIUM		0.405	U		2.78	J	P	2.65	J	P	2.55	J	P
SILVER		0.135	U		1.6	J	P	3.21	J	P	1.67	J	P
SODIUM		664	J	P	351	U		366	U		358	U	
THALLIUM		0.405	U		1.05	U		1.1	U		1.07	U	
VANADIUM		21			30.5			30.3			30.6		
ZINC		23.2			75.5			85.1			69.2		

PROJ_NO: 02686	NSAMPLE	55SS04-0X02D			55SS05-000X			55SS05-0X02			55SS06-000X		
SDG: 1108171	LAB_ID	1108171-24			1108171-07			1108171-08			1108171-11		
FRACTION: M	SAMP_DATE	8/12/2011			8/11/2011			8/11/2011			8/11/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	68.4			85.5			83.9			64.6		
	DUP_OF	55SS04-0X02											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		15700			9680			9930			13300		
ANTIMONY		1.74	U		0.588	U		0.596	U		1.99	U	
ARSENIC		8.65			6.97			6.52			10.3		
BARIUM		33.4			32.1			34.2			36.7		
BERYLLIUM		0.517	J	P	1.13			1.06			0.707	J	P
CADMIUM		4.24			0.199	J	P	0.119	U		7.12		
CALCIUM		1410	J	P	5400			31500			5870		
CHROMIUM		68.6			18.7			17.9			63.4		
COBALT		1.74	U		4.46			4.49			1.99	U	
COPPER		30.4			4.11			3.24			24.4		
IRON		29700			15600			16700			32200		
LEAD		65.2			12.2			10.5			56.6		
MAGNESIUM		1670	J	P	2660			2620			1930	J	P
MANGANESE		94			150			109			127		
MERCURY		0.698			0.0389			0.0272	J	P	0.505		
NICKEL		7.67			6.67			6.13			9.57		
POTASSIUM		936	J	P	1660			1360			874	J	P
SELENIUM		2.75	J	P	0.353	U		0.358	U		2.5	J	P
SILVER		1.99	J	P	0.178	J	P	0.238	U		1.9	J	P
SODIUM		348	U		118	U		290	J	P	397	U	
THALLIUM		1.04	U		0.353	U		0.358	U		1.19	U	
VANADIUM		30.2			20			20.2			25.6		
ZINC		80.6			23.5			22.9			73.6		

PROJ_NO: 02686	NSAMPLE	55SS06-0X02			55SS07-000X			55SS07-0X02			55SS08-000X		
SDG: 1108171	LAB_ID	1108171-12			1108171-27			1108171-28			1108171-14		
FRACTION: M	SAMP_DATE	8/11/2011			8/12/2011			8/12/2011			8/11/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	64.9			83.3			77.5			61.4		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		35600			9240			5990			15000		
ANTIMONY		1.9	U		0.591	U		0.638	U		2.05	U	
ARSENIC		14.1			5.29			3.26			8.54		
BARIUM		96.3			21.4			13.4			32.8		
BERYLLIUM		2.22			1.05			0.702			0.409	U	
CADMIUM		18.7			0.144	J	P	0.128	U		1.06	J	P
CALCIUM		17500			5420			6810			777	J	P
CHROMIUM		265			18.4			11.9			82.6		
COBALT		4.65	J	P	3.71			1.98			2.05	U	
COPPER		84.5			3.08			2.01			30.7		
IRON		33500			15400			10600			28200		
LEAD		226			14.6			6.49			61.5		
MAGNESIUM		4900			2710			1780			1570	J	P
MANGANESE		142			145			69.9			45		
MERCURY		0.589			0.0448			0.0152	U		0.769		
NICKEL		32.3			6.1			3.67			5.67		
POTASSIUM		2210			1740			930			905	J	P
SELENIUM		5.83			0.355	U		0.383	U		2.38	J	P
SILVER		8.12			0.118	U		0.128	U		2.55	J	P
SODIUM		529	J	P	118	U		128	U		409	U	
THALLIUM		1.14	U		0.355	U		0.383	U		1.23	U	
VANADIUM		60.3			20.3			14.9			26.9		
ZINC		242			27.1			13.2			67.1		

PROJ_NO: 02686	NSAMPLE	55SS08-0X02			55SS09-000X			55SS09-0X02			55SS10-000X		
SDG: 1108171	LAB_ID	1108171-15			1108171-34			1108171-35			1108171-04		
FRACTION: M	SAMP_DATE	8/11/2011			8/12/2011			8/12/2011			8/11/2011		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	68.4			68.3			69.4			79.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		14900			7320			3960			11700		
ANTIMONY		1.78	U		0.735	U		0.343	U		0.649	U	
ARSENIC		9.91			5.61			7.08			6.05		
BARIUM		32.1	J	P	29.1			17.2			35.9		
BERYLLIUM		0.39			1.18			0.586			1.39		
CADMIUM		0.614	J	P	0.526	J	P	0.0686	U		0.13	U	
CALCIUM		412	J	P	6210			4090			9650		
CHROMIUM		74.9			17.3			7.93			22.7		
COBALT		1.78	U		4.03			1.88			5.27		
COPPER		31			4.23			1.24			4.37		
IRON		33600			12200			8480			23300		
LEAD		77.8			17			5.29			13.4		
MAGNESIUM		1620	J	P	1980			1050			4120		
MANGANESE		28.2			145			60.9			298		
MERCURY		0.736			0.189			0.0249	J	P	0.0376		
NICKEL		5.35			6.14			3.81			8.04		
POTASSIUM		1050	J	P	1360			593			1740		
SELENIUM		2.86	J	P	0.441	U		0.206	U		0.389	U	
SILVER		2.09	J	P	2.35			0.0686	U		0.13	U	
SODIUM		357	U		147	U		68.6	U		350	J	P
THALLIUM		1.07	U		0.441	U		0.206	U		0.389	U	
VANADIUM		30.9			17.5			9.88			30.1		
ZINC		67.8			28.3			9.03			29.2		

PROJ_NO: 02686	NSAMPLE	55SS10-0X02		
SDG: 1108171	LAB_ID	1108171-05		
FRACTION: M	SAMP_DATE	8/11/2011		
MEDIA: SOIL	QC_TYPE	NM		
	UNITS	MG/KG		
	PCT_SOLIDS	77.9		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
ALUMINUM		13000		
ANTIMONY		0.645	U	
ARSENIC		3.58		
BARIUM		46		
BERYLLIUM		1.38		
CADMIUM		0.129	U	
CALCIUM		34700		
CHROMIUM		24.2		
COBALT		4.81		
COPPER		4.41		
IRON		19700		
LEAD		13.3		
MAGNESIUM		4260		
MANGANESE		256		
MERCURY		0.0313	J	P
NICKEL		6.84		
POTASSIUM		2010		
SELENIUM		0.387	U	
SILVER		0.258	U	
SODIUM		455	J	P
THALLIUM		0.387	U	
VANADIUM		26.8		
ZINC		29.8		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

ANALYSIS DATA SHEET

55SB01-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 08:30
% Solids: 65.88

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-03
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0328	0.0160	0.0406	0.0406	1	1	SW7471B	1H23507	08/25/11 13:15
7429-90-5	Aluminum	8030	7.63	15.3	30.5	2	D	SW6010C	1H23502	08/24/11 16:22
7440-36-0	Antimony		0.763	1.22	1.53	2	UN	SW6010C	1H23502	08/24/11 16:22
7440-38-2	Arsenic	21.0	0.458	0.915	1.53	2	D	SW6010C	1H23502	08/24/11 16:22
7440-39-3	Barium	29.1	0.763	1.53	6.10	2	D	SW6010C	1H23502	08/24/11 16:22
7440-41-7	Beryllium	1.18	0.153	0.305	0.763	2	D	SW6010C	1H23502	08/24/11 16:22
7440-43-9	Cadmium		0.153	0.305	0.763	2	U	SW6010C	1H23502	08/24/11 16:22
7440-70-2	Calcium	11000	153	305	763	2	D	SW6010C	1H23502	08/24/11 16:22
7440-47-3	Chromium	15.3	0.305	0.610	1.53	2	D N	SW6010C	1H23502	08/24/11 16:22
7440-48-4	Cobalt	3.69	0.763	1.53	1.91	2	D	SW6010C	1H23502	08/24/11 16:22
7440-50-8	Copper	2.60	0.610	1.22	1.53	2	D	SW6010C	1H23502	08/24/11 16:22
7439-89-6	Iron	18400	4.58	9.15	15.3	2	D	SW6010C	1H23502	08/24/11 16:22
7439-92-1	Lead	10.7	0.229	0.458	0.458	2	D	SW6010C	1H23502	08/24/11 16:22
7439-95-4	Magnesium	2380	153	458	763	2	D	SW6010C	1H23502	08/24/11 16:22
7439-96-5	Manganese	117	0.458	0.915	2.29	2	D	SW6010C	1H23502	08/24/11 16:22
7440-02-0	Nickel	6.09	0.458	0.915	1.53	2	D	SW6010C	1H23502	08/24/11 16:22
7440-09-7	Potassium	1410	153	458	763	2	D	SW6010C	1H23502	08/24/11 16:22
7782-49-2	Selenium		0.458	0.763	1.53	2	U	SW6010C	1H23502	08/24/11 16:22
7440-22-4	Silver		0.153	0.305	1.53	2	U	SW6010C	1H23502	08/24/11 16:22
7440-23-5	Sodium	170	153	458	763	2	D I	SW6010C	1H23502	08/24/11 16:22
7440-28-0	Thallium		0.458	0.610	1.22	2	U	SW6010C	1H23502	08/24/11 16:22
7440-62-2	Vanadium	18.6	0.763	1.53	1.91	2	D	SW6010C	1H23502	08/24/11 16:22
7440-66-6	Zinc	22.2	0.763	1.53	3.05	2	D	SW6010C	1H23502	08/24/11 16:22

ANALYSIS DATA SHEET

55SB02-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 12:50
% Solids: 79.88

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-20
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0393	0.0148	0.0376	0.0376	1	*	SW7471B	1H23507	08/25/11 13:41
7429-90-5	Aluminum	13900	3.10	6.20	12.4	1		SW6010C	1H23502	08/24/11 17:50
7440-36-0	Antimony		0.310	0.496	0.620	1	UN	SW6010C	1H23502	08/24/11 17:50
7440-38-2	Arsenic	5.44	0.186	0.372	0.620	1		SW6010C	1H23502	08/24/11 17:50
7440-39-3	Barium	46.8	0.310	0.620	2.48	1		SW6010C	1H23502	08/24/11 17:50
7440-41-7	Beryllium	1.92	0.0620	0.124	0.310	1		SW6010C	1H23502	08/24/11 17:50
7440-43-9	Cadmium	4.97	0.0620	0.124	0.310	1		SW6010C	1H23502	08/24/11 17:50
7440-70-2	Calcium	5300	62.0	124	310	1		SW6010C	1H23502	08/24/11 17:50
7440-47-3	Chromium	26.1	0.124	0.248	0.620	1	N	SW6010C	1H23502	08/24/11 17:50
7440-48-4	Cobalt	5.71	0.310	0.620	0.775	1		SW6010C	1H23502	08/24/11 17:50
7440-50-8	Copper	4.72	0.248	0.496	0.620	1		SW6010C	1H23502	08/24/11 17:50
7439-89-6	Iron	23100	1.86	3.72	6.20	1		SW6010C	1H23502	08/24/11 17:50
7439-92-1	Lead	12.3	0.0930	0.186	0.186	1		SW6010C	1H23502	08/24/11 17:50
7439-95-4	Magnesium	4050	62.0	186	310	1		SW6010C	1H23502	08/24/11 17:50
7439-96-5	Manganese	435	0.186	0.372	0.930	1	*	SW6010C	1H23502	08/24/11 17:50
7440-02-0	Nickel	11.7	0.186	0.372	0.620	1		SW6010C	1H23502	08/24/11 17:50
7440-09-7	Potassium	2100	62.0	186	310	1		SW6010C	1H23502	08/24/11 17:50
7782-49-2	Selenium		0.186	0.310	0.620	1	U	SW6010C	1H23502	08/24/11 17:50
7440-22-4	Silver		0.186	0.124	0.620	1	M U	SW6010C	1H23502	08/24/11 17:50
7440-23-5	Sodium	91.5	62.0	186	310	1	I	SW6010C	1H23502	08/24/11 17:50
7440-28-0	Thallium		0.248	0.248	0.496	1	M U	SW6010C	1H23502	08/24/11 17:50
7440-62-2	Vanadium	22.3	0.310	0.620	0.775	1		SW6010C	1H23502	08/24/11 17:50
7440-66-6	Zinc	29.9	0.310	0.620	1.24	1		SW6010C	1H23502	08/24/11 17:50

ANALYSIS DATA SHEET

55SB02-0406

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 12:55
% Solids: 79.29

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-21
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0327	0.0176	0.0446	0.0446	1	1	SW7471B	1H23511	08/25/11 13:47
7429-90-5	Aluminum	14500	6.27	12.5	25.1	2	D	SW6010C	1H23503	08/24/11 18:39
7440-36-0	Antimony		0.627	1.00	1.25	2	UN	SW6010C	1H23503	08/24/11 18:39
7440-38-2	Arsenic	6.17	0.376	0.753	1.25	2	D	SW6010C	1H23503	08/24/11 18:39
7440-39-3	Barium	54.3	0.627	1.25	5.02	2	D	SW6010C	1H23503	08/24/11 18:39
7440-41-7	Beryllium	1.42	0.125	0.251	0.627	2	D	SW6010C	1H23503	08/24/11 18:39
7440-43-9	Cadmium		0.251	0.251	0.627	2	M U	SW6010C	1H23503	08/24/11 18:39
7440-70-2	Calcium	14000	125	251	627	2	D	SW6010C	1H23503	08/24/11 18:39
7440-47-3	Chromium	27.4	0.251	0.502	1.25	2	D N	SW6010C	1H23503	08/24/11 18:39
7440-48-4	Cobalt	4.75	0.627	1.25	1.57	2	D	SW6010C	1H23503	08/24/11 18:39
7440-50-8	Copper	4.51	0.502	1.00	1.25	2	D	SW6010C	1H23503	08/24/11 18:39
7439-89-6	Iron	25700	3.76	7.53	12.5	2	Q D	SW6010C	1H23503	08/24/11 18:39
7439-92-1	Lead	13.3	0.188	0.376	0.376	2	D	SW6010C	1H23503	08/24/11 18:39
7439-95-4	Magnesium	4380	125	376	627	2	D	SW6010C	1H23503	08/24/11 18:39
7439-96-5	Manganese	209	0.376	0.753	1.88	2	D N	SW6010C	1H23503	08/24/11 18:39
7440-02-0	Nickel	8.20	0.376	0.753	1.25	2	D	SW6010C	1H23503	08/24/11 18:39
7440-09-7	Potassium	1860	125	376	627	2	D N	SW6010C	1H23503	08/24/11 18:39
7782-49-2	Selenium		0.376	0.627	1.25	2	U	SW6010C	1H23503	08/24/11 18:39
7440-22-4	Silver		0.251	0.251	1.25	2	M U	SW6010C	1H23503	08/24/11 18:39
7440-23-5	Sodium	138	125	376	627	2	D 1	SW6010C	1H23503	08/24/11 18:39
7440-28-0	Thallium		0.376	0.502	1.00	2	U	SW6010C	1H23503	08/24/11 18:39
7440-62-2	Vanadium	32.0	0.627	1.25	1.57	2	D	SW6010C	1H23503	08/24/11 18:39
7440-66-6	Zinc	28.8	0.627	1.25	2.51	2	D	SW6010C	1H23503	08/24/11 18:39

ANALYSIS DATA SHEET

55SB03-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 11:40
% Solids: 71.25

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-33
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0342	0.0177	0.0448	0.0448	1	1	SW7471B	1H23511	08/25/11 14:04
7429-90-5	Aluminum	9450	7.16	14.3	28.6	2	D	SW6010C	1H23503	08/24/11 19:45
7440-36-0	Antimony		0.716	1.15	1.43	2	UN	SW6010C	1H23503	08/24/11 19:45
7440-38-2	Arsenic	5.34	0.430	0.859	1.43	2	D	SW6010C	1H23503	08/24/11 19:45
7440-39-3	Barium	35.4	0.716	1.43	5.73	2	D	SW6010C	1H23503	08/24/11 19:45
7440-41-7	Beryllium	1.17	0.143	0.286	0.716	2	D	SW6010C	1H23503	08/24/11 19:45
7440-43-9	Cadmium		0.286	0.286	0.716	2	M U	SW6010C	1H23503	08/24/11 19:45
7440-70-2	Calcium	7400	143	286	716	2	D	SW6010C	1H23503	08/24/11 19:45
7440-47-3	Chromium	17.8	0.286	0.573	1.43	2	D N	SW6010C	1H23503	08/24/11 19:45
7440-48-4	Cobalt	4.82	0.716	1.43	1.79	2	D	SW6010C	1H23503	08/24/11 19:45
7440-50-8	Copper	3.24	0.573	1.15	1.43	2	D	SW6010C	1H23503	08/24/11 19:45
7439-89-6	Iron	20300	4.30	8.59	14.3	2	Q D	SW6010C	1H23503	08/24/11 19:45
7439-92-1	Lead	11.1	0.215	0.430	0.430	2	D	SW6010C	1H23503	08/24/11 19:45
7439-95-4	Magnesium	2950	143	430	716	2	D	SW6010C	1H23503	08/24/11 19:45
7439-96-5	Manganese	159	0.430	0.859	2.15	2	D N	SW6010C	1H23503	08/24/11 19:45
7440-02-0	Nickel	7.27	0.430	0.859	1.43	2	D	SW6010C	1H23503	08/24/11 19:45
7440-09-7	Potassium	1480	143	430	716	2	D N	SW6010C	1H23503	08/24/11 19:45
7782-49-2	Selenium		0.430	0.716	1.43	2	U	SW6010C	1H23503	08/24/11 19:45
7440-22-4	Silver		0.143	0.286	1.43	2	U	SW6010C	1H23503	08/24/11 19:45
7440-23-5	Sodium	486	143	430	716	2	D I	SW6010C	1H23503	08/24/11 19:45
7440-28-0	Thallium		0.430	0.573	1.15	2	U	SW6010C	1H23503	08/24/11 19:45
7440-62-2	Vanadium	17.8	0.716	1.43	1.79	2	D	SW6010C	1H23503	08/24/11 19:45
7440-66-6	Zinc	23.5	0.716	1.43	2.86	2	D	SW6010C	1H23503	08/24/11 19:45

ANALYSIS DATA SHEET

55SB04-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 09:15
% Solids: 96.60

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-25
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.222	0.0130	0.0331	0.0331	1		SW7471B	1H23511	08/25/11 13:54
7429-90-5	Aluminum	4460	4.93	9.86	19.7	2	D	SW6010C	1H23503	08/24/11 18:57
7440-36-0	Antimony		0.493	0.789	0.986	2	UN	SW6010C	1H23503	08/24/11 18:57
7440-38-2	Arsenic	2.99	0.296	0.592	0.986	2	D	SW6010C	1H23503	08/24/11 18:57
7440-39-3	Barium	7.59	0.493	0.986	3.94	2	D	SW6010C	1H23503	08/24/11 18:57
7440-41-7	Beryllium	0.161	0.0986	0.197	0.493	2	D I	SW6010C	1H23503	08/24/11 18:57
7440-43-9	Cadmium	0.413	0.0986	0.197	0.493	2	D I	SW6010C	1H23503	08/24/11 18:57
7440-70-2	Calcium	199	98.6	197	493	2	D I	SW6010C	1H23503	08/24/11 18:57
7440-47-3	Chromium	19.0	0.197	0.394	0.986	2	D N	SW6010C	1H23503	08/24/11 18:57
7440-48-4	Cobalt		0.493	0.986	1.23	2	U	SW6010C	1H23503	08/24/11 18:57
7440-50-8	Copper	7.83	0.394	0.789	0.986	2	D	SW6010C	1H23503	08/24/11 18:57
7439-89-6	Iron	8190	2.96	5.92	9.86	2	Q D	SW6010C	1H23503	08/24/11 18:57
7439-92-1	Lead	17.5	0.148	0.296	0.296	2	D	SW6010C	1H23503	08/24/11 18:57
7439-95-4	Magnesium	527	98.6	296	493	2	D	SW6010C	1H23503	08/24/11 18:57
7439-96-5	Manganese	16.5	0.296	0.592	1.48	2	D N	SW6010C	1H23503	08/24/11 18:57
7440-02-0	Nickel	1.74	0.296	0.592	0.986	2	D	SW6010C	1H23503	08/24/11 18:57
7440-09-7	Potassium	362	98.6	296	493	2	D IN	SW6010C	1H23503	08/24/11 18:57
7782-49-2	Selenium	0.770	0.296	0.493	0.986	2	D I	SW6010C	1H23503	08/24/11 18:57
7440-22-4	Silver	0.521	0.0986	0.197	0.986	2	D I	SW6010C	1H23503	08/24/11 18:57
7440-23-5	Sodium		98.6	296	493	2	U	SW6010C	1H23503	08/24/11 18:57
7440-28-0	Thallium		0.296	0.394	0.789	2	U	SW6010C	1H23503	08/24/11 18:57
7440-62-2	Vanadium	10.1	0.493	0.986	1.23	2	D	SW6010C	1H23503	08/24/11 18:57
7440-66-6	Zinc	24.2	0.493	0.986	1.97	2	D	SW6010C	1H23503	08/24/11 18:57

ANALYSIS DATA SHEET

55SB04-0204D

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 09:15
% Solids: 80.83

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-26
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0268	0.0156	0.0395	0.0395	1	I	SW7471B	1H23511	08/25/11 13:55
7429-90-5	Aluminum	8240	6.28	12.6	25.1	2	D	SW6010C	1H23503	08/24/11 19:01
7440-36-0	Antimony		0.628	1.00	1.26	2	UN	SW6010C	1H23503	08/24/11 19:01
7440-38-2	Arsenic	13.3	0.377	0.754	1.26	2	D	SW6010C	1H23503	08/24/11 19:01
7440-39-3	Barium	26.7	0.628	1.26	5.02	2	D	SW6010C	1H23503	08/24/11 19:01
7440-41-7	Beryllium	1.19	0.126	0.251	0.628	2	D	SW6010C	1H23503	08/24/11 19:01
7440-43-9	Cadmium		0.126	0.251	0.628	2	U	SW6010C	1H23503	08/24/11 19:01
7440-70-2	Calcium	4950	126	251	628	2	D	SW6010C	1H23503	08/24/11 19:01
7440-47-3	Chromium	16.0	0.251	0.502	1.26	2	D N	SW6010C	1H23503	08/24/11 19:01
7440-48-4	Cobalt	4.13	0.628	1.26	1.57	2	D	SW6010C	1H23503	08/24/11 19:01
7440-50-8	Copper	3.18	0.502	1.00	1.26	2	D	SW6010C	1H23503	08/24/11 19:01
7439-89-6	Iron	18100	3.77	7.54	12.6	2	Q D	SW6010C	1H23503	08/24/11 19:01
7439-92-1	Lead	9.89	0.188	0.377	0.377	2	D	SW6010C	1H23503	08/24/11 19:01
7439-95-4	Magnesium	2840	126	377	628	2	D	SW6010C	1H23503	08/24/11 19:01
7439-96-5	Manganese	103	0.377	0.754	1.88	2	D N	SW6010C	1H23503	08/24/11 19:01
7440-02-0	Nickel	7.09	0.377	0.754	1.26	2	D	SW6010C	1H23503	08/24/11 19:01
7440-09-7	Potassium	1100	126	377	628	2	D N	SW6010C	1H23503	08/24/11 19:01
7782-49-2	Selenium		0.377	0.628	1.26	2	U	SW6010C	1H23503	08/24/11 19:01
7440-22-4	Silver		0.251	0.251	1.26	2	M U	SW6010C	1H23503	08/24/11 19:01
7440-23-5	Sodium		126	377	628	2	U	SW6010C	1H23503	08/24/11 19:01
7440-28-0	Thallium		0.377	0.502	1.00	2	U	SW6010C	1H23503	08/24/11 19:01
7440-62-2	Vanadium	18.5	0.628	1.26	1.57	2	D	SW6010C	1H23503	08/24/11 19:01
7440-66-6	Zinc	21.0	0.628	1.26	2.51	2	D	SW6010C	1H23503	08/24/11 19:01

ANALYSIS DATA SHEET

55SB05-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 09:45
% Solids: 81.08

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-09
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0247	0.0155	0.0394	0.0394	1	I	SW7471B	1H23507	08/25/11 13:25
7429-90-5	Aluminum	8460	5.90	11.8	23.6	2	D	SW6010C	1H23502	08/24/11 16:49
7440-36-0	Antimony		0.590	0.944	1.18	2	UN	SW6010C	1H23502	08/24/11 16:49
7440-38-2	Arsenic	9.26	0.354	0.708	1.18	2	D	SW6010C	1H23502	08/24/11 16:49
7440-39-3	Barium	20.7	0.590	1.18	4.72	2	D	SW6010C	1H23502	08/24/11 16:49
7440-41-7	Beryllium	0.945	0.118	0.236	0.590	2	D	SW6010C	1H23502	08/24/11 16:49
7440-43-9	Cadmium		0.118	0.236	0.590	2	U	SW6010C	1H23502	08/24/11 16:49
7440-70-2	Calcium	6580	118	236	590	2	D	SW6010C	1H23502	08/24/11 16:49
7440-47-3	Chromium	17.4	0.236	0.472	1.18	2	D N	SW6010C	1H23502	08/24/11 16:49
7440-48-4	Cobalt	3.39	0.590	1.18	1.48	2	D	SW6010C	1H23502	08/24/11 16:49
7440-50-8	Copper	3.79	0.472	0.944	1.18	2	D	SW6010C	1H23502	08/24/11 16:49
7439-89-6	Iron	13500	3.54	7.08	11.8	2	D	SW6010C	1H23502	08/24/11 16:49
7439-92-1	Lead	10.8	0.177	0.354	0.354	2	D	SW6010C	1H23502	08/24/11 16:49
7439-95-4	Magnesium	2560	118	354	590	2	D	SW6010C	1H23502	08/24/11 16:49
7439-96-5	Manganese	92.1	0.354	0.708	1.77	2	D	SW6010C	1H23502	08/24/11 16:49
7440-02-0	Nickel	5.09	0.354	0.708	1.18	2	D	SW6010C	1H23502	08/24/11 16:49
7440-09-7	Potassium	1330	118	354	590	2	D	SW6010C	1H23502	08/24/11 16:49
7782-49-2	Selenium		0.354	0.590	1.18	2	U	SW6010C	1H23502	08/24/11 16:49
7440-22-4	Silver		0.118	0.236	1.18	2	U	SW6010C	1H23502	08/24/11 16:49
7440-23-5	Sodium	403	118	354	590	2	D I	SW6010C	1H23502	08/24/11 16:49
7440-28-0	Thallium		0.354	0.472	0.944	2	U	SW6010C	1H23502	08/24/11 16:49
7440-62-2	Vanadium	17.5	0.590	1.18	1.48	2	D	SW6010C	1H23502	08/24/11 16:49
7440-66-6	Zinc	22.6	0.590	1.18	2.36	2	D	SW6010C	1H23502	08/24/11 16:49

ANALYSIS DATA SHEET

55SB05-0406

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 09:50
% Solids: 77.42

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-10
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0332	0.0168	0.0426	0.0426	1	1	SW7471B	1H23507	08/25/11 13:26
7429-90-5	Aluminum	10000	6.46	12.9	25.8	2	D	SW6010C	1H23502	08/24/11 16:53
7440-36-0	Antimony		0.646	1.03	1.29	2	UN	SW6010C	1H23502	08/24/11 16:53
7440-38-2	Arsenic	4.35	0.388	0.775	1.29	2	D	SW6010C	1H23502	08/24/11 16:53
7440-39-3	Barium	42.7	0.646	1.29	5.17	2	D	SW6010C	1H23502	08/24/11 16:53
7440-41-7	Beryllium	1.08	0.129	0.258	0.646	2	D	SW6010C	1H23502	08/24/11 16:53
7440-43-9	Cadmium		0.129	0.258	0.646	2	U	SW6010C	1H23502	08/24/11 16:53
7440-70-2	Calcium	6690	129	258	646	2	D	SW6010C	1H23502	08/24/11 16:53
7440-47-3	Chromium	19.2	0.258	0.517	1.29	2	D N	SW6010C	1H23502	08/24/11 16:53
7440-48-4	Cobalt	6.79	0.646	1.29	1.61	2	D	SW6010C	1H23502	08/24/11 16:53
7440-50-8	Copper	2.88	0.517	1.03	1.29	2	D	SW6010C	1H23502	08/24/11 16:53
7439-89-6	Iron	17000	3.88	7.75	12.9	2	D	SW6010C	1H23502	08/24/11 16:53
7439-92-1	Lead	10.6	0.194	0.388	0.388	2	D	SW6010C	1H23502	08/24/11 16:53
7439-95-4	Magnesium	3170	129	388	646	2	D	SW6010C	1H23502	08/24/11 16:53
7439-96-5	Manganese	207	0.388	0.775	1.94	2	D	SW6010C	1H23502	08/24/11 16:53
7440-02-0	Nickel	6.57	0.388	0.775	1.29	2	D	SW6010C	1H23502	08/24/11 16:53
7440-09-7	Potassium	1580	129	388	646	2	D	SW6010C	1H23502	08/24/11 16:53
7782-49-2	Selenium		0.388	0.646	1.29	2	U	SW6010C	1H23502	08/24/11 16:53
7440-22-4	Silver		0.258	0.258	1.29	2	M U	SW6010C	1H23502	08/24/11 16:53
7440-23-5	Sodium	280	129	388	646	2	D I	SW6010C	1H23502	08/24/11 16:53
7440-28-0	Thallium		0.388	0.517	1.03	2	U	SW6010C	1H23502	08/24/11 16:53
7440-62-2	Vanadium	17.3	0.646	1.29	1.61	2	D	SW6010C	1H23502	08/24/11 16:53
7440-66-6	Zinc	24.0	0.646	1.29	2.58	2	D	SW6010C	1H23502	08/24/11 16:53

ANALYSIS DATA SHEET

55SB06-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 11:10
% Solids: 81.42

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-13
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0206	0.0165	0.0419	0.0419	1	1	SW7471B	1H23507	08/25/11 13:30
7429-90-5	Aluminum	6650	6.02	12.0	24.1	2	D	SW6010C	1H23502	08/24/11 17:19
7440-36-0	Antimony		0.602	0.963	1.20	2	UN	SW6010C	1H23502	08/24/11 17:19
7440-38-2	Arsenic	3.12	0.361	0.722	1.20	2	D	SW6010C	1H23502	08/24/11 17:19
7440-39-3	Barium	21.6	0.602	1.20	4.82	2	D	SW6010C	1H23502	08/24/11 17:19
7440-41-7	Beryllium	0.716	0.120	0.241	0.602	2	D	SW6010C	1H23502	08/24/11 17:19
7440-43-9	Cadmium		0.120	0.241	0.602	2	U	SW6010C	1H23502	08/24/11 17:19
7440-70-2	Calcium	2970	120	241	602	2	D	SW6010C	1H23502	08/24/11 17:19
7440-47-3	Chromium	12.7	0.241	0.482	1.20	2	D N	SW6010C	1H23502	08/24/11 17:19
7440-48-4	Cobalt	2.50	0.602	1.20	1.51	2	D	SW6010C	1H23502	08/24/11 17:19
7440-50-8	Copper	2.41	0.482	0.963	1.20	2	D	SW6010C	1H23502	08/24/11 17:19
7439-89-6	Iron	14300	3.61	7.22	12.0	2	D	SW6010C	1H23502	08/24/11 17:19
7439-92-1	Lead	7.41	0.181	0.361	0.361	2	D	SW6010C	1H23502	08/24/11 17:19
7439-95-4	Magnesium	2040	120	361	602	2	D	SW6010C	1H23502	08/24/11 17:19
7439-96-5	Manganese	69.2	0.361	0.722	1.81	2	D	SW6010C	1H23502	08/24/11 17:19
7440-02-0	Nickel	3.57	0.361	0.722	1.20	2	D	SW6010C	1H23502	08/24/11 17:19
7440-09-7	Potassium	1090	120	361	602	2	D	SW6010C	1H23502	08/24/11 17:19
7782-49-2	Selenium		0.361	0.602	1.20	2	U	SW6010C	1H23502	08/24/11 17:19
7440-22-4	Silver		0.120	0.241	1.20	2	U	SW6010C	1H23502	08/24/11 17:19
7440-23-5	Sodium	130	120	361	602	2	D I	SW6010C	1H23502	08/24/11 17:19
7440-28-0	Thallium		0.361	0.482	0.963	2	U	SW6010C	1H23502	08/24/11 17:19
7440-62-2	Vanadium	12.9	0.602	1.20	1.51	2	D	SW6010C	1H23502	08/24/11 17:19
7440-66-6	Zinc	18.8	0.602	1.20	2.41	2	D	SW6010C	1H23502	08/24/11 17:19

ANALYSIS DATA SHEET

55SB07-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 10:35
% Solids: 80.60

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-29
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0250	0.0124	0.0315	0.0330	1	I	SW7471B	1H23511	08/25/11 13:59
7429-90-5	Aluminum	9840	6.23	12.5	24.9	2	D	SW6010C	1H23503	08/24/11 19:14
7440-36-0	Antimony		0.623	0.998	1.25	2	UN	SW6010C	1H23503	08/24/11 19:14
7440-38-2	Arsenic	8.12	0.374	0.748	1.25	2	D	SW6010C	1H23503	08/24/11 19:14
7440-39-3	Barium	31.9	0.623	1.25	4.99	2	D	SW6010C	1H23503	08/24/11 19:14
7440-41-7	Beryllium	1.16	0.125	0.249	0.623	2	D	SW6010C	1H23503	08/24/11 19:14
7440-43-9	Cadmium		0.249	0.249	0.623	2	M U	SW6010C	1H23503	08/24/11 19:14
7440-70-2	Calcium	5170	125	249	623	2	D	SW6010C	1H23503	08/24/11 19:14
7440-47-3	Chromium	19.2	0.249	0.499	1.25	2	D N	SW6010C	1H23503	08/24/11 19:14
7440-48-4	Cobalt	3.66	0.623	1.25	1.56	2	D	SW6010C	1H23503	08/24/11 19:14
7440-50-8	Copper	3.14	0.499	0.998	1.25	2	D	SW6010C	1H23503	08/24/11 19:14
7439-89-6	Iron	18600	3.74	7.48	12.5	2	Q D	SW6010C	1H23503	08/24/11 19:14
7439-92-1	Lead	9.25	0.187	0.374	0.374	2	D	SW6010C	1H23503	08/24/11 19:14
7439-95-4	Magnesium	2760	125	374	623	2	D	SW6010C	1H23503	08/24/11 19:14
7439-96-5	Manganese	71.6	0.374	0.748	1.87	2	D N	SW6010C	1H23503	08/24/11 19:14
7440-02-0	Nickel	6.56	0.374	0.748	1.25	2	D	SW6010C	1H23503	08/24/11 19:14
7440-09-7	Potassium	1390	125	374	623	2	D N	SW6010C	1H23503	08/24/11 19:14
7782-49-2	Selenium		0.374	0.623	1.25	2	U	SW6010C	1H23503	08/24/11 19:14
7440-22-4	Silver		0.125	0.249	1.25	2	U	SW6010C	1H23503	08/24/11 19:14
7440-23-5	Sodium	129	125	374	623	2	D I	SW6010C	1H23503	08/24/11 19:14
7440-28-0	Thallium		0.374	0.499	0.998	2	U	SW6010C	1H23503	08/24/11 19:14
7440-62-2	Vanadium	22.1	0.623	1.25	1.56	2	D	SW6010C	1H23503	08/24/11 19:14
7440-66-6	Zinc	19.9	0.623	1.25	2.49	2	D	SW6010C	1H23503	08/24/11 19:14

ANALYSIS DATA SHEET

55SB08-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 12:00
% Solids: 82.44

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-16
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0354	0.0158	0.0400	0.0400	1	I	SW7471B	1H23507	08/25/11 13:34
7429-90-5	Aluminum	10100	5.95	11.9	23.8	2	D	SW6010C	1H23502	08/24/11 17:33
7440-36-0	Antimony		0.595	0.951	1.19	2	UN	SW6010C	1H23502	08/24/11 17:33
7440-38-2	Arsenic	8.05	0.357	0.714	1.19	2	D	SW6010C	1H23502	08/24/11 17:33
7440-39-3	Barium	33.4	0.595	1.19	4.76	2	D	SW6010C	1H23502	08/24/11 17:33
7440-41-7	Beryllium	1.70	0.119	0.238	0.595	2	D	SW6010C	1H23502	08/24/11 17:33
7440-43-9	Cadmium	2.37	0.119	0.238	0.595	2	D	SW6010C	1H23502	08/24/11 17:33
7440-70-2	Calcium	3900	119	238	595	2	D	SW6010C	1H23502	08/24/11 17:33
7440-47-3	Chromium	20.1	0.238	0.476	1.19	2	D N	SW6010C	1H23502	08/24/11 17:33
7440-48-4	Cobalt	4.59	0.595	1.19	1.49	2	D	SW6010C	1H23502	08/24/11 17:33
7440-50-8	Copper	3.48	0.476	0.951	1.19	2	D	SW6010C	1H23502	08/24/11 17:33
7439-89-6	Iron	20100	3.57	7.14	11.9	2	D	SW6010C	1H23502	08/24/11 17:33
7439-92-1	Lead	12.7	0.178	0.357	0.357	2	D	SW6010C	1H23502	08/24/11 17:33
7439-95-4	Magnesium	2940	119	357	595	2	D	SW6010C	1H23502	08/24/11 17:33
7439-96-5	Manganese	84.8	0.357	0.714	1.78	2	D	SW6010C	1H23502	08/24/11 17:33
7440-02-0	Nickel	10.1	0.357	0.714	1.19	2	D	SW6010C	1H23502	08/24/11 17:33
7440-09-7	Potassium	1460	119	357	595	2	D	SW6010C	1H23502	08/24/11 17:33
7782-49-2	Selenium		0.357	0.595	1.19	2	U	SW6010C	1H23502	08/24/11 17:33
7440-22-4	Silver		0.238	0.238	1.19	2	M U	SW6010C	1H23502	08/24/11 17:33
7440-23-5	Sodium	194	119	357	595	2	D I	SW6010C	1H23502	08/24/11 17:33
7440-28-0	Thallium		0.357	0.476	0.951	2	U	SW6010C	1H23502	08/24/11 17:33
7440-62-2	Vanadium	20.9	0.595	1.19	1.49	2	D	SW6010C	1H23502	08/24/11 17:33
7440-66-6	Zinc	35.5	0.595	1.19	2.38	2	D	SW6010C	1H23502	08/24/11 17:33

ANALYSIS DATA SHEET

55SB08-0406

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 12:05
% Solids: 82.00

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-17
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0303	0.0132	0.0335	0.0335	1	1	SW7471B	1H23507	08/25/11 13:35
7429-90-5	Aluminum	10000	5.86	11.7	23.5	2	D	SW6010C	1H23502	08/24/11 17:37
7440-36-0	Antimony		0.586	0.938	1.17	2	UN	SW6010C	1H23502	08/24/11 17:37
7440-38-2	Arsenic	5.29	0.352	0.704	1.17	2	D	SW6010C	1H23502	08/24/11 17:37
7440-39-3	Barium	26.6	0.586	1.17	4.69	2	D	SW6010C	1H23502	08/24/11 17:37
7440-41-7	Beryllium	1.29	0.117	0.235	0.586	2	D	SW6010C	1H23502	08/24/11 17:37
7440-43-9	Cadmium	2.18	0.117	0.235	0.586	2	D	SW6010C	1H23502	08/24/11 17:37
7440-70-2	Calcium	4020	117	235	586	2	D	SW6010C	1H23502	08/24/11 17:37
7440-47-3	Chromium	19.7	0.235	0.469	1.17	2	D N	SW6010C	1H23502	08/24/11 17:37
7440-48-4	Cobalt	5.03	0.586	1.17	1.47	2	D	SW6010C	1H23502	08/24/11 17:37
7440-50-8	Copper	3.43	0.469	0.938	1.17	2	D	SW6010C	1H23502	08/24/11 17:37
7439-89-6	Iron	15100	3.52	7.04	11.7	2	D	SW6010C	1H23502	08/24/11 17:37
7439-92-1	Lead	9.99	0.176	0.352	0.352	2	D	SW6010C	1H23502	08/24/11 17:37
7439-95-4	Magnesium	3700	117	352	586	2	D	SW6010C	1H23502	08/24/11 17:37
7439-96-5	Manganese	210	0.352	0.704	1.76	2	D	SW6010C	1H23502	08/24/11 17:37
7440-02-0	Nickel	8.15	0.352	0.704	1.17	2	D	SW6010C	1H23502	08/24/11 17:37
7440-09-7	Potassium	1430	117	352	586	2	D	SW6010C	1H23502	08/24/11 17:37
7782-49-2	Selenium		0.352	0.586	1.17	2	U	SW6010C	1H23502	08/24/11 17:37
7440-22-4	Silver		0.235	0.235	1.17	2	M U	SW6010C	1H23502	08/24/11 17:37
7440-23-5	Sodium	1140	117	352	586	2	D	SW6010C	1H23502	08/24/11 17:37
7440-28-0	Thallium		0.352	0.469	0.938	2	U	SW6010C	1H23502	08/24/11 17:37
7440-62-2	Vanadium	21.2	0.586	1.17	1.47	2	D	SW6010C	1H23502	08/24/11 17:37
7440-66-6	Zinc	24.2	0.586	1.17	2.35	2	D	SW6010C	1H23502	08/24/11 17:37

ANALYSIS DATA SHEET

55SB09-0204

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Matrix: Solid

Sampled: 08/12/11 12:55

% Solids: 72.95

SDG: 1108171

Project: NAS Jacksonville CTOJM19

Laboratory ID: 1108171-36

Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0176	0.0141	0.0357	0.0357	1	1	SW7471B	1H23511	08/25/11 14:12
7429-90-5	Aluminum	5260	6.96	13.9	27.8	2	D	SW6010C	1H23503	08/24/11 20:17
7440-36-0	Antimony		0.696	1.11	1.39	2	UN	SW6010C	1H23503	08/24/11 20:17
7440-38-2	Arsenic	6.24	0.418	0.835	1.39	2	D	SW6010C	1H23503	08/24/11 20:17
7440-39-3	Barium	21.0	0.696	1.39	5.57	2	D	SW6010C	1H23503	08/24/11 20:17
7440-41-7	Beryllium	0.662	0.139	0.278	0.696	2	D I	SW6010C	1H23503	08/24/11 20:17
7440-43-9	Cadmium		0.139	0.278	0.696	2	U	SW6010C	1H23503	08/24/11 20:17
7440-70-2	Calcium	7580	139	278	696	2	D	SW6010C	1H23503	08/24/11 20:17
7440-47-3	Chromium	11.0	0.278	0.557	1.39	2	D N	SW6010C	1H23503	08/24/11 20:17
7440-48-4	Cobalt	2.90	0.696	1.39	1.74	2	D	SW6010C	1H23503	08/24/11 20:17
7440-50-8	Copper	2.10	0.557	1.11	1.39	2	D	SW6010C	1H23503	08/24/11 20:17
7439-89-6	Iron	10600	4.18	8.35	13.9	2	Q D	SW6010C	1H23503	08/24/11 20:17
7439-92-1	Lead	6.45	0.209	0.418	0.418	2	D	SW6010C	1H23503	08/24/11 20:17
7439-95-4	Magnesium	1500	139	418	696	2	D	SW6010C	1H23503	08/24/11 20:17
7439-96-5	Manganese	162	0.418	0.835	2.09	2	D N	SW6010C	1H23503	08/24/11 20:17
7440-02-0	Nickel	4.18	0.418	0.835	1.39	2	D	SW6010C	1H23503	08/24/11 20:17
7440-09-7	Potassium	811	139	418	696	2	D N	SW6010C	1H23503	08/24/11 20:17
7782-49-2	Selenium		0.418	0.696	1.39	2	U	SW6010C	1H23503	08/24/11 20:17
7440-22-4	Silver		0.139	0.278	1.39	2	U	SW6010C	1H23503	08/24/11 20:17
7440-23-5	Sodium		139	418	696	2	U	SW6010C	1H23503	08/24/11 20:17
7440-28-0	Thallium		0.418	0.557	1.11	2	U	SW6010C	1H23503	08/24/11 20:17
7440-62-2	Vanadium	13.5	0.696	1.39	1.74	2	D	SW6010C	1H23503	08/24/11 20:17
7440-66-6	Zinc	11.6	0.696	1.39	2.78	2	D	SW6010C	1H23503	08/24/11 20:17

ANALYSIS DATA SHEET

55SB10-0204

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 09:00
% Solids: 80.19

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-06
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0232	0.0152	0.0386	0.0386	1	1	SW7471B	1H23507	08/25/11 13:19
7429-90-5	Aluminum	8480	6.40	12.8	25.6	2	D	SW6010C	1H23502	08/24/11 16:36
7440-36-0	Antimony		0.640	1.02	1.28	2	UN	SW6010C	1H23502	08/24/11 16:36
7440-38-2	Arsenic	6.37	0.384	0.767	1.28	2	D	SW6010C	1H23502	08/24/11 16:36
7440-39-3	Barium	22.9	0.640	1.28	5.12	2	D	SW6010C	1H23502	08/24/11 16:36
7440-41-7	Beryllium	0.938	0.128	0.256	0.640	2	D	SW6010C	1H23502	08/24/11 16:36
7440-43-9	Cadmium		0.128	0.256	0.640	2	U	SW6010C	1H23502	08/24/11 16:36
7440-70-2	Calcium	14700	128	256	640	2	D	SW6010C	1H23502	08/24/11 16:36
7440-47-3	Chromium	16.6	0.256	0.512	1.28	2	D N	SW6010C	1H23502	08/24/11 16:36
7440-48-4	Cobalt	2.65	0.640	1.28	1.60	2	D	SW6010C	1H23502	08/24/11 16:36
7440-50-8	Copper	3.64	0.512	1.02	1.28	2	D	SW6010C	1H23502	08/24/11 16:36
7439-89-6	Iron	10400	3.84	7.67	12.8	2	D	SW6010C	1H23502	08/24/11 16:36
7439-92-1	Lead	10.2	0.192	0.384	0.384	2	D	SW6010C	1H23502	08/24/11 16:36
7439-95-4	Magnesium	2610	128	384	640	2	D	SW6010C	1H23502	08/24/11 16:36
7439-96-5	Manganese	99.4	0.384	0.767	1.92	2	D	SW6010C	1H23502	08/24/11 16:36
7440-02-0	Nickel	4.65	0.384	0.767	1.28	2	D	SW6010C	1H23502	08/24/11 16:36
7440-09-7	Potassium	1410	128	384	640	2	D	SW6010C	1H23502	08/24/11 16:36
7782-49-2	Selenium	0.431	0.384	0.640	1.28	2	D I	SW6010C	1H23502	08/24/11 16:36
7440-22-4	Silver		0.128	0.256	1.28	2	U	SW6010C	1H23502	08/24/11 16:36
7440-23-5	Sodium	161	128	384	640	2	D I	SW6010C	1H23502	08/24/11 16:36
7440-28-0	Thallium		0.384	0.512	1.02	2	U	SW6010C	1H23502	08/24/11 16:36
7440-62-2	Vanadium	17.5	0.640	1.28	1.60	2	D	SW6010C	1H23502	08/24/11 16:36
7440-66-6	Zinc	21.7	0.640	1.28	2.56	2	D	SW6010C	1H23502	08/24/11 16:36

ANALYSIS DATA SHEET

55SS01-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 08:20
% Solids: 79.74

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-01
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0242	0.0148	0.0376	0.0376	1	1	SW7471B	1H23507	08/25/11 13:13
7429-90-5	Aluminum	8790	6.24	12.5	25.0	2	D	SW6010C	1H23502	08/24/11 16:13
7440-36-0	Antimony		0.624	0.998	1.25	2	UN	SW6010C	1H23502	08/24/11 16:13
7440-38-2	Arsenic	5.63	0.374	0.749	1.25	2	D	SW6010C	1H23502	08/24/11 16:13
7440-39-3	Barium	34.0	0.624	1.25	4.99	2	D	SW6010C	1H23502	08/24/11 16:13
7440-41-7	Beryllium	0.922	0.125	0.250	0.624	2	D	SW6010C	1H23502	08/24/11 16:13
7440-43-9	Cadmium		0.125	0.250	0.624	2	U	SW6010C	1H23502	08/24/11 16:13
7440-70-2	Calcium	8980	125	250	624	2	D	SW6010C	1H23502	08/24/11 16:13
7440-47-3	Chromium	16.5	0.250	0.499	1.25	2	D N	SW6010C	1H23502	08/24/11 16:13
7440-48-4	Cobalt	4.32	0.624	1.25	1.56	2	D	SW6010C	1H23502	08/24/11 16:13
7440-50-8	Copper	10.4	0.499	0.998	1.25	2	D	SW6010C	1H23502	08/24/11 16:13
7439-89-6	Iron	15200	3.74	7.49	12.5	2	D	SW6010C	1H23502	08/24/11 16:13
7439-92-1	Lead	9.99	0.187	0.374	0.374	2	D	SW6010C	1H23502	08/24/11 16:13
7439-95-4	Magnesium	2530	125	374	624	2	D	SW6010C	1H23502	08/24/11 16:13
7439-96-5	Manganese	306	0.374	0.749	1.87	2	D	SW6010C	1H23502	08/24/11 16:13
7440-02-0	Nickel	5.07	0.374	0.749	1.25	2	D	SW6010C	1H23502	08/24/11 16:13
7440-09-7	Potassium	1130	125	374	624	2	D	SW6010C	1H23502	08/24/11 16:13
7782-49-2	Selenium		0.374	0.624	1.25	2	U	SW6010C	1H23502	08/24/11 16:13
7440-22-4	Silver		0.125	0.250	1.25	2	U	SW6010C	1H23502	08/24/11 16:13
7440-23-5	Sodium	142	125	374	624	2	D I	SW6010C	1H23502	08/24/11 16:13
7440-28-0	Thallium		0.374	0.499	0.998	2	U	SW6010C	1H23502	08/24/11 16:13
7440-62-2	Vanadium	19.6	0.624	1.25	1.56	2	D	SW6010C	1H23502	08/24/11 16:13
7440-66-6	Zinc	24.2	0.624	1.25	2.50	2	D	SW6010C	1H23502	08/24/11 16:13

ANALYSIS DATA SHEET

55SS01-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 08:25
% Solids: 74.51

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-02
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0298	0.0131	0.0332	0.0332	1	I	SW7471B	1H23507	08/25/11 13:14
7429-90-5	Aluminum	11900	6.42	12.8	25.7	2	D	SW6010C	1H23502	08/24/11 16:17
7440-36-0	Antimony		0.642	1.03	1.28	2	UN	SW6010C	1H23502	08/24/11 16:17
7440-38-2	Arsenic	4.49	0.385	0.771	1.28	2	D	SW6010C	1H23502	08/24/11 16:17
7440-39-3	Barium	64.4	0.642	1.28	5.14	2	D	SW6010C	1H23502	08/24/11 16:17
7440-41-7	Beryllium	1.16	0.128	0.257	0.642	2	D	SW6010C	1H23502	08/24/11 16:17
7440-43-9	Cadmium		0.128	0.257	0.642	2	U	SW6010C	1H23502	08/24/11 16:17
7440-70-2	Calcium	15800	128	257	642	2	D	SW6010C	1H23502	08/24/11 16:17
7440-47-3	Chromium	22.2	0.257	0.514	1.28	2	D N	SW6010C	1H23502	08/24/11 16:17
7440-48-4	Cobalt	3.98	0.642	1.28	1.61	2	D	SW6010C	1H23502	08/24/11 16:17
7440-50-8	Copper	3.67	0.514	1.03	1.28	2	D	SW6010C	1H23502	08/24/11 16:17
7439-89-6	Iron	20200	3.85	7.71	12.8	2	D	SW6010C	1H23502	08/24/11 16:17
7439-92-1	Lead	11.7	0.193	0.385	0.385	2	D	SW6010C	1H23502	08/24/11 16:17
7439-95-4	Magnesium	3440	128	385	642	2	D	SW6010C	1H23502	08/24/11 16:17
7439-96-5	Manganese	192	0.385	0.771	1.93	2	D	SW6010C	1H23502	08/24/11 16:17
7440-02-0	Nickel	6.07	0.385	0.771	1.28	2	D	SW6010C	1H23502	08/24/11 16:17
7440-09-7	Potassium	1660	128	385	642	2	D	SW6010C	1H23502	08/24/11 16:17
7782-49-2	Selenium		0.385	0.642	1.28	2	U	SW6010C	1H23502	08/24/11 16:17
7440-22-4	Silver		0.257	0.257	1.28	2	M U	SW6010C	1H23502	08/24/11 16:17
7440-23-5	Sodium	196	128	385	642	2	D I	SW6010C	1H23502	08/24/11 16:17
7440-28-0	Thallium		0.385	0.514	1.03	2	U	SW6010C	1H23502	08/24/11 16:17
7440-62-2	Vanadium	26.2	0.642	1.28	1.61	2	D	SW6010C	1H23502	08/24/11 16:17
7440-66-6	Zinc	26.2	0.642	1.28	2.57	2	D	SW6010C	1H23502	08/24/11 16:17

ANALYSIS DATA SHEET

55SS02-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 12:40
% Solids: 68.99

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-18
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.537	0.0188	0.0478	0.0478	1		SW7471B	1H23507	08/25/11 13:38
7429-90-5	Aluminum	15700	17.4	34.8	69.7	5	D	SW6010C	1H23502	08/24/11 17:42
7440-36-0	Antimony		1.74	2.79	3.48	5	UN	SW6010C	1H23502	08/24/11 17:42
7440-38-2	Arsenic	7.73	1.05	2.09	3.48	5	D	SW6010C	1H23502	08/24/11 17:42
7440-39-3	Barium	44.8	1.74	3.48	13.9	5	D	SW6010C	1H23502	08/24/11 17:42
7440-41-7	Beryllium	0.520	0.348	0.697	1.74	5	D I	SW6010C	1H23502	08/24/11 17:42
7440-43-9	Cadmium	2.01	0.348	0.697	1.74	5	D	SW6010C	1H23502	08/24/11 17:42
7440-70-2	Calcium	2300	348	697	1740	5	D	SW6010C	1H23502	08/24/11 17:42
7440-47-3	Chromium	79.0	0.697	1.39	3.48	5	D N	SW6010C	1H23502	08/24/11 17:42
7440-48-4	Cobalt		1.74	3.48	4.36	5	U	SW6010C	1H23502	08/24/11 17:42
7440-50-8	Copper	30.1	1.39	2.79	3.48	5	D	SW6010C	1H23502	08/24/11 17:42
7439-89-6	Iron	26400	10.5	20.9	34.8	5	D	SW6010C	1H23502	08/24/11 17:42
7439-92-1	Lead	62.1	0.523	1.05	1.05	5	D	SW6010C	1H23502	08/24/11 17:42
7439-95-4	Magnesium	1750	348	1050	1740	5	D	SW6010C	1H23502	08/24/11 17:42
7439-96-5	Manganese	90.3	1.05	2.09	5.23	5	D	SW6010C	1H23502	08/24/11 17:42
7440-02-0	Nickel	7.47	1.05	2.09	3.48	5	D	SW6010C	1H23502	08/24/11 17:42
7440-09-7	Potassium	1030	348	1050	1740	5	D I	SW6010C	1H23502	08/24/11 17:42
7782-49-2	Selenium	2.28	1.05	1.74	3.48	5	D I	SW6010C	1H23502	08/24/11 17:42
7440-22-4	Silver	2.68	0.348	0.697	3.48	5	D I	SW6010C	1H23502	08/24/11 17:42
7440-23-5	Sodium		348	1050	1740	5	U	SW6010C	1H23502	08/24/11 17:42
7440-28-0	Thallium		1.05	1.39	2.79	5	U	SW6010C	1H23502	08/24/11 17:42
7440-62-2	Vanadium	27.4	1.74	3.48	4.36	5	D	SW6010C	1H23502	08/24/11 17:42
7440-66-6	Zinc	72.8	1.74	3.48	6.97	5	D	SW6010C	1H23502	08/24/11 17:42

ANALYSIS DATA SHEET

55SS02-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 12:45
% Solids: 96.74

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-19
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0122	0.0310	0.0330	1	U	SW7471B	1H23507	08/25/11 13:39
7429-90-5	Aluminum	263	5.09	10.2	20.4	2	D	SW6010C	1H23502	08/24/11 17:46
7440-36-0	Antimony		0.509	0.815	1.02	2	UN	SW6010C	1H23502	08/24/11 17:46
7440-38-2	Arsenic		0.306	0.611	1.02	2	U	SW6010C	1H23502	08/24/11 17:46
7440-39-3	Barium	1.17	0.509	1.02	4.07	2	D I	SW6010C	1H23502	08/24/11 17:46
7440-41-7	Beryllium		0.102	0.204	0.509	2	U	SW6010C	1H23502	08/24/11 17:46
7440-43-9	Cadmium		0.102	0.204	0.509	2	U	SW6010C	1H23502	08/24/11 17:46
7440-70-2	Calcium		102	204	509	2	U	SW6010C	1H23502	08/24/11 17:46
7440-47-3	Chromium	1.58	0.204	0.407	1.02	2	D N	SW6010C	1H23502	08/24/11 17:46
7440-48-4	Cobalt		0.509	1.02	1.27	2	U	SW6010C	1H23502	08/24/11 17:46
7440-50-8	Copper		0.407	0.815	1.02	2	U	SW6010C	1H23502	08/24/11 17:46
7439-89-6	Iron	341	3.06	6.11	10.2	2	D	SW6010C	1H23502	08/24/11 17:46
7439-92-1	Lead	2.60	0.153	0.306	0.306	2	D	SW6010C	1H23502	08/24/11 17:46
7439-95-4	Magnesium		102	306	509	2	U	SW6010C	1H23502	08/24/11 17:46
7439-96-5	Manganese	1.54	0.306	0.611	1.53	2	D	SW6010C	1H23502	08/24/11 17:46
7440-02-0	Nickel		0.306	0.611	1.02	2	U	SW6010C	1H23502	08/24/11 17:46
7440-09-7	Potassium		102	306	509	2	U	SW6010C	1H23502	08/24/11 17:46
7782-49-2	Selenium		0.306	0.509	1.02	2	U	SW6010C	1H23502	08/24/11 17:46
7440-22-4	Silver		0.102	0.204	1.02	2	U	SW6010C	1H23502	08/24/11 17:46
7440-23-5	Sodium		102	306	509	2	U	SW6010C	1H23502	08/24/11 17:46
7440-28-0	Thallium		0.306	0.407	0.815	2	U	SW6010C	1H23502	08/24/11 17:46
7440-62-2	Vanadium	0.669	0.509	1.02	1.27	2	D I	SW6010C	1H23502	08/24/11 17:46
7440-66-6	Zinc	1.55	0.509	1.02	2.04	2	D I	SW6010C	1H23502	08/24/11 17:46

ANALYSIS DATA SHEET

55SS03-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 11:20
% Solids: 84.79

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-30
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0752	0.0148	0.0377	0.0377	1		SW7471B	1H23511	08/25/11 14:00
7429-90-5	Aluminum	7420	5.87	11.7	23.5	2	D	SW6010C	1H23503	08/24/11 19:18
7440-36-0	Antimony		0.587	0.939	1.17	2	UN	SW6010C	1H23503	08/24/11 19:18
7440-38-2	Arsenic	4.78	0.352	0.704	1.17	2	D	SW6010C	1H23503	08/24/11 19:18
7440-39-3	Barium	23.6	0.587	1.17	4.69	2	D	SW6010C	1H23503	08/24/11 19:18
7440-41-7	Beryllium	0.817	0.117	0.235	0.587	2	D	SW6010C	1H23503	08/24/11 19:18
7440-43-9	Cadmium	0.805	0.117	0.235	0.587	2	D	SW6010C	1H23503	08/24/11 19:18
7440-70-2	Calcium	6890	117	235	587	2	D	SW6010C	1H23503	08/24/11 19:18
7440-47-3	Chromium	17.7	0.235	0.469	1.17	2	D N	SW6010C	1H23503	08/24/11 19:18
7440-48-4	Cobalt	2.83	0.587	1.17	1.47	2	D	SW6010C	1H23503	08/24/11 19:18
7440-50-8	Copper	6.58	0.469	0.939	1.17	2	D	SW6010C	1H23503	08/24/11 19:18
7439-89-6	Iron	12200	3.52	7.04	11.7	2	Q D	SW6010C	1H23503	08/24/11 19:18
7439-92-1	Lead	17.4	0.176	0.352	0.352	2	D	SW6010C	1H23503	08/24/11 19:18
7439-95-4	Magnesium	2090	117	352	587	2	D	SW6010C	1H23503	08/24/11 19:18
7439-96-5	Manganese	155	0.352	0.704	1.76	2	D N	SW6010C	1H23503	08/24/11 19:18
7440-02-0	Nickel	5.90	0.352	0.704	1.17	2	D	SW6010C	1H23503	08/24/11 19:18
7440-09-7	Potassium	1140	117	352	587	2	D N	SW6010C	1H23503	08/24/11 19:18
7782-49-2	Selenium		0.352	0.587	1.17	2	U	SW6010C	1H23503	08/24/11 19:18
7440-22-4	Silver		0.117	0.235	1.17	2	U	SW6010C	1H23503	08/24/11 19:18
7440-23-5	Sodium		117	352	587	2	U	SW6010C	1H23503	08/24/11 19:18
7440-28-0	Thallium		0.352	0.469	0.939	2	U	SW6010C	1H23503	08/24/11 19:18
7440-62-2	Vanadium	17.8	0.587	1.17	1.47	2	D	SW6010C	1H23503	08/24/11 19:18
7440-66-6	Zinc	35.9	0.587	1.17	2.35	2	D	SW6010C	1H23503	08/24/11 19:18

ANALYSIS DATA SHEET

55SS03-000XD

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 11:20
% Solids: 84.34

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-31
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0480	0.0149	0.0379	0.0379	1		SW7471B	1H23511	08/25/11 14:01
7429-90-5	Aluminum	7500	5.81	11.6	23.2	2	D	SW6010C	1H23503	08/24/11 19:36
7440-36-0	Antimony		0.581	0.930	1.16	2	UN	SW6010C	1H23503	08/24/11 19:36
7440-38-2	Arsenic	4.52	0.349	0.697	1.16	2	D	SW6010C	1H23503	08/24/11 19:36
7440-39-3	Barium	19.8	0.581	1.16	4.65	2	D	SW6010C	1H23503	08/24/11 19:36
7440-41-7	Beryllium	0.820	0.116	0.232	0.581	2	D	SW6010C	1H23503	08/24/11 19:36
7440-43-9	Cadmium	0.434	0.116	0.232	0.581	2	D I	SW6010C	1H23503	08/24/11 19:36
7440-70-2	Calcium	4540	116	232	581	2	D	SW6010C	1H23503	08/24/11 19:36
7440-47-3	Chromium	16.2	0.232	0.465	1.16	2	D N	SW6010C	1H23503	08/24/11 19:36
7440-48-4	Cobalt	2.88	0.581	1.16	1.45	2	D	SW6010C	1H23503	08/24/11 19:36
7440-50-8	Copper	3.65	0.465	0.930	1.16	2	D	SW6010C	1H23503	08/24/11 19:36
7439-89-6	Iron	11700	3.49	6.97	11.6	2	Q D	SW6010C	1H23503	08/24/11 19:36
7439-92-1	Lead	13.9	0.174	0.349	0.349	2	D	SW6010C	1H23503	08/24/11 19:36
7439-95-4	Magnesium	2050	116	349	581	2	D	SW6010C	1H23503	08/24/11 19:36
7439-96-5	Manganese	107	0.349	0.697	1.74	2	D N	SW6010C	1H23503	08/24/11 19:36
7440-02-0	Nickel	4.63	0.349	0.697	1.16	2	D	SW6010C	1H23503	08/24/11 19:36
7440-09-7	Potassium	1150	116	349	581	2	D N	SW6010C	1H23503	08/24/11 19:36
7782-49-2	Selenium		0.349	0.581	1.16	2	U	SW6010C	1H23503	08/24/11 19:36
7440-22-4	Silver		0.116	0.232	1.16	2	U	SW6010C	1H23503	08/24/11 19:36
7440-23-5	Sodium		116	349	581	2	U	SW6010C	1H23503	08/24/11 19:36
7440-28-0	Thallium		0.349	0.465	0.930	2	U	SW6010C	1H23503	08/24/11 19:36
7440-62-2	Vanadium	17.1	0.581	1.16	1.45	2	D	SW6010C	1H23503	08/24/11 19:36
7440-66-6	Zinc	23.9	0.581	1.16	2.32	2	D	SW6010C	1H23503	08/24/11 19:36

ANALYSIS DATA SHEET

55SS03-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 11:35
% Solids: 73.99

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-32
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0311	0.0170	0.0432	0.0432	1	1	SW7471B	1H23511	08/25/11 14:02
7429-90-5	Aluminum	10700	6.76	13.5	27.0	2	D	SW6010C	1H23503	08/24/11 19:40
7440-36-0	Antimony		0.676	1.08	1.35	2	UN	SW6010C	1H23503	08/24/11 19:40
7440-38-2	Arsenic	6.39	0.405	0.811	1.35	2	D	SW6010C	1H23503	08/24/11 19:40
7440-39-3	Barium	40.7	0.676	1.35	5.41	2	D	SW6010C	1H23503	08/24/11 19:40
7440-41-7	Beryllium	1.26	0.135	0.270	0.676	2	D	SW6010C	1H23503	08/24/11 19:40
7440-43-9	Cadmium		0.135	0.270	0.676	2	U	SW6010C	1H23503	08/24/11 19:40
7440-70-2	Calcium	14600	135	270	676	2	D	SW6010C	1H23503	08/24/11 19:40
7440-47-3	Chromium	20.5	0.270	0.541	1.35	2	D N	SW6010C	1H23503	08/24/11 19:40
7440-48-4	Cobalt	3.51	0.676	1.35	1.69	2	D	SW6010C	1H23503	08/24/11 19:40
7440-50-8	Copper	4.59	0.541	1.08	1.35	2	D	SW6010C	1H23503	08/24/11 19:40
7439-89-6	Iron	17700	4.05	8.11	13.5	2	Q D	SW6010C	1H23503	08/24/11 19:40
7439-92-1	Lead	11.3	0.203	0.405	0.405	2	D	SW6010C	1H23503	08/24/11 19:40
7439-95-4	Magnesium	3170	135	405	676	2	D	SW6010C	1H23503	08/24/11 19:40
7439-96-5	Manganese	95.7	0.405	0.811	2.03	2	D N	SW6010C	1H23503	08/24/11 19:40
7440-02-0	Nickel	6.26	0.405	0.811	1.35	2	D	SW6010C	1H23503	08/24/11 19:40
7440-09-7	Potassium	1410	135	405	676	2	D N	SW6010C	1H23503	08/24/11 19:40
7782-49-2	Selenium		0.405	0.676	1.35	2	U	SW6010C	1H23503	08/24/11 19:40
7440-22-4	Silver		0.135	0.270	1.35	2	U	SW6010C	1H23503	08/24/11 19:40
7440-23-5	Sodium	664	135	405	676	2	D 1	SW6010C	1H23503	08/24/11 19:40
7440-28-0	Thallium		0.405	0.541	1.08	2	U	SW6010C	1H23503	08/24/11 19:40
7440-62-2	Vanadium	21.0	0.676	1.35	1.69	2	D	SW6010C	1H23503	08/24/11 19:40
7440-66-6	Zinc	23.2	0.676	1.35	2.70	2	D	SW6010C	1H23503	08/24/11 19:40

ANALYSIS DATA SHEET

55SS04-000X

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Matrix: Solid

Sampled: 08/12/11 09:00

% Solids: 73.01

SDG: 1108171

Project: NAS Jacksonville CTOJM19

Laboratory ID: 1108171-22

Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.588	0.0191	0.0484	0.0484	1		SW7471B	1H23511	08/25/11 13:48
7429-90-5	Aluminum	15500	17.6	35.1	70.2	5	D	SW6010C	1H23503	08/24/11 18:43
7440-36-0	Antimony		1.76	2.81	3.51	5	UN	SW6010C	1H23503	08/24/11 18:43
7440-38-2	Arsenic	8.54	1.05	2.11	3.51	5	D	SW6010C	1H23503	08/24/11 18:43
7440-39-3	Barium	36.0	1.76	3.51	14.0	5	D	SW6010C	1H23503	08/24/11 18:43
7440-41-7	Beryllium	0.566	0.351	0.702	1.76	5	D I	SW6010C	1H23503	08/24/11 18:43
7440-43-9	Cadmium	5.10	0.351	0.702	1.76	5	D	SW6010C	1H23503	08/24/11 18:43
7440-70-2	Calcium	2890	351	702	1760	5	D	SW6010C	1H23503	08/24/11 18:43
7440-47-3	Chromium	62.8	0.702	1.40	3.51	5	D N	SW6010C	1H23503	08/24/11 18:43
7440-48-4	Cobalt		1.76	3.51	4.39	5	U	SW6010C	1H23503	08/24/11 18:43
7440-50-8	Copper	25.8	1.40	2.81	3.51	5	D	SW6010C	1H23503	08/24/11 18:43
7439-89-6	Iron	31900	10.5	21.1	35.1	5	Q D	SW6010C	1H23503	08/24/11 18:43
7439-92-1	Lead	54.4	0.527	1.05	1.05	5	D	SW6010C	1H23503	08/24/11 18:43
7439-95-4	Magnesium	1790	351	1050	1760	5	D	SW6010C	1H23503	08/24/11 18:43
7439-96-5	Manganese	134	1.05	2.11	5.27	5	D N	SW6010C	1H23503	08/24/11 18:43
7440-02-0	Nickel	8.36	1.05	2.11	3.51	5	D	SW6010C	1H23503	08/24/11 18:43
7440-09-7	Potassium	922	351	1050	1760	5	D IN	SW6010C	1H23503	08/24/11 18:43
7782-49-2	Selenium	2.78	1.05	1.76	3.51	5	D I	SW6010C	1H23503	08/24/11 18:43
7440-22-4	Silver	1.60	0.351	0.702	3.51	5	D I	SW6010C	1H23503	08/24/11 18:43
7440-23-5	Sodium		351	1050	1760	5	U	SW6010C	1H23503	08/24/11 18:43
7440-28-0	Thallium		1.05	1.40	2.81	5	U	SW6010C	1H23503	08/24/11 18:43
7440-62-2	Vanadium	30.5	1.76	3.51	4.39	5	D	SW6010C	1H23503	08/24/11 18:43
7440-66-6	Zinc	75.5	1.76	3.51	7.02	5	D	SW6010C	1H23503	08/24/11 18:43

ANALYSIS DATA SHEET

55SS04-000XD

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 09:00
% Solids: 65.30

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-23
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.645	0.0213	0.0541	0.0541	1		SW7471B	1H23511	08/25/11 13:49
7429-90-5	Aluminum	17200	18.3	36.6	73.3	5	D	SW6010C	1H23503	08/24/11 18:48
7440-36-0	Antimony		1.83	2.93	3.66	5	UN	SW6010C	1H23503	08/24/11 18:48
7440-38-2	Arsenic	8.34	1.10	2.20	3.66	5	D	SW6010C	1H23503	08/24/11 18:48
7440-39-3	Barium	32.6	1.83	3.66	14.7	5	D	SW6010C	1H23503	08/24/11 18:48
7440-41-7	Beryllium	0.572	0.366	0.733	1.83	5	D I	SW6010C	1H23503	08/24/11 18:48
7440-43-9	Cadmium	4.47	0.366	0.733	1.83	5	D	SW6010C	1H23503	08/24/11 18:48
7440-70-2	Calcium	2010	366	733	1830	5	D	SW6010C	1H23503	08/24/11 18:48
7440-47-3	Chromium	79.7	0.733	1.47	3.66	5	D N	SW6010C	1H23503	08/24/11 18:48
7440-48-4	Cobalt		1.83	3.66	4.58	5	U	SW6010C	1H23503	08/24/11 18:48
7440-50-8	Copper	32.0	1.47	2.93	3.66	5	D	SW6010C	1H23503	08/24/11 18:48
7439-89-6	Iron	29000	11.0	22.0	36.6	5	Q D	SW6010C	1H23503	08/24/11 18:48
7439-92-1	Lead	65.7	0.550	1.10	1.10	5	D	SW6010C	1H23503	08/24/11 18:48
7439-95-4	Magnesium	1820	366	1100	1830	5	D I	SW6010C	1H23503	08/24/11 18:48
7439-96-5	Manganese	100	1.10	2.20	5.50	5	D N	SW6010C	1H23503	08/24/11 18:48
7440-02-0	Nickel	8.36	1.10	2.20	3.66	5	D	SW6010C	1H23503	08/24/11 18:48
7440-09-7	Potassium	932	366	1100	1830	5	D IN	SW6010C	1H23503	08/24/11 18:48
7782-49-2	Selenium	2.65	1.10	1.83	3.66	5	D I	SW6010C	1H23503	08/24/11 18:48
7440-22-4	Silver	3.21	0.366	0.733	3.66	5	D I	SW6010C	1H23503	08/24/11 18:48
7440-23-5	Sodium		366	1100	1830	5	U	SW6010C	1H23503	08/24/11 18:48
7440-28-0	Thallium		1.10	1.47	2.93	5	U	SW6010C	1H23503	08/24/11 18:48
7440-62-2	Vanadium	30.3	1.83	3.66	4.58	5	D	SW6010C	1H23503	08/24/11 18:48
7440-66-6	Zinc	85.1	1.83	3.66	7.33	5	D	SW6010C	1H23503	08/24/11 18:48

ANALYSIS DATA SHEET

55SS04-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 09:05
% Solids: 67.84

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-38
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.557	0.0192	0.0486	0.0486	1		SW7471B	1H23511	08/25/11 14:13
7429-90-5	Aluminum	15400	17.9	35.8	71.6	5	D	SW6010C	1H23503	08/24/11 20:21
7440-36-0	Antimony		1.79	2.86	3.58	5	UN	SW6010C	1H23503	08/24/11 20:21
7440-38-2	Arsenic	9.03	1.07	2.15	3.58	5	D	SW6010C	1H23503	08/24/11 20:21
7440-39-3	Barium	29.3	1.79	3.58	14.3	5	D	SW6010C	1H23503	08/24/11 20:21
7440-41-7	Beryllium	0.472	0.358	0.716	1.79	5	D I	SW6010C	1H23503	08/24/11 20:21
7440-43-9	Cadmium	2.57	0.358	0.716	1.79	5	D	SW6010C	1H23503	08/24/11 20:21
7440-70-2	Calcium	977	358	716	1790	5	D I	SW6010C	1H23503	08/24/11 20:21
7440-47-3	Chromium	64.0	0.716	1.43	3.58	5	D N	SW6010C	1H23503	08/24/11 20:21
7440-48-4	Cobalt		1.79	3.58	4.47	5	U	SW6010C	1H23503	08/24/11 20:21
7440-50-8	Copper	27.6	1.43	2.86	3.58	5	D	SW6010C	1H23503	08/24/11 20:21
7439-89-6	Iron	33100	10.7	21.5	35.8	5	Q D	SW6010C	1H23503	08/24/11 20:21
7439-92-1	Lead	58.8	0.537	1.07	1.07	5	D	SW6010C	1H23503	08/24/11 20:21
7439-95-4	Magnesium	1630	358	1070	1790	5	D I	SW6010C	1H23503	08/24/11 20:21
7439-96-5	Manganese	60.3	1.07	2.15	5.37	5	D N	SW6010C	1H23503	08/24/11 20:21
7440-02-0	Nickel	7.04	1.07	2.15	3.58	5	D	SW6010C	1H23503	08/24/11 20:21
7440-09-7	Potassium	993	358	1070	1790	5	D IN	SW6010C	1H23503	08/24/11 20:21
7782-49-2	Selenium	2.55	1.07	1.79	3.58	5	D I	SW6010C	1H23503	08/24/11 20:21
7440-22-4	Silver	1.67	0.358	0.716	3.58	5	D I	SW6010C	1H23503	08/24/11 20:21
7440-23-5	Sodium		358	1070	1790	5	U	SW6010C	1H23503	08/24/11 20:21
7440-28-0	Thallium		1.07	1.43	2.86	5	U	SW6010C	1H23503	08/24/11 20:21
7440-62-2	Vanadium	30.6	1.79	3.58	4.47	5	D	SW6010C	1H23503	08/24/11 20:21
7440-66-6	Zinc	69.2	1.79	3.58	7.16	5	D	SW6010C	1H23503	08/24/11 20:21

ANALYSIS DATA SHEET

55SS04-0X02D

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 09:05
% Solids: 68.36

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-24
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.698	0.0204	0.0517	0.0517	1		SW7471B	1H23511	08/25/11 13:53
7429-90-5	Aluminum	15700	17.4	34.8	69.7	5	D	SW6010C	1H23503	08/24/11 18:52
7440-36-0	Antimony		1.74	2.79	3.48	5	UN	SW6010C	1H23503	08/24/11 18:52
7440-38-2	Arsenic	8.65	1.04	2.09	3.48	5	D	SW6010C	1H23503	08/24/11 18:52
7440-39-3	Barium	33.4	1.74	3.48	13.9	5	D	SW6010C	1H23503	08/24/11 18:52
7440-41-7	Beryllium	0.517	0.348	0.697	1.74	5	D I	SW6010C	1H23503	08/24/11 18:52
7440-43-9	Cadmium	4.24	0.348	0.697	1.74	5	D	SW6010C	1H23503	08/24/11 18:52
7440-70-2	Calcium	1410	348	697	1740	5	D I	SW6010C	1H23503	08/24/11 18:52
7440-47-3	Chromium	68.6	0.697	1.39	3.48	5	D N	SW6010C	1H23503	08/24/11 18:52
7440-48-4	Cobalt		1.74	3.48	4.35	5	U	SW6010C	1H23503	08/24/11 18:52
7440-50-8	Copper	30.4	1.39	2.79	3.48	5	D	SW6010C	1H23503	08/24/11 18:52
7439-89-6	Iron	29700	10.4	20.9	34.8	5	Q D	SW6010C	1H23503	08/24/11 18:52
7439-92-1	Lead	65.2	0.522	1.04	1.04	5	D	SW6010C	1H23503	08/24/11 18:52
7439-95-4	Magnesium	1670	348	1040	1740	5	D I	SW6010C	1H23503	08/24/11 18:52
7439-96-5	Manganese	94.0	1.04	2.09	5.22	5	D N	SW6010C	1H23503	08/24/11 18:52
7440-02-0	Nickel	7.67	1.04	2.09	3.48	5	D	SW6010C	1H23503	08/24/11 18:52
7440-09-7	Potassium	936	348	1040	1740	5	D IN	SW6010C	1H23503	08/24/11 18:52
7782-49-2	Selenium	2.75	1.04	1.74	3.48	5	D I	SW6010C	1H23503	08/24/11 18:52
7440-22-4	Silver	1.99	0.348	0.697	3.48	5	D I	SW6010C	1H23503	08/24/11 18:52
7440-23-5	Sodium		348	1040	1740	5	U	SW6010C	1H23503	08/24/11 18:52
7440-28-0	Thallium		1.04	1.39	2.79	5	U	SW6010C	1H23503	08/24/11 18:52
7440-62-2	Vanadium	30.2	1.74	3.48	4.35	5	D	SW6010C	1H23503	08/24/11 18:52
7440-66-6	Zinc	80.6	1.74	3.48	6.97	5	D	SW6010C	1H23503	08/24/11 18:52

ANALYSIS DATA SHEET

55SS05-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 09:35
% Solids: 85.53

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-07
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0389	0.0147	0.0373	0.0373	1		SW7471B	1H23507	08/25/11 13:20
7429-90-5	Aluminum	9680	5.88	11.8	23.5	2	D	SW6010C	1H23502	08/24/11 16:40
7440-36-0	Antimony		0.588	0.940	1.18	2	UN	SW6010C	1H23502	08/24/11 16:40
7440-38-2	Arsenic	6.97	0.353	0.705	1.18	2	D	SW6010C	1H23502	08/24/11 16:40
7440-39-3	Barium	32.1	0.588	1.18	4.70	2	D	SW6010C	1H23502	08/24/11 16:40
7440-41-7	Beryllium	1.13	0.118	0.235	0.588	2	D	SW6010C	1H23502	08/24/11 16:40
7440-43-9	Cadmium	0.199	0.118	0.235	0.588	2	D1	SW6010C	1H23502	08/24/11 16:40
7440-70-2	Calcium	5400	118	235	588	2	D	SW6010C	1H23502	08/24/11 16:40
7440-47-3	Chromium	18.7	0.235	0.470	1.18	2	D N	SW6010C	1H23502	08/24/11 16:40
7440-48-4	Cobalt	4.46	0.588	1.18	1.47	2	D	SW6010C	1H23502	08/24/11 16:40
7440-50-8	Copper	4.11	0.470	0.940	1.18	2	D	SW6010C	1H23502	08/24/11 16:40
7439-89-6	Iron	15600	3.53	7.05	11.8	2	D	SW6010C	1H23502	08/24/11 16:40
7439-92-1	Lead	12.2	0.176	0.353	0.353	2	D	SW6010C	1H23502	08/24/11 16:40
7439-95-4	Magnesium	2660	118	353	588	2	D	SW6010C	1H23502	08/24/11 16:40
7439-96-5	Manganese	150	0.353	0.705	1.76	2	D	SW6010C	1H23502	08/24/11 16:40
7440-02-0	Nickel	6.67	0.353	0.705	1.18	2	D	SW6010C	1H23502	08/24/11 16:40
7440-09-7	Potassium	1660	118	353	588	2	D	SW6010C	1H23502	08/24/11 16:40
7782-49-2	Selenium		0.353	0.588	1.18	2	U	SW6010C	1H23502	08/24/11 16:40
7440-22-4	Silver	0.178	0.118	0.235	1.18	2	D1	SW6010C	1H23502	08/24/11 16:40
7440-23-5	Sodium		118	353	588	2	U	SW6010C	1H23502	08/24/11 16:40
7440-28-0	Thallium		0.353	0.470	0.940	2	U	SW6010C	1H23502	08/24/11 16:40
7440-62-2	Vanadium	20.0	0.588	1.18	1.47	2	D	SW6010C	1H23502	08/24/11 16:40
7440-66-6	Zinc	23.5	0.588	1.18	2.35	2	D	SW6010C	1H23502	08/24/11 16:40

ANALYSIS DATA SHEET

55SS05-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 09:40
% Solids: 83.90

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-08
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0272	0.0166	0.0421	0.0421	1	I	SW7471B	1H23507	08/25/11 13:24
7429-90-5	Aluminum	9930	5.96	11.9	23.8	2	D	SW6010C	1H23502	08/24/11 16:44
7440-36-0	Antimony		0.596	0.954	1.19	2	UN	SW6010C	1H23502	08/24/11 16:44
7440-38-2	Arsenic	6.52	0.358	0.715	1.19	2	D	SW6010C	1H23502	08/24/11 16:44
7440-39-3	Barium	34.2	0.596	1.19	4.77	2	D	SW6010C	1H23502	08/24/11 16:44
7440-41-7	Beryllium	1.06	0.119	0.238	0.596	2	D	SW6010C	1H23502	08/24/11 16:44
7440-43-9	Cadmium		0.119	0.238	0.596	2	U	SW6010C	1H23502	08/24/11 16:44
7440-70-2	Calcium	31500	119	238	596	2	D	SW6010C	1H23502	08/24/11 16:44
7440-47-3	Chromium	17.9	0.238	0.477	1.19	2	D N	SW6010C	1H23502	08/24/11 16:44
7440-48-4	Cobalt	4.49	0.596	1.19	1.49	2	D	SW6010C	1H23502	08/24/11 16:44
7440-50-8	Copper	3.24	0.477	0.954	1.19	2	D	SW6010C	1H23502	08/24/11 16:44
7439-89-6	Iron	16700	3.58	7.15	11.9	2	D	SW6010C	1H23502	08/24/11 16:44
7439-92-1	Lead	10.5	0.179	0.358	0.358	2	D	SW6010C	1H23502	08/24/11 16:44
7439-95-4	Magnesium	2620	119	358	596	2	D	SW6010C	1H23502	08/24/11 16:44
7439-96-5	Manganese	109	0.358	0.715	1.79	2	D	SW6010C	1H23502	08/24/11 16:44
7440-02-0	Nickel	6.13	0.358	0.715	1.19	2	D	SW6010C	1H23502	08/24/11 16:44
7440-09-7	Potassium	1360	119	358	596	2	D	SW6010C	1H23502	08/24/11 16:44
7782-49-2	Selenium		0.358	0.596	1.19	2	U	SW6010C	1H23502	08/24/11 16:44
7440-22-4	Silver		0.238	0.238	1.19	2	M U	SW6010C	1H23502	08/24/11 16:44
7440-23-5	Sodium	290	119	358	596	2	D I	SW6010C	1H23502	08/24/11 16:44
7440-28-0	Thallium		0.358	0.477	0.954	2	U	SW6010C	1H23502	08/24/11 16:44
7440-62-2	Vanadium	20.2	0.596	1.19	1.49	2	D	SW6010C	1H23502	08/24/11 16:44
7440-66-6	Zinc	22.9	0.596	1.19	2.38	2	D	SW6010C	1H23502	08/24/11 16:44

ANALYSIS DATA SHEET

55SS06-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 11:00
% Solids: 64.57

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-11
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.505	0.0216	0.0548	0.0548	1		SW7471B	1H23507	08/25/11 13:27
7429-90-5	Aluminum	13300	19.9	39.7	79.4	5	D	SW6010C	1H23502	08/24/11 17:11
7440-36-0	Antimony		1.99	3.18	3.97	5	UN	SW6010C	1H23502	08/24/11 17:11
7440-38-2	Arsenic	10.3	1.19	2.38	3.97	5	D	SW6010C	1H23502	08/24/11 17:11
7440-39-3	Barium	36.7	1.99	3.97	15.9	5	D	SW6010C	1H23502	08/24/11 17:11
7440-41-7	Beryllium	0.707	0.397	0.794	1.99	5	D I	SW6010C	1H23502	08/24/11 17:11
7440-43-9	Cadmium	7.12	0.397	0.794	1.99	5	D	SW6010C	1H23502	08/24/11 17:11
7440-70-2	Calcium	5870	397	794	1990	5	D	SW6010C	1H23502	08/24/11 17:11
7440-47-3	Chromium	63.4	0.794	1.59	3.97	5	D N	SW6010C	1H23502	08/24/11 17:11
7440-48-4	Cobalt		1.99	3.97	4.96	5	U	SW6010C	1H23502	08/24/11 17:11
7440-50-8	Copper	24.4	1.59	3.18	3.97	5	D	SW6010C	1H23502	08/24/11 17:11
7439-89-6	Iron	32200	11.9	23.8	39.7	5	D	SW6010C	1H23502	08/24/11 17:11
7439-92-1	Lead	56.6	0.596	1.19	1.19	5	D	SW6010C	1H23502	08/24/11 17:11
7439-95-4	Magnesium	1930	397	1190	1990	5	D I	SW6010C	1H23502	08/24/11 17:11
7439-96-5	Manganese	127	1.19	2.38	5.96	5	D	SW6010C	1H23502	08/24/11 17:11
7440-02-0	Nickel	9.57	1.19	2.38	3.97	5	D	SW6010C	1H23502	08/24/11 17:11
7440-09-7	Potassium	874	397	1190	1990	5	D I	SW6010C	1H23502	08/24/11 17:11
7782-49-2	Selenium	2.50	1.19	1.99	3.97	5	D I	SW6010C	1H23502	08/24/11 17:11
7440-22-4	Silver	1.90	0.397	0.794	3.97	5	D I	SW6010C	1H23502	08/24/11 17:11
7440-23-5	Sodium		397	1190	1990	5	U	SW6010C	1H23502	08/24/11 17:11
7440-28-0	Thallium		1.19	1.59	3.18	5	U	SW6010C	1H23502	08/24/11 17:11
7440-62-2	Vanadium	25.6	1.99	3.97	4.96	5	D	SW6010C	1H23502	08/24/11 17:11
7440-66-6	Zinc	73.6	1.99	3.97	7.94	5	D	SW6010C	1H23502	08/24/11 17:11

ANALYSIS DATA SHEET

55SS06-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 11:05
% Solids: 64.86

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-12
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.589	0.0172	0.0436	0.0436	1		SW7471B	1H23507	08/25/11 13:29
7429-90-5	Aluminum	35600	19.0	38.0	75.9	5	D	SW6010C	1H23502	08/24/11 17:15
7440-36-0	Antimony		1.90	3.04	3.80	5	UN	SW6010C	1H23502	08/24/11 17:15
7440-38-2	Arsenic	14.1	1.14	2.28	3.80	5	D	SW6010C	1H23502	08/24/11 17:15
7440-39-3	Barium	96.3	1.90	3.80	15.2	5	D	SW6010C	1H23502	08/24/11 17:15
7440-41-7	Beryllium	2.22	0.380	0.759	1.90	5	D	SW6010C	1H23502	08/24/11 17:15
7440-43-9	Cadmium	18.7	0.380	0.759	1.90	5	D	SW6010C	1H23502	08/24/11 17:15
7440-70-2	Calcium	17500	380	759	1900	5	D	SW6010C	1H23502	08/24/11 17:15
7440-47-3	Chromium	265	0.759	1.52	3.80	5	D N	SW6010C	1H23502	08/24/11 17:15
7440-48-4	Cobalt	4.65	1.90	3.80	4.75	5	D I	SW6010C	1H23502	08/24/11 17:15
7440-50-8	Copper	84.5	1.52	3.04	3.80	5	D	SW6010C	1H23502	08/24/11 17:15
7439-89-6	Iron	33500	11.4	22.8	38.0	5	D	SW6010C	1H23502	08/24/11 17:15
7439-92-1	Lead	226	0.570	1.14	1.14	5	D	SW6010C	1H23502	08/24/11 17:15
7439-95-4	Magnesium	4900	380	1140	1900	5	D	SW6010C	1H23502	08/24/11 17:15
7439-96-5	Manganese	142	1.14	2.28	5.70	5	D	SW6010C	1H23502	08/24/11 17:15
7440-02-0	Nickel	32.3	1.14	2.28	3.80	5	D	SW6010C	1H23502	08/24/11 17:15
7440-09-7	Potassium	2210	380	1140	1900	5	D	SW6010C	1H23502	08/24/11 17:15
7782-49-2	Selenium	5.83	1.14	1.90	3.80	5	D	SW6010C	1H23502	08/24/11 17:15
7440-22-4	Silver	8.12	0.380	0.759	3.80	5	D	SW6010C	1H23502	08/24/11 17:15
7440-23-5	Sodium	529	380	1140	1900	5	D I	SW6010C	1H23502	08/24/11 17:15
7440-28-0	Thallium		1.14	1.52	3.04	5	U	SW6010C	1H23502	08/24/11 17:15
7440-62-2	Vanadium	60.3	1.90	3.80	4.75	5	D	SW6010C	1H23502	08/24/11 17:15
7440-66-6	Zinc	242	1.90	3.80	7.59	5	D	SW6010C	1H23502	08/24/11 17:15

ANALYSIS DATA SHEET

55SS07-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 10:20
% Solids: 83.33

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-27
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0448	0.0142	0.0360	0.0360	1		SW7471B	1H23511	08/25/11 13:56
7429-90-5	Aluminum	9240	5.91	11.8	23.6	2	D	SW6010C	1H23503	08/24/11 19:05
7440-36-0	Antimony		0.591	0.946	1.18	2	UN	SW6010C	1H23503	08/24/11 19:05
7440-38-2	Arsenic	5.29	0.355	0.709	1.18	2	D	SW6010C	1H23503	08/24/11 19:05
7440-39-3	Barium	21.4	0.591	1.18	4.73	2	D	SW6010C	1H23503	08/24/11 19:05
7440-41-7	Beryllium	1.05	0.118	0.236	0.591	2	D	SW6010C	1H23503	08/24/11 19:05
7440-43-9	Cadmium	0.144	0.118	0.236	0.591	2	D I	SW6010C	1H23503	08/24/11 19:05
7440-70-2	Calcium	5420	118	236	591	2	D	SW6010C	1H23503	08/24/11 19:05
7440-47-3	Chromium	18.4	0.236	0.473	1.18	2	D N	SW6010C	1H23503	08/24/11 19:05
7440-48-4	Cobalt	3.71	0.591	1.18	1.48	2	D	SW6010C	1H23503	08/24/11 19:05
7440-50-8	Copper	3.08	0.473	0.946	1.18	2	D	SW6010C	1H23503	08/24/11 19:05
7439-89-6	Iron	15400	3.55	7.09	11.8	2	Q D	SW6010C	1H23503	08/24/11 19:05
7439-92-1	Lead	14.6	0.177	0.355	0.355	2	D	SW6010C	1H23503	08/24/11 19:05
7439-95-4	Magnesium	2710	118	355	591	2	D	SW6010C	1H23503	08/24/11 19:05
7439-96-5	Manganese	145	0.355	0.709	1.77	2	D N	SW6010C	1H23503	08/24/11 19:05
7440-02-0	Nickel	6.10	0.355	0.709	1.18	2	D	SW6010C	1H23503	08/24/11 19:05
7440-09-7	Potassium	1740	118	355	591	2	D N	SW6010C	1H23503	08/24/11 19:05
7782-49-2	Selenium		0.355	0.591	1.18	2	U	SW6010C	1H23503	08/24/11 19:05
7440-22-4	Silver		0.118	0.236	1.18	2	U	SW6010C	1H23503	08/24/11 19:05
7440-23-5	Sodium		118	355	591	2	U	SW6010C	1H23503	08/24/11 19:05
7440-28-0	Thallium		0.355	0.473	0.946	2	U	SW6010C	1H23503	08/24/11 19:05
7440-62-2	Vanadium	20.3	0.591	1.18	1.48	2	D	SW6010C	1H23503	08/24/11 19:05
7440-66-6	Zinc	27.1	0.591	1.18	2.36	2	D	SW6010C	1H23503	08/24/11 19:05

ANALYSIS DATA SHEET

55SS07-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 10:25
% Solids: 77.55

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-28
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0152	0.0387	0.0387	1	U	SW7471B	1H23511	08/25/11 13:58
7429-90-5	Aluminum	5990	6.38	12.8	25.5	2	D	SW6010C	1H23503	08/24/11 19:10
7440-36-0	Antimony		0.638	1.02	1.28	2	UN	SW6010C	1H23503	08/24/11 19:10
7440-38-2	Arsenic	3.26	0.383	0.766	1.28	2	D	SW6010C	1H23503	08/24/11 19:10
7440-39-3	Barium	13.4	0.638	1.28	5.11	2	D	SW6010C	1H23503	08/24/11 19:10
7440-41-7	Beryllium	0.702	0.128	0.255	0.638	2	D	SW6010C	1H23503	08/24/11 19:10
7440-43-9	Cadmium		0.128	0.255	0.638	2	U	SW6010C	1H23503	08/24/11 19:10
7440-70-2	Calcium	6810	128	255	638	2	D	SW6010C	1H23503	08/24/11 19:10
7440-47-3	Chromium	11.9	0.255	0.511	1.28	2	D N	SW6010C	1H23503	08/24/11 19:10
7440-48-4	Cobalt	1.98	0.638	1.28	1.60	2	D	SW6010C	1H23503	08/24/11 19:10
7440-50-8	Copper	2.01	0.511	1.02	1.28	2	D	SW6010C	1H23503	08/24/11 19:10
7439-89-6	Iron	10600	3.83	7.66	12.8	2	Q D	SW6010C	1H23503	08/24/11 19:10
7439-92-1	Lead	6.49	0.192	0.383	0.383	2	D	SW6010C	1H23503	08/24/11 19:10
7439-95-4	Magnesium	1780	128	383	638	2	D	SW6010C	1H23503	08/24/11 19:10
7439-96-5	Manganese	69.9	0.383	0.766	1.92	2	D N	SW6010C	1H23503	08/24/11 19:10
7440-02-0	Nickel	3.67	0.383	0.766	1.28	2	D	SW6010C	1H23503	08/24/11 19:10
7440-09-7	Potassium	930	128	383	638	2	D N	SW6010C	1H23503	08/24/11 19:10
7782-49-2	Selenium		0.383	0.638	1.28	2	U	SW6010C	1H23503	08/24/11 19:10
7440-22-4	Silver		0.128	0.255	1.28	2	U	SW6010C	1H23503	08/24/11 19:10
7440-23-5	Sodium		128	383	638	2	U	SW6010C	1H23503	08/24/11 19:10
7440-28-0	Thallium		0.383	0.511	1.02	2	U	SW6010C	1H23503	08/24/11 19:10
7440-62-2	Vanadium	14.9	0.638	1.28	1.60	2	D	SW6010C	1H23503	08/24/11 19:10
7440-66-6	Zinc	13.2	0.638	1.28	2.55	2	D	SW6010C	1H23503	08/24/11 19:10

ANALYSIS DATA SHEET

55SS08-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 11:50
% Solids: 61.42

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-14
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.769	0.0227	0.0576	0.0576	1		SW7471B	1H23507	08/25/11 13:31
7429-90-5	Aluminum	15000	20.5	40.9	81.8	5	D	SW6010C	1H23502	08/24/11 17:24
7440-36-0	Antimony		2.05	3.27	4.09	5	UN	SW6010C	1H23502	08/24/11 17:24
7440-38-2	Arsenic	8.54	1.23	2.45	4.09	5	D	SW6010C	1H23502	08/24/11 17:24
7440-39-3	Barium	32.8	2.05	4.09	16.4	5	D	SW6010C	1H23502	08/24/11 17:24
7440-41-7	Beryllium		0.409	0.818	2.05	5	U	SW6010C	1H23502	08/24/11 17:24
7440-43-9	Cadmium	1.06	0.409	0.818	2.05	5	D I	SW6010C	1H23502	08/24/11 17:24
7440-70-2	Calcium	777	409	818	2050	5	D I	SW6010C	1H23502	08/24/11 17:24
7440-47-3	Chromium	82.6	0.818	1.64	4.09	5	D N	SW6010C	1H23502	08/24/11 17:24
7440-48-4	Cobalt		2.05	4.09	5.11	5	U	SW6010C	1H23502	08/24/11 17:24
7440-50-8	Copper	30.7	1.64	3.27	4.09	5	D	SW6010C	1H23502	08/24/11 17:24
7439-89-6	Iron	28200	12.3	24.5	40.9	5	D	SW6010C	1H23502	08/24/11 17:24
7439-92-1	Lead	61.5	0.614	1.23	1.23	5	D	SW6010C	1H23502	08/24/11 17:24
7439-95-4	Magnesium	1570	409	1230	2050	5	D I	SW6010C	1H23502	08/24/11 17:24
7439-96-5	Manganese	45.0	1.23	2.45	6.14	5	D	SW6010C	1H23502	08/24/11 17:24
7440-02-0	Nickel	5.67	1.23	2.45	4.09	5	D	SW6010C	1H23502	08/24/11 17:24
7440-09-7	Potassium	905	409	1230	2050	5	D I	SW6010C	1H23502	08/24/11 17:24
7782-49-2	Selenium	2.38	1.23	2.05	4.09	5	D I	SW6010C	1H23502	08/24/11 17:24
7440-22-4	Silver	2.55	0.409	0.818	4.09	5	D I	SW6010C	1H23502	08/24/11 17:24
7440-23-5	Sodium		409	1230	2050	5	U	SW6010C	1H23502	08/24/11 17:24
7440-28-0	Thallium		1.23	1.64	3.27	5	U	SW6010C	1H23502	08/24/11 17:24
7440-62-2	Vanadium	26.9	2.05	4.09	5.11	5	D	SW6010C	1H23502	08/24/11 17:24
7440-66-6	Zinc	67.1	2.05	4.09	8.18	5	D	SW6010C	1H23502	08/24/11 17:24

ANALYSIS DATA SHEET

55SS08-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 11:55
% Solids: 68.40

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-15
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.736	0.0163	0.0414	0.0414	1		SW7471B	1H23507	08/25/11 13:32
7429-90-5	Aluminum	14900	17.8	35.7	71.3	5	D	SW6010C	1H23502	08/24/11 17:28
7440-36-0	Antimony		1.78	2.85	3.57	5	UN	SW6010C	1H23502	08/24/11 17:28
7440-38-2	Arsenic	9.91	1.07	2.14	3.57	5	D	SW6010C	1H23502	08/24/11 17:28
7440-39-3	Barium	32.1	1.78	3.57	14.3	5	D	SW6010C	1H23502	08/24/11 17:28
7440-41-7	Beryllium	0.390	0.357	0.713	1.78	5	D I	SW6010C	1H23502	08/24/11 17:28
7440-43-9	Cadmium	0.614	0.357	0.713	1.78	5	D I	SW6010C	1H23502	08/24/11 17:28
7440-70-2	Calcium	412	357	713	1780	5	D I	SW6010C	1H23502	08/24/11 17:28
7440-47-3	Chromium	74.9	0.713	1.43	3.57	5	D N	SW6010C	1H23502	08/24/11 17:28
7440-48-4	Cobalt		1.78	3.57	4.46	5	U	SW6010C	1H23502	08/24/11 17:28
7440-50-8	Copper	31.0	1.43	2.85	3.57	5	D	SW6010C	1H23502	08/24/11 17:28
7439-89-6	Iron	33600	10.7	21.4	35.7	5	D	SW6010C	1H23502	08/24/11 17:28
7439-92-1	Lead	77.8	0.535	1.07	1.07	5	D	SW6010C	1H23502	08/24/11 17:28
7439-95-4	Magnesium	1620	357	1070	1780	5	D I	SW6010C	1H23502	08/24/11 17:28
7439-96-5	Manganese	28.2	1.07	2.14	5.35	5	D	SW6010C	1H23502	08/24/11 17:28
7440-02-0	Nickel	5.35	1.07	2.14	3.57	5	D	SW6010C	1H23502	08/24/11 17:28
7440-09-7	Potassium	1050	357	1070	1780	5	D I	SW6010C	1H23502	08/24/11 17:28
7782-49-2	Selenium	2.86	1.07	1.78	3.57	5	D I	SW6010C	1H23502	08/24/11 17:28
7440-22-4	Silver	2.09	0.357	0.713	3.57	5	D I	SW6010C	1H23502	08/24/11 17:28
7440-23-5	Sodium		357	1070	1780	5	U	SW6010C	1H23502	08/24/11 17:28
7440-28-0	Thallium		1.07	1.43	2.85	5	U	SW6010C	1H23502	08/24/11 17:28
7440-62-2	Vanadium	30.9	1.78	3.57	4.46	5	D	SW6010C	1H23502	08/24/11 17:28
7440-66-6	Zinc	67.8	1.78	3.57	7.13	5	D	SW6010C	1H23502	08/24/11 17:28

ANALYSIS DATA SHEET

55SS09-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 12:40
% Solids: 68.35

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-34
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.189	0.0154	0.0391	0.0391	1		SW7471B	1H23511	08/25/11 14:07
7429-90-5	Aluminum	7320	7.35	14.7	29.4	2	D	SW6010C	1H23503	08/24/11 19:49
7440-36-0	Antimony		0.735	1.18	1.47	2	UN	SW6010C	1H23503	08/24/11 19:49
7440-38-2	Arsenic	5.61	0.441	0.882	1.47	2	D	SW6010C	1H23503	08/24/11 19:49
7440-39-3	Barium	29.1	0.735	1.47	5.88	2	D	SW6010C	1H23503	08/24/11 19:49
7440-41-7	Beryllium	1.18	0.147	0.294	0.735	2	D	SW6010C	1H23503	08/24/11 19:49
7440-43-9	Cadmium	0.526	0.147	0.294	0.735	2	D I	SW6010C	1H23503	08/24/11 19:49
7440-70-2	Calcium	6210	147	294	735	2	D	SW6010C	1H23503	08/24/11 19:49
7440-47-3	Chromium	17.3	0.294	0.588	1.47	2	D N	SW6010C	1H23503	08/24/11 19:49
7440-48-4	Cobalt	4.03	0.735	1.47	1.84	2	D	SW6010C	1H23503	08/24/11 19:49
7440-50-8	Copper	4.23	0.588	1.18	1.47	2	D	SW6010C	1H23503	08/24/11 19:49
7439-89-6	Iron	12200	4.41	8.82	14.7	2	Q D	SW6010C	1H23503	08/24/11 19:49
7439-92-1	Lead	17.0	0.221	0.441	0.441	2	D	SW6010C	1H23503	08/24/11 19:49
7439-95-4	Magnesium	1980	147	441	735	2	D	SW6010C	1H23503	08/24/11 19:49
7439-96-5	Manganese	145	0.441	0.882	2.21	2	D N	SW6010C	1H23503	08/24/11 19:49
7440-02-0	Nickel	6.14	0.441	0.882	1.47	2	D	SW6010C	1H23503	08/24/11 19:49
7440-09-7	Potassium	1360	147	441	735	2	D N	SW6010C	1H23503	08/24/11 19:49
7782-49-2	Selenium		0.441	0.735	1.47	2	U	SW6010C	1H23503	08/24/11 19:49
7440-22-4	Silver	2.35	0.147	0.294	1.47	2	D	SW6010C	1H23503	08/24/11 19:49
7440-23-5	Sodium		147	441	735	2	U	SW6010C	1H23503	08/24/11 19:49
7440-28-0	Thallium		0.441	0.588	1.18	2	U	SW6010C	1H23503	08/24/11 19:49
7440-62-2	Vanadium	17.5	0.735	1.47	1.84	2	D	SW6010C	1H23503	08/24/11 19:49
7440-66-6	Zinc	28.3	0.735	1.47	2.94	2	D	SW6010C	1H23503	08/24/11 19:49

ANALYSIS DATA SHEET

55SS09-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/12/11 12:45
% Solids: 69.40

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-35
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0249	0.0176	0.0446	0.0446	1	I	SW7471B	1H23511	08/25/11 14:08
7429-90-5	Aluminum	3960	3.43	6.86	13.7	1		SW6010C	1H23503	08/24/11 19:53
7440-36-0	Antimony		0.343	0.549	0.686	1	UN	SW6010C	1H23503	08/24/11 19:53
7440-38-2	Arsenic	7.08	0.206	0.412	0.686	1		SW6010C	1H23503	08/24/11 19:53
7440-39-3	Barium	17.2	0.343	0.686	2.74	1		SW6010C	1H23503	08/24/11 19:53
7440-41-7	Beryllium	0.586	0.0686	0.137	0.343	1		SW6010C	1H23503	08/24/11 19:53
7440-43-9	Cadmium		0.0686	0.137	0.343	1	U	SW6010C	1H23503	08/24/11 19:53
7440-70-2	Calcium	4090	68.6	137	343	1	*	SW6010C	1H23503	08/24/11 19:53
7440-47-3	Chromium	7.93	0.137	0.274	0.686	1	N	SW6010C	1H23503	08/24/11 19:53
7440-48-4	Cobalt	1.88	0.343	0.686	0.858	1		SW6010C	1H23503	08/24/11 19:53
7440-50-8	Copper	1.24	0.274	0.549	0.686	1		SW6010C	1H23503	08/24/11 19:53
7439-89-6	Iron	8480	2.06	4.12	6.86	1	Q	SW6010C	1H23503	08/24/11 19:53
7439-92-1	Lead	5.29	0.103	0.206	0.206	1		SW6010C	1H23503	08/24/11 19:53
7439-95-4	Magnesium	1050	68.6	206	343	1	N	SW6010C	1H23503	08/24/11 19:53
7439-96-5	Manganese	60.9	0.206	0.412	1.03	1	N	SW6010C	1H23503	08/24/11 19:53
7440-02-0	Nickel	3.81	0.206	0.412	0.686	1		SW6010C	1H23503	08/24/11 19:53
7440-09-7	Potassium	593	68.6	206	343	1	N	SW6010C	1H23503	08/24/11 19:53
7782-49-2	Selenium		0.206	0.343	0.686	1	U	SW6010C	1H23503	08/24/11 19:53
7440-22-4	Silver		0.0686	0.137	0.686	1	U	SW6010C	1H23503	08/24/11 19:53
7440-23-5	Sodium		68.6	206	343	1	U	SW6010C	1H23503	08/24/11 19:53
7440-28-0	Thallium		0.206	0.274	0.549	1	U	SW6010C	1H23503	08/24/11 19:53
7440-62-2	Vanadium	9.88	0.343	0.686	0.858	1		SW6010C	1H23503	08/24/11 19:53
7440-66-6	Zinc	9.03	0.343	0.686	1.37	1		SW6010C	1H23503	08/24/11 19:53

ANALYSIS DATA SHEET

55SS10-000X

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 08:50
% Solids: 79.04

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-04
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0376	0.0127	0.0321	0.0330	1		SW7471B	1H23507	08/25/11 13:17
7429-90-5	Aluminum	11700	6.49	13.0	26.0	2	D	SW6010C	1H23502	08/24/11 16:26
7440-36-0	Antimony		0.649	1.04	1.30	2	UN	SW6010C	1H23502	08/24/11 16:26
7440-38-2	Arsenic	6.05	0.389	0.779	1.30	2	D	SW6010C	1H23502	08/24/11 16:26
7440-39-3	Barium	35.9	0.649	1.30	5.19	2	D	SW6010C	1H23502	08/24/11 16:26
7440-41-7	Beryllium	1.39	0.130	0.260	0.649	2	D	SW6010C	1H23502	08/24/11 16:26
7440-43-9	Cadmium		0.130	0.260	0.649	2	U	SW6010C	1H23502	08/24/11 16:26
7440-70-2	Calcium	9650	130	260	649	2	D	SW6010C	1H23502	08/24/11 16:26
7440-47-3	Chromium	22.7	0.260	0.519	1.30	2	D N	SW6010C	1H23502	08/24/11 16:26
7440-48-4	Cobalt	5.27	0.649	1.30	1.62	2	D	SW6010C	1H23502	08/24/11 16:26
7440-50-8	Copper	4.37	0.519	1.04	1.30	2	D	SW6010C	1H23502	08/24/11 16:26
7439-89-6	Iron	23300	3.89	7.79	13.0	2	D	SW6010C	1H23502	08/24/11 16:26
7439-92-1	Lead	13.4	0.195	0.389	0.389	2	D	SW6010C	1H23502	08/24/11 16:26
7439-95-4	Magnesium	4120	130	389	649	2	D	SW6010C	1H23502	08/24/11 16:26
7439-96-5	Manganese	298	0.389	0.779	1.95	2	D	SW6010C	1H23502	08/24/11 16:26
7440-02-0	Nickel	8.04	0.389	0.779	1.30	2	D	SW6010C	1H23502	08/24/11 16:26
7440-09-7	Potassium	1740	130	389	649	2	D	SW6010C	1H23502	08/24/11 16:26
7782-49-2	Selenium		0.389	0.649	1.30	2	U	SW6010C	1H23502	08/24/11 16:26
7440-22-4	Silver		0.130	0.260	1.30	2	U	SW6010C	1H23502	08/24/11 16:26
7440-23-5	Sodium	350	130	389	649	2	D I	SW6010C	1H23502	08/24/11 16:26
7440-28-0	Thallium		0.389	0.519	1.04	2	U	SW6010C	1H23502	08/24/11 16:26
7440-62-2	Vanadium	30.1	0.649	1.30	1.62	2	D	SW6010C	1H23502	08/24/11 16:26
7440-66-6	Zinc	29.2	0.649	1.30	2.60	2	D	SW6010C	1H23502	08/24/11 16:26

ANALYSIS DATA SHEET

55SS10-0X02

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Solid
Sampled: 08/11/11 08:55
% Solids: 77.85

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108171-05
Received: 08/15/11 08:30

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0313	0.0173	0.0439	0.0439	1	1	SW7471B	1H23507	08/25/11 13:18
7429-90-5	Aluminum	13000	6.45	12.9	25.8	2	D	SW6010C	1H23502	08/24/11 16:31
7440-36-0	Antimony		0.645	1.03	1.29	2	UN	SW6010C	1H23502	08/24/11 16:31
7440-38-2	Arsenic	3.58	0.387	0.775	1.29	2	D	SW6010C	1H23502	08/24/11 16:31
7440-39-3	Barium	46.0	0.645	1.29	5.16	2	D	SW6010C	1H23502	08/24/11 16:31
7440-41-7	Beryllium	1.38	0.129	0.258	0.645	2	D	SW6010C	1H23502	08/24/11 16:31
7440-43-9	Cadmium		0.129	0.258	0.645	2	U	SW6010C	1H23502	08/24/11 16:31
7440-70-2	Calcium	34700	129	258	645	2	D	SW6010C	1H23502	08/24/11 16:31
7440-47-3	Chromium	24.2	0.258	0.516	1.29	2	D N	SW6010C	1H23502	08/24/11 16:31
7440-48-4	Cobalt	4.81	0.645	1.29	1.61	2	D	SW6010C	1H23502	08/24/11 16:31
7440-50-8	Copper	4.41	0.516	1.03	1.29	2	D	SW6010C	1H23502	08/24/11 16:31
7439-89-6	Iron	19700	3.87	7.75	12.9	2	D	SW6010C	1H23502	08/24/11 16:31
7439-92-1	Lead	13.3	0.194	0.387	0.387	2	D	SW6010C	1H23502	08/24/11 16:31
7439-95-4	Magnesium	4260	129	387	645	2	D	SW6010C	1H23502	08/24/11 16:31
7439-96-5	Manganese	256	0.387	0.775	1.94	2	D	SW6010C	1H23502	08/24/11 16:31
7440-02-0	Nickel	6.84	0.387	0.775	1.29	2	D	SW6010C	1H23502	08/24/11 16:31
7440-09-7	Potassium	2010	129	387	645	2	D	SW6010C	1H23502	08/24/11 16:31
7782-49-2	Selenium		0.387	0.645	1.29	2	U	SW6010C	1H23502	08/24/11 16:31
7440-22-4	Silver		0.258	0.258	1.29	2	M U	SW6010C	1H23502	08/24/11 16:31
7440-23-5	Sodium	455	129	387	645	2	D I	SW6010C	1H23502	08/24/11 16:31
7440-28-0	Thallium		0.387	0.516	1.03	2	U	SW6010C	1H23502	08/24/11 16:31
7440-62-2	Vanadium	26.8	0.645	1.29	1.61	2	D	SW6010C	1H23502	08/24/11 16:31
7440-66-6	Zinc	29.8	0.645	1.29	2.58	2	D	SW6010C	1H23502	08/24/11 16:31

APPENDIX C

SUPPORT DOCUMENTATION

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 2278 | PAGE 1 OF 3

PROJECT NO: 112G02686	FACILITY: NAS JAX-SITE 55	PROJECT MANAGER: ALAN PATE	PHONE NUMBER: 904-636-6125	LABORATORY NAME AND CONTACT: EMPIRICAL LABORATORIES, LLC
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: ZACH SCRIBNER	PHONE NUMBER: 904-636-6125	ADDRESS: 621 MAINSTREAM DRIVE SUITE 270
		CARRIER/WAYBILL NUMBER: 8660 1730 1175		CITY, STATE: NASHVILLE, TN 37228

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: TOT METALS | PCBs (water/soil)

	DATE YEAR 2011	TIME	SAMPLE ID 1108171	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TOT METALS	PCBs (water/soil)	COMMENTS
-01	8/11	0820	55SS01-000X				So	G	1	✓	✓	→ cool to 4°C
-02		0825	55SS01-0X02						1	✓	✓	
-03		0830	55SS01-0204						1	✓	✓	
-04		0850	55SS10-000X						1	✓	✓	
-05		0855	55SS10-0X02						1	✓	✓	
-06		0900	55SB10-0204						1	✓	✓	
-07		0935	55SS05-000X						1	✓	✓	
-08		0940	55SS05-0X02						1	✓	✓	
-09		0945	55SB05-0204						1	✓	✓	
-10		0950	55SB05-0406						1	✓	✓	
-11		1100	55SS06-000X						1	✓	✓	
-12		1105	55SS06-0X02						1	✓	✓	
-13		1110	55SB06-0204						1	✓	✓	

1. RELINQUISHED BY	DATE 08/12/11	TIME 1530	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 8.15.11	TIME 0830

COMMENTS

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

4/02R
FORM NO. TtNUS-001

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1108171

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 2279 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02686	NAS JAX - SITE 55	ALAN PATE	904-636-6125	EMPIRICAL LABORATORIES LLC / B. RICHARD
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		ZACH SCRIBNER	904-636-6125	601 MAINSTREAM DR, STE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8660 1730 1175		NASHVILLE TN 37228

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G G

PRESERVATIVE USED: — — NaHSO4 —

TYPE OF ANALYSIS: TOT METALS | PCBs (60ml/8082B) | 5 VOC's | VOC's | VOC (DRY WEIGHT)

	DATE YEAR 2011	TIME	SAMPLE ID (1108171)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TOT METALS	PCBs (60ml/8082B)	5 VOC's	VOC's	VOC (DRY WEIGHT)	COMMENTS
-14	8/11	1150	55SS08-000X				SO	G	1	1	0	0	0		Cool to 4°C
-15		1155	55SS08-0X02						1	1	0	0	0		
-16		1200	55SB08-0204						1	1	0	0	0		
-17		1205	55SB08-0406						1	1	0	0	0		
-18		1240	55SS02-000X						1	1	0	0	0		
-19		1245	55SS02-0X02						1	1	0	0	0		
-20		1250	55SB02-0204						1	1	0	0	0		
-21		1255	55SB02-0406						1	1	0	0	0		
-22	8/12	0900	55SS04-000X						2	1	1	0	0		
-23		0900	55SS04-000X D						2	1	1	0	0		
-24		0905	55SS04-0X02 (D)*						6	X2	X2	3	X2		SAMPLE + DUP
-25		0915	55SB04-0204						6	1	1	3	1		
-26		0915	55SB04-0204 D						5	1	1	3	0		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	08/12/11	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY Reginald Talley	8.15.11	0830

COMMENTS

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

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FORM NO. TtNUS-001

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1108171

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 2280

PROJECT NO: 112G02686	FACILITY: NAS JAX-SITE 55	PROJECT MANAGER: ALAN PATE	PHONE NUMBER: 904-636-6125
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: ZACH SCRIBNER	PHONE NUMBER: 904-636-6125
		CARRIER/WAYBILL NUMBER: 8660 1730 1175	

LABORATORY NAME AND CONTACT: EMPIRICAL LABORATORIES LLC / B. RICHARD

ADDRESS: 621 MAINSTREAM DR., STE 270

CITY, STATE: NASHVILLE, TN 37228

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

	DATE YEAR 2011	TIME	SAMPLE ID (1108171)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TOT METALS	PCB's (8082A)	SVOC's	VOC's	VOC (DRY WEIGHT)	VOC				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)										G	G	G	G	G					
PRESERVATIVE USED										—	—	NaHSO4	—	HCl					
-27	8/12	~~0920~~ 1020	55SS07-000X				SO	G	2	1	1	0	0						Cool to 4°C
-28		~~0925~~ 1025	55SS07-0X02						6	1	1	3	1						
-29		~~0935~~ 1035	55SB07-0204						6	1	1	3	1						
-30		1120	55SS03-000X						2	1	1	0	0						
-31		1120	55SS03-000X D						2	1	1	0	0						
-32		1135	55SS03-0X02						6	1	1	3	1						
-33		1140	55SB03-0204						6	1	1	3	1						
-34		1240	55SS09-000X						2	1	1	0	0						
-35		1245	55SS09-~~0204~~ 0X02						6	1	1	3	1						
ET 8.15		1245	55SS09-~~0204 MS/MSD~~				MS	MSD	6	2	2	3	1						QC MS/MSD
-36		1255	55SB09-0204						6	1	1	3	1						
-37		1340	TRIP BLANK # 0150				QC	-	8	0	0	0	0	2					

1. RELINQUISHED BY [signature]	DATE 08/12/11	TIME 1530	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY Reginald Talley	DATE 8.15.11	TIME 0830

COMMENTS

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

4/02R
FORM NO. TtNUS-001

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1108171

Sample Delivery Group Case Narrative

Receipt Information

The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision

This is an original submittal of the final report package.

Analytical Information

All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:

The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:

The surrogate Bromofluorobenzene exceeded criteria with a positive bias in 1H20003-BS2.

The batch spike associated to batches 1H20003-BS1 and –BS2 exceeded criteria with a positive bias for Acetone, 2-Butanone, and 2-Hexanone.

The matrix spikes associated to sample 1108171-35 exceeded recovery criteria with a negative bias for Chlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Cis-1,3-Dichloropropene, Styrene, 1,2,3-Trichlorobenzene,

1,2,4-Trichlorobenzene, and m,p-Xylene, exceeded recovery criteria with no recovery in the matrix spike for Methyl Acetate, and exceeded relative percent difference criteria for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Styrene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, and 2-Hexanone.

The continuing calibration verifications exceeded criteria in 1H23101-CCV1 with a positive bias for Dichlorodifluoromethane, in 1H23501-CCV1 with a positive bias for Bromofluorobenzene, and in 1H23501-CCV2 with a negative bias for 1,4_Dichlorobenzene, Methyl Acetate, Methyl t-Butyl Ether, and 1,1,2,2-Tetrachloroethane and with a positive bias for Bromofluorobenzene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The surrogates 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, and Phenol-d6 exceeded criteria with a negative bias in samples 1108171-22 and -23. The surrogate 2-Fluorophenol exceeded criteria with a negative bias in 1108171-24.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verifications exceeded criteria in 1H24307-CCV1, 1I24513-CCV1, and 1I24909-CCV1 with a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1I24413-CCV1 with a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, 2-Chloronaphthalene, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, and in 1I24512-CCV1 with a positive bias for Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate and with a negative bias for Atrazine and Benzaldehyde.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogate Tetrachloro-m-xylene exceeded criteria with a negative bias on one or both columns in 1108171-03, -04, -05, -06, -07, -09, -11, -12, -15, -16, -17, -18, -21, -22, -23, -24, -25, -27, -28, -29, -30, -31, -32, -33, -38, 1H15024-BS1, 1H23517-MS1, and -MSD1. The surrogate Decachlorobiphenyl exceeded criteria with a negative bias on one or both columns in 1108171-03, -04, -05, -07, -11, -12, -14, -15, -16, -18, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -38, 1H15024-BLK1, -BS1, 1H23517-MS1, and –MSD1.

Samples 1108171-11, -12, -14, -15, -18, -22, -23, -24, -25, and -38 are qualified with a Z-01 to indicate that the DL, LOD, and LOQ were raised due to matrix interference and with a Z-01B for Aroclor-1260 to indicate that the Aroclor was identified as the Aroclor most closely matched.

The continuing calibration verifications exceeded criteria in 1I25601-CCV1 with a negative bias on column 2 for Aroclor-1016 and -1260, in 1I25601-CCV4 and 1I25801-CCV6 with a positive bias on both columns for Aroclor-1254, in 1I25601-CCV3, -CCV5, 1I25810-CCV3, and 1I25814-CCV3 with a positive bias on column 1 for Aroclor-1016 and with a positive bias on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl, in 1I25601-CCV6 with a positive bias on column 1 for Aroclor-1254, and in 1I25810-CCV1, 1I25814-CCV1, and –CCV5 with a positive bias on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7471A:
Samples 1108171-02, -05, -08, -10, -16, -17, -20, -21, and -25 are qualified with an M for Silver, in 1108171-20 is qualified with an M for Thallium, and sample 1108171-21, -29, and -33 are qualified with an M for Cadmium to indicate that the DL was raised due to interference.

The batch spike associated to batch 1H23503 exceeded criteria with a positive bias for Iron.

The continuing calibration blank 1H23804-CCB4 has positive results for Iron.

The matrix spike associated to sample 1108171-20 exceeded recovery criteria with a negative bias for Antimony and Chromium and exceeded recovery criteria for Aluminum, Calcium, Iron, Manganese, Magnesium, and Potassium; however, the parent sample concentrations for Aluminum, Calcium, Iron, Manganese, Magnesium, and Potassium are greater than 4 times the amount spiked. The post spike associated to sample 1108171-20 exceeded criteria for Aluminum, Iron, and Manganese; however, the parent sample concentrations for Aluminum, Iron, and Manganese are greater than 4 times the amount spiked. The matrix spikes associated to sample 1108171-35 exceeded recovery criteria with a negative bas for Antimony, exceeded recovery criteria with a positive bias for Chromium, Magnesium, Manganese, and Potassium, and exceeded recovery criteria for Aluminum, Calcium, and Iron; however, the parent sample concentrations for Aluminum, Calcium, and Iron are greater than 4 times the amount spiked. The post spike associated to sample 1108171-35 exceeded criteria for Calcium and Iron; however, the parent sample concentrations for Calcium and Iron are greater than 4 times the amount spiked. The duplicate for sample 1108171-20 exceeded relative percent difference criteria for Magnesium and Mercury. The duplicate for sample 1108171-35 exceeded relative percent difference criteria for Calcium.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SB04-0204	UNITS	55SB04-0204D	RPD	D
M	ALUMINUM	4460	MG/KG	8240	59.53	3780.00
M	ARSENIC	2.99	MG/KG	13.3	126.58	10.31
M	BARIUM	7.59	MG/KG	26.7	111.46	19.11
M	BERYLLIUM	0.161 J	MG/KG	1.19	152.33	OK 1.03
M	CADMIUM	0.413 J	MG/KG	ND	200.00	OK 0.41
M	CALCIUM	199 J	MG/KG	4950	184.54	4751.00
M	CHROMIUM	19	MG/KG	16	17.14	3.00
M	COBALT	ND	MG/KG	4.13	200.00	OK 4.13
M	COPPER	7.83	MG/KG	3.18	84.47	4.65
M	IRON	8190	MG/KG	18100	75.39	9910.00
M	LEAD	17.5	MG/KG	9.89	55.57	7.61
M	MAGNESIUM	527	MG/KG	2840	137.39	2313.00
M	MANGANESE	16.5	MG/KG	103	144.77	86.50
M	MERCURY	0.222	MG/KG	0.0268 J	156.91	0.20
M	NICKEL	1.74	MG/KG	7.09	121.18	5.35
M	POTASSIUM	362 J	MG/KG	1100	100.96	OK 738.00
M	SELENIUM	0.77 J	MG/KG	ND	200.00	OK 0.77
M	SILVER	0.521 J	MG/KG	ND	200.00	OK 0.52
M	VANADIUM	10.1	MG/KG	18.5	58.74	8.40
M	ZINC	24.2	MG/KG	21	14.16	3.20

Need to Qualify: Al, As, Ba, Ca, Cu, Fe, Pb, Mg, Mn, Hg, Ni, V

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS03-000X	UNITS	55SS03-000XD	RPD	D
M	ALUMINUM	7420	MG/KG	7500	1.07	80.00
M	ARSENIC	4.78	MG/KG	4.52	5.59	0.26
M	BARIUM	23.6	MG/KG	19.8	17.51	3.80
M	BERYLLIUM	0.817	MG/KG	0.82	0.37	0.00
M	CADMIUM	0.805	MG/KG	0.434 J	59.89	OK 0.37
M	CALCIUM	6890	MG/KG	4540	41.12	2350.00
M	CHROMIUM	17.7	MG/KG	16.2	8.85	1.50
M	COBALT	2.83	MG/KG	2.88	1.75	0.05
M	COPPER	6.58	MG/KG	3.65	57.28	OK 2.93
M	IRON	12200	MG/KG	11700	4.18	500.00
M	LEAD	17.4	MG/KG	13.9	22.36	3.50
M	MAGNESIUM	2090	MG/KG	2050	1.93	40.00
M	MANGANESE	155	MG/KG	107	36.64	48.00
M	MERCURY	0.0752	MG/KG	0.048	44.16	0.03
M	NICKEL	5.9	MG/KG	4.63	24.12	1.27
M	POTASSIUM	1140	MG/KG	1150	0.87	10.00
M	VANADIUM	17.8	MG/KG	17.1	4.01	0.70
M	ZINC	35.9	MG/KG	23.9	40.13	12.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS04-000X	UNITS	55SS04-000XD	RPD	D
M	ALUMINUM	15500	MG/KG	17200	10.40	1700.00
M	ARSENIC	8.54	MG/KG	8.34	2.37	0.20
M	BARIUM	36	MG/KG	32.6	9.91	3.40
M	BERYLLIUM	0.566 J	MG/KG	0.572 J	1.05	0.01
M	CADMIUM	5.1	MG/KG	4.47	13.17	0.63
M	CALCIUM	2890	MG/KG	2010	35.92	880.00
M	CHROMIUM	62.8	MG/KG	79.7	23.72	16.90
M	COPPER	25.8	MG/KG	32	21.45	6.20
M	IRON	31900	MG/KG	29000	9.52	2900.00
M	LEAD	54.4	MG/KG	65.7	18.82	11.30
M	MAGNESIUM	1790	MG/KG	1820 J	1.66	30.00
M	MANGANESE	134	MG/KG	100	29.06	34.00
M	MERCURY	0.588	MG/KG	0.645	9.25	0.06
M	NICKEL	8.36	MG/KG	8.36	0.00	0.00
M	POTASSIUM	922 J	MG/KG	932 J	1.08	10.00
M	SELENIUM	2.78 J	MG/KG	2.65 J	4.79	0.13
M	SILVER	1.6 J	MG/KG	3.21 J	66.94	1.61
M	VANADIUM	30.5	MG/KG	30.3	0.66	0.20
M	ZINC	75.5	MG/KG	85.1	11.96	9.60

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS JACKSONVILLE
SOIL DATA
1108171

FRACTION	CHEMICAL	55SS04-0X02	UNITS	55SS04-0X02D	RPD	D
M	ALUMINUM	15400	MG/KG	15700	1.93	300.00
M	ARSENIC	9.03	MG/KG	8.65	4.30	0.38
M	BARIUM	29.3	MG/KG	33.4	13.08	4.10
M	BERYLLIUM	0.472 J	MG/KG	0.517 J	9.10	0.05
M	CADMIUM	2.57	MG/KG	4.24	49.05	1.67
M	CALCIUM	977 J	MG/KG	1410 J	36.28	433.00
M	CHROMIUM	64	MG/KG	68.6	6.94	4.60
M	COPPER	27.6	MG/KG	30.4	9.66	2.80
M	IRON	33100	MG/KG	29700	10.83	3400.00
M	LEAD	58.8	MG/KG	65.2	10.32	6.40
M	MAGNESIUM	1630 J	MG/KG	1670 J	2.42	40.00
M	MANGANESE	60.3	MG/KG	94	43.68	33.70
M	MERCURY	0.557	MG/KG	0.698	22.47	0.14
M	NICKEL	7.04	MG/KG	7.67	8.57	0.63
M	POTASSIUM	993 J	MG/KG	936 J	5.91	57.00
M	SELENIUM	2.55 J	MG/KG	2.75 J	7.55	0.20
M	SILVER	1.67 J	MG/KG	1.99 J	17.49	0.32
M	VANADIUM	30.6	MG/KG	30.2	1.32	0.40
M	ZINC	69.2	MG/KG	80.6	15.22	11.40

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108171 Number of Coolers: 1 of 1

Client: TETRA TECH Project: NAS JAX SITE 55

Date/Time Received: 8/15/11 0830 Date cooler(s) opened: 8/15/11

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 1175? TRACKING # RUBBED OFF

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 8/12/11 Seal Initials: BW

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.5 °C Correction Factor: +1.4 °C Final Value: 1.9 °C

Dates samples were logged-in: 8.15.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A
11. Did all bottles arrive unbroken? ..... (Yes) No N/A
12. Was all required bottle label information complete? ..... (Yes) No N/A
13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A
14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No (N/A)
16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)
17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A
18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108171 Number of Coolers: 2 of 2

Client: TETRA TECH Project:

Date/Time Received: 8/13/11 Date cooler(s) opened: 8/13/11 915

Opened By (print): BEN WRIGHT (signature):

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other:

If applicable, enter airbill number here: 5085

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 8/12/11 Seal Initials: N/A

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.0 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in: 8.15.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID:

See pg 1

HOLDTIM

PROJ_NO 02686

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SB06-0204	1108171-13	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS05-0X02	1108171-08	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB05-0406	1108171-10	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS10-0X02	1108171-05	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS10-000X	1108171-04	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB05-0204	1108171-09	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB01-0204	1108171-03	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB02-0204	1108171-20	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SB08-0406	1108171-17	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS08-0X02	1108171-15	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB02-0406	1108171-21	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS08-000X	1108171-14	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SB08-0204	1108171-16	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS06-0X02	1108171-12	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108171	HG	MG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108173	HG	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55-FB-08152011	1108173-01	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108171	M	MG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS05-0X02	1108171-08	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	M	MG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB05-0406	1108171-10	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS06-0X02	1108171-12	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS08-0X02	1108171-15	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS08-000X	1108171-14	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB02-0204	1108171-20	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS10-000X	1108171-04	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB05-0204	1108171-09	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB06-0204	1108171-13	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS10-0X02	1108171-05	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB01-0204	1108171-03	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	M	MG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB08-0204	1108171-16	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB08-0406	1108171-17	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB02-0406	1108171-21	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108173	M	UG/L	55GW07-0009-08152011	1108173-03RE1	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55-FB-08152011	1108173-01	NM	08/15/2011	08/22/2011	08/23/2011	7	1	8
1108173	M	UG/L	55GW07-0009-08152011	1108173-03RE2	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108171	OS	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204	1108171-25	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB03-0204	1108171-33	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204D	1108171-26	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Instrument: ME-FIMS

Analyte	MDL	MRL	Units	Method
Mercury	0.0130	0.0330	mg/Kg	SW7471B

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Solid

Instrument: ME-ICP

Analyte	MDL	MRL	Units	Method
Aluminum	2.50	10.0	mg/Kg	SW6010C
Antimony	0.250	0.500	mg/Kg	SW6010C
Arsenic	0.150	0.500	mg/Kg	SW6010C
Barium	0.250	2.00	mg/Kg	SW6010C
Beryllium	0.0500	0.250	mg/Kg	SW6010C
Cadmium	0.0500	0.250	mg/Kg	SW6010C
Calcium	50.0	250	mg/Kg	SW6010C
Chromium	0.100	0.500	mg/Kg	SW6010C
Cobalt	0.250	0.625	mg/Kg	SW6010C
Copper	0.200	0.500	mg/Kg	SW6010C
Iron	1.50	5.00	mg/Kg	SW6010C
Lead	0.0750	0.150	mg/Kg	SW6010C
Magnesium	50.0	250	mg/Kg	SW6010C
Manganese	0.150	0.750	mg/Kg	SW6010C
Nickel	0.150	0.500	mg/Kg	SW6010C
Potassium	50.0	250	mg/Kg	SW6010C
Selenium	0.150	0.500	mg/Kg	SW6010C
Silver	0.0500	0.500	mg/Kg	SW6010C
Sodium	50.0	250	mg/Kg	SW6010C
Thallium	0.150	0.400	mg/Kg	SW6010C
Vanadium	0.250	0.625	mg/Kg	SW6010C
Zinc	0.250	1.00	mg/Kg	SW6010C

PREPARATION BATCH SUMMARY

SW7471B

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H23507 Batch Matrix: Solid Preparation: MET_HG_S

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SS01-000X	1108171-01	08/23/11 08:14	0.33	50.00
55SS01-0X02	1108171-02	08/23/11 08:14	0.40	50.00
55SB01-0204	1108171-03	08/23/11 08:14	0.37	50.00
55SS10-000X	1108171-04	08/23/11 08:14	0.39	50.00
55SS10-0X02	1108171-05	08/23/11 08:14	0.29	50.00
55SB10-0204	1108171-06	08/23/11 08:14	0.32	50.00
55SS05-000X	1108171-07	08/23/11 08:14	0.31	50.00
55SS05-0X02	1108171-08	08/23/11 08:14	0.28	50.00
55SB05-0204	1108171-09	08/23/11 08:14	0.31	50.00
55SB05-0406	1108171-10	08/23/11 08:14	0.30	50.00
55SS06-000X	1108171-11	08/23/11 08:14	0.28	50.00
55SS06-0X02	1108171-12	08/23/11 08:14	0.35	50.00
55SB06-0204	1108171-13	08/23/11 08:14	0.29	50.00
55SS08-000X	1108171-14	08/23/11 08:14	0.28	50.00
55SS08-0X02	1108171-15	08/23/11 08:14	0.35	50.00
55SB08-0204	1108171-16	08/23/11 08:14	0.30	50.00
55SB08-0406	1108171-17	08/23/11 08:14	0.36	50.00
55SS02-000X	1108171-18	08/23/11 08:14	0.30	50.00
55SS02-0X02	1108171-19	08/23/11 08:14	0.33	50.00
55SB02-0204	1108171-20	08/23/11 08:14	0.33	50.00
Blank	1H23507-BLK1	08/23/11 08:14	0.30	50.00
LCS	1H23507-BS1	08/23/11 08:14	0.30	50.00
55SB02-0204	1H23507-DUP1	08/23/11 08:14	0.30	50.00
55SB02-0204	1H23507-MS1	08/23/11 08:14	0.29	50.00

PREPARATION BATCH SUMMARY

SW7471B

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H23511 Batch Matrix: Solid Preparation: MET_HG_S

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SB02-0406	1108171-21	08/23/11 09:29	0.28	50.00
55SS04-000X	1108171-22	08/23/11 09:29	0.28	50.00
55SS04-000XD	1108171-23	08/23/11 09:29	0.28	50.00
55SS04-0X02D	1108171-24	08/23/11 09:29	0.28	50.00
55SB04-0204	1108171-25	08/23/11 09:29	0.31	50.00
55SB04-0204D	1108171-26	08/23/11 09:29	0.31	50.00
55SS07-000X	1108171-27	08/23/11 09:29	0.33	50.00
55SS07-0X02	1108171-28	08/23/11 09:29	0.33	50.00
55SB07-0204	1108171-29	08/23/11 09:29	0.39	50.00
55SS03-000X	1108171-30	08/23/11 09:29	0.31	50.00
55SS03-000XD	1108171-31	08/23/11 09:29	0.31	50.00
55SS03-0X02	1108171-32	08/23/11 09:29	0.31	50.00
55SB03-0204	1108171-33	08/23/11 09:29	0.31	50.00
55SS09-000X	1108171-34	08/23/11 09:29	0.37	50.00
55SS09-0X02	1108171-35	08/23/11 09:29	0.32	50.00
55SB09-0204	1108171-36	08/23/11 09:29	0.38	50.00
55SS04-0X02	1108171-38	08/23/11 09:29	0.30	50.00
Blank	1H23511-BLK1	08/23/11 09:29	0.30	50.00
LCS	1H23511-BS1	08/23/11 09:29	0.30	50.00
55SS09-0X02	1H23511-DUP1	08/23/11 09:29	0.33	50.00
55SS09-0X02	1H23511-MS1	08/23/11 09:29	0.33	50.00

ANALYSIS SEQUENCE SUMMARY

SW7471B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23811	Instrument:	ME-FIMS
Calibration:	1238005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23811-CAL1	082511S-002	08/25/11 12:57
Cal Standard	1H23811-CAL2	082511S-003	08/25/11 12:58
Cal Standard	1H23811-CAL3	082511S-004	08/25/11 12:59
Cal Standard	1H23811-CAL4	082511S-005	08/25/11 13:00
Cal Standard	1H23811-CAL5	082511S-006	08/25/11 13:02
Cal Standard	1H23811-CAL6	082511S-007	08/25/11 13:03
Cal Standard	1H23811-CAL7	082511S-008	08/25/11 13:04
Cal Standard	1H23811-CAL8	082511S-009	08/25/11 13:05
Initial Cal Check	1H23811-ICV1	082511S-010	08/25/11 13:07
Initial Cal Blank	1H23811-ICB1	082511S-011	08/25/11 13:08
Instrument RL Check	1H23811-CRL1	082511S-012	08/25/11 13:09
LCS	1H23507-BS1	082511S-013	08/25/11 13:10
Blank	1H23507-BLK1	082511S-014	08/25/11 13:12
55SS01-000X	1108171-01	082511S-015	08/25/11 13:13
55SS01-0X02	1108171-02	082511S-016	08/25/11 13:14
55SB01-0204	1108171-03	082511S-017	08/25/11 13:15
55SS10-000X	1108171-04	082511S-018	08/25/11 13:17
55SS10-0X02	1108171-05	082511S-019	08/25/11 13:18
55SB10-0204	1108171-06	082511S-020	08/25/11 13:19
55SS05-000X	1108171-07	082511S-021	08/25/11 13:20
Calibration Check	1H23811-CCV1	082511S-022	08/25/11 13:21
Calibration Blank	1H23811-CCB1	082511S-023	08/25/11 13:22
55SS05-0X02	1108171-08	082511S-024	08/25/11 13:24
55SB05-0204	1108171-09	082511S-025	08/25/11 13:25
55SB05-0406	1108171-10	082511S-026	08/25/11 13:26
55SS06-000X	1108171-11	082511S-027	08/25/11 13:27
55SS06-0X02	1108171-12	082511S-028	08/25/11 13:29
55SB06-0204	1108171-13	082511S-029	08/25/11 13:30
55SS08-000X	1108171-14	082511S-030	08/25/11 13:31
55SS08-0X02	1108171-15	082511S-031	08/25/11 13:32
55SB08-0204	1108171-16	082511S-032	08/25/11 13:34
55SB08-0406	1108171-17	082511S-033	08/25/11 13:35

ANALYSIS SEQUENCE SUMMARY

SW7471B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23811	Instrument:	ME-FIMS
Calibration:	1238005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23811-CCV2	082511S-034	08/25/11 13:36
Calibration Blank	1H23811-CCB2	082511S-035	08/25/11 13:37
55SS02-000X	1108171-18	082511S-036	08/25/11 13:38
55SS02-0X02	1108171-19	082511S-037	08/25/11 13:39
55SB02-0204	1108171-20	082511S-038	08/25/11 13:41
55SB02-0204	1H23507-MS1	082511S-039	08/25/11 13:42
55SB02-0204	1H23507-DUP1	082511S-040	08/25/11 13:43
LCS	1H23511-BS1	082511S-041	08/25/11 13:44
Blank	1H23511-BLK1	082511S-042	08/25/11 13:45
55SB02-0406	1108171-21	082511S-043	08/25/11 13:47
55SS04-000X	1108171-22	082511S-044	08/25/11 13:48
55SS04-000XD	1108171-23	082511S-045	08/25/11 13:49
Calibration Check	1H23811-CCV3	082511S-046	08/25/11 13:50
Calibration Blank	1H23811-CCB3	082511S-047	08/25/11 13:52
55SS04-0X02D	1108171-24	082511S-048	08/25/11 13:53
55SB04-0204	1108171-25	082511S-049	08/25/11 13:54
55SB04-0204D	1108171-26	082511S-050	08/25/11 13:55
55SS07-000X	1108171-27	082511S-051	08/25/11 13:56
55SS07-0X02	1108171-28	082511S-052	08/25/11 13:58
55SB07-0204	1108171-29	082511S-053	08/25/11 13:59
55SS03-000X	1108171-30	082511S-054	08/25/11 14:00
55SS03-000XD	1108171-31	082511S-055	08/25/11 14:01
55SS03-0X02	1108171-32	082511S-056	08/25/11 14:02
55SB03-0204	1108171-33	082511S-057	08/25/11 14:04
Calibration Check	1H23811-CCV4	082511S-058	08/25/11 14:05
Calibration Blank	1H23811-CCB4	082511S-059	08/25/11 14:06
55SS09-000X	1108171-34	082511S-060	08/25/11 14:07
55SS09-0X02	1108171-35	082511S-061	08/25/11 14:08
55SS09-0X02	1H23511-MS1	082511S-062	08/25/11 14:10
55SS09-0X02	1H23511-DUP1	082511S-063	08/25/11 14:11
55SB09-0204	1108171-36	082511S-064	08/25/11 14:12
55SS04-0X02	1108171-38	082511S-065	08/25/11 14:13

ANALYSIS SEQUENCE SUMMARY

SW7471B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23811	Instrument:	ME-FIMS
Calibration:	1238005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument RL Check	1H23811-CRL2	082511S-066	08/25/11 14:14
Calibration Check	1H23811-CCV5	082511S-067	08/25/11 14:16
Calibration Blank	1H23811-CCB5	082511S-068	08/25/11 14:17

INITIAL AND CONTINUING CALIBRATION CHECK

SW7471B

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Instrument ID: ME-FIMS

SDG: 1108171

Project: NAS Jacksonville CTOJM19

Calibration: 1238005

Sequence: 1H23811

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23811-ICV1	Mercury	4.000	4.056	101	ug/L	+/- 15.00%
1H23811-CCV1	Mercury	4.000	4.015	100	ug/L	+/- 15.00%
1H23811-CCV2	Mercury	4.000	3.885	97.1	ug/L	+/- 15.00%
1H23811-CCV3	Mercury	2.000	2.008	100	ug/L	+/- 15.00%
1H23811-CCV4	Mercury	2.000	2.015	101	ug/L	+/- 15.00%
1H23811-CCV5	Mercury	4.000	3.864	96.6	ug/L	+/- 15.00%

CRDL STANDARD

SW7471B

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-FIMS

Calibration: 1238005

Sequence: 1H23811

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23811-CRL1	Mercury	0.2000	0.2149	107	ug/L	70 - 130
1H23811-CRL2	Mercury	0.2000	0.2076	104	ug/L	70 - 130

BLANKS
SW7471B

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: NAS Jacksonville CTOJM19
Sequence: 1H23811
Calibration: 1238005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23811-ICB1	Mercury	0.03689	0.0780	0.198	ug/L	U	SW7471B
1H23507-BLK1	Mercury	0.00720	0.0130	0.0330	mg/Kg wet	U	SW7471B
1H23811-CCB1	Mercury	0.0421	0.0780	0.198	ug/L	U	SW7471B
1H23811-CCB2	Mercury	0.0411	0.0780	0.198	ug/L	U	SW7471B
1H23511-BLK1	Mercury	0.00622	0.0130	0.0330	mg/Kg wet	U	SW7471B
1H23811-CCB3	Mercury	0.0413	0.0780	0.198	ug/L	U	SW7471B
1H23811-CCB4	Mercury	0.0469	0.0780	0.198	ug/L	U	SW7471B
1H23811-CCB5	Mercury	0.0399	0.0780	0.198	ug/L	U	SW7471B

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H23502 Batch Matrix: Solid Preparation: MET_3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SS01-000X	1108171-01	08/23/11 07:36	2.01	100.00
55SS01-0X02	1108171-02	08/23/11 07:36	2.09	100.00
55SB01-0204	1108171-03	08/23/11 07:36	1.99	100.00
55SS10-000X	1108171-04	08/23/11 07:36	1.95	100.00
55SS10-0X02	1108171-05	08/23/11 07:36	1.99	100.00
55SB10-0204	1108171-06	08/23/11 07:36	1.95	100.00
55SS05-000X	1108171-07	08/23/11 07:36	1.99	100.00
55SS05-0X02	1108171-08	08/23/11 07:36	2.00	100.00
55SB05-0204	1108171-09	08/23/11 07:36	2.09	100.00
55SB05-0406	1108171-10	08/23/11 07:36	2.00	100.00
55SS06-000X	1108171-11	08/23/11 07:36	1.95	100.00
55SS06-0X02	1108171-12	08/23/11 07:36	2.03	100.00
55SB06-0204	1108171-13	08/23/11 07:36	2.04	100.00
55SS08-000X	1108171-14	08/23/11 07:36	1.99	100.00
55SS08-0X02	1108171-15	08/23/11 07:36	2.05	100.00
55SB08-0204	1108171-16	08/23/11 07:36	2.04	100.00
55SB08-0406	1108171-17	08/23/11 07:36	2.08	100.00
55SS02-000X	1108171-18	08/23/11 07:36	2.08	100.00
55SS02-0X02	1108171-19	08/23/11 07:36	2.03	100.00
55SB02-0204	1108171-20	08/23/11 07:36	2.02	100.00
Blank	1H23502-BLK1	08/23/11 07:36	2.00	100.00
LCS	1H23502-BS1	08/23/11 07:36	2.00	100.00
55SB02-0204	1H23502-DUP1	08/23/11 07:36	2.02	100.00
55SB02-0204	1H23502-DUP2	08/23/11 07:36	2.00	100.00
55SB02-0204	1H23502-MS1	08/23/11 07:36	2.00	100.00
55SB02-0204	1H23502-PS1	08/23/11 07:36	2.02	100.00

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H23503 Batch Matrix: Solid Preparation: MET_3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55SB02-0406	1108171-21	08/23/11 07:37	2.01	100.00
55SS04-000X	1108171-22	08/23/11 07:37	1.95	100.00
55SS04-000XD	1108171-23	08/23/11 07:37	2.09	100.00
55SS04-0X02D	1108171-24	08/23/11 07:37	2.10	100.00
55SB04-0204	1108171-25	08/23/11 07:37	2.10	100.00
55SB04-0204D	1108171-26	08/23/11 07:37	1.97	100.00
55SS07-000X	1108171-27	08/23/11 07:37	2.03	100.00
55SS07-0X02	1108171-28	08/23/11 07:37	2.02	100.00
55SB07-0204	1108171-29	08/23/11 07:37	1.99	100.00
55SS03-000X	1108171-30	08/23/11 07:37	2.01	100.00
55SS03-000XD	1108171-31	08/23/11 07:37	2.04	100.00
55SS03-0X02	1108171-32	08/23/11 07:37	2.00	100.00
55SB03-0204	1108171-33	08/23/11 07:37	1.96	100.00
55SS09-000X	1108171-34	08/23/11 07:37	1.99	100.00
55SS09-0X02	1108171-35	08/23/11 07:37	2.10	100.00
55SB09-0204	1108171-36	08/23/11 07:37	1.97	100.00
55SS04-0X02	1108171-38	08/23/11 07:37	2.06	100.00
Blank	1H23503-BLK1	08/23/11 07:37	2.00	100.00
LCS	1H23503-BS1	08/23/11 07:37	2.00	100.00
55SS09-0X02	1H23503-DUP1	08/23/11 07:37	2.10	100.00
55SS09-0X02	1H23503-DUP2	08/23/11 07:37	2.00	100.00
55SS09-0X02	1H23503-MS1	08/23/11 07:37	1.99	100.00
55SS09-0X02	1H23503-PS1	08/23/11 07:37	2.10	100.00

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23804-CAL1	082411A-001	08/24/11 12:09
Cal Standard	1H23804-CAL2	082411A-002	08/24/11 12:13
Cal Standard	1H23804-CAL3	082411A-003	08/24/11 12:17
Cal Standard	1H23804-CAL4	082411A-004	08/24/11 12:21
Cal Standard	1H23804-CAL5	082411A-005	08/24/11 12:26
Cal Standard	1H23804-CAL6	082411A-006	08/24/11 12:31
Cal Standard	1H23804-CAL7	082411A-007	08/24/11 12:36
Cal Standard	1H23804-CAL8	082411A-008	08/24/11 12:41
Initial Cal Check	1H23804-ICV1	082411B-001	08/24/11 13:09
Initial Cal Blank	1H23804-ICB1	082411B-002	08/24/11 13:17
Instrument RL Check	1H23804-CRL1	082411B-003	08/24/11 13:24
Instrument RL Check	1H23804-CRL2	082411B-004	08/24/11 13:28
Interference Check A	1H23804-IFA1	082411B-005	08/24/11 13:34
Interference Check B	1H23804-IFB1	082411B-006	08/24/11 13:39
Calibration Check	1H23804-CCV1	082411B-008	08/24/11 13:50
Calibration Blank	1H23804-CCB1	082411B-009	08/24/11 13:57
Calibration Check	1H23804-CCV2	082411B-019	08/24/11 14:50
Calibration Blank	1H23804-CCB2	082411B-020	08/24/11 14:57
Calibration Check	1H23804-CCV3	082411B-031	08/24/11 15:50
Calibration Blank	1H23804-CCB3	082411B-032	08/24/11 15:57
Blank	1H23502-BLK1	082411B-033	08/24/11 16:02
LCS	1H23502-BS1	082411B-034	08/24/11 16:06
55SS01-000X	1108171-01	082411B-035	08/24/11 16:13
55SS01-0X02	1108171-02	082411B-036	08/24/11 16:17
55SB01-0204	1108171-03	082411B-037	08/24/11 16:22
55SS10-000X	1108171-04	082411B-038	08/24/11 16:26
55SS10-0X02	1108171-05	082411B-039	08/24/11 16:31
55SB10-0204	1108171-06	082411B-040	08/24/11 16:36
55SS05-000X	1108171-07	082411B-041	08/24/11 16:40
55SS05-0X02	1108171-08	082411B-042	08/24/11 16:44
55SB05-0204	1108171-09	082411B-043	08/24/11 16:49
55SB05-0406	1108171-10	082411B-044	08/24/11 16:53

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23804-CCV4	082411B-045	08/24/11 16:59
Calibration Blank	1H23804-CCB4	082411B-046	08/24/11 17:06
55SS06-000X	1108171-11	082411B-047	08/24/11 17:11
55SS06-0X02	1108171-12	082411B-048	08/24/11 17:15
55SB06-0204	1108171-13	082411B-049	08/24/11 17:19
55SS08-000X	1108171-14	082411B-050	08/24/11 17:24
55SS08-0X02	1108171-15	082411B-051	08/24/11 17:28
55SB08-0204	1108171-16	082411B-052	08/24/11 17:33
55SB08-0406	1108171-17	082411B-053	08/24/11 17:37
55SS02-000X	1108171-18	082411B-054	08/24/11 17:42
55SS02-0X02	1108171-19	082411B-055	08/24/11 17:46
55SB02-0204	1108171-20	082411B-056	08/24/11 17:50
55SB02-0204	1H23502-DUP2	082411B-057	08/24/11 17:55
55SB02-0204	1H23502-MS1	082411B-058	08/24/11 18:00
55SB02-0204	1H23502-PS1	082411B-059	08/24/11 18:05
55SB02-0204	1H23502-DUP1	082411B-060	08/24/11 18:10
Calibration Check	1H23804-CCV5	082411B-061	08/24/11 18:16
Calibration Blank	1H23804-CCB5	082411B-062	08/24/11 18:23
Blank	1H23503-BLK1	082411B-063	08/24/11 18:28
LCS	1H23503-BS1	082411B-064	08/24/11 18:32
55SB02-0406	1108171-21	082411B-065	08/24/11 18:39
55SS04-000X	1108171-22	082411B-066	08/24/11 18:43
55SS04-000XD	1108171-23	082411B-067	08/24/11 18:48
55SS04-0X02D	1108171-24	082411B-068	08/24/11 18:52
55SB04-0204	1108171-25	082411B-069	08/24/11 18:57
55SB04-0204D	1108171-26	082411B-070	08/24/11 19:01
55SS07-000X	1108171-27	082411B-071	08/24/11 19:05
55SS07-0X02	1108171-28	082411B-072	08/24/11 19:10
55SB07-0204	1108171-29	082411B-073	08/24/11 19:14
55SS03-000X	1108171-30	082411B-074	08/24/11 19:18
Calibration Check	1H23804-CCV6	082411B-075	08/24/11 19:24
Calibration Blank	1H23804-CCB6	082411B-076	08/24/11 19:31

ANALYSIS SEQUENCE SUMMARY
SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108171
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
55SS03-000XD	1108171-31	082411B-077	08/24/11 19:36
55SS03-0X02	1108171-32	082411B-078	08/24/11 19:40
55SB03-0204	1108171-33	082411B-079	08/24/11 19:45
55SS09-000X	1108171-34	082411B-080	08/24/11 19:49
55SS09-0X02	1108171-35	082411B-081	08/24/11 19:53
55SS09-0X02	1H23503-DUP2	082411B-082	08/24/11 19:58
55SS09-0X02	1H23503-MS1	082411B-083	08/24/11 20:02
55SS09-0X02	1H23503-PS1	082411B-084	08/24/11 20:07
55SS09-0X02	1H23503-DUP1	082411B-085	08/24/11 20:12
55SB09-0204	1108171-36	082411B-086	08/24/11 20:17
55SS04-0X02	1108171-38	082411B-087	08/24/11 20:21
Calibration Check	1H23804-CCV7	082411B-088	08/24/11 20:26
Calibration Blank	1H23804-CCB7	082411B-089	08/24/11 20:34

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-ICV1	Aluminum	10000	9894	98.9	ug/L	+/- 10.00%
	Antimony	1000	1016	102	ug/L	+/- 10.00%
	Arsenic	1000	1058	106	ug/L	+/- 10.00%
	Barium	1000	983.2	98.3	ug/L	+/- 10.00%
	Beryllium	1000	1038	104	ug/L	+/- 10.00%
	Cadmium	1000	1083	108	ug/L	+/- 10.00%
	Calcium	50000	53030	106	ug/L	+/- 10.00%
	Chromium	1000	976.8	97.7	ug/L	+/- 10.00%
	Cobalt	1000	989.3	98.9	ug/L	+/- 10.00%
	Copper	1000	1023	102	ug/L	+/- 10.00%
	Iron	10000	10540	105	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	50140	100	ug/L	+/- 10.00%
	Manganese	1000	1018	102	ug/L	+/- 10.00%
	Nickel	1000	999.6	100	ug/L	+/- 10.00%
	Potassium	10000	9193	91.9	ug/L	+/- 10.00%
	Selenium	1000	994.3	99.4	ug/L	+/- 10.00%
	Silver	500.0	488.7	97.7	ug/L	+/- 10.00%
	Sodium	50000	51790	104	ug/L	+/- 10.00%
	Thallium	1000	976.0	97.6	ug/L	+/- 10.00%
	Vanadium	1000	1016	102	ug/L	+/- 10.00%
	Zinc	1000	1009	101	ug/L	+/- 10.00%
1H23804-CCV1	Aluminum	10000	9809	98.1	ug/L	+/- 10.00%
	Antimony	1000	1001	100	ug/L	+/- 10.00%
	Arsenic	1000	1037	104	ug/L	+/- 10.00%
	Barium	1000	961.7	96.2	ug/L	+/- 10.00%
	Beryllium	1000	1048	105	ug/L	+/- 10.00%
	Cadmium	1000	1055	105	ug/L	+/- 10.00%
	Calcium	50000	52820	106	ug/L	+/- 10.00%
	Chromium	1000	999.8	100	ug/L	+/- 10.00%
	Cobalt	1000	975.3	97.5	ug/L	+/- 10.00%
	Copper	1000	1015	102	ug/L	+/- 10.00%
	Iron	10000	10470	105	ug/L	+/- 10.00%
	Lead	1000	963.7	96.4	ug/L	+/- 10.00%
	Magnesium	50000	49750	99.5	ug/L	+/- 10.00%
	Manganese	1000	1010	101	ug/L	+/- 10.00%
	Nickel	1000	992.8	99.3	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV1	Selenium	1000	1002	100	ug/L	+/- 10.00%
	Silver	500.0	479.8	96.0	ug/L	+/- 10.00%
	Sodium	50000	51800	104	ug/L	+/- 10.00%
	Thallium	1000	988.3	98.8	ug/L	+/- 10.00%
	Vanadium	1000	1008	101	ug/L	+/- 10.00%
	Zinc	1000	999.8	100	ug/L	+/- 10.00%
1H23804-CCV2	Aluminum	10000	9796	98.0	ug/L	+/- 10.00%
	Antimony	1000	1009	101	ug/L	+/- 10.00%
	Arsenic	1000	1043	104	ug/L	+/- 10.00%
	Barium	1000	966.8	96.7	ug/L	+/- 10.00%
	Beryllium	1000	1049	105	ug/L	+/- 10.00%
	Cadmium	1000	1054	105	ug/L	+/- 10.00%
	Calcium	50000	52610	105	ug/L	+/- 10.00%
	Chromium	1000	995.3	99.5	ug/L	+/- 10.00%
	Cobalt	1000	979.8	98.0	ug/L	+/- 10.00%
	Copper	1000	1024	102	ug/L	+/- 10.00%
	Iron	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	963.4	96.3	ug/L	+/- 10.00%
	Magnesium	50000	49480	99.0	ug/L	+/- 10.00%
	Manganese	1000	1012	101	ug/L	+/- 10.00%
	Nickel	1000	997.6	99.8	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Selenium	1000	1009	101	ug/L	+/- 10.00%
	Silver	500.0	479.2	95.8	ug/L	+/- 10.00%
	Sodium	50000	51660	103	ug/L	+/- 10.00%
	Thallium	1000	991.6	99.2	ug/L	+/- 10.00%
	Vanadium	1000	1009	101	ug/L	+/- 10.00%
	Zinc	1000	996.2	99.6	ug/L	+/- 10.00%
1H23804-CCV3	Aluminum	10000	9891	98.9	ug/L	+/- 10.00%
	Antimony	1000	1020	102	ug/L	+/- 10.00%
	Arsenic	1000	1045	105	ug/L	+/- 10.00%
	Barium	1000	982.4	98.2	ug/L	+/- 10.00%
	Beryllium	1000	1045	105	ug/L	+/- 10.00%
	Cadmium	1000	1060	106	ug/L	+/- 10.00%
	Calcium	50000	51900	104	ug/L	+/- 10.00%
	Chromium	1000	998.7	99.9	ug/L	+/- 10.00%
	Cobalt	1000	989.7	99.0	ug/L	+/- 10.00%
	Copper	1000	1008	101	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV3	Iron	10000	10410	104	ug/L	+/- 10.00%
	Lead	1000	977.9	97.8	ug/L	+/- 10.00%
	Magnesium	50000	49360	98.7	ug/L	+/- 10.00%
	Manganese	1000	1008	101	ug/L	+/- 10.00%
	Nickel	1000	1003	100	ug/L	+/- 10.00%
	Potassium	10000	10000	100	ug/L	+/- 10.00%
	Selenium	1000	1024	102	ug/L	+/- 10.00%
	Silver	500.0	484.3	96.9	ug/L	+/- 10.00%
	Sodium	50000	51000	102	ug/L	+/- 10.00%
	Thallium	1000	997.0	99.7	ug/L	+/- 10.00%
	Vanadium	1000	1013	101	ug/L	+/- 10.00%
	Zinc	1000	1014	101	ug/L	+/- 10.00%
1H23804-CCV4	Aluminum	10000	9891	98.9	ug/L	+/- 10.00%
	Antimony	1000	1011	101	ug/L	+/- 10.00%
	Arsenic	1000	1060	106	ug/L	+/- 10.00%
	Barium	1000	963.0	96.3	ug/L	+/- 10.00%
	Beryllium	1000	1052	105	ug/L	+/- 10.00%
	Cadmium	1000	1061	106	ug/L	+/- 10.00%
	Calcium	50000	52610	105	ug/L	+/- 10.00%
	Chromium	1000	997.0	99.7	ug/L	+/- 10.00%
	Cobalt	1000	980.4	98.0	ug/L	+/- 10.00%
	Copper	1000	1008	101	ug/L	+/- 10.00%
	Iron	10000	10610	106	ug/L	+/- 10.00%
	Lead	1000	960.8	96.1	ug/L	+/- 10.00%
	Magnesium	50000	49470	98.9	ug/L	+/- 10.00%
	Manganese	1000	998.2	99.8	ug/L	+/- 10.00%
	Nickel	1000	1003	100	ug/L	+/- 10.00%
	Potassium	10000	9952	99.5	ug/L	+/- 10.00%
	Selenium	1000	998.8	99.9	ug/L	+/- 10.00%
	Silver	500.0	478.8	95.8	ug/L	+/- 10.00%
	Sodium	50000	51250	103	ug/L	+/- 10.00%
	Thallium	1000	997.9	99.8	ug/L	+/- 10.00%
	Vanadium	1000	1003	100	ug/L	+/- 10.00%
	Zinc	1000	993.6	99.4	ug/L	+/- 10.00%
1H23804-CCV5	Aluminum	10000	9892	98.9	ug/L	+/- 10.00%
	Antimony	1000	1004	100	ug/L	+/- 10.00%
	Arsenic	1000	1084	108	ug/L	+/- 10.00%
	Barium	1000	944.8	94.5	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV5	Beryllium	1000	1074	107	ug/L	+/- 10.00%
	Cadmium	1000	1069	107	ug/L	+/- 10.00%
	Calcium	50000	54480	109	ug/L	+/- 10.00%
	Chromium	1000	1003	100	ug/L	+/- 10.00%
	Cobalt	1000	974.2	97.4	ug/L	+/- 10.00%
	Copper	1000	1034	103	ug/L	+/- 10.00%
	Iron	10000	10860	109	ug/L	+/- 10.00%
	Lead	1000	947.0	94.7	ug/L	+/- 10.00%
	Magnesium	50000	50250	101	ug/L	+/- 10.00%
	Manganese	1000	1003	100	ug/L	+/- 10.00%
	Nickel	1000	1011	101	ug/L	+/- 10.00%
	Potassium	10000	9938	99.4	ug/L	+/- 10.00%
	Selenium	1000	976.8	97.7	ug/L	+/- 10.00%
	Silver	500.0	474.8	95.0	ug/L	+/- 10.00%
	Sodium	50000	53000	106	ug/L	+/- 10.00%
	Thallium	1000	1003	100	ug/L	+/- 10.00%
	Vanadium	1000	1002	100	ug/L	+/- 10.00%
	Zinc	1000	967.1	96.7	ug/L	+/- 10.00%
1H23804-CCV6	Aluminum	10000	9832	98.3	ug/L	+/- 10.00%
	Antimony	1000	990.0	99.0	ug/L	+/- 10.00%
	Arsenic	1000	1098	110	ug/L	+/- 10.00%
	Barium	1000	917.6	91.8	ug/L	+/- 10.00%
	Beryllium	1000	1080	108	ug/L	+/- 10.00%
	Cadmium	1000	1067	107	ug/L	+/- 10.00%
	Calcium	50000	55020	110	ug/L	+/- 10.00%
	Chromium	1000	1002	100	ug/L	+/- 10.00%
	Cobalt	1000	958.9	95.9	ug/L	+/- 10.00%
	Copper	1000	1042	104	ug/L	+/- 10.00%
	Iron	10000	10960	110	ug/L	+/- 10.00%
	Lead	1000	922.7	92.3	ug/L	+/- 10.00%
	Magnesium	50000	50180	100	ug/L	+/- 10.00%
	Manganese	1000	994.5	99.4	ug/L	+/- 10.00%
	Nickel	1000	1009	101	ug/L	+/- 10.00%
	Potassium	10000	9806	98.1	ug/L	+/- 10.00%
	Selenium	1000	941.5	94.1	ug/L	+/- 10.00%
	Silver	500.0	467.8	93.6	ug/L	+/- 10.00%
	Sodium	50000	53090	106	ug/L	+/- 10.00%
	Thallium	1000	997.7	99.8	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108171
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV6	Vanadium	1000	993.8	99.4	ug/L	+/- 10.00%
	Zinc	1000	937.2	93.7	ug/L	+/- 10.00%
1H23804-CCV7	Aluminum	10000	9800	98.0	ug/L	+/- 10.00%
	Antimony	1000	997.1	99.7	ug/L	+/- 10.00%
	Arsenic	1000	1083	108	ug/L	+/- 10.00%
	Barium	1000	933.8	93.4	ug/L	+/- 10.00%
	Beryllium	1000	1062	106	ug/L	+/- 10.00%
	Cadmium	1000	1063	106	ug/L	+/- 10.00%
	Calcium	50000	53500	107	ug/L	+/- 10.00%
	Chromium	1000	997.6	99.8	ug/L	+/- 10.00%
	Cobalt	1000	963.9	96.4	ug/L	+/- 10.00%
	Copper	1000	1018	102	ug/L	+/- 10.00%
	Iron	10000	10790	108	ug/L	+/- 10.00%
	Lead	1000	934.8	93.5	ug/L	+/- 10.00%
	Magnesium	50000	49460	98.9	ug/L	+/- 10.00%
	Manganese	1000	983.6	98.4	ug/L	+/- 10.00%
	Nickel	1000	1004	100	ug/L	+/- 10.00%
	Potassium	10000	9771	97.7	ug/L	+/- 10.00%
	Selenium	1000	959.3	95.9	ug/L	+/- 10.00%
	Silver	500.0	472.6	94.5	ug/L	+/- 10.00%
	Sodium	50000	51540	103	ug/L	+/- 10.00%
	Thallium	1000	993.6	99.4	ug/L	+/- 10.00%
	Vanadium	1000	990.9	99.1	ug/L	+/- 10.00%
	Zinc	1000	957.0	95.7	ug/L	+/- 10.00%

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108171

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23804-CRL1	Aluminum	100.0	105.7	106	ug/L	80 - 120
	Antimony	8.000	7.732	96.6	ug/L	80 - 120
	Barium	10.00	9.805	98.0	ug/L	80 - 120
	Beryllium	2.000	2.049	102	ug/L	80 - 120
	Cadmium	2.000	2.024	101	ug/L	80 - 120
	Calcium	2000	2103	105	ug/L	80 - 120
	Chromium	4.000	4.157	104	ug/L	80 - 120
	Cobalt	10.00	9.454	94.5	ug/L	80 - 120
	Copper	8.000	7.719	96.5	ug/L	80 - 120
	Iron	60.00	66.69	111	ug/L	80 - 120
	Lead	3.000	3.000	100	ug/L	80 - 120
	Magnesium	3000	3034	101	ug/L	80 - 120
	Manganese	6.000	6.102	102	ug/L	80 - 120
	Nickel	6.000	6.154	103	ug/L	80 - 120
	Potassium	3000	2908	97.0	ug/L	80 - 120
	Silver	2.000	2.276	114	ug/L	80 - 120
	Sodium	3000	2961	98.7	ug/L	80 - 120
	Thallium	4.000	4.196	105	ug/L	80 - 120
	Vanadium	10.00	10.01	100	ug/L	80 - 120
	Zinc	10.00	9.672	96.7	ug/L	80 - 120
1H23804-CRL2	Arsenic	5.000	5.271	105	ug/L	80 - 120
	Selenium	5.000	4.558	91.2	ug/L	80 - 120

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-ICB1	Aluminum	-7.866	50.0	200	ug/L	U	SW6010C
	Antimony	-0.09504	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.4286	3.00	6.00	ug/L	U	SW6010C
	Barium	-0.03302	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.008240	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.03450	1.00	5.00	ug/L	U	SW6010C
	Calcium	0.3900	1000	5000	ug/L	U	SW6010C
	Chromium	-0.1132	2.00	5.00	ug/L	U	SW6010C
	Cobalt	-0.07684	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.1861	5.00	10.0	ug/L	U	SW6010C
	Iron	-1.693	30.0	100	ug/L	U	SW6010C
	Lead	-0.07939	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-1.750	1000	5000	ug/L	U	SW6010C
	Manganese	-0.02176	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.2884	3.00	10.0	ug/L	U	SW6010C
	Potassium	-6.710	1000	5000	ug/L	U	SW6010C
	Selenium	-0.5113	3.00	6.00	ug/L	U	SW6010C
	Silver	0.06805	1.00	5.00	ug/L	U	SW6010C
	Sodium	20.27	1000	5000	ug/L	U	SW6010C
	Thallium	0.1406	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.006830	5.00	12.5	ug/L	U	SW6010C
	Zinc	-0.02686	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB1	Aluminum	-5.43	50.0	200	ug/L	U	SW6010C
	Antimony	-0.768	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.0216	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0701	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0147	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0876	1.00	5.00	ug/L	U	SW6010C
	Calcium	2.13	1000	5000	ug/L	U	SW6010C
	Chromium	0.0433	2.00	5.00	ug/L	U	SW6010C
	Cobalt	0.00451	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0719	5.00	10.0	ug/L	U	SW6010C
	Iron	-0.134	30.0	100	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB1	Lead	0.218	1.50	3.00	ug/L	U	SW6010C
	Magnesium	1.66	1000	5000	ug/L	U	SW6010C
	Manganese	0.0645	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.458	3.00	10.0	ug/L	U	SW6010C
	Potassium	-10.3	1000	5000	ug/L	U	SW6010C
	Selenium	0.294	3.00	6.00	ug/L	U	SW6010C
	Silver	0.203	1.00	5.00	ug/L	U	SW6010C
	Sodium	17.2	1000	5000	ug/L	U	SW6010C
	Thallium	0.448	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0978	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB2	Aluminum	0.609	50.0	200	ug/L	U	SW6010C
	Antimony	0.121	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.777	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0681	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.00481	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0490	1.00	5.00	ug/L	U	SW6010C
	Calcium	-0.0600	1000	5000	ug/L	U	SW6010C
	Chromium	0.223	2.00	5.00	ug/L	U	SW6010C
	Cobalt	0.0394	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.205	5.00	10.0	ug/L	U	SW6010C
	Iron	-1.08	30.0	100	ug/L	U	SW6010C
	Lead	-0.223	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-5.38	1000	5000	ug/L	U	SW6010C
	Manganese	0.0244	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.288	3.00	10.0	ug/L	U	SW6010C
	Potassium	19.0	1000	5000	ug/L	U	SW6010C
	Selenium	0.555	3.00	6.00	ug/L	U	SW6010C
	Silver	0.127	1.00	5.00	ug/L	U	SW6010C
	Sodium	64.5	1000	5000	ug/L	U	SW6010C
	Thallium	0.778	3.00	8.00	ug/L	U	SW6010C
	Vanadium	-0.0609	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB3	Aluminum	-1.56	50.0	200	ug/L	U	SW6010C
	Antimony	-0.327	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.308	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0776	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0332	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0738	1.00	5.00	ug/L	U	SW6010C
	Calcium	14.6	1000	5000	ug/L	U	SW6010C
	Chromium	0.121	2.00	5.00	ug/L	U	SW6010C
	Cobalt	0.0137	5.00	12.5	ug/L	U	SW6010C
	Copper	0.0230	5.00	10.0	ug/L	U	SW6010C
	Iron	0.599	30.0	100	ug/L	U	SW6010C
	Lead	0.234	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.750	1000	5000	ug/L	U	SW6010C
	Manganese	0.242	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.240	3.00	10.0	ug/L	U	SW6010C
	Potassium	2.59	1000	5000	ug/L	U	SW6010C
	Selenium	0.250	3.00	6.00	ug/L	U	SW6010C
	Silver	0.0772	1.00	5.00	ug/L	U	SW6010C
	Sodium	176	1000	5000	ug/L	U	SW6010C
	Thallium	0.764	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.172	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0592	5.00	20.0	ug/L	U	SW6010C
1H23502-BLK1	Aluminum	0.656	2.50	10.0	mg/Kg wet	U	SW6010C
	Antimony	0.0365	0.250	0.500	mg/Kg wet	U	SW6010C
	Arsenic	-0.0171	0.150	0.500	mg/Kg wet	U	SW6010C
	Barium	0.00439	0.250	2.00	mg/Kg wet	U	SW6010C
	Beryllium	-0.000512	0.0500	0.250	mg/Kg wet	U	SW6010C
	Cadmium	0.00909	0.0500	0.250	mg/Kg wet	U	SW6010C
	Calcium	1.03	50.0	250	mg/Kg wet	U	SW6010C
	Chromium	0.0338	0.100	0.500	mg/Kg wet	U	SW6010C
	Cobalt	-0.00426	0.250	0.625	mg/Kg wet	U	SW6010C
	Copper	0.0152	0.200	0.500	mg/Kg wet	U	SW6010C
	Iron	0.402	1.50	5.00	mg/Kg wet	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23502-BLK1	Lead	0.0362	0.0750	0.150	mg/Kg wet	U	SW6010C
	Magnesium	-0.0385	50.0	250	mg/Kg wet	U	SW6010C
	Manganese	0.0136	0.150	0.750	mg/Kg wet	U	SW6010C
	Nickel	0.0165	0.150	0.500	mg/Kg wet	U	SW6010C
	Potassium	2.70	50.0	250	mg/Kg wet	U	SW6010C
	Selenium	0.0963	0.150	0.500	mg/Kg wet	U	SW6010C
	Silver	-0.00505	0.0500	0.500	mg/Kg wet	U	SW6010C
	Sodium	6.41	50.0	250	mg/Kg wet	U	SW6010C
	Thallium	-0.0258	0.150	0.400	mg/Kg wet	U	SW6010C
	Vanadium	0.00365	0.250	0.625	mg/Kg wet	U	SW6010C
	Zinc	0.223	0.250	1.00	mg/Kg wet	U	SW6010C
1H23804-CCB4	Aluminum	21.4	50.0	200	ug/L	U	SW6010C
	Antimony	-0.491	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.0774	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0807	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.149	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0518	1.00	5.00	ug/L	U	SW6010C
	Calcium	38.7	1000	5000	ug/L	U	SW6010C
	Chromium	0.190	2.00	5.00	ug/L	U	SW6010C
	Cobalt	0.0275	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0989	5.00	10.0	ug/L	U	SW6010C
	Iron	32.0	30.0	100	ug/L	I	SW6010C
	Lead	0.306	1.50	3.00	ug/L	U	SW6010C
	Magnesium	14.4	1000	5000	ug/L	U	SW6010C
	Manganese	0.279	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.380	3.00	10.0	ug/L	U	SW6010C
	Potassium	11.9	1000	5000	ug/L	U	SW6010C
	Selenium	-0.186	3.00	6.00	ug/L	U	SW6010C
	Silver	0.203	1.00	5.00	ug/L	U	SW6010C
	Sodium	39.8	1000	5000	ug/L	U	SW6010C
	Thallium	0.278	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.295	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0294	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB5	Aluminum	33.6	50.0	200	ug/L	U	SW6010C
	Antimony	-0.683	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.386	3.00	6.00	ug/L	U	SW6010C
	Barium	0.194	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.215	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.102	1.00	5.00	ug/L	U	SW6010C
	Calcium	32.0	1000	5000	ug/L	U	SW6010C
	Chromium	0.135	2.00	5.00	ug/L	U	SW6010C
	Cobalt	0.0284	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.225	5.00	10.0	ug/L	U	SW6010C
	Iron	79.2	30.0	100	ug/L	I	SW6010C
	Lead	-0.559	1.50	3.00	ug/L	U	SW6010C
	Magnesium	20.3	1000	5000	ug/L	U	SW6010C
	Manganese	0.728	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.631	3.00	10.0	ug/L	U	SW6010C
	Potassium	8.71	1000	5000	ug/L	U	SW6010C
	Selenium	0.283	3.00	6.00	ug/L	U	SW6010C
	Silver	0.156	1.00	5.00	ug/L	U	SW6010C
	Sodium	18.7	1000	5000	ug/L	U	SW6010C
	Thallium	0.637	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.234	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0793	5.00	20.0	ug/L	U	SW6010C
1H23503-BLK1	Aluminum	0.202	2.50	10.0	mg/Kg wet	U	SW6010C
	Antimony	-0.0136	0.250	0.500	mg/Kg wet	U	SW6010C
	Arsenic	-0.0340	0.150	0.500	mg/Kg wet	U	SW6010C
	Barium	0.000342	0.250	2.00	mg/Kg wet	U	SW6010C
	Beryllium	-0.00106	0.0500	0.250	mg/Kg wet	U	SW6010C
	Cadmium	0.00472	0.0500	0.250	mg/Kg wet	U	SW6010C
	Calcium	0.538	50.0	250	mg/Kg wet	U	SW6010C
	Chromium	0.0319	0.100	0.500	mg/Kg wet	U	SW6010C
	Cobalt	-0.00716	0.250	0.625	mg/Kg wet	U	SW6010C
	Copper	-0.0203	0.200	0.500	mg/Kg wet	U	SW6010C
	Iron	0.391	1.50	5.00	mg/Kg wet	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23503-BLK1	Lead	0.0242	0.0750	0.150	mg/Kg wet	U	SW6010C
	Magnesium	-0.121	50.0	250	mg/Kg wet	U	SW6010C
	Manganese	0.00808	0.150	0.750	mg/Kg wet	U	SW6010C
	Nickel	0.0386	0.150	0.500	mg/Kg wet	U	SW6010C
	Potassium	1.34	50.0	250	mg/Kg wet	U	SW6010C
	Selenium	0.0484	0.150	0.500	mg/Kg wet	U	SW6010C
	Silver	-0.0113	0.0500	0.500	mg/Kg wet	U	SW6010C
	Sodium	0.128	50.0	250	mg/Kg wet	U	SW6010C
	Thallium	-0.0483	0.150	0.400	mg/Kg wet	U	SW6010C
	Vanadium	0.00124	0.250	0.625	mg/Kg wet	U	SW6010C
	Zinc	0.215	0.250	1.00	mg/Kg wet	U	SW6010C
1H23804-CCB6	Aluminum	12.0	50.0	200	ug/L	U	SW6010C
	Antimony	-0.0323	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.0526	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0945	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.165	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.107	1.00	5.00	ug/L	U	SW6010C
	Calcium	24.4	1000	5000	ug/L	U	SW6010C
	Chromium	0.0577	2.00	5.00	ug/L	U	SW6010C
	Cobalt	-0.00519	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.366	5.00	10.0	ug/L	U	SW6010C
	Iron	27.1	30.0	100	ug/L	U	SW6010C
	Lead	-0.360	1.50	3.00	ug/L	U	SW6010C
	Magnesium	9.60	1000	5000	ug/L	U	SW6010C
	Manganese	0.272	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.850	3.00	10.0	ug/L	U	SW6010C
	Potassium	-5.39	1000	5000	ug/L	U	SW6010C
	Selenium	0.0782	3.00	6.00	ug/L	U	SW6010C
	Silver	0.116	1.00	5.00	ug/L	U	SW6010C
	Sodium	6.67	1000	5000	ug/L	U	SW6010C
	Thallium	0.424	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.309	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0628	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108171
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB7	Aluminum	2.90	50.0	200	ug/L	U	SW6010C
	Antimony	-0.0683	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.0382	3.00	6.00	ug/L	U	SW6010C
	Barium	0.134	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.119	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.136	1.00	5.00	ug/L	U	SW6010C
	Calcium	12.5	1000	5000	ug/L	U	SW6010C
	Chromium	0.0117	2.00	5.00	ug/L	U	SW6010C
	Cobalt	0.0724	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.254	5.00	10.0	ug/L	U	SW6010C
	Iron	14.1	30.0	100	ug/L	U	SW6010C
	Lead	0.542	1.50	3.00	ug/L	U	SW6010C
	Magnesium	6.29	1000	5000	ug/L	U	SW6010C
	Manganese	0.185	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.751	3.00	10.0	ug/L	U	SW6010C
	Potassium	-7.87	1000	5000	ug/L	U	SW6010C
	Selenium	-0.0561	3.00	6.00	ug/L	U	SW6010C
	Silver	0.197	1.00	5.00	ug/L	U	SW6010C
	Sodium	4.09	1000	5000	ug/L	U	SW6010C
	Thallium	0.866	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.250	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.135	5.00	20.0	ug/L	U	SW6010C

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **A. PATE** **DATE:** **DECEMBER 8, 2011**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC / SVOC / PAH / PCB**
NAS JACKSONVILLE, CTO JM19
SAMPLE DELIVERY GROUP (SDG) – 1108173

SAMPLES: 6 / Aqueous / VOC

55GW03-0008-08152011	55GW03-0008-08152011D	55GW04-0008-08152011
55GW07-0009-08152011	55GW09-0008-08152011	TB-01

5 / Aqueous / SVOC / PAH

55GW03-0008-08152011	55GW03-0008-08152011D	55GW04-0008-08152011
55GW07-0009-08152011	55GW09-0008-08152011	

4 / Aqueous / PCB

55GW03-0008-08152011	55GW04-0008-08152011	55GW07-0009-08152011
55GW09-0008-08152011		

Overview

The sample set for NAS Jacksonville, CTO JM19, SDG 1108173 consisted of six (6) aqueous samples including one (1) aqueous QC trip blank sample. The samples were analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC) including polyaromatic hydrocarbons (PAH), and polychlorinated biphenyls (PCB) as indicated above. One (1) field duplicate sample pair was included in the Sample Delivery Group (SDG); 55GW03-0008-08152011 / 55GW03-0008-08152011D.

The samples were collected by TetraTech NUS on August 15, 2011 and analyzed by Empirical Laboratories, LLC. All analyses were conducted using USEPA SW-846 Methods 8260B for VOC, 8270C Full Scan for SVOCs and PAHs, and 8082A for PCBs, analytical and reporting protocols.

The data contained in this SDG were fully validated with regard to the following parameters:

- Data Completeness
- * Holding Times
- * GC/MS Tuning
- Initial and Continuing Calibration
- * Laboratory Blank Analyses
- Surrogate Recoveries
- Blank Spike/Blank Spike Duplicate Results
- * Internal Standard Recoveries
- * Compound Quantitation
- * Compound Identification
- * Detection Limits

The symbol (*) indicates that 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.

VOC

The continuing calibration verification (CCV) percent difference (%D) was greater than the 20% quality control limit for dichlorodifluoromethane for instrument MS-VOA4 on 08/18/11 @ 08:01.

Affecting samples:

55GW03-0008-08152011	55GW03-0008-08152011D	55GW04-0008-08152011
55GW07-0009-08152011	55GW09-0008-08152011	TB-01

Action: The non-detected dichlorodifluoromethane results for the samples were qualified estimated, (UJ).

SVOC/PAH

The continuing CCV %D was greater than the 20% quality control limit for benzo(b)fluoranthene, butyl benzyl phthalate, 3,3'-dichlorobenzidine, di-n-octylphthalate, and bis(2-ethylhexyl)phthalate for instrument MS-BNA3 on 09/06/11 @ 16:40.

Affecting samples:

55GW03-0008-08152011	55GW03-0008-08152011D	55GW04-0008-08152011
55GW07-0009-08152011	55GW09-0008-08152011	

Action: The non-detected benzo(b)fluoranthene, butyl benzyl phthalate, 3,3'-dichlorobenzidine, di-n-octylphthalate, and bis(2-ethylhexyl)phthalate results for the aforementioned samples were qualified estimated, (UJ).

The laboratory control sample (LCS) and LCS duplicate (LCSD) %Rs were quality control limit non-compliant for batch 1H16013 for instrument MS-BNA3 for analytes as listed below.

Analyte	LCS %R	LCSD %R
Butyl benzylphthalate	132	126
Caprolactam	16.1	15.6
4-Chloro-3-methylphenol	----	42.3
2,4-Dichlorophenol	----	37.6
Di-n-octylphthalate	137	136
Bis(2-ethylhexyl)phthalate	131	126
2-Methylphenol	35.6	35.9
2,3,4,6-Tetrachlorophenol	48.4	36.5
2,4,6-Trichlorophenol	----	40.9
2,4,5-Trichlorophenol	----	40.2

Affecting samples: All samples

Action: Non-detected results for caprolactam 2-methylphenol, 2,3,4,6-tetrachlorophenol were qualified estimated, (UJ), for all samples as the %Rs were less than the quality control limit for both the LCS and the LCSD. Additionally, the non-detected results for 4-chloro-3-methylphenol, 2,4-dichlorophenol, 2,4,6-trichlorophenol, and 2,4,5-trichlorophenol were qualified estimated, (UJ), for all samples as the %Rs for the LCSD were less than the quality control limit. The butyl benzylphthalate, di-n-octylphthalate, and bis(2-ethylhexyl)phthalate sample results were not qualified as all samples had non-detected results and the %R was greater than the quality control limit.

The sample surrogate %Rs were quality control limit non-compliant for batch 1H16013 for instrument MS-BNA3 for analytes as listed below.

Sample	2-Fluorobiphenyl	2,4,6-Tribromophenol
55GW04-0008-08152011	47.2	----
55GW07-0009-08152011	44.8	36.8
55GW03-0008-08152011	47.9	----
55GW03-0008-08152011D	37.8	----
55GW09-0008-08152011	46.8	----

Action: No action was taken as only one fractional surrogate was non-compliant in each sample.

PCB

The Aroclor-1016 and Aroclor-1260 CCV average %Ds were greater than the 20% quality control limit for instrument GL-ECD3 for dates/times and analytical columns as listed below.

Date/Time	Analyte	ZB MR-1	ZB MR-2
Opening CCVs			
08/23/11@ 00:05	Aroclor-1016	24.7% avg	------
08/23/11@ 00:23	Aroclor-1254	20.1% avg	21.5% avg
Closing CCVs			
08/23/11@ 07:15	Aroclor-1016	27.5% avg	------
08/23/11@ 07:33	Aroclor-1254	22.6% avg	------

Affecting samples: 55GW04-0008-08152011, 55GW07-0009-08152011, 55GW03-0008-08152011
Action: The affected samples non-detected results for Aroclor-1254 were qualified estimated, (UJ), as both columns were quality control limit non-compliant. No action was taken for the Aroclor-1016 sample results as the alternate column was quality control limit compliant and the samples had non-detected results for Aroclor-1016.

The Aroclor-1016 and Aroclor-1260 CCV average %Ds were greater than the 20% quality control limit for instrument GL-ECD3 for dates/times and analytical columns as listed below.

Date/Time	Analyte	ZB MR-1	ZB MR-2
Opening CCVs			
08/23/11@ 00:05	Aroclor-1016	23.4% avg	------
Closing CCVs			
08/23/11@ 18:57	Aroclor-1016	28.3% avg	24.8

Affecting samples: 55GW09-0008-08152011
Action: The affected sample non-detected result for Aroclor-1016 was qualified estimated, (UJ), as both columns were quality control limit non-compliant.

The sample surrogate tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) percent recoveries %Rs were greater than the quality control limit for instrument GL-ECD3 for samples and analytical columns as listed below.

Sample	TCX Col. 1	TCX Col. 2	DCB Col. 1	DCB Col. 2
55GW04-0008-08152011	----	----	31.1	31.2
55GW03-0008-08152011	----	----	19.1	19.4

Action: The affected sample non-detected result for all Aroclors were qualified estimated, (UJ), as both columns were quality control limit non-compliant.

Additional Comments

Positive results reported below the Limit of Quantitation (LOQ) but above the method detection limit (MDL) were qualified as estimated, (J).

VOC and SVOC analyte non-detected results for some analytes for the SDG samples were greater than the Project Action Level (PAL) concentrations for these analytes. This was also noted in the Sampling Analysis Plan (SAP) and no action was necessary for this issue.

The laboratory did not initially provide data for the PAH fractions in the SVOC data. The laboratory was contacted and provided the SVOC/PAH data necessary for data evaluation. The PAH data was performed using the higher level Full Scan methodology as part of the SVOC fraction.

Executive Summary

Laboratory Performance: VOC, SVOC, PAH, and PCB CCV %Ds greater than the quality control limit resulted in qualification of VOC, SVOC, PAH, and PCB analytes. Sample SVOCs were qualified for LCS and LCSD %R quality control limit non-compliances. Sample Aroclor results were qualified for PCB %R quality control limit non-compliances.

Other Factors Affecting Data Quality: Positive results reported below the LOQ but above the MDL were qualified as estimated, (J).

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).

Tetra Tech NUS
Joseph Kalinyak
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

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	=	ICP PDS Recovery Noncompliance; 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	=	RPD between columns/detectors >40% 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
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed

PROJ_NO: 02686	NSAMPLE	55GW03-0008-08152011			55GW03-0008-08152011D			55GW04-0008-08152011			55GW07-0009-08152011		
SDG: 1108173	LAB_ID	1108173-04			1108173-05			1108173-02			1108173-03		
FRACTION: OV	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				55GW03-0008-08152011								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,1,2,2-TETRACHLOROETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,1,2-TRICHLOROETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
1,1-DICHLOROETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,1-DICHLOROETHENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2,3-TRICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2,4-TRICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.5	U		0.5	U		0.5	U		0.5	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
1,2-DICHLOROETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,4-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
2-BUTANONE		2.5	U		2.5	U		2.5	U		2.5	U	
2-HEXANONE		1.25	U		1.25	U		1.25	U		1.25	U	
4-METHYL-2-PENTANONE		1.25	U		1.25	U		1.25	U		1.25	U	
ACETONE		4	J	P	4.23	J	P	2.5	U		4.27	J	P
BENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
BROMOCHLOROMETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
BROMODICHLOROMETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
BROMOFORM		0.25	U		0.25	U		0.25	U		0.25	U	
BROMOMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
CARBON DISULFIDE		0.25	U		0.25	U		0.25	U		0.25	U	
CARBON TETRACHLORIDE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.25	U		0.25	U		0.25	U		0.25	U	
CIS-1,2-DICHLOROETHENE		0.25	U		0.25	U		0.25	U		0.25	U	
CIS-1,3-DICHLOROPROPENE		0.25	U		0.25	U		0.25	U		0.25	U	
CYCLOHEXANE		0.25	U		0.25	U		0.25	U		0.25	U	
DICHLORODIFLUOROMETHANE		0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C

PROJ_NO: 02686	NSAMPLE	55GW09-0008-08152011			TB-01		
SDG: 1108173	LAB_ID	1108173-06			1108173-07		
FRACTION: OV	SAMP_DATE	8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.25	U		0.25	U	
1,1,2,2-TETRACHLOROETHANE		0.25	U		0.25	U	
1,1,2-TRICHLOROETHANE		0.25	U		0.25	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.5	U		0.5	U	
1,1-DICHLOROETHANE		0.25	U		0.25	U	
1,1-DICHLOROETHENE		0.25	U		0.25	U	
1,2,3-TRICHLOROBENZENE		0.25	U		0.25	U	
1,2,4-TRICHLOROBENZENE		0.25	U		0.25	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.5	U		0.5	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.16	U		0.16	U	
1,2-DICHLOROETHANE		0.25	U		0.25	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.25	U		0.25	U	
1,4-DICHLOROBENZENE		0.25	U		0.25	U	
2-BUTANONE		2.5	U		2.5	U	
2-HEXANONE		1.25	U		1.25	U	
4-METHYL-2-PENTANONE		1.25	U		1.25	U	
ACETONE		2.5	U		2.5	U	
BENZENE		0.25	U		0.25	U	
BROMOCHLOROMETHANE		0.25	U		0.25	U	
BROMODICHLOROMETHANE		0.25	U		0.25	U	
BROMOFORM		0.25	U		0.25	U	
BROMOMETHANE		0.5	U		0.5	U	
CARBON DISULFIDE		0.25	U		0.25	U	
CARBON TETRACHLORIDE		0.25	U		0.25	U	
CHLOROBENZENE		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.25	U		0.25	U	
CHLOROETHANE		0.5	U		0.5	U	
CHLOROFORM		0.25	U		0.25	U	
CHLOROMETHANE		0.25	U		0.25	U	
CIS-1,2-DICHLOROETHENE		0.25	U		0.25	U	
CIS-1,3-DICHLOROPROPENE		0.25	U		0.25	U	
CYCLOHEXANE		0.25	U		0.25	U	
DICHLORODIFLUOROMETHANE		0.5	UJ	C	0.5	UJ	C

PROJ_NO: 02686	NSAMPLE	55GW03-0008-08152011			55GW03-0008-08152011D			55GW04-0008-08152011			55GW07-0009-08152011		
SDG: 1108173	LAB_ID	1108173-04			1108173-05			1108173-02			1108173-03		
FRACTION: OV	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				55GW03-0008-08152011								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
ISOPROPYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
M+P-XYLENES		0.5	U		0.5	U		0.5	U		0.5	U	
METHYL ACETATE		0.5	U		0.5	U		0.5	U		0.5	U	
METHYL CYCLOHEXANE		0.25	U		0.25	U		0.25	U		0.25	U	
METHYL TERT-BUTYL ETHER		0.25	U		0.25	U		0.25	U		0.25	U	
METHYLENE CHLORIDE		0.5	U		0.5	U		0.5	U		0.5	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
STYRENE		0.25	U		0.25	U		0.25	U		0.25	U	
TETRACHLOROETHENE		0.25	U		0.25	U		0.25	U		0.25	U	
TOLUENE		0.25	U		0.25	U		0.25	U		0.25	U	
TRANS-1,2-DICHLOROETHENE		0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE		0.25	U		0.25	U		0.25	U		0.25	U	
TRICHLOROETHENE		0.25	U		0.25	U		0.25	U		0.25	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE		0.25	U		0.25	U		0.25	U		0.25	U	

PROJ_NO: 02686	NSAMPLE	55GW09-0008-08152011			TB-01		
SDG: 1108173	LAB_ID	1108173-06			1108173-07		
FRACTION: OV	SAMP_DATE	8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHYLBENZENE		0.25	U		0.25	U	
ISOPROPYLBENZENE		0.25	U		0.25	U	
M+P-XYLENES		0.5	U		0.5	U	
METHYL ACETATE		0.5	U		0.5	U	
METHYL CYCLOHEXANE		0.25	U		0.25	U	
METHYL TERT-BUTYL ETHER		0.316	J	P	0.25	U	
METHYLENE CHLORIDE		0.5	U		0.5	U	
O-XYLENE		0.25	U		0.25	U	
STYRENE		0.25	U		0.25	U	
TETRACHLOROETHENE		0.25	U		0.25	U	
TOLUENE		0.25	U		0.25	U	
TRANS-1,2-DICHLOROETHENE		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE		0.25	U		0.25	U	
TRICHLOROETHENE		0.25	U		0.25	U	
TRICHLOROFLUOROMETHANE		0.5	U		0.5	U	
VINYL CHLORIDE		0.25	U		0.25	U	

PROJ_NO: 02686	NSAMPLE	55GW03-0008-08152011			55GW03-0008-08152011D			55GW04-0008-08152011			55GW07-0009-08152011		
SDG: 1108173	LAB_ID	1108173-04			1108173-05			1108173-02			1108173-03		
FRACTION: OS	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				55GW03-0008-08152011								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		1.18	U		1.16	U		1.18	U		1.16	U	
1,2,4,5-TETRACHLOROBENZENE		1.18	U		1.16	U		1.18	U		1.16	U	
1,4-DIOXANE		1.18	U		1.16	U		1.18	U		1.16	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		1.18	U		1.16	U		1.18	U		1.16	U	
2,3,4,6-TETRACHLOROPHENOL		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E
2,4,5-TRICHLOROPHENOL		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E
2,4,6-TRICHLOROPHENOL		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E
2,4-DICHLOROPHENOL		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E
2,4-DIMETHYLPHENOL		4.72	U		4.63	U		4.72	U		4.63	U	
2,4-DINITROPHENOL		11.8	U		11.6	U		11.8	U		11.6	U	
2,4-DINITROTOLUENE		1.18	U		1.16	U		1.18	U		1.16	U	
2,6-DINITROTOLUENE		1.18	U		1.16	U		1.18	U		1.16	U	
2-CHLORONAPHTHALENE		1.18	U		1.16	U		1.18	U		1.16	U	
2-CHLOROPHENOL		1.18	U		1.16	U		1.18	U		1.16	U	
2-METHYLPHENOL		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E
2-NITROANILINE		4.72	U		4.63	U		4.72	U		4.63	U	
2-NITROPHENOL		1.18	U		1.16	U		1.18	U		1.16	U	
3,3'-DICHLOROBENZIDINE		1.18	UJ	C	1.16	UJ	C	1.18	UJ	C	1.16	UJ	C
3-NITROANILINE		4.72	U		4.63	U		4.72	U		4.63	U	
4,6-DINITRO-2-METHYLPHENOL		4.72	U		4.63	U		4.72	U		4.63	U	
4-BROMOPHENYL PHENYL ETHER		1.18	U		1.16	U		1.18	U		1.16	U	
4-CHLORO-3-METHYLPHENOL		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E
4-CHLOROANILINE		1.18	U		1.16	U		1.18	U		1.16	U	
4-CHLOROPHENYL PHENYL ETHER		1.18	U		1.16	U		1.18	U		1.16	U	
4-METHYLPHENOL		1.18	U		1.16	U		1.18	U		1.16	U	
4-NITROANILINE		4.72	U		4.63	U		4.72	U		4.63	U	
4-NITROPHENOL		4.72	U		4.63	U		4.72	U		4.63	U	
ACETOPHENONE		1.18	U		1.16	U		1.18	U		1.16	U	
ATRAZINE		1.18	U		1.16	U		1.18	U		1.16	U	
BENZALDEHYDE		1.18	U		1.16	U		1.18	U		1.16	U	
BIS(2-CHLOROETHOXY)METHANE		1.18	U		1.16	U		1.18	U		1.16	U	
BIS(2-CHLOROETHYL)ETHER		1.18	U		1.16	U		1.18	U		1.16	U	
BIS(2-ETHYLHEXYL)PHTHALATE		1.18	UJ	C	1.16	UJ	C	1.18	UJ	C	1.16	UJ	C
BUTYL BENZYL PHTHALATE		1.18	UJ	C	1.16	UJ	C	1.18	UJ	C	1.16	UJ	C
CAPROLACTAM		1.18	UJ	E	1.16	UJ	E	1.18	UJ	E	1.16	UJ	E

PROJ_NO: 02686	NSAMPLE	55GW09-0008-08152011		
SDG: 1108173	LAB_ID	1108173-06		
FRACTION: OS	SAMP_DATE	8/15/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1-BIPHENYL		1.2	U	
1,2,4,5-TETRACHLOROBENZENE		1.2	U	
1,4-DIOXANE		1.2	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		1.2	U	
2,3,4,6-TETRACHLOROPHENOL		1.2	UJ	E
2,4,5-TRICHLOROPHENOL		1.2	UJ	E
2,4,6-TRICHLOROPHENOL		1.2	UJ	E
2,4-DICHLOROPHENOL		1.2	UJ	E
2,4-DIMETHYLPHENOL		4.81	U	
2,4-DINITROPHENOL		12	U	
2,4-DINITROTOLUENE		1.2	U	
2,6-DINITROTOLUENE		1.2	U	
2-CHLORONAPHTHALENE		1.2	U	
2-CHLOROPHENOL		1.2	U	
2-METHYLPHENOL		1.2	UJ	E
2-NITROANILINE		4.81	U	
2-NITROPHENOL		1.2	U	
3,3'-DICHLOROBENZIDINE		1.2	UJ	C
3-NITROANILINE		4.81	U	
4,6-DINITRO-2-METHYLPHENOL		4.81	U	
4-BROMOPHENYL PHENYL ETHER		1.2	U	
4-CHLORO-3-METHYLPHENOL		1.2	UJ	E
4-CHLOROANILINE		1.2	U	
4-CHLOROPHENYL PHENYL ETHER		1.2	U	
4-METHYLPHENOL		1.2	U	
4-NITROANILINE		4.81	U	
4-NITROPHENOL		4.81	U	
ACETOPHENONE		1.2	U	
ATRAZINE		1.2	U	
BENZALDEHYDE		1.2	U	
BIS(2-CHLOROETHOXY)METHANE		1.2	U	
BIS(2-CHLOROETHYL)ETHER		1.2	U	
BIS(2-ETHYLHEXYL)PHTHALATE		1.2	UJ	C
BUTYL BENZYL PHTHALATE		1.2	UJ	C
CAPROLACTAM		1.2	UJ	E

PROJ_NO: 02686 SDG: 1108173 FRACTION: OS MEDIA: WATER	NSAMPLE	55GW03-0008-08152011			55GW03-0008-08152011D			55GW04-0008-08152011			55GW07-0009-08152011		
	LAB_ID	1108173-04			1108173-05			1108173-02			1108173-03		
	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				55GW03-0008-08152011								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBAZOLE		1.18	U		1.16	U		1.18	U		1.16	U	
DIBENZOFURAN		1.18	U		1.16	U		1.18	U		1.16	U	
DIETHYL PHTHALATE		1.18	U		1.16	U		1.18	U		1.16	U	
DIMETHYL PHTHALATE		1.18	U		1.16	U		1.18	U		1.16	U	
DI-N-BUTYL PHTHALATE		1.18	U		1.16	U		1.18	U		1.16	U	
DI-N-OCTYL PHTHALATE		1.18	UJ	C	1.16	UJ	C	1.18	UJ	C	1.16	UJ	C
HEXACHLOROBENZENE		1.18	U		1.16	U		1.18	U		1.16	U	
HEXACHLOROBUTADIENE		1.18	U		1.16	U		1.18	U		1.16	U	
HEXACHLOROCYCLOPENTADIENE		1.18	U		1.16	U		1.18	U		1.16	U	
HEXACHLOROETHANE		1.18	U		1.16	U		1.18	U		1.16	U	
ISOPHORONE		1.18	U		1.16	U		1.18	U		1.16	U	
NAPHTHALENE		1.18	U		1.16	U		1.18	U		1.16	U	
NITROBENZENE		1.18	U		1.16	U		1.18	U		1.16	U	
N-NITROSO-DI-N-PROPYLAMINE		1.18	U		1.16	U		1.18	U		1.16	U	
N-NITROSODIPHENYLAMINE		1.18	U		1.16	U		1.18	U		1.16	U	
PENTACHLOROPHENOL		4.72	U		4.63	U		4.72	U		4.63	U	
PHENOL		1.18	U		1.16	U		1.18	U		1.16	U	

PROJ_NO: 02686	NSAMPLE	55GW09-0008-08152011
SDG: 1108173	LAB_ID	1108173-06
FRACTION: OS	SAMP_DATE	8/15/2011
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
CARBAZOLE	1.2	U	
DIBENZOFURAN	1.2	U	
DIETHYL PHTHALATE	1.2	U	
DIMETHYL PHTHALATE	1.2	U	
DI-N-BUTYL PHTHALATE	1.2	U	
DI-N-OCTYL PHTHALATE	1.2	UJ	C
HEXACHLOROBENZENE	1.2	U	
HEXACHLOROBUTADIENE	1.2	U	
HEXACHLOROCYCLOPENTADIENE	1.2	U	
HEXACHLOROETHANE	1.2	U	
ISOPHORONE	1.2	U	
NAPHTHALENE	1.2	U	
NITROBENZENE	1.2	U	
N-NITROSO-DI-N-PROPYLAMINE	1.2	U	
N-NITROSODIPHENYLAMINE	1.2	U	
PENTACHLOROPHENOL	4.81	U	
PHENOL	1.2	U	

PROJ_NO: 02686	NSAMPLE	55GW03-0008-08152011			55GW03-0008-08152011D			55GW04-0008-08152011			55GW07-0009-08152011		
SDG: 1108173	LAB_ID	1108173-04			1108173-05			1108173-02			1108173-03		
FRACTION: PAH	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				55GW03-0008-08152011								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		1.18	U		1.16	U		1.18	U		1.16	U	
2-METHYLNAPHTHALENE		1.18	U		1.16	U		1.18	U		1.16	U	
ACENAPHTHENE		1.18	U		1.16	U		1.18	U		1.16	U	
ACENAPHTHYLENE		1.18	U		1.16	U		1.18	U		1.16	U	
ANTHRACENE		1.18	U		1.16	U		1.18	U		1.16	U	
BENZO(A)ANTHRACENE		1.18	U		1.16	U		1.18	U		1.16	U	
BENZO(A)PYRENE		1.18	U		1.16	U		1.18	U		1.16	U	
BENZO(B)FLUORANTHENE		1.18	UJ	C	1.16	UJ	C	1.18	UJ	C	1.16	UJ	C
BENZO(G,H,I)PERYLENE		1.18	U		1.16	U		1.18	U		1.16	U	
BENZO(K)FLUORANTHENE		1.18	U		1.16	U		1.18	U		1.16	U	
CHRYSENE		1.18	U		1.16	U		1.18	U		1.16	U	
DIBENZO(A,H)ANTHRACENE		1.18	U		1.16	U		1.18	U		1.16	U	
FLUORANTHENE		1.18	U		1.16	U		1.18	U		1.16	U	
FLUORENE		1.18	U		1.16	U		1.18	U		1.16	U	
INDENO(1,2,3-CD)PYRENE		1.18	U		1.16	U		1.18	U		1.16	U	
PHENANTHRENE		1.18	U		1.16	U		1.18	U		1.16	U	
PHENOL		1.18	U		1.16	U		1.18	U		1.16	U	

PROJ_NO: 02686	NSAMPLE	55GW09-0008-08152011		
SDG: 1108173	LAB_ID	1108173-06		
FRACTION: PAH	SAMP_DATE	8/15/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		1.2	U	
2-METHYLNAPHTHALENE		1.2	U	
ACENAPHTHENE		1.2	U	
ACENAPHTHYLENE		1.2	U	
ANTHRACENE		1.2	U	
BENZO(A)ANTHRACENE		1.2	U	
BENZO(A)PYRENE		1.2	U	
BENZO(B)FLUORANTHENE		1.2	UJ	C
BENZO(G,H,I)PERYLENE		1.2	U	
BENZO(K)FLUORANTHENE		1.2	U	
CHRYSENE		1.2	U	
DIBENZO(A,H)ANTHRACENE		1.2	U	
FLUORANTHENE		1.2	U	
FLUORENE		1.2	U	
INDENO(1,2,3-CD)PYRENE		1.2	U	
PHENANTHRENE		1.2	U	
PHENOL		1.2	U	

PROJ_NO: 02686	NSAMPLE	55GW03-0008-08152011			55GW04-0008-08152011			55GW07-0009-08152011			55GW09-0008-08152011		
SDG: 1108173	LAB_ID	1108173-04			1108173-02			1108173-03			1108173-06		
FRACTION: PCB	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
AROCLOR-1016		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	UJ	C
AROCLOR-1221		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	
AROCLOR-1232		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	
AROCLOR-1242		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	
AROCLOR-1248		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	
AROCLOR-1254		0.113	UJ	CR	0.113	UJ	CR	0.115	UJ	C	0.118	U	
AROCLOR-1260		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	
AROCLOR-1262		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	
AROCLOR-1268		0.113	UJ	R	0.113	UJ	R	0.115	U		0.118	U	

Appendix B

Results as Reported by the Laboratory

ANALYSIS DATA SHEET

55GW03-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-04	File ID:	0817304.D
Sampled:	08/15/11 10:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 17:08
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.00	2.50	5.00	10.0	I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

55GW03-0008-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-04	File ID:	0817304.D
Sampled:	08/15/11 10:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 17:08
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.46	102	75 - 120	
Dibromofluoromethane	30.00	30.29	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.99	96.6	70 - 120	
Toluene-d8	30.00	29.86	99.5	85 - 120	

ANALYSIS DATA SHEET

55GW03-0008-08152011D

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-05	File ID:	0817305.D
Sampled:	08/15/11 10:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 17:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.23	2.50	5.00	10.0	I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

55GW03-0008-08152011D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-05	File ID:	0817305.D
Sampled:	08/15/11 10:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 17:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.45	102	75 - 120	
Dibromofluoromethane	30.00	29.84	99.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.41	101	70 - 120	
Toluene-d8	30.00	29.99	100	85 - 120	

ANALYSIS DATA SHEET

55GW04-0008-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-02	File ID:	0817302.D
Sampled:	08/15/11 08:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 16:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

55GW04-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-02	File ID:	0817302.D
Sampled:	08/15/11 08:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 16:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.43	101	75 - 120	
Dibromofluoromethane	30.00	31.22	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.16	101	70 - 120	
Toluene-d8	30.00	30.10	100	85 - 120	

ANALYSIS DATA SHEET

55GW07-0009-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-03	File ID:	0817303.D
Sampled:	08/15/11 09:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 16:40
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.27	2.50	5.00	10.0	I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

55GW07-0009-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-03	File ID:	0817303.D
Sampled:	08/15/11 09:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 16:40
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.12	97.1	75 - 120	
Dibromofluoromethane	30.00	29.61	98.7	85 - 115	
1,2-Dichloroethane-d4	30.00	29.21	97.4	70 - 120	
Toluene-d8	30.00	29.67	98.9	85 - 120	

ANALYSIS DATA SHEET

55GW09-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-06	File ID:	0817306.D
Sampled:	08/15/11 11:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 18:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether	0.316	0.250	0.500	1.00	I
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

55GW09-0008-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-06	File ID:	0817306.D
Sampled:	08/15/11 11:50	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 18:05
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.73	102	75 - 120	
Dibromofluoromethane	30.00	29.70	99.0	85 - 115	
1,2-Dichloroethane-d4	30.00	29.54	98.5	70 - 120	
Toluene-d8	30.00	31.38	105	85 - 120	

ANALYSIS DATA SHEET

TB-01

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-07	File ID:	0817307.D
Sampled:	08/15/11 12:00	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 13:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

TB-01

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-07	File ID:	0817307.D
Sampled:	08/15/11 12:00	Prepared:	08/18/11 08:27	Analyzed:	08/18/11 13:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.01	100	75 - 120	
Dibromofluoromethane	30.00	30.13	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.21	101	70 - 120	
Toluene-d8	30.00	29.23	97.4	85 - 120	

ANALYSIS DATA SHEET

55GW03-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-04	File ID:	0817304.D
Sampled:	08/15/11 10:50	Prepared:	08/17/11 10:15	Analyzed:	09/06/11 23:22
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	Q, X, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	Q, U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	X, U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	Q, U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	Q, X, U
123-91-1	1,4-Dioxane		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

55GW03-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-04	File ID:	0817304.D
Sampled:	08/15/11 10:50	Prepared:	08/17/11 10:15	Analyzed:	09/06/11 23:22
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	Q, X, U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	Q, U
106-44-5	4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.18	2.36	4.72	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.18	2.36	4.72	Q, U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	Q, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	22.60	47.9	50 - 110	*
2-Fluorophenol	94.34	21.80	23.1	20 - 110	
Nitrobenzene-d5	47.17	30.13	63.9	40 - 110	
Phenol-d6	94.34	15.94	16.9	0 - 110	
Terphenyl-d14	47.17	36.77	78.0	50 - 135	
2,4,6-Tribromophenol	94.34	59.74	63.3	40 - 125	

ANALYSIS DATA SHEET

55GW03-0008-08152011D

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-05	File ID:	0817305.D
Sampled:	08/15/11 10:50	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 00:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	X, U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Q, X, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	Q, U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	X, U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	Q, U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	X, U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	Q, X, U
123-91-1	1,4-Dioxane		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

55GW03-0008-08152011D

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-05	File ID:	0817305.D
Sampled:	08/15/11 10:50	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 00:03
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1H16013	Sequence:	1I25004	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Q, X, U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	Q, U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	Q, U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	Q, U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	17.51	37.8	50 - 110	*
2-Fluorophenol	92.59	23.26	25.1	20 - 110	
Nitrobenzene-d5	46.30	27.72	59.9	40 - 110	
Phenol-d6	92.59	16.89	18.2	0 - 110	
Terphenyl-d14	46.30	47.53	103	50 - 135	
2,4,6-Tribromophenol	92.59	76.15	82.2	40 - 125	

ANALYSIS DATA SHEET

55GW04-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-02	File ID:	0817302.D
Sampled:	08/15/11 08:50	Prepared:	08/17/11 10:15	Analyzed:	09/06/11 22:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	Q, X, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	Q, U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	X, U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	Q, U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	Q, X, U
123-91-1	1,4-Dioxane		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

55GW04-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-02	File ID:	0817302.D
Sampled:	08/15/11 08:50	Prepared:	08/17/11 10:15	Analyzed:	09/06/11 22:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	Q, X, U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	Q, U
106-44-5	4-Methylphenol		1.18	2.36	4.72	U
91-20-3	Naphthalene		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.18	2.36	4.72	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.18	2.36	4.72	Q, U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	Q, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	22.27	47.2	50 - 110	*
2-Fluorophenol	94.34	20.20	21.4	20 - 110	
Nitrobenzene-d5	47.17	30.88	65.5	40 - 110	
Phenol-d6	94.34	17.56	18.6	0 - 110	
Terphenyl-d14	47.17	33.70	71.5	50 - 135	
2,4,6-Tribromophenol	94.34	54.81	58.1	40 - 125	

ANALYSIS DATA SHEET

55GW07-0009-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-03	File ID:	0817303.D
Sampled:	08/15/11 09:50	Prepared:	08/17/11 10:15	Analyzed:	09/06/11 22:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	X, U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Q, X, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	Q, U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	X, U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	Q, U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	X, U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	Q, X, U
123-91-1	1,4-Dioxane		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

55GW07-0009-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-03	File ID:	0817303.D
Sampled:	08/15/11 09:50	Prepared:	08/17/11 10:15	Analyzed:	09/06/11 22:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Q, X, U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	Q, U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	Q, U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	Q, U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	20.76	44.8	50 - 110	*
2-Fluorophenol	92.59	18.93	20.4	20 - 110	
Nitrobenzene-d5	46.30	28.72	62.0	40 - 110	
Phenol-d6	92.59	17.65	19.1	0 - 110	
Terphenyl-d14	46.30	36.58	79.0	50 - 135	
2,4,6-Tribromophenol	92.59	34.07	36.8	40 - 125	*

ANALYSIS DATA SHEET

55GW09-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-06	File ID:	0817306.D
Sampled:	08/15/11 11:50	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 00:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	Q, U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	X, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	Q, U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, X, U
123-91-1	1,4-Dioxane		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

55GW09-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-06	File ID:	0817306.D
Sampled:	08/15/11 11:50	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 00:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	X, Q, U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, U
106-44-5	4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.20	2.40	4.81	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.20	2.40	4.81	Q, U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	Q, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	22.48	46.8	50 - 110	*
2-Fluorophenol	96.15	23.59	24.5	20 - 110	
Nitrobenzene-d5	48.08	31.61	65.7	40 - 110	
Phenol-d6	96.15	15.07	15.7	0 - 110	
Terphenyl-d14	48.08	51.23	107	50 - 135	
2,4,6-Tribromophenol	96.15	76.41	79.5	40 - 125	

ANALYSIS DATA SHEET

55GW03-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-04	File ID:	045F4501.D
Sampled:	08/15/11 10:50	Prepared:	08/18/11 13:05	Analyzed:	08/23/11 05:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17013 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.113	0.236	0.472	U
11104-28-2	Aroclor-1221		0.113	0.236	0.472	U
11141-16-5	Aroclor-1232		0.113	0.236	0.472	U
53469-21-9	Aroclor-1242		0.113	0.236	0.472	U
12672-29-6	Aroclor-1248		0.113	0.236	0.472	U
11097-69-1	Aroclor-1254		0.113	0.236	0.472	UX
11096-82-5	Aroclor-1260		0.113	0.236	0.472	U
37324-23-5	Aroclor-1262		0.113	0.236	0.472	U
11100-14-4	Aroclor-1268		0.113	0.236	0.472	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4717	0.3238	68.6	25 - 140	
Tetrachloro-m-xylene [2C]	0.4717	0.3837	81.3	25 - 140	X
Decachlorobiphenyl	0.4717	0.09016	19.1	40 - 135	*
Decachlorobiphenyl [2C]	0.4717	0.09128	19.4	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW04-0008-08152011

Laboratory:	Empirical Laboratories, LLC			SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)			Project:	NAS Jacksonville CTOJM19
Matrix:	Water	Laboratory ID:	1108173-02	File ID:	043F4301.D
Sampled:	08/15/11 08:50	Prepared:	08/18/11 13:05	Analyzed:	08/23/11 05:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17013 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.113	0.236	0.472	U
11104-28-2	Aroclor-1221		0.113	0.236	0.472	U
11141-16-5	Aroclor-1232		0.113	0.236	0.472	U
53469-21-9	Aroclor-1242		0.113	0.236	0.472	U
12672-29-6	Aroclor-1248		0.113	0.236	0.472	U
11097-69-1	Aroclor-1254		0.113	0.236	0.472	UX
11096-82-5	Aroclor-1260		0.113	0.236	0.472	U
37324-23-5	Aroclor-1262		0.113	0.236	0.472	U
11100-14-4	Aroclor-1268		0.113	0.236	0.472	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4717	0.2918	61.9	25 - 140	
Tetrachloro-m-xylene [2C]	0.4717	0.3453	73.2	25 - 140	X
Decachlorobiphenyl	0.4717	0.1467	31.1	40 - 135	*
Decachlorobiphenyl [2C]	0.4717	0.1472	31.2	40 - 135	*X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW07-0009-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-03	File ID:	044F4401.D
Sampled:	08/15/11 09:50	Prepared:	08/18/11 13:05	Analyzed:	08/23/11 05:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17013 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.115	0.240	0.481	U
11104-28-2	Aroclor-1221		0.115	0.240	0.481	U
11141-16-5	Aroclor-1232		0.115	0.240	0.481	U
53469-21-9	Aroclor-1242		0.115	0.240	0.481	U
12672-29-6	Aroclor-1248		0.115	0.240	0.481	U
11097-69-1	Aroclor-1254		0.115	0.240	0.481	UX
11096-82-5	Aroclor-1260		0.115	0.240	0.481	U
37324-23-5	Aroclor-1262		0.115	0.240	0.481	U
11100-14-4	Aroclor-1268		0.115	0.240	0.481	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4808	0.3759	78.2	25 - 140	
Tetrachloro-m-xylene [2C]	0.4808	0.4582	95.3	25 - 140	X
Decachlorobiphenyl	0.4808	0.2561	53.3	40 - 135	
Decachlorobiphenyl [2C]	0.4808	0.2919	60.7	40 - 135	X

* Values outside of QC limits

ANALYSIS DATA SHEET

55GW09-0008-08152011

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:	Water	Laboratory ID:	1108173-06	File ID:	007F0701.D
Sampled:	08/15/11 11:50	Prepared:	08/18/11 13:05	Analyzed:	09/09/11 11:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17013 Sequence: 1I26002 Calibration: 1250001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.118	0.245	0.490	UX
11104-28-2	Aroclor-1221		0.118	0.245	0.490	U
11141-16-5	Aroclor-1232		0.118	0.245	0.490	U
53469-21-9	Aroclor-1242		0.118	0.245	0.490	U
12672-29-6	Aroclor-1248		0.118	0.245	0.490	U
11097-69-1	Aroclor-1254		0.118	0.245	0.490	U
11096-82-5	Aroclor-1260		0.118	0.245	0.490	U
37324-23-5	Aroclor-1262		0.118	0.245	0.490	U
11100-14-4	Aroclor-1268		0.118	0.245	0.490	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4902	0.4099	83.6	25 - 140	X
Tetrachloro-m-xylene [2C]	0.4902	0.4165	85.0	25 - 140	
Decachlorobiphenyl	0.4902	0.1965	40.1	40 - 135	
Decachlorobiphenyl [2C]	0.4902	0.2038	41.6	40 - 135	

* Values outside of QC limits

Appendix C

Support Documentation

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	OS	UG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS03-0X02	1108171-32	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS04-000X	1108171-22	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS04-000XD	1108171-23	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	OS	UG/KG	55SS03-000XD	1108171-31	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108173	OS	UG/L	55GW03-0008-08152011D	1108173-05	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW09-0008-08152011	1108173-06	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW07-0009-08152011	1108173-03	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW04-0008-08152011	1108173-02	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW03-0008-08152011D	1108173-05	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	OS	UG/L	55GW03-0008-08152011	1108173-04	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	OS	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108171	OV	UG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	OV	UG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/20/2011	08/20/2011	8	0	8
1108171	OV	UG/L	TRIP BLANK #0150	1108171-37	NM	08/12/2011	08/18/2011	08/18/2011	6	0	6
1108173	OV	UG/L	55GW03-0008-08152011D	1108173-05	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	TB-01	1108173-07	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108173	OV	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/18/2011	08/18/2011	3	0	3
1108171	PCB	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS06-0X02	1108171-12	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	PCB	UG/KG	55SB06-0204	1108171-13	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SB01-0204	1108171-03	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/19/2011	08/23/2011	7	4	11
1108171	PCB	UG/KG	55SS03-000X	1108171-30	NM	08/12/2011	08/19/2011	08/22/2011	7	3	10
1108171	PCB	UG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108171	PCB	UG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/25/2011	08/26/2011	14	1	15
1108173	PCB	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/18/2011	08/23/2011	3	5	8
1108173	PCB	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/18/2011	08/23/2011	3	5	8
1108173	PCB	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/18/2011	09/09/2011	3	22	25
1108173	PCB	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/18/2011	08/23/2011	3	5	8

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	PAH	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SB04-0204	1108171-25	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SB03-0204	1108171-33	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS03-000X	1108171-30	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-000XD	1108171-23	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS09-0X02	1108171-35	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS09-000X	1108171-34	SUR	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS09-000X	1108171-34	NM	08/12/2011	08/24/2011	09/02/2011	12	9	21
1108171	PAH	UG/KG	55SS07-0X02	1108171-28	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS07-0X02	1108171-28	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS07-000X	1108171-27	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS07-000X	1108171-27	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	PAH	UG/KG	55SS04-0X02D	1108171-24	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	PAH	UG/KG	55SS04-0X02D	1108171-24	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108173	PAH	UG/L	55GW09-0008-08152011	1108173-06	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	PAH	UG/L	55GW03-0008-08152011	1108173-04	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW03-0008-08152011D	1108173-05	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108173	PAH	UG/L	55GW03-0008-08152011D	1108173-05	SUR	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	PAH	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW04-0008-08152011	1108173-02	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW07-0009-08152011	1108173-03	SUR	08/15/2011	08/17/2011	09/06/2011	2	20	22
1108173	PAH	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/17/2011	09/07/2011	2	21	23
1108173	PAH	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/17/2011	09/06/2011	2	20	22

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 2282 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02686	NAS JAX - SITE 53	ALAN PATE	904-636-6125	EMPIRICAL LABORATORIES LLC / B. RICHARD
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		ZACH SCRIBNER	904636-6125	621 MAINSTREAM DRIVE, SUITE 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8660 1730 1201		NASHVILLE, TN 37228

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

	DATE YEAR 2011	TIME	SAMPLE ID 1108173	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOC (8260)	TOT METALS (6010)	SVOC's (8270)	PCB's (8082)	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)										G	P	G	G	
PRESERVATIVE USED										HCl	HNO3	/	/	
-01	8/15	0800	55-FB-08152011				QC	G	01	0	1	0	0	* THE DATES ON THE
-02		0850	55GW04-0008-08152011				GW		8	3	1	2	2	CHAIN WILL NOT MATCH
-03		0950	55GW07-0009-08152011						8	3	1	2	2	THE DATES + SAMPLE I.D.'s
-04		1050	55GW03-0008-08152011						8	3	1	2	2	ON BOTTLE WARE DUE
-05		1050	55GW03-0008-08152011 D						5	3	0	2	0	TO AN ERROR W/MY WATCH
-06		1150	55GW09-0008-08152011						8	3	1	2	2	* PLEASE USE DATES & SAMPLE I.D.'s FROM C.O.C.
-07	8/15	1200	TB-01				QC	-	2	2	-	-	-	→ TRIP BLANK
														- Cool to 4°C

1. RELINQUISHED BY	DATE 08/15/2011	TIME 1530	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY Reginald Talley 0.4°C	DATE 8.16.11	TIME 0830

COMMENTS

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

4/02R
FORM NO. TtNUS-001

10

1108173 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108173 Number of Coolers: 1 of 2

Client: TETRA TECH Project: NAS JAX

Date/Time Received: 8/16/11 0830 Date cooler(s) opened: 8/16/11

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 1201

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 8/15/11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	Yes	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	Yes	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	Yes	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	Yes	No	N/A
7. Was project identifiable from custody papers?	Yes	No	N/A
8. If required, was enough ice present in the cooler(s)?	Yes	No	N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: -1.0 °C Correction Factor: +1.4 °C Final Value: 0.4 °C

Dates samples were logged-in: 8.16.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT

10. Were all bottle lids intact and sealed tightly?	Yes	No	N/A	
11. Did all bottles arrive unbroken?	Yes	No	N/A	Received 1 broken
12. Was all required bottle label information complete?	Yes	No	N/A	amber ID is
13. Did all bottle labels agree with custody papers?	Yes	No	N/A	55GW03-0008
14. Were correct containers used for the analyses indicated?	Yes	No	N/A	08152011
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A	
16. Was residual chlorine present in any applicable sample containers?	Yes	No	N/A	
17. Was sufficient amount of sample sent for the analyses required?	Yes	No	N/A	
18. Was headspace present in any included VOA vials?	Yes	No	N/A	

If Non-Conformance issues were present, list by sample ID: _____

Ph for metals were <2

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108173 Number of Coolers: 2 of 2

Client: TETRA TECH Project: NAS JAX

Date/Time Received: 8/16/11 0830 Date cooler(s) opened: 8/16/11

Opened By (print): BEN WRIGHT (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 4363

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 2 Seal date: 8/15/11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A

7. Was project identifiable from custody papers? ..... Yes No N/A

8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.8 °C Correction Factor: +1.4 °C Final Value: 4.2 °C

Dates samples were logged-in: 8.16.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Tabley (Initial): RT

10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A

11. Did all bottles arrive unbroken? ..... Yes No N/A

12. Was all required bottle label information complete? ..... Yes No N/A

13. Did all bottle labels agree with custody papers? ..... Yes No N/A

14. Were correct containers used for the analyses indicated? ..... Yes No N/A

15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A

17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A

18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

See pg 1

WORK ORDER

1108173

Printed: 9/20/2011 2:08:04PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19

Project Manager: Brian Richard
Project Number: NAS Jacksonville CTOJM19

Report To:
Tetra Tech NUS, Inc. (T010)
Tobrena Sedlmyer
Foster Plaza 7, 661 Anderson Drive
Pittsburgh, PA 15220
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone :(412) 921-8182
Fax: (412) 921-4040

Date Due: 09/01/2011 16:00 (12 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 08/16/2011 08:30
Date Logged In 08/16/2011 10:07

Samples Received at: **0.4°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments
1108173-01 55-FB-08152011 [Water] Sampled 08/15/2011 08:00 Central					
SW6010C	09/01/2011 14:00	15	02/11/2012 08:00		MS/Dup
SW7470A	09/01/2011 14:00	15	09/12/2011 08:00		MS/Dup
1108173-02 55GW04-0008-08152011 [Water] Sampled 08/15/2011 08:50 Central					
SW7470A	09/01/2011 14:00	15	09/12/2011 08:50		MS/Dup
SW6010C	09/01/2011 14:00	15	02/11/2012 08:50		MS/Dup
SW8082A	09/01/2011 14:00	15	08/22/2011 08:50		Includes 1262 and 1268
SW8270C	09/01/2011 14:00	15	08/22/2011 08:50		+1,4-dioxane
SW8260B	09/01/2011 14:00	15	08/29/2011 08:50		

WORK ORDER

1108173

Printed: 9/20/2011 2:08:04PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19

Project Manager: Brian Richard
Project Number: NAS Jacksonville CTOJM19

Analysis	Due	TAT	Expires	Version	Comments
1108173-03 55GW07-0009-08152011 [Water] Sampled 08/15/2011 09:50 Central					
SW8260B	09/01/2011 14:00	15	08/29/2011 09:50		
SW7470A	09/01/2011 14:00	15	09/12/2011 09:50		MS/Dup
SW6010C	09/01/2011 14:00	15	02/11/2012 09:50		MS/Dup
SW8270C	09/01/2011 14:00	15	08/22/2011 09:50		+1,4-dioxane
SW8082A	09/01/2011 14:00	15	08/22/2011 09:50		Includes 1262 and 1268
1108173-04 55GW03-0008-08152011 [Water] Sampled 08/15/2011 10:50 Central					
SW7470A	09/01/2011 14:00	15	09/12/2011 10:50		MS/Dup
SW6010C	09/01/2011 14:00	15	02/11/2012 10:50		MS/Dup
SW8082A	09/01/2011 14:00	15	08/22/2011 10:50		Includes 1262 and 1268
SW8270C	09/01/2011 14:00	15	08/22/2011 10:50		+1,4-dioxane
SW8260B	09/01/2011 14:00	15	08/29/2011 10:50		
1108173-05 55GW03-0008-08152011D [Water] Sampled 08/15/2011 10:50 Central					
SW8270C	09/01/2011 14:00	15	08/22/2011 10:50		+1,4-dioxane
SW8260B	09/01/2011 14:00	15	08/29/2011 10:50		
1108173-06 55GW09-0008-08152011 [Water] Sampled 08/15/2011 11:50 Central					
SW8270C	09/01/2011 14:00	15	08/22/2011 11:50		+1,4-dioxane
SW7470A	09/01/2011 14:00	15	09/12/2011 11:50		MS/Dup
SW6010C	09/01/2011 14:00	15	02/11/2012 11:50		MS/Dup
SW8260B	09/01/2011 14:00	15	08/29/2011 11:50		
SW8082A	09/01/2011 14:00	15	08/22/2011 11:50		Includes 1262 and 1268

WORK ORDER

1108173

Printed: 9/20/2011 2:08:04PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19

Project Manager: Brian Richard
Project Number: NAS Jacksonville CTOJM19

Analysis	Due	TAT	Expires	Version	Comments
1108173-07 TB-01 [Water] Sampled 08/15/2011 12:00 Central					
SW8260B	09/01/2011 14:00	15	08/29/2011 12:00		

Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: NAS Jacksonville CTOJM19
SDG #: 1108173
MATRIX: Water

QC LEVEL: Level IV
Report Due: 9/1/2011 - 9/1/2011
Client Sample Count: 7

Sample Type	Sampled	Received	Lab ID	Client ID	SW6010C	SW7470A	SW8082A	SW8260B	SW8270C
Client Sample	8/15/2011	8/16/2011	1108173-01	55-FB-08152011	X	X			
Client Sample	8/15/2011	8/16/2011	1108173-02	55GW04-0008-08152011	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108173-03	55GW07-0009-08152011	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108173-04	55GW03-0008-08152011	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108173-05	55GW03-0008-08152011D				X	X
Client Sample	8/15/2011	8/16/2011	1108173-06	55GW09-0008-08152011	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108173-07	TB-01				X	

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The continuing calibration verification 1H23101-CCV1 exceeded criteria with a positive bias for Dichlorodifluoromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in 108173-02, -03, -04, -05, -06 1H16013-BLK1, and -BSD1. The surrogate 2,4,6-Tribromophenol

exceeded criteria with a negative bias in sample 1108173-03.

The batch spikes associated to batch 1H16013 exceeded criteria with a negative bias for Caprolactam, 2-Methylphenol, 2,3,4,6-Tetrchlorophenol, 4-Chloro-3-methylphenol, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol and with a positive bias for Butylbenzylphthalate, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verification 1I25004-CCV1 exceeded criteria with a positive bias Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogate Decachlorobiphenyl exceeded criteria with a negative bias in 1108173-02, -04, and 1H17013-BS1.

The continuing calibration verifications exceeded criteria in 1I25601-CCV1 with a negative bias on column 2 for Aroclor-1016 and -1260, in 1I25601-CCV3 and –CCV5 with a positive bias on column 1 for Aroclor-1016 and on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl, in 1I25601-CCV4 with a positive bias on both columns for Aroclor-1254, in 1I25601-CCV6 with a positive bias on column 1 for Aroclor-1254, in 1I26002-CCV1 with a positive bias on column 1 for Tetrachloro-m-xylene and Aroclor-1016, and in 1I26002-CCV2 with a positive bias on column 1 for Tetrachloro-m-xylene and Aroclor-1016 and with a positive bias on column 2 for Aroclor-106..

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7470A:
The continuing calibration verification 1H23613-CCV2 exceeded criteria with a positive bias for Arsenic.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

***:** An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is "V".**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is "L".**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And **"RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Data for SW8260B Forms

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55GW04-0008-08152011	08/15/11 08:50	08/16/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 16:12	3.31	14.00	
55GW07-0009-08152011	08/15/11 09:50	08/16/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 16:40	3.28	14.00	
55GW03-0008-08152011	08/15/11 10:50	08/16/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 17:08	3.26	14.00	
55GW03-0008-08152011D	08/15/11 10:50	08/16/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 17:37	3.28	14.00	
55GW09-0008-08152011	08/15/11 11:50	08/16/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 18:05	3.26	14.00	
TB-01	08/15/11 12:00	08/16/11 08:30	08/18/11 08:27	N/A	14.00	08/18/11 13:51	3.08	14.00	

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22902	Instrument:	MS-VOA4
Calibration:	1229002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H22902-TUN1	0816TU1.D	08/16/11 09:01
Cal Standard	1H22902-CAL1	SEQ-CAL1.D	08/16/11 10:01
Cal Standard	1H22902-CAL2	SEQ-CAL2.D	08/16/11 10:30
Cal Standard	1H22902-CAL3	SEQ-CAL3.D	08/16/11 10:58
Cal Standard	1H22902-CAL4	SEQ-CAL4.D	08/16/11 11:26
Cal Standard	1H22902-CAL5	SEQ-CAL5.D	08/16/11 11:55
Cal Standard	1H22902-CAL6	SEQ-CAL6.D	08/16/11 12:23
Cal Standard	1H22902-CAL7	SEQ-CAL7.D	08/16/11 12:51
Cal Standard	1H22902-CAL8	SEQ-CAL8.D	08/16/11 13:19
Cal Standard	1H22902-CAL9	SEQ-CAL9.D	08/16/11 13:47
Initial Cal Check	1H22902-ICV1	SEQ-ICV1.D	08/16/11 14:44
Initial Cal Check	1H22902-ICV2	SEQ-ICV2.D	08/16/11 15:12

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0816TU1.D	Injection Date:	08/16/11
Instrument ID:	MS-VOA4	Injection Time:	09:01
Sequence:	1H22902	Lab Sample ID:	1H22902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.7	PASS
75	30 - 60% of 95	35.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.32	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	70.1	PASS
175	5 - 9% of 174	7.97	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.08	PASS

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Calibration:	1229002		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	8/16/11 10:01	8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.0575418	16.28374	3.87425	0.1918265	0.9996122		0.995	
~~Acrolein~~	~~1.541055E-02~~	16.24328	3.753286	0.1069534	0.9960182		0.995	
~~Acrylonitrile~~	~~3.374145E-02~~	11.82527	4.710889	8.835449E-02			15	
Benzene	0.5617921	7.379864	7.751667	3.934664E-02			15	
Bromobenzene	0.6787183	8.810238	12.48678	3.353733E-02			15	
Bromochloromethane	0.1100621	8.019581	6.848778	8.645393E-02			15	
Tert-Amyl Methyl Ether	0.4197561	6.13736	7.937556	3.929182E-02			15	
Bromodichloromethane	0.2747333	9.064225	8.732222	4.418058E-02			15	
Bromoform	0.5489907	13.16844	11.89322	2.492106E-02			SPCC (0.1)	
Bromomethane	0.1624106	9.520168	2.906222	0.1937131			15	
Bromofluorobenzene	1.084841	7.674439	12.32178	2.864882E-02			15	
n-Butylbenzene	1.091296	7.28562	13.91322	2.356767E-02			15	
2-Butanone	6.628659E-02	10.08256	6.302445	0.1092186			15	
sec-Butylbenzene	1.745914	5.052661	13.37333	2.588647E-02			15	
tert-Butylbenzene	1.239993	4.143962	13.13833	2.250046E-02			15	
Carbon disulfide	0.3963281	10.37905	4.888	5.941968E-02			15	
Carbon tetrachloride	0.1967035	8.91945	7.722222	4.253408E-02			15	
Chlorobenzene	1.789098	4.683489	11.16522	2.730701E-02			SPCC (0.3)	
Chloroethane	6.618182E-02	16.62614	3.043889	0.1796245	0.9985108		0.995	
Chloroform	0.3657383	7.177747	6.823778	5.637438E-02			CCC (20)	
2-Chloroethyl vinyl ether	7.199432E-02	13.67585	9.086333	4.628896E-02			15	
Chloromethane	0.1379611	7.881192	2.310556	0.563011			SPCC (0.1)	
1-Chlorohexane	0.6742091	9.287101	11.13033	3.437828E-02			15	
2-Chlorotoluene	1.416661	6.429502	12.70544	2.546658E-02			15	
4-Chlorotoluene	1.670036	4.396709	12.76789	2.816444E-02			15	
Cyclohexane	0.1089893	7.590067	7.654333	0.070096			15	
Dibromochloromethane	0.5962943	11.98739	10.399	2.737902E-02			15	
1,2-Dibromo-3-chloropropane	0.130454	9.693276	14.51789	2.435829E-02			15	
1,2-Dibromoethane (EDB)	0.7842657	6.720684	10.61444	2.895825E-02			15	
Dibromomethane	0.1670466	6.006732	8.667778	0.033882			15	
1,2-Dichlorobenzene	0.9132796	6.385101	13.87611	0.0213825			15	
1,3-Dichlorobenzene	0.933043	5.892607	13.46289	2.782759E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	0.9629043	6.089999	13.55589	2.527918E-02			15	
Dichlorodifluoromethane	0.1987127	9.670187	2.086333	0.1556681			15	
1,1-Dichloroethane	0.2268701	12.8994	5.867333	6.373268E-02			SPCC (0.1)	
1,2-Dichloroethane	0.267094	8.004438	7.579	4.916251E-02			15	
1,1-Dichloroethene	0.1984207	6.970958	4.357667	0.1067224			CCC (20)	
cis-1,2-Dichloroethene	0.2557099	7.991322	6.574556	9.663746E-02			15	
trans-1,2-Dichloroethene	0.2297347	7.115709	5.497889	5.579666E-02			15	
1,2-Dichloroethene (total)	0.2427223	7.394184	0	0			15	
1,2-Dichloropropane	0.1055341	7.77866	8.554	3.834985E-02			CCC (20)	
1,3-Dichloropropane	0.702035	10.03236	10.13889	4.188439E-02			15	
2,2-Dichloropropane	0.2311142	6.341311	6.678333	4.411985E-02			15	
1,1-Dichloropropene	0.1957866	7.70324	7.599778	4.556141E-02			15	
cis-1,3-Dichloropropene	0.2482491	6.668519	9.300666	3.663101E-02			15	
trans-1,3-Dichloropropene	0.8209591	6.982319	9.773778	0.0402609			15	
Diisopropyl Ether	0.4547504	10.59161	6.232333	0.0560336			15	
Ethylbenzene	2.499288	5.336849	11.31289	2.764937E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.4537613	9.160568	6.693667	7.053838E-02			15	
Ethyl Methacrylate	0.4702449	10.45766	9.958556	4.578157E-02			15	
Hexachlorobutadiene	0.1319488	9.075327	15.87967	1.575122E-02			15	
2-Hexanone	0.2701311	10.39731	10.07222	2.635162E-02			15	
Iodomethane	0.2456327	24.97849	4.548	0.1111788	0.9978509		0.995	
Isopropylbenzene	2.094953	4.044991	12.21256	3.350027E-02			15	
p-Isopropyltoluene	1.243997	4.758068	13.511	2.693563E-02			15	
Methylene chloride	0.2168724	8.428011	4.8335	0.1010171			15	
Methyl Acetate	0.1035201	11.29133	4.699889	0.2067483			15	
Methylcyclohexane	0.1499832	9.202679	8.883111	3.057022E-02			15	
Naphthalene	0.9149282	7.60523	15.75289	1.969426E-02			15	
Methyl Methacrylate	0.1448001	8.412517	8.682889	4.802117E-02			15	
4-Methyl-2-pentanone	0.1267146	8.123145	9.221778	3.968653E-02			15	
Methyl t-Butyl Ether	0.4253933	9.427374	5.487	6.647796E-02			15	
n-Propylbenzene	2.070466	5.075536	12.62011	2.411476E-02			15	
Styrene	1.924134	6.123119	11.78633	0.0361033			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.4765921	7.244244	12.13478	3.381826E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4637096	8.415579	11.20789	0.0394568			15	
~~tert-Butyl alcohol~~	~~1.397231E-03~~	13.17544	4.493333	0.1672152			15	
Tetrachloroethene	0.6566482	4.85799	10.51289	0.0391751			15	
Toluene	1.437624	6.229328	9.778222	3.393386E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.423201	7.91311	16.04033	1.353914E-02			15	
1,2,4-Trichlorobenzene	0.5127504	6.071195	15.59778	2.461357E-02			15	
1,1,2-Trichloroethane	0.4387015	7.861565	9.929111	4.611406E-02			15	
1,1,1-Trichloroethane	0.262971	11.74316	7.383444	5.639212E-02			15	
~~Tetrahydrofuran~~	~~3.135825E-02~~	12.94675	7.028375	5.329981E-02			15	
Trichloroethene	0.2353264	8.611764	8.508111	4.484945E-02			15	
Trichlorofluoromethane	0.2780621	10.99483	3.558778	9.994573E-02			15	
1,2,3-Trichloropropane	0.189917	14.04118	12.26167	3.097179E-02			15	
1,3,5-Trimethylbenzene	1.551444	6.003742	12.79833	2.713179E-02			15	
1,2,4-Trimethylbenzene	1.601946	3.60541	13.16889	3.201066E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1943975	9.569462	4.434222	0.1523799			15	
Vinyl chloride	0.1376198	8.262594	2.454778	0.1575583			CCC (20)	
m,p-Xylene	1.916489	5.358445	11.42556	2.946135E-02			15	
o-Xylene	2.016979	5.185108	11.81678	4.590072E-02			15	
Vinyl acetate	0.2879363	11.53617	5.937333	7.379793E-02			15	
Xylenes (total)	1.949986	4.873858	0	0			15	
Dibromofluoromethane	0.3026546	4.869217	6.994222	4.414058E-02			15	
1,2-Dichloroethane-d4	6.424239E-02	5.178117	7.487333	5.902665E-02			15	
Toluene-d8	2.688003	5.344191	9.702889	3.424184E-02			15	
~~tert-Amyl alcohol~~	~~8.123476E-03~~	11.22889	7.185875	7.092554E-02			15	
tert-Amyl ethyl ether	0.3262617	13.46127	8.818667	4.124662E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 . 8/16/11 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~9.608746E-02~~	2	6.882202E-02	4	0.0722643	10	6.116451E-02	20	0.0438023	100	5.181043E-02
Acrolein	2.502	~~1.087745E-02~~	5.005	1.357731E-02	10.01	1.315283E-02	25.02	1.613414E-02	50.05	0.0123604	250.2	1.583195E-02
Acrylonitrile	2.498	2.966714E-02	4.997	3.177803E-02	9.994	3.042435E-02	24.98	3.887572E-02	49.97	2.823737E-02	249.8	3.349316E-02
Benzene	0.5	0.5023693	1	0.5669668	2	0.5550427	5	0.6354502	10	0.5043506	50	0.5670953
Bromobenzene	0.5	0.5396335	1	0.6686525	2	0.7223649	5	0.6851849	10	0.6368207	50	0.7151399
Bromochloromethane	0.5	9.651014E-02	1	0.1014158	2	0.1023602	5	0.1227067	10	0.1072906	50	0.1157515
Tert-Amyl Methyl Ether	0.5	0.3998009	1	0.3782749	2	0.4342346	5	0.460069	10	0.3883819	50	0.4278884
Bromodichloromethane	0.5	0.2292762	1	0.2651113	2	0.286993	5	0.309275	10	0.2433726	50	0.2878866
Bromoform	0.5	0.4144892	1	0.4583603	2	0.5570596	5	0.5878279	10	0.5123226	50	0.5756654
Bromomethane	0.5	0.1759725	1	0.1627811	2	0.1516766	5	0.1514963	10	0.13205	50	0.1624678
Bromofluorobenzene	30	1.146665	35	1.071011	40	1.033273	50	1.041432	60	0.998979	70	0.9569202
n-Butylbenzene	0.5	1.159274	1	0.9280348	2	1.127835	5	1.042272	10	1.013987	50	1.120337
2-Butanone	1	6.391742E-02	2	6.818891E-02	4	7.107297E-02	10	7.697429E-02	20	5.200463E-02	100	0.0645543
sec-Butylbenzene	0.5	1.718043	1	1.829458	2	1.867758	5	1.712685	10	1.573554	50	1.763296
tert-Butylbenzene	0.5	1.223101	1	1.25131	2	1.260354	5	1.268243	10	1.113242	50	1.277195
Carbon disulfide	0.5	0.3250349	1	0.3573821	2	0.385791	5	0.4468978	10	0.3609669	50	0.4205758
Carbon tetrachloride	0.5	0.1678948	1	0.1940148	2	0.2001555	5	0.226763	10	0.1745973	50	0.2034216
Chlorobenzene	0.5	1.768182	1	1.898554	2	1.889646	5	1.879923	10	1.696185	50	1.789633
Chloroethane	0.5	5.499434E-02	1	4.471673E-02	2	7.051269E-02	5	7.728815E-02	10	5.855933E-02	50	7.026741E-02
Chloroform	0.5	0.3895628	1	0.3819095	2	0.360195	5	0.4129057	10	0.325793	50	0.3591975
2-Chloroethyl vinyl ether	0.9975	5.233084E-02	1.995	6.436353E-02	3.99	6.969612E-02	9.975	0.0803163	19.95	6.515221E-02	99.75	7.698877E-02
Chloromethane	0.5	0.1538527	1	0.1363309	2	0.1424644	5	0.135213	10	0.1193517	50	0.1260203
1-Chlorohexane	0.5	0.782055	1	0.7612881	2	0.7036642	5	0.6778778	10	0.6079693	50	0.6394222
2-Chlorotoluene	0.5	1.319546	1	1.282431	2	1.529283	5	1.460642	10	1.303444	50	1.478958
4-Chlorotoluene	0.5	1.597197	1	1.593004	2	1.728111	5	1.677795	10	1.556042	50	1.703609
Cyclohexane	0.5	9.885832E-02	1	0.1055662	2	0.1064768	5	0.1193341	10	9.560834E-02	50	0.1114818
Dibromochloromethane	0.5	0.4378033	1	0.5487536	2	0.6262706	5	0.6483468	10	0.5488223	50	0.6460419
1,2-Dibromo-3-chloropropane	0.5	0.115966	1	0.1207995	2	0.1472326	5	0.1272414	10	0.1110756	50	0.1321869
1,2-Dibromoethane (EDB)	0.5	0.6702064	1	0.7917132	2	0.8228042	5	0.8174141	10	0.7205352	50	0.8059357
Dibromomethane	0.5	0.1586899	1	0.1522526	2	0.167388	5	0.1890259	10	0.1636608	50	0.1697493
1,2-Dichlorobenzene	0.5	0.8008459	1	0.9312103	2	0.9580416	5	0.9337666	10	0.8268845	50	0.9458828

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Calibration: 1229002

Instrument: MS-VOA4

Matrix: Water

Calibration Dates: 8/16/11 10:01 8/16/11 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	0.8389875	1	0.9032016	2	1.006563	5	0.9719623	10	0.8650764	50	0.9480622
1,4-Dichlorobenzene	0.5	0.8641584	1	0.9609974	2	1.058191	5	1.000758	10	0.9028049	50	0.9983199
Dichlorodifluoromethane	0.5	0.1705247	1	0.1632735	2	0.2014294	5	0.2038781	10	0.1962392	50	0.2137962
1,1-Dichloroethane	0.5	0.1660632	1	0.2069116	2	0.2192522	5	0.2621754	10	0.2120065	50	0.2403457
1,2-Dichloroethane	0.5	0.2416745	1	0.2598823	2	0.2754571	5	0.3036681	10	0.2321036	50	0.2731388
1,1-Dichloroethene	0.5	0.2003936	1	0.1899816	2	0.1988109	5	0.2242202	10	0.1735373	50	0.2039254
cis-1,2-Dichloroethene	0.5	0.2228421	1	0.2490021	2	0.2771085	5	0.2899915	10	0.2366851	50	0.2608832
trans-1,2-Dichloroethene	0.5	0.2190381	1	0.2155642	2	0.2451784	5	0.2614626	10	0.2084249	50	0.2340541
1,2-Dichloroethene (total)	1	0.2209401	2	0.2322831	4	0.2611435	10	0.275727	20	0.222555	100	0.2474686
1,2-Dichloropropane	0.5	9.697977E-02	1	9.295076E-02	2	0.1083876	5	0.110344	10	9.635652E-02	50	0.1115675
1,3-Dichloropropane	0.5	0.5391753	1	0.6660444	2	0.7291969	5	0.7134637	10	0.6708246	50	0.7397077
2,2-Dichloropropane	0.5	0.2241102	1	0.219527	2	0.2469124	5	0.2586326	10	0.2119303	50	0.2345411
1,1-Dichloropropene	0.5	0.1866332	1	0.1739427	2	0.1990704	5	0.2215817	10	0.1765301	50	0.1998635
cis-1,3-Dichloropropene	0.5	0.2265992	1	0.2312514	2	0.239151	5	0.2702878	10	0.2308058	50	0.2576411
trans-1,3-Dichloropropene	0.5	0.7678895	1	0.7212358	2	0.8212889	5	0.8414668	10	0.7613329	50	0.853628
Diisopropyl Ether	0.5	0.3628875	1	0.4199667	2	0.4566693	5	0.5156214	10	0.4121737	50	0.4711663
Ethylbenzene	0.5	2.271796	1	2.515653	2	2.642974	5	2.642631	10	2.295381	50	2.565577
Ethyl tert-Butyl Ether	0.5	0.3981102	1	0.4003871	2	0.4421139	5	0.5119615	10	0.4198057	50	0.464913
Ethyl Methacrylate	0.5	0.383207	1	0.4460874	2	0.4441324	5	0.491192	10	0.4306388	50	0.4693817
Hexachlorobutadiene	0.5	0.1074901	1	0.1362329	2	0.131996	5	0.1312314	10	0.1245116	50	0.1252685
2-Hexanone	1	0.2300422	2	0.2321198	4	0.2984938	10	0.2828588	20	0.2465738	100	0.2689491
Iodomethane	0.5	~~0.1306057~~	1	0.1598031	2	0.1789829	5	0.2212147	10	0.2059125	50	0.2826653
Isopropylbenzene	0.5	2.005602	1	2.131078	2	2.200622	5	2.219166	10	1.97865	50	2.095786
p-Isopropyltoluene	0.5	1.231833	1	1.164235	2	1.320614	5	1.244962	10	1.140358	50	1.275539
Methylene chloride	0.5	~~0.3073766~~	1	0.2245685	2	0.2389269	5	0.2416844	10	0.186873	50	0.2102223
Methyl Acetate	0.5	0.1213069	1	0.1034792	2	0.1094964	5	0.116919	10	8.304853E-02	50	9.275781E-02
Methylcyclohexane	0.5	0.1342688	1	0.156192	2	0.1444696	5	0.181887	10	0.136874	50	0.1466243
Naphthalene	0.5	0.7687401	1	0.8623635	2	0.9786404	5	0.9706581	10	0.8642249	50	0.9601697
Methyl Methacrylate	0.5	0.1705717	1	0.1373392	2	0.1440922	5	0.1518686	10	0.1274177	50	0.1388458
4-Methyl-2-pentanone	1	0.1184421	2	0.1184395	4	0.1320609	10	0.142195	20	0.1082547	100	0.1257689
Methyl t-Butyl Ether	0.5	0.3579094	1	0.3963773	2	0.4386224	5	0.4871989	10	0.3787733	50	0.4376361

INITIAL CALIBRATION DATA
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1229002
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 8/16/11 10:01 8/16/11 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	1.927501	1	1.983284	2	2.161569	5	2.092382	10	1.935005	50	2.19062
Styrene	0.5	1.654415	1	1.847331	2	2.015378	5	2.044211	10	1.911696	50	1.99924
1,1,2,2-Tetrachloroethane	0.5	0.4336845	1	0.4698605	2	0.4860342	5	0.4825335	10	0.4125407	50	0.4805776
1,1,1,2-Tetrachloroethane	0.5	0.4078491	1	0.4209536	2	0.5372472	5	0.477337	10	0.4313686	50	0.4761352
tert-Butyl alcohol	2.5	1.730138E-02	5	1.396606E-02	10	1.350805E-02	25	1.566084E-02	50	1.055218E-02	250	1.319551E-02
Tetrachloroethene	0.5	0.6489581	1	0.6370892	2	0.6886249	5	0.6982733	10	0.5913377	50	0.6614506
Toluene	0.5	1.32551	1	1.316803	2	1.568215	5	1.55226	10	1.37969	50	1.451419
1,2,3-Trichlorobenzene	0.5	0.3916902	1	0.3826587	2	0.4195294	5	0.4170662	10	0.3783183	50	0.4472712
1,2,4-Trichlorobenzene	0.5	0.5090688	1	0.4806575	2	0.5429262	5	0.5163388	10	0.4461808	50	0.5208503
1,1,2-Trichloroethane	0.5	0.362844	1	0.425363	2	0.4676573	5	0.4671393	10	0.4088909	50	0.4463467
1,1,1-Trichloroethane	0.5	0.2187093	1	0.2368322	2	0.2432794	5	0.3233825	10	0.2466609	50	0.271989
Tetrahydrofuran	0.5		1	3.071784E-02	2	0.039196	5	3.442831E-02	10	2.593477E-02	50	0.0291517
Trichloroethene	0.5	0.2350057	1	0.2123282	2	0.2310594	5	0.2830228	10	0.2154773	50	0.2382548
Trichlorofluoromethane	0.5	0.2203531	1	0.2646424	2	0.2756813	5	0.3345376	10	0.258835	50	0.2848112
1,2,3-Trichloropropane	0.5	0.1480002	1	0.1494062	2	0.203466	5	0.2056548	10	0.1715286	50	0.1975704
1,3,5-Trimethylbenzene	0.5	1.430761	1	1.433525	2	1.678052	5	1.57151	10	1.450232	50	1.62985
1,2,4-Trimethylbenzene	0.5	1.652034	1	1.550705	2	1.607787	5	1.619881	10	1.485005	50	1.598815
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1686462	1	0.1945072	2	0.2073861	5	0.2297313	10	0.1704037	50	0.1996916
Vinyl chloride	0.5	0.126332	1	0.1335874	2	0.1316245	5	0.146565	10	0.1163243	50	0.1437865
m,p-Xylene	1	1.771133	2	1.996957	4	2.054074	10	2.049856	20	1.859656	100	1.937616
o-Xylene	0.5	1.891983	1	1.933021	2	2.206646	5	2.10218	10	1.894379	50	2.001039
Vinyl acetate	0.996	0.231918	1.992	0.2573945	3.984	0.279157	9.96	0.3211054	19.92	0.254629	99.62	0.3003329
Xylenes (total)	1.5	1.811417	3	1.975645	6	2.104932	15	2.067297	30	1.87123	150	1.958757
Dibromofluoromethane	30	0.3146575	35	0.2973708	40	0.2898133	50	0.3240325	60	0.2771902	70	0.2913282
1,2-Dichloroethane-d4	30	6.643232E-02	35	6.572478E-02	40	6.125274E-02	50	7.106956E-02	60	5.979322E-02	70	6.398737E-02
Toluene-d8	30	2.765563	35	2.702269	40	2.573335	50	2.603073	60	2.498953	70	2.530118
tert-Amyl alcohol	2.5	~~6.81911E-03~~	5	7.527042E-03	10	8.273269E-03	25	8.603886E-03	50	6.160056E-03	250	8.241148E-03
tert-Amyl ethyl ether	0.5	0.2437409	1	0.2814317	2	0.3280645	5	0.3742376	10	0.2949558	50	0.3427573

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	5.323533E-02	300	5.431306E-02	400	5.492247E-02						
Acrolein	500.5	1.764482E-02	750.8	1.917083E-02	1001	~~0.0205442~~						
Acrylonitrile	499.7	3.549805E-02	749.6	3.676642E-02	999.4	3.893284E-02						
Benzene	100	0.5673893	150	0.5985981	200	0.5588667						
Bromobenzene	100	0.7235708	150	0.7215667	200	0.6955306						
Bromochloromethane	100	0.1147634	150	0.1191848	200	0.1105762						
Tert-Amyl Methyl Ether	100	0.4274765	150	0.4308573	200	0.4308213						
Bromodichloromethane	100	0.2824088	150	0.2898993	200	0.2783767						
Bromoform	100	0.616159	150	0.6051261	200	0.6139063						
Bromomethane	100	0.1679422	150	0.1813045	200	0.176004						
Bromofluorobenzene	30	1.15367	30	1.180036	30	1.181585						
n-Butylbenzene	100	1.139653	150	1.162492	200	1.127775						
2-Butanone	200	6.575063E-02	300	6.593555E-02	400	6.818059E-02						
sec-Butylbenzene	100	1.806706	150	1.76322	200	1.67851						
tert-Butylbenzene	100	1.251798	150	1.282898	200	1.231797						
Carbon disulfide	100	0.4131249	150	0.4343689	200	0.4228109						
Carbon tetrachloride	100	0.2005603	150	0.2090758	200	0.1938482						
Chlorobenzene	100	1.715557	150	1.781357	200	1.682842						
Chloroethane	100	6.980032E-02	150	7.646999E-02	200	7.302746E-02						
Chloroform	100	0.3508805	150	0.3690899	200	0.3421111						
2-Chloroethyl vinyl ether	199.5	7.810062E-02	299.2	7.941432E-02	399	8.158615E-02						
Chloromethane	100	0.1345248	150	0.1464054	200	0.1474866						
1-Chlorohexane	100	0.6314373	150	0.6442039	200	0.6199644						
2-Chlorotoluene	100	1.481786	150	1.474596	200	1.419266						
4-Chlorotoluene	100	1.741284	150	1.766225	200	1.667061						
Cyclohexane	100	0.109993	150	0.119214	200	0.1143707						
Dibromochloromethane	100	0.6487914	150	0.6327699	200	0.629049						
1,2-Dibromo-3-chloropropane	100	0.1412562	150	0.1348432	200	0.1434844						
1,2-Dibromoethane (EDB)	100	0.8161935	150	0.8090817	200	0.8045069						
Dibromomethane	100	0.1705048	150	0.166757	200	0.165391						
1,2-Dichlorobenzene	100	0.952458	150	0.9551338	200	0.9152926						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1229002
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 8/16/11 10:01 8/16/11 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	0.9753979	150	0.962012	200	0.9261243						
1,4-Dichlorobenzene	100	0.9875149	150	0.9716572	200	0.921737						
Dichlorodifluoromethane	100	0.2100623	150	0.2136436	200	0.215567						
1,1-Dichloroethane	100	0.2406747	150	0.2511623	200	0.2432393						
1,2-Dichloroethane	100	0.268776	150	0.2839346	200	0.2652109						
1,1-Dichloroethene	100	0.2018476	150	0.2043235	200	0.1887459						
cis-1,2-Dichloroethene	100	0.2510814	150	0.2660959	200	0.2476993						
trans-1,2-Dichloroethene	100	0.2292378	150	0.23414	200	0.2205124						
1,2-Dichloroethene (total)	200	0.2401596	300	0.250118	400	0.2341058						
1,2-Dichloropropane	100	0.1050068	150	0.1161596	200	0.1120544						
1,3-Dichloropropane	100	0.7317823	150	0.767556	200	0.7605644						
2,2-Dichloropropane	100	0.225784	150	0.2368235	200	0.2217666						
1,1-Dichloropropene	100	0.1984783	150	0.2094763	200	0.196503						
cis-1,3-Dichloropropene	100	0.2567484	150	0.2673041	200	0.2544533						
trans-1,3-Dichloropropene	100	0.8784327	150	0.8758038	200	0.8675532						
Diisopropyl Ether	100	0.4707039	150	0.4995941	200	0.4839708						
Ethylbenzene	100	2.509601	150	2.554282	200	2.495698						
Ethyl tert-Butyl Ether	100	0.4691857	150	0.5028106	200	0.4745638						
Ethyl Methacrylate	100	0.5127713	150	0.5185545	200	0.5362387						
Hexachlorobutadiene	100	0.1397259	150	0.1457799	200	0.1453033						
2-Hexanone	200	0.284846	300	0.2792712	400	0.3080248						
Iodomethane	100	0.3033333	150	0.3175253	200	0.2956244						
Isopropylbenzene	100	2.131782	150	2.07658	200	2.015307						
p-Isopropyltoluene	100	1.286699	150	1.289644	200	1.242092						
Methylene chloride	100	0.204772	150	0.2198753	200	0.2080568						
Methyl Acetate	100	9.989966E-02	150	0.1000612	200	0.1047118						
Methylcyclohexane	100	0.148005	150	0.1517784	200	0.1497499						
Naphthalene	100	0.9596411	150	0.9377382	200	0.932178						
Methyl Methacrylate	100	0.1403965	150	0.1410875	200	0.1515821						
4-Methyl-2-pentanone	200	0.12861	300	0.1311298	400	0.1355302						
Methyl t-Butyl Ether	100	0.4370644	150	0.4519662	200	0.4429915						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.196944	150	2.110365	200	2.036527						
Styrene	100	1.936441	150	1.98503	200	1.923468						
1,1,2,2-Tetrachloroethane	100	0.5033025	150	0.4961193	200	0.5246757						
1,1,1,2-Tetrachloroethane	100	0.4753203	150	0.481025	200	0.4661508						
tert-Butyl alcohol	500	1.399897E-02	750	1.324082E-02	1000	1.432698E-02						
Tetrachloroethene	100	0.6483709	150	0.6808135	200	0.654916						
Toluene	100	1.477228	150	1.462482	200	1.405011						
1,2,3-Trichlorobenzene	100	0.4465944	150	0.4632955	200	0.4623849						
1,2,4-Trichlorobenzene	100	0.5366077	150	0.5359994	200	0.5261245						
1,1,2-Trichloroethane	100	0.4533503	150	0.4592801	200	0.4574416						
1,1,1-Trichloroethane	100	0.2757104	150	0.2836386	200	0.2665365						
Tetrahydrofuran	100	3.063971E-02	150	2.846597E-02	200	3.233173E-02						
Trichloroethene	100	0.2369797	150	0.2377218	200	0.2280876						
Trichlorofluoromethane	100	0.2886601	150	0.2932385	200	0.2817997						
1,2,3-Trichloropropane	100	0.217964	150	0.2036916	200	0.211971						
1,3,5-Trimethylbenzene	100	1.609592	150	1.619311	200	1.540162						
1,2,4-Trimethylbenzene	100	1.659798	150	1.662856	200	1.580635						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1931837	150	0.1993048	200	0.1867228						
Vinyl chloride	100	0.1432115	150	0.1510223	200	0.1461247						
m,p-Xylene	200	1.878644	300	1.905734	400	1.794734						
o-Xylene	100	2.032096	150	2.092783	200	1.998682						
Vinyl acetate	199.2	0.3128624	298.9	0.3157169	398.5	0.3183108						
Xylenes (total)	300	1.929794	450	1.968084	600	1.862717						
Dibromofluoromethane	30	0.3113035	30	0.3112153	30	0.3069802						
1,2-Dichloroethane-d4	30	6.181426E-02	30	6.377257E-02	30	6.433466E-02						
Toluene-d8	30	2.828696	30	2.778903	30	2.911121						
tert-Amyl alcohol	500	8.74605E-03	750	8.363424E-03	1000	9.07293E-03						
tert-Amyl ethyl ether	100	0.3457525	150	0.3657093	200	0.3597054						

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV1	Injection Time:	14:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	L	100.0	98.71	0.0575418	5.316704E-02		-1.3	20
Benzene	A	50.00	53.96	0.5617921	0.6063276		7.9	20
Bromochloromethane	A	50.00	52.20	0.1100621	0.1149077		4.4	20
Bromodichloromethane	A	50.00	50.32	0.2747333	0.2764884		0.6	20
Bromoform	A	50.00	52.06	0.5489907	0.5716013	0.1	4.1	20
Bromomethane	A	50.00	48.26	0.1624106	0.1567505		-3.5	20
2-Butanone	A	100.0	103.4	6.628659E-02	6.851206E-02		3.4	20
Carbon disulfide	A	50.00	45.83	0.3963281	0.3632617		-8.3	20
Carbon tetrachloride	A	50.00	50.61	0.1967035	0.1990854		1.2	20
Chlorobenzene	A	50.00	47.19	1.789098	1.688522	0.3	-5.6	20
Chloroethane	L	50.00	50.58	6.618182E-02	7.347878E-02		1.2	20
Chloroform	A	50.00	49.32	0.3657383	0.3607433		-1.4	20
Chloromethane	A	50.00	42.73	0.1379611	0.1179008	0.1	-14.5	20
Cyclohexane	A	50.00	48.05	0.1089893	0.1047381		-3.9	20
Dibromochloromethane	A	50.00	50.52	0.5962943	0.6025268		1.0	20
1,2-Dibromo-3-chloropropane	A	50.00	50.87	0.130454	0.1327162		1.7	20
1,2-Dibromoethane (EDB)	A	50.00	50.74	0.7842657	0.7959137		1.5	20
1,2-Dichlorobenzene	A	50.00	52.89	0.9132796	0.9660562		5.8	20
1,3-Dichlorobenzene	A	50.00	51.66	0.933043	0.9640874		3.3	20
1,4-Dichlorobenzene	A	50.00	52.84	0.9629043	1.017672		5.7	20
1,1-Dichloroethane	A	50.00	56.55	0.2268701	0.256599	0.1	13.1	20
1,2-Dichloroethane	A	50.00	52.27	0.267094	0.279226		4.5	20
1,1-Dichloroethene	A	50.00	47.72	0.1984207	0.1893773		-4.6	20
cis-1,2-Dichloroethene	A	50.00	52.51	0.2557099	0.2685659		5.0	20
trans-1,2-Dichloroethene	A	50.00	49.52	0.2297347	0.2275228		-1.0	20
1,2-Dichloropropane	A	50.00	55.97	0.1055341	0.1181415		11.9	20
cis-1,3-Dichloropropene	A	50.00	54.69	0.2482491	0.271537		9.4	20
trans-1,3-Dichloropropene	A	50.00	46.24	0.8209591	0.7592461		-7.5	20
Ethylbenzene	A	50.00	50.56	2.499288	2.527363		1.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV1	Injection Time:	14:44

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Hexanone	A	100.0	103.7	0.2701311	0.2801868		3.7	20
Isopropylbenzene	A	50.00	47.55	2.094953	1.992431		-4.9	20
Methylene chloride	A	50.00	50.49	0.2168724	0.2189876		1.0	20
Methyl Acetate	A	50.00	51.71	0.1035201	0.1070689		3.4	20
Methylcyclohexane	A	50.00	48.42	0.1499832	0.1452471		-3.2	20
4-Methyl-2-pentanone	A	100.0	106.3	0.1267146	0.1347505		6.3	20
Methyl t-Butyl Ether	A	50.00	52.94	0.4253933	0.4504423		5.9	20
Styrene	A	50.00	50.75	1.924134	1.952997		1.5	20
1,1,2,2-Tetrachloroethane	A	50.00	54.02	0.4765921	0.514945	0.3	8.0	20
Tetrachloroethene	A	50.00	48.89	0.6566482	0.6421208		-2.2	20
Toluene	A	50.00	49.50	1.437624	1.4233		-1.0	20
1,2,3-Trichlorobenzene	A	50.00	52.69	0.423201	0.445949		5.4	20
1,2,4-Trichlorobenzene	A	50.00	51.79	0.5127504	0.531075		3.6	20
1,1,2-Trichloroethane	A	50.00	51.41	0.4387015	0.4510501		2.8	20
1,1,1-Trichloroethane	A	50.00	53.31	0.262971	0.2803799		6.6	20
Trichloroethene	A	50.00	50.30	0.2353264	0.2367572		0.6	20
Trichlorofluoromethane	A	50.00	49.28	0.2780621	0.2740406		-1.4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	50.00	43.98	0.1943975	0.1710057		-12.0	20
Vinyl chloride	A	50.00	49.86	0.1376198	0.1372388		-0.3	20
m,p-Xylene	A	100.0	101.5	1.916489	1.944543		1.5	20
o-Xylene	A	50.00	51.51	2.016979	2.077905		3.0	20
Bromofluorobenzene	A	30.00	32.13	1.084841	1.161882		7.1	20
Dibromofluoromethane	A	30.00	32.13	0.3026546	0.324095		7.1	20
1,2-Dichloroethane-d4	A	30.00	30.56	6.424239E-02	6.544706E-02		1.9	20
Toluene-d8	A	30.00	30.55	2.688003	2.73718		1.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV2.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV2	Injection Time:	15:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Dichlorodifluoromethane	A	100.0	84.42	0.1987127	0.1677522		-15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23101	Instrument:	MS-VOA4
Calibration:	1229002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23101-TUN1	0818TU1.D	08/18/11 06:39
Calibration Check	1H23101-CCV1	0818CCV1.D	08/18/11 08:01
LCS	1H18004-BS1	0818LS1.D	08/18/11 08:36
Blank	1H18004-BLK1	0818BLK1.D	08/18/11 10:33
TB-01	1108173-07	0817307.D	08/18/11 13:51
55GW04-0008-08152011	1108173-02	0817302.D	08/18/11 16:12
55GW07-0009-08152011	1108173-03	0817303.D	08/18/11 16:40
55GW03-0008-08152011	1108173-04	0817304.D	08/18/11 17:08
55GW03-0008-08152011D	1108173-05	0817305.D	08/18/11 17:37
55GW09-0008-08152011	1108173-06	0817306.D	08/18/11 18:05

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	0818TU1.D	Injection Date:	08/18/11
Instrument ID:	MS-VOA4	Injection Time:	06:39
Sequence:	1H23101	Lab Sample ID:	1H23101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17	PASS
75	30 - 60% of 95	37	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.09	PASS
173	Less than 2% of 174	0.904	PASS
174	50 - 200% of 95	59.5	PASS
175	5 - 9% of 174	8.36	PASS
176	95 - 101% of 174	96.6	PASS
177	5 - 9% of 176	6.31	PASS

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0818CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23101	Injection Date:	08/18/11
Lab Sample ID:	1H23101-CCV1	Injection Time:	08:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	204.6	0.0575418	5.553658E-02		2.3	20
Benzene	A	100.0	101.1	0.5617921	0.5679999		1.1	20
Bromochloromethane	A	100.0	97.15	0.1100621	0.1069219		-2.9	20
Bromodichloromethane	A	100.0	99.79	0.2747333	0.2741601		-0.2	20
Bromoform	A	100.0	105.6	0.5489907	0.5796543	0.1	5.6	20
Bromomethane	A	100.0	109.0	0.1624106	0.1770298		9.0	20
2-Butanone	A	200.0	208.4	6.628659E-02	0.0690822		4.2	20
Carbon disulfide	A	100.0	111.7	0.3963281	0.4426116		11.7	20
Carbon tetrachloride	A	100.0	102.2	0.1967035	0.2009342		2.2	20
Chlorobenzene	A	100.0	89.68	1.789098	1.604448	0.3	-10.3	20
Chloroethane	L	100.0	104.5	6.618182E-02	7.670246E-02		4.5	20
Chloroform	A	100.0	94.79	0.3657383	0.3466867		-5.2	20
Chloromethane	A	100.0	104.8	0.1379611	0.1445494	0.1	4.8	20
Cyclohexane	A	100.0	114.9	0.1089893	0.1252526		14.9	20
Dibromochloromethane	A	100.0	100.6	0.5962943	0.6001588		0.6	20
1,2-Dibromo-3-chloropropane	A	100.0	104.9	0.130454	0.1368058		4.9	20
1,2-Dibromoethane (EDB)	A	100.0	98.14	0.7842657	0.7697143		-1.9	20
1,2-Dichlorobenzene	A	100.0	97.96	0.9132796	0.8946811		-2.0	20
1,3-Dichlorobenzene	A	100.0	98.31	0.933043	0.9172892		-1.7	20
1,4-Dichlorobenzene	A	100.0	92.90	0.9629043	0.8945669		-7.1	20
Dichlorodifluoromethane	A	100.0	122.4	0.1987127	0.2431495		22.4	20 *
1,1-Dichloroethane	A	100.0	111.2	0.2268701	0.2523241	0.1	11.2	20
1,2-Dichloroethane	A	100.0	98.52	0.267094	0.2631488		-1.5	20
1,1-Dichloroethene	A	100.0	105.0	0.1984207	0.2083951		5.0	20
cis-1,2-Dichloroethene	A	100.0	95.42	0.2557099	0.2439901		-4.6	20
trans-1,2-Dichloroethene	A	100.0	99.56	0.2297347	0.2287143		-0.4	20
1,2-Dichloropropane	A	100.0	106.1	0.1055341	0.1119981		6.1	20
cis-1,3-Dichloropropene	A	100.0	102.3	0.2482491	0.2539464		2.3	20
trans-1,3-Dichloropropene	A	100.0	106.3	0.8209591	0.8730243		6.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0818CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23101	Injection Date:	08/18/11
Lab Sample ID:	1H23101-CCV1	Injection Time:	08:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethylbenzene	A	100.0	98.28	2.499288	2.456446		-1.7	20
2-Hexanone	A	200.0	222.0	0.2701311	0.2997802		11.0	20
Isopropylbenzene	A	100.0	97.92	2.094953	2.051368		-2.1	20
Methylene chloride	A	100.0	95.19	0.2168724	0.2064496		-4.8	20
Methyl Acetate	A	100.0	101.2	0.1035201	0.1047987		1.2	20
Methylcyclohexane	A	100.0	109.2	0.1499832	0.1637388		9.2	20
4-Methyl-2-pentanone	A	200.0	215.9	0.1267146	0.136791		8.0	20
Methyl t-Butyl Ether	A	100.0	104.8	0.4253933	0.4460648		4.9	20
Styrene	A	100.0	95.59	1.924134	1.839287		-4.4	20
1,1,2,2-Tetrachloroethane	A	100.0	105.9	0.4765921	0.5046155	0.3	5.9	20
Tetrachloroethene	A	100.0	100.3	0.6566482	0.658931		0.3	20
Toluene	A	100.0	99.49	1.437624	1.430316		-0.5	20
1,2,3-Trichlorobenzene	A	100.0	99.06	0.423201	0.4192193		-0.9	20
1,2,4-Trichlorobenzene	A	100.0	99.06	0.5127504	0.5079517		-0.9	20
1,1,2-Trichloroethane	A	100.0	101.2	0.4387015	0.4441411		1.2	20
1,1,1-Trichloroethane	A	100.0	103.2	0.262971	0.2714282		3.2	20
Trichloroethene	A	100.0	98.17	0.2353264	0.2310118		-1.8	20
Trichlorofluoromethane	A	100.0	110.5	0.2780621	0.3073455		10.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	108.5	0.1943975	0.2109017		8.5	20
Vinyl chloride	A	100.0	114.5	0.1376198	0.157612		14.5	20
m,p-Xylene	A	200.0	182.4	1.916489	1.748099		-8.8	20
o-Xylene	A	100.0	95.40	2.016979	1.924211		-4.6	20
Bromofluorobenzene	A	30.00	32.33	1.084841	1.168953		7.8	20
Dibromofluoromethane	A	30.00	30.78	0.3026546	0.3104877		2.6	20
1,2-Dichloroethane-d4	A	30.00	29.11	6.424239E-02	6.233172E-02		-3.0	20
Toluene-d8	A	30.00	32.27	2.688003	2.891674		7.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H18004 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW04-0008-08152011	1108173-02	08/18/11 08:27	5.00	5.00
55GW07-0009-08152011	1108173-03	08/18/11 08:27	5.00	5.00
55GW03-0008-08152011	1108173-04	08/18/11 08:27	5.00	5.00
55GW03-0008-08152011D	1108173-05	08/18/11 08:27	5.00	5.00
55GW09-0008-08152011	1108173-06	08/18/11 08:27	5.00	5.00
TB-01	1108173-07	08/18/11 08:27	5.00	5.00
Blank	1H18004-BLK1	08/18/11 08:27	5.00	5.00
LCS	1H18004-BS1	08/18/11 08:27	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Matrix: Laboratory ID: 1H18004-BLK1 File ID: 0818BLK1.D

Sampled: Prepared: Analyzed: 08/18/11 10:33

Solids: Preparation: 5030B Dilution:

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
110-82-7	Cyclohexane		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.240	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.160	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
79-20-9	Methyl Acetate		0.500	1.00	2.00	U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H18004-BLK1	File ID:	0818BLK1.D
Sampled:		Prepared:		Analyzed:	08/18/11 10:33
Solids:		Preparation:	5030B	Dilution:	

Batch: 1H18004 Sequence: 1H23101 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.500	1.00	2.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.71	106	75 - 120	
Dibromofluoromethane	30.00	30.19	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.58	102	70 - 120	
Toluene-d8	30.00	30.83	103	85 - 120	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H18004	Laboratory ID:	1H18004-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	85.6	85.6	40 - 140
Benzene	50.00	55.6	111	80 - 120
Bromochloromethane	50.00	49.9	99.8	65 - 130
Bromodichloromethane	50.00	50.4	101	75 - 120
Bromoform	50.00	50.1	100	70 - 130
Bromomethane	50.00	52.1	104	30 - 145
2-Butanone	100.0	96.0	96.0	30 - 150
Carbon disulfide	50.00	49.6	99.2	35 - 160
Carbon tetrachloride	50.00	55.6	111	65 - 140
Chlorobenzene	50.00	47.8	95.6	80 - 120
Chloroethane	50.00	55.8	112	60 - 135
Chloroform	50.00	50.0	100	65 - 135
Chloromethane	50.00	46.4	92.8	40 - 125
Cyclohexane	50.00	58.4	117	60 - 130
Dibromochloromethane	50.00	48.6	97.1	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.9	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.5	95.0	80 - 120
1,2-Dichlorobenzene	50.00	51.2	102	70 - 120
1,3-Dichlorobenzene	50.00	51.2	102	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	75 - 125
Dichlorodifluoromethane	50.00	48.8	97.5	30 - 155
1,1-Dichloroethane	50.00	56.7	113	70 - 135
1,2-Dichloroethane	50.00	51.2	102	70 - 130
1,1-Dichloroethene	50.00	51.1	102	70 - 130
cis-1,2-Dichloroethene	50.00	53.0	106	70 - 125
trans-1,2-Dichloroethene	50.00	50.9	102	60 - 140
1,2-Dichloropropane	50.00	56.4	113	75 - 125
cis-1,3-Dichloropropene	50.00	55.4	111	70 - 130
trans-1,3-Dichloropropene	50.00	46.9	93.9	55 - 140
Ethylbenzene	50.00	51.0	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H18004	Laboratory ID:	1H18004-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Hexanone	100.0	107	107	55 - 130
Isopropylbenzene	50.00	48.7	97.4	75 - 125
Methylene chloride	50.00	50.1	100	55 - 140
Methyl Acetate	50.00	49.8	99.5	55 - 150
Methylcyclohexane	50.00	55.9	112	60 - 125
4-Methyl-2-pentanone	100.0	107	107	60 - 135
Methyl t-Butyl Ether	50.00	52.6	105	65 - 125
Styrene	50.00	49.8	99.6	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.9	106	65 - 130
Tetrachloroethene	50.00	51.5	103	45 - 150
Toluene	50.00	49.5	99.0	75 - 120
1,2,3-Trichlorobenzene	50.00	55.1	110	55 - 140
1,2,4-Trichlorobenzene	50.00	52.7	105	65 - 135
1,1,2-Trichloroethane	50.00	52.3	105	75 - 125
1,1,1-Trichloroethane	50.00	56.1	112	65 - 130
Trichloroethene	50.00	51.5	103	70 - 125
Trichlorofluoromethane	50.00	55.3	111	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	51.2	102	60 - 130
Vinyl chloride	50.00	56.0	112	50 - 145
m,p-Xylene	100.0	99.6	99.6	75 - 130
o-Xylene	50.00	51.4	103	80 - 120

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23101	Instrument:	MS-VOA4
		Calibration:	1229002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23101-CCV1) ug/L				Lab File ID: 0818CCV1.D		Analyzed: 08/18/11 08:01		
Bromofluorobenzene	30.00	108	80 - 120	12.322	12.322	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	7	7	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	80 - 120	7.492	7.492	0.0000	+/-1.000	
Toluene-d8	30.00	108	80 - 120	9.705	9.705	0.0000	+/-1.000	
LCS (1H18004-BS1) ug/L				Lab File ID: 0818LS1.D		Analyzed: 08/18/11 08:36		
Bromofluorobenzene	30.00	101	75 - 120	12.326	12.322	0.0040	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.994	7	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.496	7.492	0.0040	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.709	9.705	0.0040	+/-1.000	
Blank (1H18004-BLK1) ug/L				Lab File ID: 0818BLK1.D		Analyzed: 08/18/11 10:33		
Bromofluorobenzene	30.00	106	75 - 120	12.321	12.322	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.999	7	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.491	7.492	-0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.704	9.705	-0.0010	+/-1.000	
TB-01 (1108173-07) ug/L				Lab File ID: 0817307.D		Analyzed: 08/18/11 13:51		
Bromofluorobenzene	30.00	100	75 - 120	12.326	12.322	0.0040	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.994	7	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.496	7.492	0.0040	+/-1.000	
Toluene-d8	30.00	97.4	85 - 120	9.709	9.705	0.0040	+/-1.000	
55GW04-0008-08152011 (1108173-02) ug/L				Lab File ID: 0817302.D		Analyzed: 08/18/11 16:12		
Bromofluorobenzene	30.00	101	75 - 120	12.331	12.322	0.0090	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.999	7	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.501	7.492	0.0090	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.704	9.705	-0.0010	+/-1.000	
55GW07-0009-08152011 (1108173-03) ug/L				Lab File ID: 0817303.D		Analyzed: 08/18/11 16:40		
Bromofluorobenzene	30.00	97.1	75 - 120	12.326	12.322	0.0040	+/-1.000	
Dibromofluoromethane	30.00	98.7	85 - 115	7.004	7	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.4	70 - 120	7.496	7.492	0.0040	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	9.71	9.705	0.0050	+/-1.000	
55GW03-0008-08152011 (1108173-04) ug/L				Lab File ID: 0817304.D		Analyzed: 08/18/11 17:08		
Bromofluorobenzene	30.00	102	75 - 120	12.325	12.322	0.0030	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	7.003	7	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.6	70 - 120	7.495	7.492	0.0030	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	9.708	9.705	0.0030	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23101	Instrument:	MS-VOA4
		Calibration:	1229002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55GW03-0008-08152011D (1108173-05) ug/L				Lab File ID: 0817305.D		Analyzed: 08/18/11 17:37		
Bromofluorobenzene	30.00	102	75 - 120	12.326	12.322	0.0040	+/-1.000	
Dibromofluoromethane	30.00	99.5	85 - 115	7.004	7	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.496	7.492	0.0040	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.709	9.705	0.0040	+/-1.000	
55GW09-0008-08152011 (1108173-06) ug/L				Lab File ID: 0817306.D		Analyzed: 08/18/11 18:05		
Bromofluorobenzene	30.00	102	75 - 120	12.329	12.322	0.0070	+/-1.000	
Dibromofluoromethane	30.00	99.0	85 - 115	6.997	7	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	7.499	7.492	0.0070	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.713	9.705	0.0080	+/-1.000	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1H23101

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Instrument: MS-VOA4
Calibration: 1229002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23101-CCV1)			Lab File ID: 0818CCV1.D			Analyzed: 08/18/11 08:01			
Fluorobenzene	1231572	8.013	1127909	8.013	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	390996	11.132	395381	11.131	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	430916	13.532	464660	13.522	93	50 - 200	0.0100	+/-0.50	
LCS (1H18004-BS1)			Lab File ID: 0818LS1.D			Analyzed: 08/18/11 08:36			
Fluorobenzene	1185924	8.017	1231572	8.013	96	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	394806	11.136	390996	11.132	101	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	419362	13.526	430916	13.532	97	50 - 200	-0.0060	+/-0.50	
Blank (1H18004-BLK1)			Lab File ID: 0818BLK1.D			Analyzed: 08/18/11 10:33			
Fluorobenzene	1105301	8.012	1231572	8.013	90	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	358382	11.131	390996	11.132	92	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	398996	13.531	430916	13.532	93	50 - 200	-0.0010	+/-0.50	
TB-01 (1108173-07)			Lab File ID: 0817307.D			Analyzed: 08/18/11 13:51			
Fluorobenzene	1123574	8.017	1231572	8.013	91	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	382217	11.136	390996	11.132	98	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	408483	13.526	430916	13.532	95	50 - 200	-0.0060	+/-0.50	
55GW04-0008-08152011 (1108173-02)			Lab File ID: 0817302.D			Analyzed: 08/18/11 16:12			
Fluorobenzene	1033386	8.022	1231572	8.013	84	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	355279	11.131	390996	11.132	91	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	378770	13.531	430916	13.532	88	50 - 200	-0.0010	+/-0.50	
55GW07-0009-08152011 (1108173-03)			Lab File ID: 0817303.D			Analyzed: 08/18/11 16:40			
Fluorobenzene	1114624	8.018	1231572	8.013	91	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	368180	11.136	390996	11.132	94	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	372772	13.536	430916	13.532	87	50 - 200	0.0040	+/-0.50	
55GW03-0008-08152011 (1108173-04)			Lab File ID: 0817304.D			Analyzed: 08/18/11 17:08			
Fluorobenzene	1118075	8.016	1231572	8.013	91	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	357250	11.135	390996	11.132	91	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	382275	13.535	430916	13.532	89	50 - 200	0.0030	+/-0.50	
55GW03-0008-08152011D (1108173-05)			Lab File ID: 0817305.D			Analyzed: 08/18/11 17:37			
Fluorobenzene	1121906	8.017	1231572	8.013	91	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	367219	11.135	390996	11.132	94	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	403305	13.536	430916	13.532	94	50 - 200	0.0040	+/-0.50	
55GW09-0008-08152011 (1108173-06)			Lab File ID: 0817306.D			Analyzed: 08/18/11 18:05			
Fluorobenzene	1093700	8.021	1231572	8.013	89	50 - 200	0.0080	+/-0.50	
Chlorobenzene-d5	350932	11.139	390996	11.132	90	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	385873	13.53	430916	13.532	90	50 - 200	-0.0020	+/-0.50	

Data for SW8270C Forms

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55GW04-0008-08152011	08/15/11 08:50	08/16/11 08:30	08/17/11 10:15	2.06	7.00	09/06/11 22:01	20.49	40.00	
55GW07-0009-08152011	08/15/11 09:50	08/16/11 08:30	08/17/11 10:15	2.02	7.00	09/06/11 22:42	20.52	40.00	
55GW03-0008-08152011	08/15/11 10:50	08/16/11 08:30	08/17/11 10:15	1.98	7.00	09/06/11 23:22	20.55	40.00	
55GW03-0008-08152011D	08/15/11 10:50	08/16/11 08:30	08/17/11 10:15	1.98	7.00	09/07/11 00:03	20.58	40.00	
55GW09-0008-08152011	08/15/11 11:50	08/16/11 08:30	08/17/11 10:15	1.93	7.00	09/07/11 00:43	20.60	40.00	

ANALYSIS SEQUENCE SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288294	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.80832	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.8623	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654444	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890507	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20774	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157608	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400746	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008023	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492852	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.03815	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185735	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697993	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755144	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.466992	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.64104	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326675	7.594375	0.1603634			15	
Dimethyl phthalate	1.244441	5.685728	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453456	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449686	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.730629	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748586	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.01217	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.1868569	4.354219	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.374975	6.237495	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780526	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161853	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83852	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	
4-Nitroaniline	0.3272887	5.141513	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120647	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241451	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033432	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409362	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277107	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444736	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940565	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435474	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869366	9.329125	9.747652E-02			15	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Calibration: 1122001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974254	60	2.113941
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735507	40	0.2647946	50	0.2615823	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617163	10	0.8673336	20	0.9412286	40	0.808192	50	0.8346686	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469078	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539725	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178278
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019167	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147532	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719

INITIAL CALIBRATION DATA
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.291838	10	1.2633	20	1.265435	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523558	40	1.3491	50	1.379529	60	1.434978
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.3841369	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235793
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252792
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427943	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.2524031	40	0.2278087	50	0.2304762	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782143	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962933
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215085	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013248	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549955	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957
4-Nitroaniline	5	0.3430184	10	0.3360743	20	0.3479662	40	0.3116398	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121727	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493316	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896115	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.229719	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591353	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729039
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679837	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866967	40	0.6961461	50	0.7143354	60	0.753249
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132209	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189467

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.070428	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086365	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159519								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983804	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1122001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	1.11586	100	1.111806								
1,4-Dichlorobenzene	80	1.392334	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208456	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.8016431	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617696	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.7308301								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.25282	100	1.246708								
4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Calibration: 1122001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.412504	60	0.4101255	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	50.99	1.110356	1.132237		2.0	20
Acenaphthylene	A	50.00	52.08	1.725208	1.796804		4.1	20
Anthracene	A	50.00	53.21	1.092671	1.162801		6.4	20
Benzo(a)anthracene	A	50.00	53.94	1.119297	1.207582		7.9	20
Benzo(a)pyrene	A	50.00	54.76	1.045862	1.145479		9.5	20
Benzo(b)fluoranthene	A	50.00	53.30	1.093698	1.165866		6.6	20
Benzo(g,h,i)perylene	A	50.00	55.29	1.033139	1.142352		10.6	20
Benzo(k)fluoranthene	A	50.00	54.50	1.107729	1.207431		9.0	20
4-Bromophenyl-phenylether	A	50.00	52.91	0.2284778	0.2417889		5.8	20
Butylbenzylphthalate	A	50.00	56.82	0.5129818	0.582953		13.6	20
Carbazole	A	50.00	51.29	1.044381	1.071248		2.6	20
4-Chloro-3-methylphenol	A	50.00	52.69	0.3113523	0.3281338		5.4	20
4-Chloroaniline	A	50.00	50.78	0.4225325	0.4291082		1.6	20
Bis(2-chloroethoxy)methane	A	50.00	54.60	0.4269873	0.4662333		9.2	20
Bis(2-chloroethyl)ether	A	50.00	52.57	1.297842	1.3646		5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.93	1.947114	2.022377		3.9	20
2-Chloronaphthalene	A	50.00	52.76	1.087766	1.147861		5.5	20
2-Chlorophenol	A	50.00	53.41	1.315004	1.404776		6.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.82	0.6233489	0.6461009		3.6	20
Chrysene	A	50.00	53.37	1.047865	1.118417		6.7	20
Dibenz(a,h)anthracene	A	50.00	56.42	1.004478	1.133417		12.8	20
Dibenzofuran	A	50.00	53.17	1.535116	1.632439		6.3	20
Di-n-butylphthalate	A	50.00	52.16	1.182012	1.233187		4.3	20
2,4-Dichlorophenol	A	50.00	52.27	0.3046728	0.3185106		4.5	20
Diethylphthalate	A	50.00	52.18	1.194731	1.246888		4.4	20
2,4-Dimethylphenol	A	50.00	53.80	0.3636609	0.3913226		7.6	20
Dimethyl phthalate	A	50.00	52.08	1.24444	1.296196		4.2	20
2,4-Dinitrotoluene	A	50.00	52.99	0.3929838	0.4165004		6.0	20
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.3207071		7.2	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Di-n-octylphthalate	A	50.00	55.56	1.204345	1.338299		11.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.80	0.6793074	0.7445394		9.6	20
Fluoranthene	A	50.00	52.70	1.233837	1.300481		5.4	20
Fluorene	A	50.00	52.74	1.337519	1.410746		5.5	20
Hexachlorobenzene	A	50.00	53.53	0.244362	0.2616019		7.1	20
Hexachlorobutadiene	A	50.00	56.62	0.186857	0.2116138		13.2	20
Hexachlorocyclopentadiene	A	50.00	50.51	0.3749749	0.3787812	0.05	1.0	20
Hexachloroethane	A	50.00	53.43	0.5464632	0.5839846		6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.78	1.038008	1.157962		11.6	20
Isophorone	A	50.00	51.26	0.7442763	0.7630284		2.5	20
1-Methylnaphthalene	A	50.00	50.47	0.5872691	0.5928174		0.9	20
2-Methylnaphthalene	A	50.00	52.21	0.5974192	0.6238767		4.4	20
2-Methylphenol	A	50.00	52.67	1.208635	1.273291		5.3	20
4-Methylphenol	A	50.00	51.20	1.268409	1.298786		2.4	20
Naphthalene	A	50.00	52.85	0.9958993	1.052611		5.7	20
4-Nitroaniline	A	50.00	53.01	0.3272887	0.3469818		6.0	20
3-Nitroaniline	A	50.00	53.20	0.3230815	0.3437513		6.4	20
2-Nitroaniline	A	50.00	53.86	0.3700237	0.3985975		7.7	20
Nitrobenzene	A	50.00	52.75	0.4107927	0.4333935		5.5	20
4-Nitrophenol	A	50.00	53.70	0.2721678	0.292285	0.05	7.4	20
2-Nitrophenol	A	50.00	53.57	0.1941449	0.2080171		7.1	20
N-Nitrosodiphenylamine	A	50.00	53.24	0.6728889	0.7164793		6.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.25	1.033966	1.12186	0.05	8.5	20
Phenanthrene	A	50.00	53.38	1.075866	1.148675		6.8	20
Phenol	A	50.00	52.06	1.687698	1.757079		4.1	20
Pyrene	A	50.00	54.76	1.163766	1.274472		9.5	20
2,3,4,6-Tetrachlorophenol	A	50.00	50.18	0.3340715	0.3352563		0.4	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.382004	0.4101383		7.4	20
2,4,5-Trichlorophenol	A	50.00	52.48	0.4142645	0.4348178		5.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorobiphenyl	A	50.00	54.11	1.265417	1.369371		8.2	20
2-Fluorophenol	A	100.0	114.6	1.142171	1.308424		14.6	20
Nitrobenzene-d5	A	50.00	55.94	0.4075494	0.4559688		11.9	20
Terphenyl-d14	A	50.00	54.87	0.7462196	0.8189273		9.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.109869	0.1200227		9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV3	Injection Time:	17:19

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	A	50.00	53.45	0.1454148	0.1554342		6.9	20
2,4-Dinitrophenol	A	50.00	61.89	0.1854397	0.2295477	0.05	23.8	20 *
Pentachlorophenol	A	50.00	56.14	0.1623094	0.1822508		12.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	05/02/11
Lab Sample ID:	1E12203-ICV4	Injection Time:	14:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	50.85	1.010105	1.027374		1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25004	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25004-TUN1	SEQ-TUN1.D	09/06/11 16:12
Calibration Check	1I25004-CCV1	SEQ-CCV1.D	09/06/11 16:40
Calibration Check	1I25004-CCV2	SEQ-CCV2.D	09/06/11 17:57
Blank	1H16013-BLK1	H16013B1.D	09/06/11 19:19
LCS	1H16013-BS1	H16013L1.D	09/06/11 19:59
LCS Dup	1H16013-BSD1	H16013L2.D	09/06/11 20:40
55GW04-0008-08152011	1108173-02	0817302.D	09/06/11 22:01
55GW07-0009-08152011	1108173-03	0817303.D	09/06/11 22:42
55GW03-0008-08152011	1108173-04	0817304.D	09/06/11 23:22
55GW03-0008-08152011D	1108173-05	0817305.D	09/07/11 00:03
55GW09-0008-08152011	1108173-06	0817306.D	09/07/11 00:43

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/06/11
Instrument ID:	MS-BNA3	Injection Time:	16:12
Sequence:	1I25004	Lab Sample ID:	1I25004-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.32	PASS
127	40 - 60% of 198	55.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.7	PASS
275	10 - 30% of 198	24	PASS
365	1 - 200% of 198	1.33	PASS
441	0.001 - 100% of 443	78.6	PASS
442	40 - 200% of 198	63.8	PASS
443	17 - 23% of 442	18.6	PASS

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV1	Injection Time:	16:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.34	1.110356	1.162287		4.7	20
Acenaphthylene	A	50.00	53.86	1.725208	1.858349		7.7	20
Acetophenone	A	50.00	51.54	1.801986	1.857331		3.1	20
Anthracene	A	50.00	51.14	1.092671	1.117576		2.3	20
Benzo(a)anthracene	A	50.00	55.78	1.119297	1.248639		11.6	20
Benzo(a)pyrene	A	50.00	55.32	1.045862	1.157154		10.6	20
Benzo(b)fluoranthene	A	50.00	61.90	1.093698	1.354085		23.8	20 *
Benzo(g,h,i)perylene	A	50.00	52.14	1.033139	1.07727		4.3	20
Benzo(k)fluoranthene	A	50.00	54.87	1.107729	1.215635		9.7	20
1,1-Biphenyl	A	50.00	49.89	1.444453	1.441385		-0.2	20
4-Bromophenyl-phenylether	A	50.00	46.05	0.2284778	0.2104414		-7.9	20
Butylbenzylphthalate	A	50.00	65.40	0.5129818	0.6709779		30.8	20 *
Caprolactam	A	50.00	44.29	0.1128421	9.994607E-02		-11.4	20
Carbazole	A	50.00	49.77	1.044381	1.039475		-0.5	20
4-Chloro-3-methylphenol	A	50.00	51.27	0.3113523	0.3192449		2.5	20
4-Chloroaniline	A	50.00	51.83	0.4225325	0.4379949		3.7	20
Bis(2-chloroethoxy)methane	A	50.00	47.67	0.4269873	0.407073		-4.7	20
Bis(2-chloroethyl)ether	A	50.00	50.59	1.297842	1.313043		1.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.74	1.947114	2.053929		5.5	20
2-Chloronaphthalene	A	50.00	57.12	1.087766	1.24266		14.2	20
2-Chlorophenol	A	50.00	50.15	1.315004	1.319042		0.3	20
4-Chlorophenyl phenyl ether	A	50.00	51.42	0.6233489	0.6410262		2.8	20
Chrysene	A	50.00	52.90	1.047865	1.108738		5.8	20
Dibenz(a,h)anthracene	A	50.00	52.46	1.004478	1.053832		4.9	20
Dibenzofuran	A	50.00	52.85	1.535116	1.622546		5.7	20
Di-n-butylphthalate	A	50.00	55.16	1.182012	1.303942		10.3	20
3,3'-Dichlorobenzidine	A	50.00	61.99	0.4067228	0.5042698		24.0	20 *
2,4-Dichlorophenol	A	50.00	48.78	0.3046728	0.2972329		-2.4	20
Diethylphthalate	A	50.00	56.81	1.194731	1.3574		13.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV1	Injection Time:	16:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dimethylphenol	A	50.00	51.68	0.3636609	0.3759021		3.4	20
Dimethyl phthalate	A	50.00	52.39	1.24444	1.303878		4.8	20
4,6-Dinitro-2-methylphenol	A	50.00	51.32	0.1454148	0.1492506		2.6	20
2,4-Dinitrophenol	A	50.00	45.17	0.1854397	0.1675267	0.05	-9.7	20
2,4-Dinitrotoluene	A	50.00	55.00	0.3929838	0.432272		10.0	20
2,6-Dinitrotoluene	A	50.00	53.20	0.2991862	0.3183135		6.4	20
Di-n-octylphthalate	A	50.00	67.35	1.204345	1.622269		34.7	20 *
1,4-Dioxane	A	50.00	46.02	0.5405832	0.4975891		-8.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	65.31	0.6793074	0.8873201		30.6	20 *
Fluoranthene	A	50.00	47.82	1.233837	1.17993		-4.4	20
Fluorene	A	50.00	52.44	1.337519	1.402905		4.9	20
Hexachlorobenzene	A	50.00	47.75	0.244362	0.233371		-4.5	20
Hexachlorobutadiene	A	50.00	48.89	0.186857	0.1827026		-2.2	20
Hexachlorocyclopentadiene	A	50.00	48.19	0.3749749	0.3614284	0.05	-3.6	20
Hexachloroethane	A	50.00	51.53	0.5464632	0.5631833		3.1	20
Indeno(1,2,3-cd)pyrene	A	50.00	56.76	1.038008	1.178381		13.5	20
Isophorone	A	50.00	46.90	0.7442763	0.6981895		-6.2	20
1-Methylnaphthalene	A	50.00	48.83	0.5872691	0.5734855		-2.3	20
2-Methylnaphthalene	A	50.00	49.45	0.5974192	0.5908331		-1.1	20
2-Methylphenol	A	50.00	51.24	1.208635	1.238575		2.5	20
4-Methylphenol	A	50.00	51.99	1.268409	1.318905		4.0	20
Naphthalene	A	50.00	51.32	0.9958993	1.022182		2.6	20
4-Nitroaniline	A	50.00	55.72	0.3272887	0.3647608		11.4	20
3-Nitroaniline	A	50.00	53.22	0.3230815	0.3438932		6.4	20
2-Nitroaniline	A	50.00	52.59	0.3700237	0.3892044		5.2	20
Nitrobenzene	A	50.00	50.23	0.4107927	0.4127061		0.5	20
4-Nitrophenol	A	50.00	50.60	0.2721678	0.275424	0.05	1.2	20
2-Nitrophenol	A	50.00	50.67	0.1941449	0.1967474		1.3	20
N-Nitrosodiphenylamine	A	50.00	51.95	0.6728889	0.6990943		3.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV1	Injection Time:	16:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitroso-di-n-propylamine	A	50.00	49.48	1.033966	1.023143	0.05	-1.0	20
Pentachlorophenol	A	50.00	42.45	0.1623094	0.137786		-15.1	20
Phenanthrene	A	50.00	51.92	1.075866	1.11726		3.8	20
Phenol	A	50.00	50.02	1.687698	1.688321		0.04	20
Pyrene	A	50.00	56.18	1.163766	1.307503		12.4	20
1,2,4,5-Tetrachlorobenzene	A	50.00	43.25	0.3352828	0.2900068		-13.5	20
2,3,4,6-Tetrachlorophenol	A	50.00	46.93	0.3340715	0.3135413		-6.1	20
2,4,6-Trichlorophenol	A	50.00	48.12	0.382004	0.3676088		-3.8	20
2,4,5-Trichlorophenol	A	50.00	49.27	0.4142645	0.4082559		-1.5	20
2-Fluorobiphenyl	A	50.00	54.29	1.265417	1.374066		8.6	20
2-Fluorophenol	A	100.0	99.16	1.142171	1.13261		-0.8	20
Nitrobenzene-d5	A	50.00	50.31	0.4075494	0.4100582		0.6	20
Phenol-d6	A	100.0	98.33	1.572986	1.546649		-1.7	20
Terphenyl-d14	A	50.00	56.69	0.7462196	0.8460241		13.4	20
2,4,6-Tribromophenol	A	100.0	92.03	0.109869	0.1011168		-8.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1125004	Injection Date:	09/06/11
Lab Sample ID:	1125004-CCV2	Injection Time:	17:57

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	45.44	0.2344682	0.2131062		-9.1	20
Benzaldehyde	A	50.00	50.09	1.010105	1.01197		0.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H16013 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW04-0008-08152011	1108173-02	08/17/11 10:15	1,060.00	1.00
55GW07-0009-08152011	1108173-03	08/17/11 10:15	1,080.00	1.00
55GW03-0008-08152011	1108173-04	08/17/11 10:15	1,060.00	1.00
55GW03-0008-08152011D	1108173-05	08/17/11 10:15	1,080.00	1.00
55GW09-0008-08152011	1108173-06	08/17/11 10:15	1,040.00	1.00
Blank	1H16013-BLK1	08/17/11 10:15	1,000.00	1.00
LCS	1H16013-BS1	08/17/11 10:15	1,000.00	1.00
LCS Dup	1H16013-BSD1	08/17/11 10:15	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) ~~Project:~~ NAS Jacksonville CTOJM19

Matrix: Laboratory ID: 1H16013-BLK1 File ID: H16013B1.D

Sampled: Prepared: Analyzed: 09/06/11 19:19

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	X, U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, X, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	Q, U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	Q, U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U
123-91-1	1,4-Dioxane		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Matrix: Laboratory ID: 1H16013-BLK1 File ID: H16013B1.D

Sampled: Prepared: Analyzed: 09/06/11 19:19

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H16013 Sequence: 1I25004 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, U
106-44-5	4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.25	2.50	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.25	2.50	5.00	Q, U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	24.33	48.7	50 - 110	
2-Fluorophenol	100.0	30.79	30.8	20 - 110	
Nitrobenzene-d5	50.00	35.82	71.6	40 - 110	
Phenol-d6	100.0	16.79	16.8	0 - 110	
Terphenyl-d14	50.00	52.66	105	50 - 135	
2,4,6-Tribromophenol	100.0	73.08	73.1	40 - 125	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	50.00	43.58	87.2	45 - 110
Acenaphthylene	50.00	38.40	76.8	50 - 105
Acetophenone	50.00	42.67	85.3	50 - 110
Anthracene	50.00	44.40	88.8	55 - 110
Atrazine	50.00	42.21	84.4	70 - 115
Benzaldehyde	50.00	40.12	80.2	10 - 180
Benzo(a)anthracene	50.00	50.74	101	55 - 110
Benzo(a)pyrene	50.00	49.38	98.8	55 - 110
Benzo(b)fluoranthene	50.00	52.07	104	45 - 120
Benzo(g,h,i)perylene	50.00	47.77	95.5	40 - 125
Benzo(k)fluoranthene	50.00	52.53	105	45 - 125
1,1-Biphenyl	50.00	45.66	91.3	50 - 110
4-Bromophenyl-phenylether	50.00	45.24	90.5	50 - 115
Butylbenzylphthalate	**50.00**	**65.96**	**132**	**45 - 115**
Caprolactam	**50.00**	**8.041**	**16.1**	**20 - 110**
Carbazole	50.00	45.50	91.0	50 - 115
4-Chloro-3-methylphenol	50.00	24.94	49.9	45 - 110
4-Chloroaniline	50.00	32.67	65.3	15 - 110
Bis(2-chloroethoxy)methane	50.00	41.47	82.9	45 - 105
Bis(2-chloroethyl)ether	50.00	39.75	79.5	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	45.00	90.0	25 - 130
2-Chloronaphthalene	50.00	42.93	85.9	50 - 105
2-Chlorophenol	50.00	19.35	38.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	46.98	94.0	50 - 110
Chrysene	50.00	49.25	98.5	55 - 110
Dibenz(a,h)anthracene	50.00	50.25	100	40 - 125
Dibenzofuran	50.00	47.35	94.7	55 - 105
Di-n-butylphthalate	50.00	53.92	108	55 - 115
3,3'-Dichlorobenzidine	50.00	44.19	88.4	20 - 110
2,4-Dichlorophenol	50.00	21.96	43.9	40 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Diethylphthalate	50.00	54.77	110	40 - 120
2,4-Dimethylphenol	50.00	23.52	47.0	30 - 110
Dimethyl phthalate	50.00	48.65	97.3	25 - 125
4,6-Dinitro-2-methylphenol	50.00	27.45	54.9	40 - 130
2,4-Dinitrophenol	50.00	16.19	32.4	15 - 140
2,4-Dinitrotoluene	50.00	50.75	101	50 - 120
2,6-Dinitrotoluene	50.00	47.57	95.1	50 - 115
Di-n-octylphthalate	**50.00**	**68.32**	**137**	**35 - 135**
1,4-Dioxane	50.00	14.30	28.6	10 - 110
Bis(2-ethylhexyl)phthalate	**50.00**	**65.68**	**131**	**40 - 125**
Fluoranthene	50.00	43.04	86.1	55 - 115
Fluorene	50.00	45.13	90.3	50 - 110
Hexachlorobenzene	50.00	43.40	86.8	50 - 110
Hexachlorobutadiene	50.00	21.99	44.0	25 - 105
Hexachlorocyclopentadiene	50.00	19.77	39.5	10 - 110
Hexachloroethane	50.00	19.20	38.4	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	51.81	104	45 - 125
Isophorone	50.00	38.22	76.4	50 - 110
1-Methylnaphthalene	50.00	35.98	72.0	30 - 115
2-Methylnaphthalene	50.00	36.57	73.1	45 - 105
2-Methylphenol	**50.00**	**17.79**	**35.6**	**40 - 110**
4-Methylphenol	50.00	17.65	35.3	30 - 110
Naphthalene	50.00	34.59	69.2	40 - 100
4-Nitroaniline	50.00	43.61	87.2	35 - 120
3-Nitroaniline	50.00	38.95	77.9	20 - 125
2-Nitroaniline	50.00	44.85	89.7	50 - 115
Nitrobenzene	50.00	40.19	80.4	30 - 110
4-Nitrophenol	50.00	9.167	18.3	0 - 125
2-Nitrophenol	50.00	24.08	48.2	40 - 115
N-Nitrosodiphenylamine	50.00	38.80	77.6	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitroso-di-n-propylamine	50.00	43.18	86.4	35 - 130
Pentachlorophenol	50.00	29.47	58.9	40 - 115
Phenanthrene	50.00	46.84	93.7	50 - 115
Phenol	50.00	8.506	17.0	0 - 115
Pyrene	50.00	51.58	103	50 - 130
~~1,2,4,5-Tetrachlorobenzene~~	50.00	37.58	75.2	50 - 125
2,3,4,6-Tetrachlorophenol	**50.00**	**24.18**	**48.4**	**50 - 125**
2,4,6-Trichlorophenol	50.00	25.49	51.0	50 - 115
2,4,5-Trichlorophenol	50.00	25.26	50.5	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	41.19	82.4	5.64	30	45 - 110
Acenaphthylene	50.00	34.99	70.0	9.29	30	50 - 105
Acetophenone	50.00	39.69	79.4	7.24	30	50 - 110
Anthracene	50.00	43.64	87.3	1.72	30	55 - 110
Atrazine	50.00	39.69	79.4	6.16	30	70 - 115
Benzaldehyde	50.00	36.70	73.4	8.89	30	10 - 180
Benzo(a)anthracene	50.00	48.09	96.2	5.36	30	55 - 110
Benzo(a)pyrene	50.00	46.46	92.9	6.09	30	55 - 110
Benzo(b)fluoranthene	50.00	52.38	105	0.582	30	45 - 120
Benzo(g,h,i)perylene	50.00	46.02	92.0	3.72	30	40 - 125
Benzo(k)fluoranthene	50.00	48.91	97.8	7.15	30	45 - 125
1,1-Biphenyl	50.00	43.38	86.8	5.11	30	50 - 110
4-Bromophenyl-phenylether	50.00	43.61	87.2	3.69	30	50 - 115
Butylbenzylphthalate	**50.00**	**63.02**	**126 ***	**4.56**	**30**	**45 - 115**
Caprolactam	**50.00**	**7.812**	**15.6 ***	**2.89**	**30**	**20 - 110**
Carbazole	50.00	44.29	88.6	2.70	30	50 - 115
4-Chloro-3-methylphenol	**50.00**	**21.16**	**42.3 ***	**16.4**	**30**	**45 - 110**
4-Chloroaniline	50.00	26.99	54.0	19.0	30	15 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bis(2-chloroethoxy)methane	50.00	38.27	76.5	8.02	30	45 - 105
Bis(2-chloroethyl)ether	50.00	36.16	72.3	9.47	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	42.07	84.1	6.74	30	25 - 130
2-Chloronaphthalene	50.00	40.56	81.1	5.67	30	50 - 105
2-Chlorophenol	50.00	18.22	36.4	6.00	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	43.74	87.5	7.13	30	50 - 110
Chrysene	50.00	47.04	94.1	4.58	30	55 - 110
Dibenz(a,h)anthracene	50.00	47.44	94.9	5.75	30	40 - 125
Dibenzofuran	50.00	43.57	87.1	8.30	30	55 - 105
Di-n-butylphthalate	50.00	51.87	104	3.86	30	55 - 115
3,3'-Dichlorobenzidine	50.00	38.20	76.4	14.5	30	20 - 110
2,4-Dichlorophenol	**50.00**	**18.78**	**37.6 ***	**15.6**	**30**	**40 - 110**
Diethylphthalate	50.00	48.83	97.7	11.5	30	40 - 120
2,4-Dimethylphenol	50.00	20.77	41.5	12.4	30	30 - 110
Dimethyl phthalate	50.00	43.21	86.4	11.8	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	25.11	50.2	8.94	30	40 - 130
2,4-Dinitrophenol	50.00	16.39	32.8	1.22	30	15 - 140
2,4-Dinitrotoluene	50.00	46.36	92.7	9.03	30	50 - 120
2,6-Dinitrotoluene	50.00	43.91	87.8	8.01	30	50 - 115
Di-n-octylphthalate	**50.00**	**68.18**	**136 ***	**0.199**	**30**	**35 - 135**
1,4-Dioxane	50.00	13.37	26.7	6.73	30	10 - 110
Bis(2-ethylhexyl)phthalate	**50.00**	**62.90**	**126 ***	**4.32**	**30**	**40 - 125**
Fluoranthene	50.00	41.55	83.1	3.51	30	55 - 115
Fluorene	50.00	42.53	85.1	5.93	30	50 - 110
Hexachlorobenzene	50.00	41.98	84.0	3.33	30	50 - 110
Hexachlorobutadiene	50.00	18.98	38.0	14.7	30	25 - 105
Hexachlorocyclopentadiene	50.00	18.51	37.0	6.61	30	10 - 110
Hexachloroethane	50.00	16.58	33.2	14.6	30	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	50.27	101	3.02	30	45 - 125
Isophorone	50.00	35.29	70.6	7.95	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1-Methylnaphthalene	50.00	33.33	66.7	7.65	30	30 - 115
2-Methylnaphthalene	50.00	32.93	65.9	10.5	30	45 - 105
2-Methylphenol	**50.00**	**17.94**	**35.9 ***	**0.793**	**30**	**40 - 110**
4-Methylphenol	50.00	16.38	32.8	7.42	30	30 - 110
Naphthalene	50.00	32.61	65.2	5.88	30	40 - 100
4-Nitroaniline	50.00	39.24	78.5	10.5	30	35 - 120
3-Nitroaniline	50.00	33.98	68.0	13.6	30	20 - 125
2-Nitroaniline	50.00	40.66	81.3	9.80	30	50 - 115
Nitrobenzene	50.00	37.37	74.7	7.25	30	30 - 110
4-Nitrophenol	50.00	9.393	18.8	2.43	30	0 - 125
2-Nitrophenol	50.00	21.30	42.6	12.2	30	40 - 115
N-Nitrosodiphenylamine	50.00	37.36	74.7	3.81	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	39.65	79.3	8.52	30	35 - 130
Pentachlorophenol	50.00	27.57	55.1	6.66	30	40 - 115
Phenanthrene	50.00	45.51	91.0	2.88	30	50 - 115
Phenol	50.00	8.740	17.5	2.71	30	0 - 115
Pyrene	50.00	49.26	98.5	4.59	30	50 - 130
1,2,4,5-Tetrachlorobenzene	50.00	34.65	69.3	8.12	30	50 - 125
2,3,4,6-Tetrachlorophenol	**50.00**	**18.25**	**36.5 ***	**28.0**	**30**	**50 - 125**
2,4,6-Trichlorophenol	**50.00**	**20.47**	**40.9 ***	**21.8**	**30**	**50 - 115**
2,4,5-Trichlorophenol	**50.00**	**20.08**	**40.2 ***	**22.9**	**30**	**50 - 110**

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25004	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25004-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/06/11 16:40		
2-Fluorobiphenyl	50.00	109	80 - 120	10.333	10.333	0.0000	+/-0.500	
2-Fluorophenol	100.0	99.2	80 - 120	5.718	5.718	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	101	80 - 120	8.058	8.058	0.0000	+/-0.500	
Phenol-d6	100.0	98.3	80 - 120	6.872	6.872	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.44	15.44	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	92.0	80 - 120	12.176	12.176	0.0000	+/-0.500	
Blank (1H16013-BLK1) ug/L				Lab File ID: H16013B1.D		Analyzed: 09/06/11 19:19		
2-Fluorobiphenyl	50.00	48.7	50 - 110	10.334	10.333	0.0010	+/-0.500	*
2-Fluorophenol	100.0	30.8	20 - 110	5.718	5.718	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	71.6	40 - 110	8.053	8.058	-0.0050	+/-0.500	
Phenol-d6	100.0	16.8	0 - 110	6.856	6.872	-0.0160	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	15.446	15.44	0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	73.1	40 - 125	12.166	12.176	-0.0100	+/-0.500	
LCS (1H16013-BS1) ug/L				Lab File ID: H16013L1.D		Analyzed: 09/06/11 19:59		
2-Fluorobiphenyl	50.00	56.2	50 - 110	10.33	10.333	-0.0030	+/-0.500	
2-Fluorophenol	100.0	24.6	20 - 110	5.709	5.718	-0.0090	+/-0.500	
Nitrobenzene-d5	50.00	68.4	40 - 110	8.054	8.058	-0.0040	+/-0.500	
Phenol-d6	100.0	16.1	0 - 110	6.858	6.872	-0.0140	+/-0.500	
Terphenyl-d14	50.00	99.0	50 - 135	15.432	15.44	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	51.8	40 - 125	12.168	12.176	-0.0080	+/-0.500	
LCS Dup (1H16013-BSD1) ug/L				Lab File ID: H16013L2.D		Analyzed: 09/06/11 20:40		
2-Fluorobiphenyl	50.00	39.5	50 - 110	10.329	10.333	-0.0040	+/-0.500	*
2-Fluorophenol	100.0	22.8	20 - 110	5.713	5.718	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	58.3	40 - 110	8.058	8.058	0.0000	+/-0.500	
Phenol-d6	100.0	15.3	0 - 110	6.856	6.872	-0.0160	+/-0.500	
Terphenyl-d14	50.00	96.6	50 - 135	15.441	15.44	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	43.5	40 - 125	12.172	12.176	-0.0040	+/-0.500	
55GW04-0008-08152011 (1108173-02) ug/L				Lab File ID: 0817302.D		Analyzed: 09/06/11 22:01		
2-Fluorobiphenyl	47.17	47.2	50 - 110	10.322	10.333	-0.0110	+/-0.500	*
2-Fluorophenol	94.34	21.4	20 - 110	5.707	5.718	-0.0110	+/-0.500	
Nitrobenzene-d5	47.17	65.5	40 - 110	8.046	8.058	-0.0120	+/-0.500	
Phenol-d6	94.34	18.6	0 - 110	6.844	6.872	-0.0280	+/-0.500	
Terphenyl-d14	47.17	71.5	50 - 135	15.429	15.44	-0.0110	+/-0.500	
2,4,6-Tribromophenol	94.34	58.1	40 - 125	12.16	12.176	-0.0160	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25004	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
55GW07-0009-08152011 (1108173-03) ug/L				Lab File ID: 0817303.D		Analyzed: 09/06/11 22:42		
2-Fluorobiphenyl	46.30	44.8	50 - 110	10.325	10.333	-0.0080	+/-0.500	*
2-Fluorophenol	92.59	20.4	20 - 110	5.709	5.718	-0.0090	+/-0.500	
Nitrobenzene-d5	46.30	62.0	40 - 110	8.049	8.058	-0.0090	+/-0.500	
Phenol-d6	92.59	19.1	0 - 110	6.852	6.872	-0.0200	+/-0.500	
Terphenyl-d14	46.30	79.0	50 - 135	15.432	15.44	-0.0080	+/-0.500	
2,4,6-Tribromophenol	92.59	36.8	40 - 125	12.163	12.176	-0.0130	+/-0.500	*
55GW03-0008-08152011 (1108173-04) ug/L				Lab File ID: 0817304.D		Analyzed: 09/06/11 23:22		
2-Fluorobiphenyl	47.17	47.9	50 - 110	10.324	10.333	-0.0090	+/-0.500	*
2-Fluorophenol	94.34	23.1	20 - 110	5.708	5.718	-0.0100	+/-0.500	
Nitrobenzene-d5	47.17	63.9	40 - 110	8.043	8.058	-0.0150	+/-0.500	
Phenol-d6	94.34	16.9	0 - 110	6.846	6.872	-0.0260	+/-0.500	
Terphenyl-d14	47.17	78.0	50 - 135	15.431	15.44	-0.0090	+/-0.500	
2,4,6-Tribromophenol	94.34	63.3	40 - 125	12.156	12.176	-0.0200	+/-0.500	
~~55GW03-0008-08152011D (1108173-05~~) ug/L				Lab File ID: 0817305.D		Analyzed: 09/07/11 00:03		
2-Fluorobiphenyl	46.30	37.8	50 - 110	10.336	10.333	0.0030	+/-0.500	*
2-Fluorophenol	92.59	25.1	20 - 110	5.726	5.718	0.0080	+/-0.500	
Nitrobenzene-d5	46.30	59.9	40 - 110	8.06	8.058	0.0020	+/-0.500	
Phenol-d6	92.59	18.2	0 - 110	6.863	6.872	-0.0090	+/-0.500	
Terphenyl-d14	46.30	103	50 - 135	15.448	15.44	0.0080	+/-0.500	
2,4,6-Tribromophenol	92.59	82.2	40 - 125	12.174	12.176	-0.0020	+/-0.500	
55GW09-0008-08152011 (1108173-06) ug/L				Lab File ID: 0817306.D		Analyzed: 09/07/11 00:43		
2-Fluorobiphenyl	48.08	46.8	50 - 110	10.326	10.333	-0.0070	+/-0.500	*
2-Fluorophenol	96.15	24.5	20 - 110	5.71	5.718	-0.0080	+/-0.500	
Nitrobenzene-d5	48.08	65.7	40 - 110	8.05	8.058	-0.0080	+/-0.500	
Phenol-d6	96.15	15.7	0 - 110	6.854	6.872	-0.0180	+/-0.500	
Terphenyl-d14	48.08	107	50 - 135	15.438	15.44	-0.0020	+/-0.500	
2,4,6-Tribromophenol	96.15	79.5	40 - 125	12.164	12.176	-0.0120	+/-0.500	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Sequence: 1I25004

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Instrument: MS-BNA3
Calibration: 1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25004-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/06/11 16:40			
1,4-Dichlorobenzene-d4	629763	7.347	473419	6.389	133	50 - 200	0.9580	+/-0.50	
Naphthalene-d8	2236342	8.982	1697246	8.029	132	50 - 200	0.9530	+/-0.50	
Acenaphthene-d10	1235137	11.194	970176	10.251	127	50 - 200	0.9430	+/-0.50	
Phenanthrene-d10	2077622	13.058	1609148	12.094	129	50 - 200	0.9640	+/-0.50	
Chrysene-d12	1842425	17.417	1722869	16.261	107	50 - 200	1.1560	+/-0.50	
Perylene-d12	1749691	20.28	1702026	19.012	103	50 - 200	1.2680	+/-0.50	
Calibration Check (1I25004-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/06/11 17:57			
1,4-Dichlorobenzene-d4	437896	7.342	629763	7.347	70	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1631274	8.972	2236342	8.982	73	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	879865	11.183	1235137	11.194	71	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1483745	13.053	2077622	13.058	71	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1375804	17.402	1842425	17.417	75	50 - 200	-0.0150	+/-0.50	
Perylene-d12	1323065	20.27	1749691	20.28	76	50 - 200	-0.0100	+/-0.50	
Blank (1H16013-BLK1)			Lab File ID: H16013B1.D			Analyzed: 09/06/11 19:19			
1,4-Dichlorobenzene-d4	632803	7.348	629763	7.347	100	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2321704	8.977	2236342	8.982	104	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1303513	11.189	1235137	11.194	106	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2048977	13.053	2077622	13.058	99	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1947314	17.407	1842425	17.417	106	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1961192	20.281	1749691	20.28	112	50 - 200	0.0010	+/-0.50	
LCS (1H16013-BS1)			Lab File ID: H16013L1.D			Analyzed: 09/06/11 19:59			
1,4-Dichlorobenzene-d4	426481	7.344	629763	7.347	68	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1574842	8.973	2236342	8.982	70	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	881258	11.185	1235137	11.194	71	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1489518	13.049	2077622	13.058	72	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	1346939	17.409	1842425	17.417	73	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1260366	20.267	1749691	20.28	72	50 - 200	-0.0130	+/-0.50	
LCS Dup (1H16013-BSD1)			Lab File ID: H16013L2.D			Analyzed: 09/06/11 20:40			
1,4-Dichlorobenzene-d4	712742	7.342	629763	7.347	113	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2606458	8.977	2236342	8.982	117	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1437495	11.189	1235137	11.194	116	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2314827	13.053	2077622	13.058	111	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	2122561	17.418	1842425	17.417	115	50 - 200	0.0010	+/-0.50	
Perylene-d12	1854359	20.281	1749691	20.28	106	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1125004	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
55GW04-0008-08152011 (1108173-02)			Lab File ID: 0817302.D			Analyzed: 09/06/11 22:01			
1,4-Dichlorobenzene-d4	678973	7.336	629763	7.347	108	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	2474212	8.965	2236342	8.982	111	50 - 200	-0.0170	+/-0.50	
Acenaphthene-d10	1381828	11.177	1235137	11.194	112	50 - 200	-0.0170	+/-0.50	
Phenanthrene-d10	2196825	13.047	2077622	13.058	106	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	2035344	17.395	1842425	17.417	110	50 - 200	-0.0220	+/-0.50	
Perylene-d12	1982673	20.264	1749691	20.28	113	50 - 200	-0.0160	+/-0.50	
55GW07-0009-08152011 (1108173-03)			Lab File ID: 0817303.D			Analyzed: 09/06/11 22:42			
1,4-Dichlorobenzene-d4	444193	7.344	629763	7.347	71	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1635869	8.973	2236342	8.982	73	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	913358	11.185	1235137	11.194	74	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1464208	13.049	2077622	13.058	70	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	1346152	17.392	1842425	17.417	73	50 - 200	-0.0250	+/-0.50	
Perylene-d12	1318524	20.261	1749691	20.28	75	50 - 200	-0.0190	+/-0.50	
55GW03-0008-08152011 (1108173-04)			Lab File ID: 0817304.D			Analyzed: 09/06/11 23:22			
1,4-Dichlorobenzene-d4	607878	7.338	629763	7.347	97	50 - 200	-0.0090	+/-0.50	
Naphthalene-d8	2231622	8.967	2236342	8.982	100	50 - 200	-0.0150	+/-0.50	
Acenaphthene-d10	1244842	11.179	1235137	11.194	101	50 - 200	-0.0150	+/-0.50	
Phenanthrene-d10	1992330	13.043	2077622	13.058	96	50 - 200	-0.0150	+/-0.50	
Chrysene-d12	1889248	17.391	1842425	17.417	103	50 - 200	-0.0260	+/-0.50	
Perylene-d12	1830392	20.265	1749691	20.28	105	50 - 200	-0.0150	+/-0.50	
55GW03-0008-08152011D (1108173-05)			Lab File ID: 0817305.D			Analyzed: 09/07/11 00:03			
1,4-Dichlorobenzene-d4	638345	7.355	629763	7.347	101	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	2332903	8.984	2236342	8.982	104	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1295330	11.191	1235137	11.194	105	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	2078195	13.06	2077622	13.058	100	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1943110	17.414	1842425	17.417	105	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1879062	20.288	1749691	20.28	107	50 - 200	0.0080	+/-0.50	
55GW09-0008-08152011 (1108173-06)			Lab File ID: 0817306.D			Analyzed: 09/07/11 00:43			
1,4-Dichlorobenzene-d4	463587	7.345	629763	7.347	74	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1728806	8.974	2236342	8.982	77	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	973675	11.181	1235137	11.194	79	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	1593801	13.05	2077622	13.058	77	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1467170	17.399	1842425	17.417	80	50 - 200	-0.0180	+/-0.50	
Perylene-d12	1403219	20.262	1749691	20.28	80	50 - 200	-0.0180	+/-0.50	

Data for SW8082A Forms

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
55GW04-0008-08152011	08/15/11 08:50	08/16/11 08:30	08/18/11 13:05	3.18	7.00	08/23/11 05:04	4.67	40.00	
55GW07-0009-08152011	08/15/11 09:50	08/16/11 08:30	08/18/11 13:05	3.14	7.00	08/23/11 05:23	4.68	40.00	
55GW03-0008-08152011	08/15/11 10:50	08/16/11 08:30	08/18/11 13:05	3.09	7.00	08/23/11 05:41	4.69	40.00	
55GW09-0008-08152011	08/15/11 11:50	08/16/11 08:30	08/18/11 13:05	3.05	7.00	09/09/11 11:48	21.95	40.00	

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24907	Instrument:	GL-ECD3
Calibration:	1250001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I24907-CAL4	006R0601.D	09/05/11 23:44
Cal Standard	1I24907-CAL4	006F0601.D	09/05/11 23:44
Cal Standard	1I24907-CAL3	007R0701.D	09/06/11 00:03
Cal Standard	1I24907-CAL3	007F0701.D	09/06/11 00:03
Cal Standard	1I24907-CAL2	008R0801.D	09/06/11 00:21
Cal Standard	1I24907-CAL2	008F0801.D	09/06/11 00:21
Cal Standard	1I24907-CAL1	009R0901.D	09/06/11 00:40
Cal Standard	1I24907-CAL1	009F0901.D	09/06/11 00:40
Cal Standard	1I24907-CAL5	003R0301.D	09/06/11 13:06
Cal Standard	1I24907-CAL5	003F0301.D	09/06/11 13:06
Cal Standard	1I24907-CAL6	004R0401.D	09/06/11 13:25
Cal Standard	1I24907-CAL6	004F0401.D	09/06/11 13:25
Cal Standard	1I24907-CAL7	005R0501.D	09/06/11 13:44
Cal Standard	1I24907-CAL7	005F0501.D	09/06/11 13:44

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F16727-CAL2	004R0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL2	004F0401.D	06/15/11 11:44
Cal Standard	1F16727-CAL3	005R0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL3	005F0501.D	06/15/11 12:02
Cal Standard	1F16727-CAL5	007R0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL5	007F0701.D	06/15/11 12:39
Cal Standard	1F16727-CAL6	008R0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL6	008F0801.D	06/15/11 12:58
Cal Standard	1F16727-CAL1	011R1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL1	011F1101.D	06/15/11 15:11
Cal Standard	1F16727-CAL4	012R1201.D	06/15/11 15:30
Cal Standard	1F16727-CAL4	012F1201.D	06/15/11 15:30
Initial Cal Check	1F16727-ICV1	013R1301.D	06/15/11 16:39
Initial Cal Check	1F16727-ICV1	013F1301.D	06/15/11 16:39

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC 1254

Client: Tetra Tech NUS, Inc. (T010)

Sequence: 1G18809

Calibration: 1240001

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1G18809-CAL1	002R0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL1	002F0201.D	07/06/11 13:30
Cal Standard	1G18809-CAL2	003R0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL2	003F0301.D	07/06/11 13:49
Cal Standard	1G18809-CAL3	004R0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL3	004F0401.D	07/06/11 14:08
Cal Standard	1G18809-CAL4	005R0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL4	005F0501.D	07/06/11 14:26
Cal Standard	1G18809-CAL5	006R0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL5	006F0601.D	07/06/11 14:45
Cal Standard	1G18809-CAL6	007R0701.D	07/06/11 15:04
Cal Standard	1G18809-CAL6	007F0701.D	07/06/11 15:04
Initial Cal Check	1G18809-ICV1	008R0801.D	07/06/11 15:22
Initial Cal Check	1G18809-ICV1	008F0801.D	07/06/11 15:22

ANALYSIS SEQUENCE SUMMARY

SW8082A

1242

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24021-CAL1	002R0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL1	002F0201.D	08/18/11 11:46
Cal Standard	1H24021-CAL2	003R0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL2	003F0301.D	08/18/11 12:05
Cal Standard	1H24021-CAL3	004R0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL3	004F0401.D	08/18/11 12:24
Cal Standard	1H24021-CAL4	005R0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL4	005F0501.D	08/18/11 12:42
Cal Standard	1H24021-CAL5	006R0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL5	006F0601.D	08/18/11 13:01
Cal Standard	1H24021-CAL6	007R0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL6	007F0701.D	08/18/11 13:20
Cal Standard	1H24021-CAL7	008R0801.D	08/18/11 13:38
Cal Standard	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002F0201.D	07/06/11 13:30
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002R0201.D	07/06/11 13:30
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003F0301.D	07/06/11 13:49
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003R0301.D	07/06/11 13:49
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004F0401.D	07/06/11 14:08
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004R0401.D	07/06/11 14:08
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005F0501.D	07/06/11 14:26
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005R0501.D	07/06/11 14:26
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006F0601.D	07/06/11 14:45
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006R0601.D	07/06/11 14:45
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007F0701.D	07/06/11 15:04
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007R0701.D	07/06/11 15:04

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1G18809	Instrument:	GL-ECD3
Calibration:	1250001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002R0201.D	07/06/11 13:30
11G0112	Aroclor-1254 CAL 1 (2500 ppb)	1G18809-CAL1	002F0201.D	07/06/11 13:30
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003F0301.D	07/06/11 13:49
11F0882	Aroclor-1254 CCV 1000ppm	1G18809-CAL2	003R0301.D	07/06/11 13:49
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004F0401.D	07/06/11 14:08
11G0113	Aroclor-1254 CAL 3 (750 ppb)	1G18809-CAL3	004R0401.D	07/06/11 14:08
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005F0501.D	07/06/11 14:26
11G0114	Aroclor-1254 CAL 4 (500 ppb)	1G18809-CAL4	005R0501.D	07/06/11 14:26
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006F0601.D	07/06/11 14:45
11G0115	Aroclor-1254 CAL 5 (100 ppb)	1G18809-CAL5	006R0601.D	07/06/11 14:45
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007F0701.D	07/06/11 15:04
11G0116	Aroclor-1254 CAL 6 (50 ppb)	1G18809-CAL6	007R0701.D	07/06/11 15:04

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22603	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0164	PCB-1242 CAL1 (2500ppb)	1H22603-CAL7	020R2001.D	08/08/11 21:34
11H0164	PCB-1242 CAL1 (2500ppb)	1H22603-CAL7	020F2001.D	08/08/11 21:34
11H0165	PCB-1242 CAL2 (1000ppb)	1H22603-CAL8	021F2101.D	08/08/11 21:52
11H0165	PCB-1242 CAL2 (1000ppb)	1H22603-CAL8	021R2101.D	08/08/11 21:52
11H0166	PCB-1242 CAL3 (750ppb)	1H22603-CAL9	022F2201.D	08/08/11 22:11
11H0166	PCB-1242 CAL3 (750ppb)	1H22603-CAL9	022R2201.D	08/08/11 22:11
11H0167	PCB-1242 CAL4 (500ppb)	1H22603-CALA	023R2301.D	08/08/11 22:29
11H0167	PCB-1242 CAL4 (500ppb)	1H22603-CALA	023F2301.D	08/08/11 22:29
11H0168	PCB-1242 CAL5 (100ppb)	1H22603-CALB	024F2401.D	08/08/11 22:48
11H0168	PCB-1242 CAL5 (100ppb)	1H22603-CALB	024R2401.D	08/08/11 22:48
11H0169	PCB-1242 CAL6 (50ppb)	1H22603-CALC	025F2501.D	08/08/11 23:07
11H0169	PCB-1242 CAL6 (50ppb)	1H22603-CALC	025R2501.D	08/08/11 23:07

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22603	Instrument:	GL-ECD3
Calibration:	1250001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0164	PCB-1242 CAL1 (2500ppb)	1H22603-CAL7	020F2001.D	08/08/11 21:34
11H0164	PCB-1242 CAL1 (2500ppb)	1H22603-CAL7	020R2001.D	08/08/11 21:34
11H0165	PCB-1242 CAL2 (1000ppb)	1H22603-CAL8	021F2101.D	08/08/11 21:52
11H0165	PCB-1242 CAL2 (1000ppb)	1H22603-CAL8	021R2101.D	08/08/11 21:52
11H0166	PCB-1242 CAL3 (750ppb)	1H22603-CAL9	022F2201.D	08/08/11 22:11
11H0166	PCB-1242 CAL3 (750ppb)	1H22603-CAL9	022R2201.D	08/08/11 22:11
11H0167	PCB-1242 CAL4 (500ppb)	1H22603-CALA	023F2301.D	08/08/11 22:29
11H0167	PCB-1242 CAL4 (500ppb)	1H22603-CALA	023R2301.D	08/08/11 22:29
11H0168	PCB-1242 CAL5 (100ppb)	1H22603-CALB	024F2401.D	08/08/11 22:48
11H0168	PCB-1242 CAL5 (100ppb)	1H22603-CALB	024R2401.D	08/08/11 22:48
11H0169	PCB-1242 CAL6 (50ppb)	1H22603-CALC	025F2501.D	08/08/11 23:07
11H0169	PCB-1242 CAL6 (50ppb)	1H22603-CALC	025R2501.D	08/08/11 23:07

INITIAL CALIBRATION STANDARDS

SW8082A

1221

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22709	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0199	Aroclor 1221 CAL1 (2500ppb)	1H22709-CAL1	002F0101.D	08/10/11 19:35
11H0199	Aroclor 1221 CAL1 (2500ppb)	1H22709-CAL1	002R0101.D	08/10/11 19:35
11H0200	Aroclor 1221 CAL2 (1000ppb)	1H22709-CAL2	003F0201.D	08/10/11 19:53
11H0200	Aroclor 1221 CAL2 (1000ppb)	1H22709-CAL2	003R0201.D	08/10/11 19:53
11H0201	Aroclor 1221 CAL3 (750ppb)	1H22709-CAL3	004F0301.D	08/10/11 20:12
11H0201	Aroclor 1221 CAL3 (750ppb)	1H22709-CAL3	004R0301.D	08/10/11 20:12
11H0202	Aroclor 1221 CAL4 (500ppb)	1H22709-CAL4	005F0401.D	08/10/11 20:30
11H0202	Aroclor 1221 CAL4 (500ppb)	1H22709-CAL4	005R0401.D	08/10/11 20:30
11H0203	Aroclor 1221 CAL5 (100ppb)	1H22709-CAL5	006R0501.D	08/10/11 20:49
11H0203	Aroclor 1221 CAL5 (100ppb)	1H22709-CAL5	006F0501.D	08/10/11 20:49
11H0204	Aroclor 1221 CAL6 (50ppb)	1H22709-CAL6	007R0601.D	08/10/11 21:08
11H0204	Aroclor 1221 CAL6 (50ppb)	1H22709-CAL6	007F0601.D	08/10/11 21:08

INITIAL CALIBRATION STANDARDS

SW8082A

1221

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H22709	Instrument:	GL-ECD3
Calibration:	1250001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0199	Aroclor 1221 CAL1 (2500ppb)	1H22709-CAL1	002R0101.D	08/10/11 19:35
11H0199	Aroclor 1221 CAL1 (2500ppb)	1H22709-CAL1	002F0101.D	08/10/11 19:35
11H0200	Aroclor 1221 CAL2 (1000ppb)	1H22709-CAL2	003F0201.D	08/10/11 19:53
11H0200	Aroclor 1221 CAL2 (1000ppb)	1H22709-CAL2	003R0201.D	08/10/11 19:53
11H0201	Aroclor 1221 CAL3 (750ppb)	1H22709-CAL3	004F0301.D	08/10/11 20:12
11H0201	Aroclor 1221 CAL3 (750ppb)	1H22709-CAL3	004R0301.D	08/10/11 20:12
11H0202	Aroclor 1221 CAL4 (500ppb)	1H22709-CAL4	005R0401.D	08/10/11 20:30
11H0202	Aroclor 1221 CAL4 (500ppb)	1H22709-CAL4	005F0401.D	08/10/11 20:30
11H0203	Aroclor 1221 CAL5 (100ppb)	1H22709-CAL5	006F0501.D	08/10/11 20:49
11H0203	Aroclor 1221 CAL5 (100ppb)	1H22709-CAL5	006R0501.D	08/10/11 20:49
11H0204	Aroclor 1221 CAL6 (50ppb)	1H22709-CAL6	007F0601.D	08/10/11 21:08
11H0204	Aroclor 1221 CAL6 (50ppb)	1H22709-CAL6	007R0601.D	08/10/11 21:08

INITIAL CALIBRATION STANDARDS

SW8082A

1666

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1F16727	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004F0401.D	06/15/11 11:44
11C0777	Aro-1660 Cal2@1000/50 (CCV)	1F16727-CAL2	004R0401.D	06/15/11 11:44
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005F0501.D	06/15/11 12:02
11A0221	Aro-1660 Cal3@750/37.5	1F16727-CAL3	005R0501.D	06/15/11 12:02
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007F0701.D	06/15/11 12:39
11A0223	Aro-1660 Cal5@100/5	1F16727-CAL5	007R0701.D	06/15/11 12:39
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008F0801.D	06/15/11 12:58
11A0224	Aro-1660 Cal6@50/2.5	1F16727-CAL6	008R0801.D	06/15/11 12:58
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011R1101.D	06/15/11 15:11
11A0220	Aro-1660 Cal1@2500/125	1F16727-CAL1	011F1101.D	06/15/11 15:11
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012F1201.D	06/15/11 15:30
11A0222	Aro-1660 Cal4@500/25	1F16727-CAL4	012R1201.D	06/15/11 15:30

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	1668	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19
Sequence:	1I24906		Instrument:	GL-ECD3
Calibration:	1250001			

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0841	Aro-1660 Cal1@2500/125	1I24906-CALD	025F2501.D	09/01/11 14:10
11H0841	Aro-1660 Cal1@2500/125	1I24906-CALD	025R2501.D	09/01/11 14:10
11H0840	Aro-1660 Cal2@1000/50 (CCV)	1I24906-CALE	026F2601.D	09/01/11 14:28
11H0840	Aro-1660 Cal2@1000/50 (CCV)	1I24906-CALE	026R2601.D	09/01/11 14:28
11H0842	Aro-1660 Cal3@750/37.5	1I24906-CALF	027F2701.D	09/01/11 14:47
11H0842	Aro-1660 Cal3@750/37.5	1I24906-CALF	027R2701.D	09/01/11 14:47
11H0844	Aro-1660 Cal4@500/25	1I24906-CALG	028F2801.D	09/01/11 15:06
11H0844	Aro-1660 Cal4@500/25	1I24906-CALG	028R2801.D	09/01/11 15:06
11H0843	Aro-1660 Cal5@100/5	1I24906-CALH	029R2901.D	09/01/11 15:25
11H0843	Aro-1660 Cal5@100/5	1I24906-CALH	029F2901.D	09/01/11 15:25
11H0845	Aro-1660 Cal6@50/2.5	1I24906-CALI	030R3001.D	09/01/11 15:43
11H0845	Aro-1660 Cal6@50/2.5	1I24906-CALI	030F3001.D	09/01/11 15:43

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H24021	Instrument:	GL-ECD3
Calibration:	1240001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002F0201.D	08/18/11 11:46
11C0272	Pest_ICAL1@200ppb	1H24021-CAL1	002R0201.D	08/18/11 11:46
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003F0301.D	08/18/11 12:05
11H0350	Pest. AB/Sur CCV @ 100ppb	1H24021-CAL2	003R0301.D	08/18/11 12:05
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004R0401.D	08/18/11 12:24
11C0274	Pest_ICAL3@50ppb	1H24021-CAL3	004F0401.D	08/18/11 12:24
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005F0501.D	08/18/11 12:42
11C0275	Pest_ICAL4@25ppb	1H24021-CAL4	005R0501.D	08/18/11 12:42
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006F0601.D	08/18/11 13:01
11C0276	Pest_ICAL5@10ppb	1H24021-CAL5	006R0601.D	08/18/11 13:01
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007F0701.D	08/18/11 13:20
11C0277	Pest_ICAL6@5ppb	1H24021-CAL6	007R0701.D	08/18/11 13:20
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008R0801.D	08/18/11 13:38
11C0278	Pest_ICAL7@1ppb	1H24021-CAL7	008F0801.D	08/18/11 13:38

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I24907	Instrument:	GL-ECD3
Calibration:	1250001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0799	Pest_ICAL4@25ppb	1I24907-CAL4	006F0601.D	09/05/11 23:44
11H0799	Pest_ICAL4@25ppb	1I24907-CAL4	006R0601.D	09/05/11 23:44
11H0798	Pest_ICAL3@50ppb	1I24907-CAL3	007F0701.D	09/06/11 00:03
11H0798	Pest_ICAL3@50ppb	1I24907-CAL3	007R0701.D	09/06/11 00:03
11H0797	Pest. AB/Sur CCV @ 100ppb	1I24907-CAL2	008F0801.D	09/06/11 00:21
11H0797	Pest. AB/Sur CCV @ 100ppb	1I24907-CAL2	008R0801.D	09/06/11 00:21
11H0796	Pest_ICAL1@200ppb	1I24907-CAL1	009R0901.D	09/06/11 00:40
11H0796	Pest_ICAL1@200ppb	1I24907-CAL1	009F0901.D	09/06/11 00:40
11H0800	Pest_ICAL5@10ppb	1I24907-CAL5	003F0301.D	09/06/11 13:06
11H0800	Pest_ICAL5@10ppb	1I24907-CAL5	003R0301.D	09/06/11 13:06
11H0801	Pest_ICAL6@5ppb	1I24907-CAL6	004F0401.D	09/06/11 13:25
11H0801	Pest_ICAL6@5ppb	1I24907-CAL6	004R0401.D	09/06/11 13:25
11H0802	Pest_ICAL7@1ppb	1I24907-CAL7	005R0501.D	09/06/11 13:44
11H0802	Pest_ICAL7@1ppb	1I24907-CAL7	005F0501.D	09/06/11 13:44

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1240001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	764.9617	3.701185	6.842333	6.993766E-02			20	
Aroclor-1016 (1)	1313.194	4.773023	6.562333	0.0600394			20	
Aroclor-1016 (2)	484.2716	4.936372	5.705667	6.027624E-02			20	
Aroclor-1016 (3)	727.4158	5.456124	6.0485	5.053442E-02			20	
Aroclor-1016 (4)	729.6346	4.647932	6.249	7.702264E-02			20	
Aroclor-1016 (5)	570.2921	8.613207	6.842333	6.993766E-02			20	
Aroclor-1016 [2C]	1023.566	12.66002	5.5265	0.2629682			20	
Aroclor-1016 (1) [2C]	1604.03	13.32639	5.290167	4.263819E-02			20	
Aroclor-1016 (2) [2C]	959.9071	12.85092	4.888	2.187117E-02			20	
Aroclor-1016 (3) [2C]	923.9359	12.79206	5.046833	2.947105E-02			20	
Aroclor-1016 (4) [2C]	828.7439	11.94865	5.432667	3.546654E-02			20	
Aroclor-1016 (5) [2C]	801.2113	12.26989	5.5265	0.2629682			20	
Aroclor-1221	347.4893	9.924338	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504849	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6893	17.28239	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47423	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30277	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481552	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172853	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648797	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397496	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.747	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38972	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02			20	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.816	19.04286	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2268.142	3.933859	10.9125	5.356125E-02			20	
Aroclor-1260 (1)	4311.523	4.013749	9.821833	5.898152E-02			20	
Aroclor-1260 (2)	1902.286	5.065316	8.709667	7.050999E-02			20	
Aroclor-1260 (3)	2253.205	6.033797	9.053333	6.367493E-02			20	
Aroclor-1260 (4)	1832.006	4.516835	9.151333	6.728445E-02			20	
Aroclor-1260 (5)	1041.689	2.952778	10.9125	5.356125E-02			20	
Aroclor-1260 [2C]	2343.645	10.71217	8.009833	0.0306845			20	
Aroclor-1260 (1) [2C]	3714.819	9.330505	8.009833	0.0306845			20	
Aroclor-1260 (2) [2C]	1817.694	13.27222	6.769333	2.786608E-02			20	
Aroclor-1260 (3) [2C]	2256.668	11.29824	7.008	3.544481E-02			20	
Aroclor-1260 (4) [2C]	2106.889	11.69539	7.351834	3.499818E-02			20	
Aroclor-1260 (5) [2C]	1822.153	9.927531	7.692	3.530716E-02			20	
Tetrachloro-m-xylene	34968.44	7.672347	5.178857	5.515361E-02			20	
Tetrachloro-m-xylene [2C]	26183.29	24.10909	4.215857	0.0134251		0.9982558	0.995	
Decachlorobiphenyl	41093.6	16.74027	11.268	1.798916E-02			20	
Decachlorobiphenyl [2C]	23977.95	27.90083	9.430857	1.242397E-02		0.9991183	0.995	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1250001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	7/6/11 13:30 9/6/11 13:44

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	988.5776	19.89678	7.846167	1.453138E-02	0.9994703		0.995	
Aroclor-1016 (1)	1848.906	40.24856	7.655	1.615223E-02	0.9994829		0.995	
Aroclor-1016 (2)	709.958	8.571657	7.079667	1.167054E-02	0.9994554		0.995	
Aroclor-1016 (3)	699.4579	9.477655	7.3065	6.789139E-03	0.9993045		0.995	
Aroclor-1016 (4)	1009.497	9.223935	7.6285	1.804089E-02	0.999261		0.995	
Aroclor-1016 (5)	675.0696	7.134182	7.846167	1.453138E-02	0.9995023		0.995	
Aroclor-1016 [2C]	722.6023	11.66771	7.127167	1.716239E-02			20	
Aroclor-1016 (1) [2C]	1046.325	13.86108	6.8155	8.321414E-03			20	
Aroclor-1016 (2) [2C]	573.6751	11.48568	6.533167	7.52791E-03			20	
Aroclor-1016 (3) [2C]	826.3927	10.52362	6.794167	2.128621E-02			20	
Aroclor-1016 (4) [2C]	564.1648	9.203863	7.0255	1.962031E-02			20	
Aroclor-1016 (5) [2C]	602.4543	12.46637	7.127167	1.716239E-02			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1250001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	7/6/11 13:30 9/6/11 13:44

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38971	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02	0.9985235		0.995	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.815	19.04287	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2017.218	7.406798	12.24983	7.414517E-03			20	
Aroclor-1260 (1)	3590.617	7.233293	11.12617	0.0147834			20	
Aroclor-1260 (2)	1927.506	8.219695	9.969333	9.563524E-03			20	
Aroclor-1260 (3)	2089.305	7.178012	10.32783	2.378826E-03			20	
Aroclor-1260 (4)	1485.512	7.669346	10.43333	3.956388E-03			20	
Aroclor-1260 (5)	993.153	12.28537	12.24983	7.414517E-03			20	
Aroclor-1260 [2C]	1652.073	10.01034	9.996833	7.67908E-03			20	
Aroclor-1260 (1) [2C]	2610.749	8.357481	9.996833	7.67908E-03			20	
Aroclor-1260 (2) [2C]	1521.312	11.53059	8.870667	1.242484E-02			20	
Aroclor-1260 (3) [2C]	1413.996	11.9452	9.066833	1.194378E-02			20	
Aroclor-1260 (4) [2C]	1565.017	10.16091	9.292167	1.667907E-02			20	
Aroclor-1260 (5) [2C]	1149.291	9.67878	9.679667	1.23889E-03			20	
Tetrachloro-m-xylene	30039.34	7.777536	6.256714	3.347614E-02			20	
Tetrachloro-m-xylene [2C]	23529.35	3.457711	5.529714	3.318825E-02			20	
Decachlorobiphenyl	31785.57	3.452236	12.90543	1.973238E-02			20	
Decachlorobiphenyl [2C]	20596.68	4.697117	11.75629	0.0240986			20	

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene	200	32372.59	100	31998.04	50	37507.62	25	33537.4	10	34141.8	5	36113.6
Tetrachloro-m-xylene [2C]	200	18332.76	100	20086.41	50	25315.62	25	24631.04	10	27433.2	5	30479

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Decachlorobiphenyl	200	33313.95	100	34231.36	50	40943.12	25	37920.84	10	42171.1	5	46184.8
Decachlorobiphenyl [2C]	200	14961.76	100	17941.35	50	22835.44	25	22370.48	10	25897	5	28996.6

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene	1	39108										
Tetrachloro-m-xylene [2C]	1	37005										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1240001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Decachlorobiphenyl	1	52890										
Decachlorobiphenyl [2C]	1	34843										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221			2500	307.532	1000	333.3164	750	320.4096	500	348.046	100	378.792
Aroclor-1221 (1)			2500	728.9236	1000	778.165	750	723.9026	500	802.69	100	824.84
Aroclor-1221 (2)			2500	216.0624	1000	237.462	750	244.3773	500	257.578	100	311.96
Aroclor-1221 (3)			2500	104.058	1000	121.292	750	128.9613	500	132.516	100	159.07
Aroclor-1221 (4)			2500	300.6684	1000	322.243	750	314.2413	500	330.856	100	362.63
Aroclor-1221 (5)			2500	187.9476	1000	207.42	750	190.5653	500	216.59	100	235.46
Aroclor-1221 [2C]			2500	303.3857	1000	330.0778	750	338.3389	500	356.7156	100	437.05
Aroclor-1221 (1) [2C]			2500	664.0104	1000	719.811	750	733.4893	500	776.988	100	935.64
Aroclor-1221 (2) [2C]			2500	223.7604	1000	246.313	750	255.236	500	272.496	100	365.59
Aroclor-1221 (3) [2C]			2500	116.794	1000	128.145	750	134.2013	500	140.266	100	170.86
Aroclor-1221 (4) [2C]			2500	322.6628	1000	347.962	750	355.9413	500	370.24	100	441.34
Aroclor-1221 (5) [2C]			2500	189.7012	1000	208.158	750	212.8267	500	223.588	100	271.82
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1240001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221	50	396.84										
Aroclor-1221 (1)	50	849.84										
Aroclor-1221 (2)	50	350.5										
Aroclor-1221 (3)	50	167.7										
Aroclor-1221 (4)	50	373.22										
Aroclor-1221 (5)	50	242.94										
Aroclor-1221 [2C]	50	464.568										
Aroclor-1221 (1) [2C]	50	999.46										
Aroclor-1221 (2) [2C]	50	395.28										
Aroclor-1221 (3) [2C]	50	182.74										
Aroclor-1221 (4) [2C]	50	459.36										
Aroclor-1221 (5) [2C]	50	286										
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1240001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242			2500	714.6152	1000	773.864	750	766.4409	500	800.142	100	839.58
Aroclor-1242 (1)			2500	1153.122	1000	1206.357	750	1152.667	500	1176.62	100	1132.34
Aroclor-1242 (2)			2500	661.4412	1000	716.351	750	737.4827	500	749.32	100	761.54
Aroclor-1242 (3)			2500	656.1024	1000	734.123	750	751.2386	500	812.104	100	984.35
Aroclor-1242 (4)			2500	506.5976	1000	569.426	750	558.7454	500	596.908	100	686.11
Aroclor-1242 (5)			2500	595.8128	1000	643.063	750	632.0707	500	665.758	100	633.56
Aroclor-1242 [2C]			2500	713.2564	1000	784.2552	750	834.5984	500	887.6268	100	964.584

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1240001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]			2500	1004.368	1000	1128.679	750	1186.243	500	1272.788	100	1376.57
Aroclor-1242 (2) [2C]			2500	393.898	1000	438.104	750	454.1413	500	484.81	100	531.97
Aroclor-1242 (3) [2C]			2500	765.3696	1000	814.241	750	874.14	500	894.472	100	984.68
Aroclor-1242 (4) [2C]			2500	737.3052	1000	827.079	750	907.6013	500	978.762	100	1046.56
Aroclor-1242 (5) [2C]			2500	665.342	1000	713.173	750	750.8666	500	807.302	100	883.14
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1240001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	6/15/11 11:44 8/18/11 13:38

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242	50	854120										
Aroclor-1242 (1)	50	1231320										
Aroclor-1242 (2)	50	809240										
Aroclor-1242 (3)	50	1033660										
Aroclor-1242 (4)	50	676100										
Aroclor-1242 (5)	50	520280										
Aroclor-1242 [2C]	50	1060520										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1240001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]	50	1506840										
Aroclor-1242 (2) [2C]	50	611640										
Aroclor-1242 (3) [2C]	50	1071680										
Aroclor-1242 (4) [2C]	50	1144660										
Aroclor-1242 (5) [2C]	50	967780										
Aroclor-1254			2500	1593385	1000	1675900	750	1520461	500	1514941	100	1760786
Aroclor-1254 (1)			2500	2181569	1000	2213754	750	2115008	500	2069622	100	2413380
Aroclor-1254 (2)			2500	609704.8	1000	646494	750	614254.6	500	620220	100	759060
Aroclor-1254 (3)			2500	1927691	1000	1965319	750	1867789	500	1849616	100	2202790
Aroclor-1254 (4)			2500	1462815	1000	1423562	750	1352996	500	1305596	100	1469410
Aroclor-1254 (5)			2500	1785144	1000	2130373	750	1652259	500	1729650	100	1959290
Aroclor-1254 [2C]			2500	1456651	1000	1600492	750	1470404	500	1572888	100	1861526
Aroclor-1254 (1) [2C]			2500	1665312	1000	1848402	750	1709200	500	1824956	100	2215930
Aroclor-1254 (2) [2C]			2500	1486024	1000	1654783	750	1611873	500	1691430	100	2067970
Aroclor-1254 (3) [2C]			2500	1223077	1000	1351607	750	1342195	500	1372778	100	1685030
Aroclor-1254 (4) [2C]			2500	1236398	1000	1310415	750	1273376	500	1267942	100	1544310
Aroclor-1254 (5) [2C]			2500	1672442	1000	1837252	750	1415377	500	1707332	100	1794390
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1240001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016			2500	748.13	1000	748.15	750	752.6432	500	817.2132	100	778.254
Aroclor-1016 (1)			2500	1374.629	1000	1301.707	750	1277.439	500	1406.042	100	1267.07
Aroclor-1016 (1) [2C]			2500	1306.822	1000	1447.739	750	1541.096	500	1653.716	100	1824.21
Aroclor-1016 (2)			2500	452.9268	1000	466.804	750	482.0467	500	520.042	100	501.09
Aroclor-1016 (2) [2C]			2500	800.1212	1000	885.944	750	912.9973	500	964.33	100	1146.55
Aroclor-1016 (3)			2500	685.7036	1000	685.778	750	703.9373	500	761.726	100	768.39
Aroclor-1016 (3) [2C]			2500	755.4304	1000	843.663	750	884.712	500	960.78	100	1066.41
Aroclor-1016 (4)			2500	696.2308	1000	699.861	750	706.748	500	780.098	100	752.13
Aroclor-1016 (4) [2C]			2500	675.4664	1000	772.542	750	809.1213	500	852.394	100	944.24
Aroclor-1016 (5)			2500	531.1592	1000	586.6	750	593.0453	500	618.158	100	602.59
Aroclor-1016 (5) [2C]			2500	663.2624	1000	736.217	750	771.3506	500	816.258	100	921.06
Aroclor-1016 [2C]			2500	840.2204	1000	937.221	750	983.8555	500	1049.496	100	1180.494
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2)												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3)												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4)												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5)												
Aroclor-1221 (5) [2C]												
Aroclor-1221 [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2)												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3)												
Aroclor-1242 (3) [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Project: NAS Jacksonville CTOJM19
Calibration: 1240001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 6/15/11 11:44 8/18/11 13:38

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (4)												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5)												
Aroclor-1242 (5) [2C]												
Aroclor-1242 [2C]												
Aroclor-1254	50	2129.536										
Aroclor-1254 (1)	50	2762.98										
Aroclor-1254 (1) [2C]	50	2450.26										
Aroclor-1254 (2)	50	911.56										
Aroclor-1254 (2) [2C]	50	2470.96										
Aroclor-1254 (3)	50	2583.1										
Aroclor-1254 (3) [2C]	50	1992.56										
Aroclor-1254 (4)	50	1663.08										
Aroclor-1254 (4) [2C]	50	1639.94										
Aroclor-1254 (5)	50	2726.96										
Aroclor-1254 (5) [2C]	50	2450.1										
Aroclor-1254 [2C]	50	2200.764										
Aroclor-1260			2500	2343.66	1000	2231.084	750	2190.788	500	2401.642	100	2268
Aroclor-1260 (1)			2500	4477.748	1000	4235.258	750	4171.542	500	4557.798	100	4305.01
Aroclor-1260 (1) [2C]			2500	3216.309	1000	3472.588	750	3579.689	500	3903.866	100	4100.94
Aroclor-1260 (2)			2500	2044.391	1000	1885.425	750	1828.845	500	1986.636	100	1879.86
Aroclor-1260 (2) [2C]			2500	1472.432	1000	1663.195	750	1733.541	500	1901.968	100	2134.31
Aroclor-1260 (3)			2500	2397.448	1000	2254.443	750	2176.717	500	2421.592	100	2202.45
Aroclor-1260 (3) [2C]			2500	1884.097	1000	2096.382	750	2163.541	500	2373.308	100	2576.68
Aroclor-1260 (4)			2500	1758.099	1000	1754.502	750	1768.311	500	1944.626	100	1902.94
Aroclor-1260 (4) [2C]			2500	1779.157	1000	1949.417	750	1997.953	500	2161.156	100	2303.21
Aroclor-1260 (5)			2500	1040.612	1000	1025.793	750	1008.524	500	1097.562	100	1049.74
Aroclor-1260 (5) [2C]			2500	1543.017	1000	1702.933	750	1790.288	500	1905.008	100	2036.29
Aroclor-1260 [2C]			2500	1979.002	1000	2176.903	750	2253.003	500	2449.062	100	2630.286
Decachlorobiphenyl			250		100		75		50		10	
Decachlorobiphenyl [2C]			250		100		75		50		10	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Calibration: 1250001

Instrument: GL-ECD3

Matrix: Water

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016			2500	860.6652	1000	875.372	750	908.7672	500	829.4572	100	1135.448
Aroclor-1016 (1)			2500	1375.678	1000	1408.098	750	1461.193	500	1385.924	100	2268.24
Aroclor-1016 (2)			2500	665.7848	1000	679.648	750	705.5933	500	641.482	100	777.04
Aroclor-1016 (3)			2500	653.702	1000	666.611	750	695.4987	500	622.586	100	788.29
Aroclor-1016 (4)			2500	954.1548	1000	965.136	750	1008.304	500	891.156	100	1107.21
Aroclor-1016 (5)			2500	654.006	1000	657.367	750	673.2466	500	606.138	100	736.46
Aroclor-1016 [2C]			2500	637.8428	1000	680.1046	750	708.3155	500	655.5008	100	820.662
Aroclor-1016 (1) [2C]			2500	889.7404	1000	983.591	750	1040.328	500	922.628	100	1205.4
Aroclor-1016 (2) [2C]			2500	509.9408	1000	541.603	750	561.4106	500	519.366	100	641.95
Aroclor-1016 (3) [2C]			2500	747.9536	1000	769.929	750	791.5814	500	774.622	100	942.39
Aroclor-1016 (4) [2C]			2500	506.4076	1000	543.243	750	564.46	500	519.338	100	633.1
Aroclor-1016 (5) [2C]			2500	535.1712	1000	562.157	750	583.7974	500	541.55	100	680.47
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1250001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260			2500	2082.993	1000	2035.188	750	2046.887	500	1720.375	100	2084.956
Aroclor-1260 (1)			2500	3833.414	1000	3683.304	750	3675.605	500	3082.456	100	3649.22
Aroclor-1260 (2)			2500	1916	1000	1893.477	750	1921.672	500	1659.208	100	2063.82
Aroclor-1260 (3)			2500	2163.115	1000	2124.221	750	2147.044	500	1784.57	100	2154.42
Aroclor-1260 (4)			2500	1514.934	1000	1499.595	750	1518.699	500	1259.214	100	1547.43
Aroclor-1260 (5)			2500	987.5016	1000	975.345	750	971.4133	500	816.428	100	1009.89
Aroclor-1260 [2C]			2500	1522.25	1000	1605.31	750	1650.016	500	1445.249	100	1826.982
Aroclor-1260 (1) [2C]			2500	2457.321	1000	2582.683	750	2639.291	500	2291.97	100	2849.11
Aroclor-1260 (2) [2C]			2500	1367.806	1000	1454.311	750	1503.461	500	1335.036	100	1715.94
Aroclor-1260 (3) [2C]			2500	1278.622	1000	1348.227	750	1393.125	500	1230.484	100	1574.02
Aroclor-1260 (4) [2C]			2500	1442.752	1000	1519.8	750	1565.029	500	1363.782	100	1727.28
Aroclor-1260 (5) [2C]			2500	1064.749	1000	1121.531	750	1149.175	500	1004.972	100	1268.56
Tetrachloro-m-xylene			250		100		75		50		10	
Tetrachloro-m-xylene [2C]			250		100		75		50		10	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1250001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016	50	1321.756										
Aroclor-1016 (1)	50	3194.3										
Aroclor-1016 (2)	50	790.2										
Aroclor-1016 (3)	50	770.06										
Aroclor-1016 (4)	50	1131.02										
Aroclor-1016 (5)	50	723.2										
Aroclor-1016 [2C]	50	833.188										
Aroclor-1016 (1) [2C]	50	1236.26										
Aroclor-1016 (2) [2C]	50	667.78										
Aroclor-1016 (3) [2C]	50	931.88										
Aroclor-1016 (4) [2C]	50	618.44										
Aroclor-1016 (5) [2C]	50	711.58										
Aroclor-1221			2500	307.532	1000	333.3164	750	320.4096	500	348.046	100	378.792
Aroclor-1221 (1)			2500	728.9236	1000	778.165	750	723.9026	500	802.69	100	824.84
Aroclor-1221 (2)			2500	216.0624	1000	237.462	750	244.3773	500	257.578	100	311.96
Aroclor-1221 (3)			2500	104.058	1000	121.292	750	128.9613	500	132.516	100	159.07
Aroclor-1221 (4)			2500	300.6684	1000	322.243	750	314.2413	500	330.856	100	362.63
Aroclor-1221 (5)			2500	187.9476	1000	207.42	750	190.5653	500	216.59	100	235.46
Aroclor-1221 [2C]			2500	303.3857	1000	330.0778	750	338.3389	500	356.7156	100	437.05
Aroclor-1221 (1) [2C]			2500	664.0104	1000	719.811	750	733.4893	500	776.988	100	935.64
Aroclor-1221 (2) [2C]			2500	223.7604	1000	246.313	750	255.236	500	272.496	100	365.59
Aroclor-1221 (3) [2C]			2500	116.794	1000	128.145	750	134.2013	500	140.266	100	170.86
Aroclor-1221 (4) [2C]			2500	322.6628	1000	347.962	750	355.9413	500	370.24	100	441.34
Aroclor-1221 (5) [2C]			2500	189.7012	1000	208.158	750	212.8267	500	223.588	100	271.82
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1250001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	7/6/11 13:30 9/6/11 13:44

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260	50	2132.912										
Aroclor-1260 (1)	50	3619.7										
Aroclor-1260 (2)	50	2110.86										
Aroclor-1260 (3)	50	2162.46										
Aroclor-1260 (4)	50	1573.2										
Aroclor-1260 (5)	50	1198.34										
Aroclor-1260 [2C]	50	1862.632										
Aroclor-1260 (1) [2C]	50	2844.12										
Aroclor-1260 (2) [2C]	50	1751.32										
Aroclor-1260 (3) [2C]	50	1659.5										
Aroclor-1260 (4) [2C]	50	1771.46										
Aroclor-1260 (5) [2C]	50	1286.76										
Tetrachloro-m-xylene	5											
Tetrachloro-m-xylene [2C]	5											

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1250001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Decachlorobiphenyl	5											
Decachlorobiphenyl [2C]	5											

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1250001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221	50	396840										
Aroclor-1221 (1)	50	849840										
Aroclor-1221 (2)	50	350500										
Aroclor-1221 (3)	50	167700										
Aroclor-1221 (4)	50	373220										
Aroclor-1221 (5)	50	242940										
Aroclor-1221 [2C]	50	464568										
Aroclor-1221 (1) [2C]	50	999460										
Aroclor-1221 (2) [2C]	50	395280										
Aroclor-1221 (3) [2C]	50	182740										
Aroclor-1221 (4) [2C]	50	459360										
Aroclor-1221 (5) [2C]	50	286000										
Aroclor-1242			2500	714615.2	1000	773864	750	766440.9	500	800142	100	839580
Aroclor-1242 (1)			2500	1153122	1000	1206357	750	1152667	500	1176620	100	1132340
Aroclor-1242 (2)			2500	661441.2	1000	716351	750	737482.7	500	749320	100	761540
Aroclor-1242 (3)			2500	656102.4	1000	734123	750	751238.6	500	812104	100	984350
Aroclor-1242 (4)			2500	506597.6	1000	569426	750	558745.4	500	596908	100	686110
Aroclor-1242 (5)			2500	595812.8	1000	643063	750	632070.7	500	665758	100	633560
Aroclor-1242 [2C]			2500	713256.4	1000	784255.2	750	834598.4	500	887626.8	100	964584

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Calibration: 1250001

Instrument: GL-ECD3

Matrix: Water

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]			2500	1004368	1000	1128679	750	1186243	500	1272788	100	1376570
Aroclor-1242 (2) [2C]			2500	393898	1000	438104	750	454141.3	500	484810	100	531970
Aroclor-1242 (3) [2C]			2500	765369.6	1000	814241	750	874140	500	894472	100	984680
Aroclor-1242 (4) [2C]			2500	737305.2	1000	827079	750	907601.3	500	978762	100	1046560
Aroclor-1242 (5) [2C]			2500	665342	1000	713173	750	750866.6	500	807302	100	883140
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Calibration: 1250001
Matrix: Water

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2)												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3)												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4)												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5)												
Aroclor-1221 (5) [2C]												
Aroclor-1221 [2C]												
Aroclor-1242	50	854.12										
Aroclor-1242 (1)	50	1231.32										
Aroclor-1242 (1) [2C]	50	1506.84										
Aroclor-1242 (2)	50	809.24										
Aroclor-1242 (2) [2C]	50	611.64										
Aroclor-1242 (3)	50	1033.66										
Aroclor-1242 (3) [2C]	50	1071.68										

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Calibration: 1250001
Matrix: Water

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Instrument: GL-ECD3
Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (4)	50	676.1										
Aroclor-1242 (4) [2C]	50	1144.66										
Aroclor-1242 (5)	50	520.28										
Aroclor-1242 (5) [2C]	50	967.78										
Aroclor-1242 [2C]	50	1060.52										
Aroclor-1254			2500	1593.385	1000	1675.9	750	1520.461	500	1514.941	100	1760.786
Aroclor-1254 (1)			2500	2181.569	1000	2213.754	750	2115.008	500	2069.622	100	2413.38
Aroclor-1254 (1) [2C]			2500	1665.312	1000	1848.402	750	1709.2	500	1824.956	100	2215.93
Aroclor-1254 (2)			2500	609.7048	1000	646.494	750	614.2546	500	620.22	100	759.06
Aroclor-1254 (2) [2C]			2500	1486.024	1000	1654.783	750	1611.873	500	1691.43	100	2067.97
Aroclor-1254 (3)			2500	1927.691	1000	1965.319	750	1867.789	500	1849.616	100	2202.79
Aroclor-1254 (3) [2C]			2500	1223.077	1000	1351.607	750	1342.195	500	1372.778	100	1685.03
Aroclor-1254 (4)			2500	1462.815	1000	1423.562	750	1352.996	500	1305.596	100	1469.41
Aroclor-1254 (4) [2C]			2500	1236.398	1000	1310.415	750	1273.376	500	1267.942	100	1544.31
Aroclor-1254 (5)			2500	1785.144	1000	2130.373	750	1652.259	500	1729.65	100	1959.29
Aroclor-1254 (5) [2C]			2500	1672.442	1000	1837.252	750	1415.377	500	1707.332	100	1794.39
Aroclor-1254 [2C]			2500	1456.651	1000	1600.492	750	1470.404	500	1572.888	100	1861.526
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1250001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	7/6/11 13:30 9/6/11 13:44

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene	200	32448.55	100	32242.9	50	31349.38	25	31091.92	10	28694.6	5	28120
Tetrachloro-m-xylene [2C]	200	21948.4	100	23206.43	50	23728.6	25	24284.12	10	24191.5	5	24046.4

INITIAL CALIBRATION DATA

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1250001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Decachlorobiphenyl	200	32755.59	100	32425.5	50	32102.1	25	33072.52	10	30752.7	5	31275.6
Decachlorobiphenyl [2C]	200	19140.21	100	19765.18	50	20192.04	25	21168.04	10	20607.5	5	21444.8

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Calibration: 1250001

Matrix: Water

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Instrument: GL-ECD3

Calibration Dates: 7/6/11 13:30 9/6/11 13:44

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Tetrachloro-m-xylene	1	26328										
Tetrachloro-m-xylene [2C]	1	23300										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1250001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	7/6/11 13:30 9/6/11 13:44

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Decachlorobiphenyl	1	30115										
Decachlorobiphenyl [2C]	1	21859										

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	013F1301.D	Calibration Date:	08/18/11 00:00
Sequence:	1F16727	Injection Date:	06/15/11
Lab Sample ID:	1F16727-ICV1	Injection Time:	16:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1093	1313.194	1435.669		9.3	20
Aroclor-1016 (2)	A	1000	946.9	484.2716	458.546		-5.3	20
Aroclor-1016 (3)	A	1000	964.1	727.4158	701.277		-3.6	20
Aroclor-1016 (4)	A	1000	960.9	729.6346	701.106		-3.9	20
Aroclor-1016 (5)	A	1000	987.1	570.2921	562.947		-1.3	20
Aroclor-1016 (1) [2C]	A	1000	940.9	1604.03	1509.212		-5.9	20
Aroclor-1016 (2) [2C]	A	1000	923.3	959.9071	886.326		-7.7	20
Aroclor-1016 (3) [2C]	A	1000	937.4	923.9359	866.112		-6.3	20
Aroclor-1016 (4) [2C]	A	1000	920.5	828.7439	762.829		-8.0	20
Aroclor-1016 (5) [2C]	A	1000	913.8	801.2113	732.147		-8.6	20
Aroclor-1260 (1)	A	1000	1001	4311.523	4315.435		0.09	20
Aroclor-1260 (2)	A	1000	1053	1902.286	2003.529		5.3	20
Aroclor-1260 (3)	A	1000	1191	2253.205	2683.726		19.1	20
Aroclor-1260 (4)	A	1000	959.2	1832.006	1757.239		-4.1	20
Aroclor-1260 (5)	A	1000	1008	1041.689	1050.036		0.8	20
Aroclor-1260 (1) [2C]	A	1000	953.2	3714.819	3540.866		-4.7	20
Aroclor-1260 (2) [2C]	A	1000	915.4	1817.694	1663.944		-8.5	20
Aroclor-1260 (3) [2C]	A	1000	929.0	2256.668	2096.335		-7.1	20
Aroclor-1260 (4) [2C]	A	1000	1048	2106.889	2208.576		4.8	20
Aroclor-1260 (5) [2C]	A	1000	941.9	1822.153	1716.221		-5.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	008F0801.D	Calibration Date:	08/18/11 00:00
Sequence:	1G18809	Injection Date:	07/06/11
Lab Sample ID:	1G18809-ICV1	Injection Time:	15:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254 (1)	A	1000	847.5	2292.719	1943.092		-15.2	20
Aroclor-1254 (2)	A	1000	806.2	693.5489	559.125		-19.4	20
Aroclor-1254 (3)	A	1000	816.0	2066.051	1685.847		-18.4	20
Aroclor-1254 (4)	A	1000	870.5	1446.243	1258.97		-12.9	20
Aroclor-1254 (5)	A	1000	767.8	1997.279	1533.6		-23.2	20 *
Aroclor-1254 (1) [2C]	L	1000	956.5	1952.343	1656.136		-4.4	20
Aroclor-1254 (2) [2C]	L	1000	939.4	1830.507	1472.581		-6.1	20
Aroclor-1254 (3) [2C]	L	1000	932.5	1494.541	1201.666		-6.8	20
Aroclor-1254 (4) [2C]	L	1000	944.0	1378.73	1194.329		-5.6	20
Aroclor-1254 (5) [2C]	L	1000	948.5	1812.816	1594.369		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25601	Instrument:	GL-ECD3
Calibration:	1240001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25601-CCV1	006F0601.D	08/22/11 17:33
Calibration Check	1I25601-CCV1	006R0601.D	08/22/11 17:33
Calibration Check 1016/1260	1I25601-CCV3	027R2701.D	08/23/11 00:05
Calibration Check	1I25601-CCV3	027F2701.D	08/23/11 00:05
Calibration Check	1I25601-CCV4	028R2801.D	08/23/11 00:23
Calibration Check 1254	1I25601-CCV4	028F2801.D	08/23/11 00:23
Blank	1H17013-BLK1	038F3801.D	08/23/11 03:30
Blank	1H17013-BLK1	038R3801.D	08/23/11 03:30
LCS	1H17013-BS1	039R3901.D	08/23/11 03:49
LCS	1H17013-BS1	039F3901.D	08/23/11 03:49
55GW04-0008-08152011	1108173-02	043R4301.D	08/23/11 05:04
55GW04-0008-08152011	1108173-02	043F4301.D	08/23/11 05:04
55GW07-0009-08152011	1108173-03	044R4401.D	08/23/11 05:23
55GW07-0009-08152011	1108173-03	044F4401.D	08/23/11 05:23
55GW03-0008-08152011	1108173-04	045F4501.D	08/23/11 05:41
55GW03-0008-08152011	1108173-04	045R4501.D	08/23/11 05:41
Calibration Check 1016/1260	1I25601-CCV5	050F5001.D	08/23/11 07:15
Calibration Check	1I25601-CCV5	050R5001.D	08/23/11 07:15
Calibration Check 1254	1I25601-CCV6	051R5101.D	08/23/11 07:33
Calibration Check	1I25601-CCV6	051F5101.D	08/23/11 07:33

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	027F2701.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV3	Injection Time:	00:05

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016 (1)	A	1000	1389	1313.194	1824.164		38.9	20	*
Aroclor-1016 (2)	A	1000	1204	484.2716	583.297		20.4	20	*
Aroclor-1016 (3)	A	1000	1085	727.4158	789.328		8.5	20	
Aroclor-1016 (4)	A	1000	1125	729.6346	820.549		12.5	20	
Aroclor-1016 (5)	A	1000	1432	570.2921	816.801		43.2	20	*
Aroclor-1016 (1) [2C]	A	1000	826.2	1604.03	1325.342		-17.4	20	
Aroclor-1016 (2) [2C]	A	1000	848.1	959.9071	814.113		-15.2	20	
Aroclor-1016 (3) [2C]	A	1000	807.6	923.9359	746.217		-19.2	20	
Aroclor-1016 (4) [2C]	A	1000	864.2	828.7439	716.173		-13.6	20	
Aroclor-1016 (5) [2C]	A	1000	914.6	801.2113	732.757		-8.5	20	
Aroclor-1260 (1)	A	1000	1146	4311.523	4943.356		14.7	20	
Aroclor-1260 (2)	A	1000	1269	1902.286	2413.767		26.9	20	*
Aroclor-1260 (3)	A	1000	1216	2253.205	2738.939		21.6	20	*
Aroclor-1260 (4)	A	1000	1052	1832.006	1927.479		5.2	20	
Aroclor-1260 (5)	A	1000	1135	1041.689	1182.184		13.5	20	
Aroclor-1260 (1) [2C]	A	1000	858.9	3714.819	3190.555		-14.1	20	
Aroclor-1260 (2) [2C]	A	1000	849.7	1817.694	1544.482		-15.0	20	
Aroclor-1260 (3) [2C]	A	1000	841.4	2256.668	1898.798		-15.9	20	
Aroclor-1260 (4) [2C]	A	1000	940.8	2106.889	1982.235		-5.9	20	
Aroclor-1260 (5) [2C]	A	1000	884.2	1822.153	1611.181		-11.6	20	
Tetrachloro-m-xylene	A	100.0	103.4	34968.44	36144.32		3.4	20	
Tetrachloro-m-xylene [2C]	Q	100.0	141.8	26183.29	27860.76		41.8	20	*
Decachlorobiphenyl	A	100.0	88.88	41093.6	36522.27		-11.1	20	
Decachlorobiphenyl [2C]	Q	100.0	147.6	23977.95	24228.66		47.6	20	*

AVG 24.7%

AVG. 16.4%

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	028F2801.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV4	Injection Time:	00:23

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1254 (1)	A	1000	1159	2292.719	2657.023		15.9	20	
Aroclor-1254 (2)	A	1000	1110	693.5489	770.023		11.0	20	
Aroclor-1254 (3)	A	1000	1176	2066.051	2430.905		17.7	20	
Aroclor-1254 (4)	A	1000	1423	1446.243	2057.761		42.3	20	*
Aroclor-1254 (5)	A	1000	1135	1997.279	2266.48		13.5	20	
Aroclor-1254 (1) [2C]	L	1000	1204	1952.343	2065.937		20.4	20	*
Aroclor-1254 (2) [2C]	L	1000	1271	1830.507	1958.406		27.1	20	*
Aroclor-1254 (3) [2C]	L	1000	1206	1494.541	1532.414		20.6	20	*
Aroclor-1254 (4) [2C]	L	1000	1322	1378.73	1659.589		32.2	20	*
Aroclor-1254 (5) [2C]	L	1000	1071	1812.816	1800.632		7.1	20	

AVG 20.1 %

AVG >20% 21.5%

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	050F5001.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV5	Injection Time:	07:15

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016 (1)	A	1000	1436	1313.194	1885.637		43.6	20 *	AVG
Aroclor-1016 (2)	A	1000	1203	484.2716	582.41		20.3	20 *	
Aroclor-1016 (3)	A	1000	1107	727.4158	805.564		10.7	20	27.5%
Aroclor-1016 (4)	A	1000	1171	729.6346	854.586		17.1	20	
Aroclor-1016 (5)	A	1000	1458	570.2921	831.587		45.8	20 *	
Aroclor-1016 (1) [2C]	A	1000	837.6	1604.03	1343.613		-16.2	20	
Aroclor-1016 (2) [2C]	A	1000	733.4	959.9071	704.024		-26.7	20 *	AVG
Aroclor-1016 (3) [2C]	A	1000	779.1	923.9359	719.838		-22.1	20 *	
Aroclor-1016 (4) [2C]	A	1000	830.0	828.7439	687.834		-17.0	20	18.8%
Aroclor-1016 (5) [2C]	A	1000	878.1	801.2113	703.564		-12.2	20	
Aroclor-1260 (1)	A	1000	1173	4311.523	5059.538		17.3	20	
Aroclor-1260 (2)	A	1000	1288	1902.286	2449.293		28.8	20 *	AVG
Aroclor-1260 (3)	A	1000	1233	2253.205	2779.3		23.3	20 *	
Aroclor-1260 (4)	A	1000	1075	1832.006	1969.194		7.5	20	18.9%
Aroclor-1260 (5)	A	1000	1174	1041.689	1222.686		17.4	20	
Aroclor-1260 (1) [2C]	A	1000	820.9	3714.819	3049.672		-17.9	20	
Aroclor-1260 (2) [2C]	A	1000	807.8	1817.694	1468.384		-19.2	20	
Aroclor-1260 (3) [2C]	A	1000	802.5	2256.668	1811.003		-19.7	20	
Aroclor-1260 (4) [2C]	A	1000	898.3	2106.889	1892.708		-10.2	20	
Aroclor-1260 (5) [2C]	A	1000	843.7	1822.153	1537.389		-15.6	20	
Tetrachloro-m-xylene	A	100.0	104.2	34968.44	36434.52		4.2	20	
Tetrachloro-m-xylene [2C]	Q	100.0	133.9	26183.29	26596.75		33.9	20 *	
Decachlorobiphenyl	A	100.0	92.96	41093.6	38198.85		-7.0	20	
Decachlorobiphenyl [2C]	Q	100.0	144.8	23977.95	23905.11		44.8	20 *	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1240001
Lab File ID:	051F5101.D	Calibration Date:	08/18/11 00:00
Sequence:	1I25601	Injection Date:	08/23/11
Lab Sample ID:	1I25601-CCV6	Injection Time:	07:33

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1182	2292.719	2709.284		18.2	20
Aroclor-1254 (2)	A	1000	1118	693.5489	775.234		11.8	20
Aroclor-1254 (3)	A	1000	1195	2066.051	2469.2		19.5	20
Aroclor-1254 (4)	A	1000	1502	1446.243	2172.194		50.2	20 *
Aroclor-1254 (5)	A	1000	1134	1997.279	2265.041		13.4	20
Aroclor-1254 (1) [2C]	L	1000	1144	1952.343	1965.75		14.4	20
Aroclor-1254 (2) [2C]	L	1000	1200	1830.507	1854.242		20.0	20
Aroclor-1254 (3) [2C]	L	1000	1139	1494.541	1450.663		13.9	20
Aroclor-1254 (4) [2C]	L	1000	1252	1378.73	1573.491		25.2	20 *
Aroclor-1254 (5) [2C]	L	1000	1013	1812.816	1702.617		1.3	20

AVG 22.6%

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I26002	Instrument:	GL-ECD3
Calibration:	1250001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check 1016/1260	1I26002-CCV1	006R0601.D	09/09/11 11:29
Calibration Check	1I26002-CCV1	006F0601.D	09/09/11 11:29
55GW09-0008-08152011	1108173-06	007R0701.D	09/09/11 11:48
55GW09-0008-08152011	1108173-06	007F0701.D	09/09/11 11:48
Calibration Check 1016/1263	1I26002-CCV2	030R3001.D	09/09/11 18:57
Calibration Check	1I26002-CCV2	030F3001.D	09/09/11 18:57

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1250001
Lab File ID:	006F0601.D	Calibration Date:	09/06/11 00:00
Sequence:	1I26002	Injection Date:	09/09/11
Lab Sample ID:	1I26002-CCV1	Injection Time:	11:29

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016 (1)	L	1000	1201	1848.906	1687.435		20.1	20 *	AVG
Aroclor-1016 (2)	L	1000	1230	709.958	826.053		23.0	20 *	>20%
Aroclor-1016 (3)	L	1000	1232	699.4579	812.866		23.2	20 *	
Aroclor-1016 (4)	L	1000	1266	1009.497	1214.343		26.6	20 *	23.4%
Aroclor-1016 (5)	L	1000	1240	675.0696	811.842		24.0	20 *	
Aroclor-1016 (1) [2C]	A	1000	1227	1046.325	1284.358		22.7	20 *	
Aroclor-1016 (2) [2C]	A	1000	1198	573.6751	687.558		19.9	20	
Aroclor-1016 (3) [2C]	A	1000	1149	826.3927	949.43		14.9	20	AVG
Aroclor-1016 (4) [2C]	A	1000	1208	564.1648	681.288		20.8	20 *	19.1%
Aroclor-1016 (5) [2C]	A	1000	1174	602.4543	707.445		17.4	20	
Aroclor-1260 (1)	A	1000	1155	3590.617	4148.898		15.5	20	
Aroclor-1260 (2)	A	1000	1130	1927.506	2177.765		13.0	20	
Aroclor-1260 (3)	A	1000	1171	2089.305	2447.047		17.1	20	
Aroclor-1260 (4)	A	1000	1152	1485.512	1711.387		15.2	20	
Aroclor-1260 (5)	A	1000	1093	993.153	1085.454		9.3	20	
Aroclor-1260 (1) [2C]	A	1000	1166	2610.749	3043.294		16.6	20	
Aroclor-1260 (2) [2C]	A	1000	1157	1521.312	1759.86		15.7	20	
Aroclor-1260 (3) [2C]	A	1000	1153	1413.996	1630.377		15.3	20	
Aroclor-1260 (4) [2C]	A	1000	1169	1565.017	1829.876		16.9	20	
Aroclor-1260 (5) [2C]	A	1000	1149	1149.291	1320.962		14.9	20	
Tetrachloro-m-xylene	A	100.0	121.1	30039.34	36377.29		21.1	20 *	
Tetrachloro-m-xylene [2C]	A	100.0	112.8	23529.35	26544.43		12.8	20	
Decachlorobiphenyl	A	100.0	110.3	31785.57	35064.72		10.3	20	
Decachlorobiphenyl [2C]	A	100.0	107.3	20596.68	22100.34		7.3	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Instrument ID:	GL-ECD3	Calibration:	1250001
Lab File ID:	030F3001.D	Calibration Date:	09/06/11 00:00
Sequence:	1I26002	Injection Date:	09/09/11
Lab Sample ID:	1I26002-CCV2	Injection Time:	18:57

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016 (1)	L	1000	1300	1848.906	1819.185		30.0	20	*
Aroclor-1016 (2)	L	1000	1258	709.958	844.791		25.8	20	*
Aroclor-1016 (3)	L	1000	1271	699.4579	838.272		27.1	20	*
Aroclor-1016 (4)	L	1000	1300	1009.497	1247.303		30.0	20	*
Aroclor-1016 (5)	L	1000	1288	675.0696	843.576		28.8	20	*
Aroclor-1016 (1) [2C]	A	1000	1255	1046.325	1313.577		25.5	20	*
Aroclor-1016 (2) [2C]	A	1000	1244	573.6751	713.778		24.4	20	*
Aroclor-1016 (3) [2C]	A	1000	1265	826.3927	1045.498		26.5	20	*
Aroclor-1016 (4) [2C]	A	1000	1256	564.1648	708.809		25.6	20	*
Aroclor-1016 (5) [2C]	A	1000	1221	602.4543	735.572		22.1	20	*
Aroclor-1260 (1)	A	1000	1202	3590.617	4317.95		20.3	20	*
Aroclor-1260 (2)	A	1000	1170	1927.506	2254.982		17.0	20	
Aroclor-1260 (3)	A	1000	1217	2089.305	2542.489		21.7	20	*
Aroclor-1260 (4)	A	1000	1193	1485.512	1772.675		19.3	20	
Aroclor-1260 (5)	A	1000	1175	993.153	1167.373		17.5	20	
Aroclor-1260 (1) [2C]	A	1000	1200	2610.749	3133.056		20.0	20	
Aroclor-1260 (2) [2C]	A	1000	1195	1521.312	1817.894		19.5	20	
Aroclor-1260 (3) [2C]	A	1000	1185	1413.996	1675.631		18.5	20	
Aroclor-1260 (4) [2C]	A	1000	1195	1565.017	1869.749		19.5	20	
Aroclor-1260 (5) [2C]	A	1000	1178	1149.291	1353.857		17.8	20	
Tetrachloro-m-xylene	A	100.0	125.5	30039.34	37699		25.5	20	*
Tetrachloro-m-xylene [2C]	A	100.0	117.0	23529.35	27528.29		17.0	20	
Decachlorobiphenyl	A	100.0	112.9	31785.57	35892.46		12.9	20	
Decachlorobiphenyl [2C]	A	100.0	108.7	20596.68	22395.93		8.7	20	

AVG >20% 28.3%

AVG 72.0% 24.8%

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H17013 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55GW04-0008-08152011	1108173-02	08/18/11 13:05	1,060.00	10.00
55GW07-0009-08152011	1108173-03	08/18/11 13:05	1,040.00	10.00
55GW03-0008-08152011	1108173-04	08/18/11 13:05	1,060.00	10.00
55GW09-0008-08152011	1108173-06	08/18/11 13:05	1,020.00	10.00
Blank	1H17013-BLK1	08/17/11 16:56	1,000.00	10.00
LCS	1H17013-BS1	08/17/11 16:56	1,000.00	10.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1108173	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	NAS Jacksonville CTOJM19	
Matrix:		Laboratory ID:	1H17013-BLK1	File ID:	038R3801.D
Sampled:		Prepared:	08/17/11 16:56	Analyzed:	08/23/11 03:30
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1H17013 Sequence: 1I25601 Calibration: 1240001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	UX
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U
37324-23-5	Aroclor-1262		0.120	0.250	0.500	U
11100-14-4	Aroclor-1268		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3652	73.0	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.4805	96.1	25 - 140	X
Decachlorobiphenyl	0.5000	0.2014	40.3	40 - 135	
Decachlorobiphenyl [2C]	0.5000	0.2597	51.9	40 - 135	X

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H17013	Laboratory ID:	1H17013-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	5.000	6.164	123	25 - 145
Aroclor-1016 [2C]	5.000	4.348	87.0	25 - 145
Aroclor-1260	5.000	4.804	96.1	30 - 145
Aroclor-1260 [2C]	5.000	4.184	83.7	30 - 145

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25601	Instrument:	GL-ECD3
		Calibration:	1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25601-CCV1) ug/L				Lab File ID: 006F0601.D		Analyzed: 08/22/11 17:33		
Tetrachloro-m-xylene	100.0	97.4	80 - 120	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	94.7	80 - 120	4.153	4.153	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	86.8	80 - 120	11.14	11.14	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	94.3	80 - 120	9.321	9.321	0.0000	+/-0.030	
Calibration Check (1I25601-CCV3) ug/L				Lab File ID: 027F2701.D		Analyzed: 08/23/11 00:05		
Tetrachloro-m-xylene	100.0	103	80 - 120	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	142	80 - 120	4.152	4.153	-0.0010	+/-0.030	*
Decachlorobiphenyl	100.0	88.9	80 - 120	11.138	11.14	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	148	80 - 120	9.319	9.321	-0.0020	+/-0.030	*
Blank (1H17013-BLK1) ug/L				Lab File ID: 038F3801.D		Analyzed: 08/23/11 03:30		
Tetrachloro-m-xylene	0.5000	73.0	25 - 140	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	96.1	25 - 140	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	0.5000	40.3	40 - 135	11.137	11.14	-0.0030	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	51.9	40 - 135	9.318	9.321	-0.0030	+/-0.030	
LCS (1H17013-BS1) ug/L				Lab File ID: 039F3901.D		Analyzed: 08/23/11 03:49		
Tetrachloro-m-xylene	0.5000	63.4	25 - 140	5.09	5.09	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	83.1	25 - 140	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	0.5000	27.2	40 - 135	11.137	11.14	-0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	32.1	40 - 135	9.318	9.321	-0.0030	+/-0.030	*
55GW04-0008-08152011 (1108173-02) ug/L				Lab File ID: 043F4301.D		Analyzed: 08/23/11 05:04		
Tetrachloro-m-xylene	0.4717	61.9	25 - 140	5.091	5.09	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4717	73.2	25 - 140	4.152	4.153	-0.0010	+/-0.030	
Decachlorobiphenyl	0.4717	31.1	40 - 135	11.136	11.14	-0.0040	+/-0.030	*
Decachlorobiphenyl [2C]	0.4717	31.2	40 - 135	9.317	9.321	-0.0040	+/-0.030	*
55GW07-0009-08152011 (1108173-03) ug/L				Lab File ID: 044F4401.D		Analyzed: 08/23/11 05:23		
Tetrachloro-m-xylene	0.4808	78.2	25 - 140	5.088	5.09	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4808	95.3	25 - 140	4.15	4.153	-0.0030	+/-0.030	
Decachlorobiphenyl	0.4808	53.3	40 - 135	11.138	11.14	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	0.4808	60.7	40 - 135	9.317	9.321	-0.0040	+/-0.030	
55GW03-0008-08152011 (1108173-04) ug/L				Lab File ID: 045F4501.D		Analyzed: 08/23/11 05:41		
Tetrachloro-m-xylene	0.4717	68.6	25 - 140	5.089	5.09	-0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4717	81.3	25 - 140	4.151	4.153	-0.0020	+/-0.030	
Decachlorobiphenyl	0.4717	19.1	40 - 135	11.135	11.14	-0.0050	+/-0.030	*
Decachlorobiphenyl [2C]	0.4717	19.4	40 - 135	9.316	9.321	-0.0050	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I25601	Instrument:	GL-ECD3
		Calibration:	1240001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25601-CCV5) ug/L				Lab File ID: 050F5001.D		Analyzed: 08/23/11 07:15		
Tetrachloro-m-xylene	100.0	104	80 - 120	5.088	5.09	-0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	134	80 - 120	4.15	4.153	-0.0030	+/-0.030	*
Decachlorobiphenyl	100.0	93.0	80 - 120	11.136	11.14	-0.0040	+/-0.030	
Decachlorobiphenyl [2C]	100.0	145	80 - 120	9.315	9.321	-0.0060	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1I26002	Instrument:	GL-ECD3
		Calibration:	1250001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I26002-CCV1) ug/L				Lab File ID: 006F0601.D		Analyzed: 09/09/11 11:29		
Tetrachloro-m-xylene	100.0	121	80 - 120	6.218	6.218	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	100.0	113	80 - 120	5.496	5.496	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	110	80 - 120	12.847	12.847	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	107	80 - 120	11.704	11.704	0.0000	+/-0.030	
55GW09-0008-08152011 (1108173-06) ug/L				Lab File ID: 007F0701.D		Analyzed: 09/09/11 11:48		
Tetrachloro-m-xylene	0.4902	83.6	25 - 140	6.218	6.218	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4902	85.0	25 - 140	5.495	5.496	-0.0010	+/-0.030	
Decachlorobiphenyl	0.4902	40.1	40 - 135	12.846	12.847	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	0.4902	41.6	40 - 135	11.705	11.704	0.0010	+/-0.030	
Calibration Check (1I26002-CCV2) ug/L				Lab File ID: 030F3001.D		Analyzed: 09/09/11 18:57		
Tetrachloro-m-xylene	100.0	126	80 - 120	6.217	6.218	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	100.0	117	80 - 120	5.495	5.496	-0.0010	+/-0.030	
Decachlorobiphenyl	100.0	113	80 - 120	12.845	12.847	-0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	109	80 - 120	11.703	11.704	-0.0010	+/-0.030	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Matrix: Water

Instrument: GL-ECD3

Analyte	MDL	MRL	Units	Method
Aroclor-1016	0.120	0.500	ug/L	SW8082A
Aroclor-1221	0.120	0.500	ug/L	SW8082A
Aroclor-1232	0.120	0.500	ug/L	SW8082A
Aroclor-1242	0.120	0.500	ug/L	SW8082A
Aroclor-1248	0.120	0.500	ug/L	SW8082A
Aroclor-1254	0.120	0.500	ug/L	SW8082A
Aroclor-1260	0.120	0.500	ug/L	SW8082A
Aroclor-1262	0.120	0.500	ug/L	SW8082A
Aroclor-1268	0.120	0.500	ug/L	SW8082A

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT NAS Jacksonville		JOB NUMBER 02686	
SUBJECT Calculation Check SDG 1108173			
BASED ON		DRAWING NUMBER	
BY J. Kalinyak	CHECKED BY	APPROVED BY	DATE 10/10/11

VOC - Methyl tert-butyl ether Sample - 55GW09-0008-[illegible]

$$\frac{4895 \times 30\,\mu g/l}{10937.00 \times 0.4254} \times \frac{5\,ml}{5\,ml} \simeq 0.3156\,\mu g/l$$

Data File: \\ELABNSH05\TARGET\chem\voa4.i\081811V4.b\0817306.D
Report Date: 19-Aug-2011 07:16

VOC

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa4.i\081811V4.b\0817306.D
Lab Smp Id: 1108173-06 Client Smp ID: 55GW09-0008-0815201
Inj Date : 18-AUG-2011 18:05 MS Autotune Date: 15-JUL-2010 14:27
Operator : ADM Inst ID: voa4.i
Smp Info : 1108173-06;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa4.i\081811V4.b\VW4SUR.m
Meth Date : 19-Aug-2011 07:14 amonteiro Quant Type: ISTD
Cal Date : 16-AUG-2011 13:47 Cal File: SEQ-CAL9.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: ~~Amt * DF~~ * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

m 8/19/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	8.021	8.013	(1.000)	1093700	30.0000	
19 Methylene chloride	84	4.853	4.836	(0.605)	2004	0.25346	0.2535(a)
23 MTBE	73	5.492	5.495	(0.685)	4895	0.31563	0.3156(a)
$ 41 Dibromofluoromethane	111	6.997	7.000	(0.872)	327716	29.7012	29.70
$ 45 1,2-Dichloroethane-d4	102	7.499	7.492	(0.935)	69191	29.5428	29.54
$ 75 Toluene-d8	98	9.713	9.705	(0.872)	986589	31.3765	31.38
* 86 Chlorobenzene-d5	82	11.139	11.132	(1.000)	350932	30.0000	
$ 99 Bromofluorobenzene	95	12.329	12.322	(1.107)	390006	30.7329	30.73
* 112 1,4-Dichlorobenzene-d4	152	13.530	13.532	(1.000)	385873	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

8/19/11

INITIAL CALIBRATION DATA (Continued)

SW8260B

VOC

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	0.9629043	6.089999	13.55589	2.527918E-02			15	
Dichlorodifluoromethane	0.1987127	9.670187	2.086333	0.1556681			15	
1,1-Dichloroethane	0.2268701	12.8994	5.867333	6.373268E-02			SPCC (0.1)	
1,2-Dichloroethane	0.267094	8.004438	7.579	4.916251E-02			15	
1,1-Dichloroethene	0.1984207	6.970958	4.357667	0.1067224			CCC (20)	
cis-1,2-Dichloroethene	0.2557099	7.991322	6.574556	9.663746E-02			15	
trans-1,2-Dichloroethene	0.2297347	7.115709	5.497889	5.579666E-02			15	
1,2-Dichloroethene (total)	0.2427223	7.394184	0	0			15	
1,2-Dichloropropane	0.1055341	7.77866	8.554	3.834985E-02			CCC (20)	
1,3-Dichloropropane	0.702035	10.03236	10.13889	4.188439E-02			15	
2,2-Dichloropropane	0.2311142	6.341311	6.678333	4.411985E-02			15	
1,1-Dichloropropene	0.1957866	7.70324	7.599778	4.556141E-02			15	
cis-1,3-Dichloropropene	0.2482491	6.668519	9.300666	3.663101E-02			15	
trans-1,3-Dichloropropene	0.8209591	6.982319	9.773778	0.0402609			15	
Diisopropyl Ether	0.4547504	10.59161	6.232333	0.0560336			15	
Ethylbenzene	2.499288	5.336849	11.31289	2.764937E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.4537613	9.160568	6.693667	7.053838E-02			15	
Ethyl Methacrylate	0.4702449	10.45766	9.958556	4.578157E-02			15	
Hexachlorobutadiene	0.1319488	9.075327	15.87967	1.575122E-02			15	
2-Hexanone	0.2701311	10.39731	10.07222	2.635162E-02			15	
Iodomethane	0.2456327	24.97849	4.548	0.1111788	0.9978509		0.995	
Isopropylbenzene	2.094953	4.044991	12.21256	3.350027E-02			15	
p-Isopropyltoluene	1.243997	4.758068	13.511	2.693563E-02			15	
Methylene chloride	0.2168724	8.428011	4.8335	0.1010171			15	
Methyl Acetate	0.1035201	11.29133	4.699889	0.2067483			15	
Methylcyclohexane	0.1499832	9.202679	8.883111	3.057022E-02			15	
Naphthalene	0.9149282	7.60523	15.75289	1.969426E-02			15	
Methyl Methacrylate	0.1448001	8.412517	8.682889	4.802117E-02			15	
4-Methyl-2-pentanone	0.1267146	8.123145	9.221778	3.968653E-02			15	
Methyl t-Butyl Ether	0.4253933	9.427374	5.487	6.647796E-02			15	
n-Propylbenzene	2.070466	5.075536	12.62011	2.411476E-02			15	
Styrene	1.924134	6.123119	11.78633	0.0361033			15	

NAS JACKSONVILLE
WATER DATA
1108173

FRACTION	CHEMICAL	55GW03-0008-08152011D	UNITS	55GW03-0008-08152011	RPD	D
OV	ACETONE	4.23 J	UG/L	4 J	5.59	0.23

Current RPD Quality Control Limit: 30 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**A. PATE**	**DATE:**	**OCTOBER 12, 2011**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS**
CTO JM19 NAS JACKSONVILLE
SAMPLE DELIVERY GROUP (SDG) – 1108173

SAMPLES: 5/Aqueous/

55-FB-08152011
55GW04-0008-08152011
55GW09-0008-08152011
55GW03-0008-08152011
55GW07-0009-08152011

Overview

The sample set for NAS Jacksonville, CTO JM19, SDG 1108173, consists of four (4) aqueous environmental samples and one (1) field blank (55-FB-08152011). No field duplicate pairs were included within this SDG.

All samples were analyzed for target analyte list (TAL) metals. The samples were collected by Tetra Tech on August 15, 2011 and analyzed by Empirical laboratories, LLC. under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals analyses were conducted using SW-846 6010C. Mercury analyses were conducted using SW-846 method 7470A.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial / Continuing Calibration Verification Results
* • Laboratory Method/Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Laboratory Control Sample Results
* • Detection Limits
* • Analyte Quantitation

* - All quality control criteria were met for this parameter.

Notes

Positive results reported below the limit of quantitation (LOQ) but above the method detection limit (MDL) were qualified as estimated, "J".

Nondetected results are reported to the method detection limit.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: Positive results reported below the RL but above the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", April 2009.

The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech NUS
Terri L. Solomon
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 = ICP PDS Recovery Noncompliance; 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 = RPD between columns/detectors >40% 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
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02686	NSAMPLE	55-FB-08152011			55GW03-0008-08152011			55GW04-0008-08152011			55GW07-0009-08152011		
SDG: 1108173	LAB_ID	1108173-01			1108173-04			1108173-02			1108173-03		
FRACTION: M	SAMP_DATE	8/15/2011			8/15/2011			8/15/2011			8/15/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		12.5	U		8970			5760			582		
ANTIMONY		1.25	U		6.25	U		6.25	U		2.5	U	
ARSENIC		0.75	U		42.3			78.3			2.96	J	P
BARIUM		1.25	U		71.2			54.4			33.2		
BERYLLIUM		0.25	U		1.51	J	P	1.25	U		0.5	U	
CADMIUM		0.25	U		1.25	U		1.25	U		2.5	U	
CALCIUM		250	U		188000			318000			169000		
CHROMIUM		0.5	U		19			10.1	J	P	5	U	
COBALT		1.25	U		6.25	U		6.25	U		2.5	U	
COPPER		1	U		5	U		5	U		2	U	
IRON		7.5	U		73500			30100			838		
LEAD		0.375	U		9.6			4.12			3.75	U	
MAGNESIUM		250	U		25200			104000			466000		
MANGANESE		0.75	U		1060			3150			38.6		
MERCURY		0.08	U		0.08	U		0.08	U		0.08	U	
NICKEL		0.75	U		6.15	J	P	4.32	J	P	1.5	U	
POTASSIUM		250	U		6720			9870			157000		
SELENIUM		0.75	U		3.75	U		3.75	U		1.5	U	
SILVER		0.25	U		1.25	U		1.25	U		0.5	U	
SODIUM		250	U		23000			155000			3800000		
THALLIUM		0.75	U		3.75	U		3.75	U		1.5	U	
VANADIUM		1.25	U		26.6			17.8			4.55	J	P
ZINC		1.25	U		24.3	J	P	12	J	P	12.5	U	

PROJ_NO: 02686	NSAMPLE	55GW09-0008-08152011		
SDG: 1108173	LAB_ID	1108173-06		
FRACTION: M	SAMP_DATE	8/15/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
ALUMINUM		690		
ANTIMONY		2.5	U	
ARSENIC		1.65	J	P
BARIUM		53.2		
BERYLLIUM		0.5	U	
CADMIUM		0.5	U	
CALCIUM		184000		
CHROMIUM		1	U	
COBALT		2.5	U	
COPPER		2	U	
IRON		2070		
LEAD		0.75	U	
MAGNESIUM		61600		
MANGANESE		384		
MERCURY		0.08	U	
NICKEL		1.5	U	
POTASSIUM		13400		
SELENIUM		1.5	U	
SILVER		0.5	U	
SODIUM		233000		
THALLIUM		1.5	U	
VANADIUM		2.5	U	
ZINC		2.5	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

ANALYSIS DATA SHEET

55-FB-08152011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/15/11 08:00
% Solids: 0.00

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108173-01
Received: 08/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H26009	08/26/11 12:37
7429-90-5	Aluminum		12.5	25.0	50.0	1	U	SW6010C	1H22924	08/23/11 15:46
7440-36-0	Antimony		1.25	2.00	2.50	1	U	SW6010C	1H22924	08/23/11 15:46
7440-38-2	Arsenic		0.750	1.50	2.50	1	X U	SW6010C	1H22924	08/23/11 15:46
7440-39-3	Barium		1.25	2.50	10.0	1	U	SW6010C	1H22924	08/23/11 15:46
7440-41-7	Beryllium		0.250	0.500	1.25	1	U	SW6010C	1H22924	08/23/11 15:46
7440-43-9	Cadmium		0.250	0.500	1.25	1	U	SW6010C	1H22924	08/23/11 15:46
7440-70-2	Calcium		250	500	1250	1	U	SW6010C	1H22924	08/23/11 15:46
7440-47-3	Chromium		0.500	1.00	2.50	1	U	SW6010C	1H22924	08/23/11 15:46
7440-48-4	Cobalt		1.25	2.50	3.12	1	U	SW6010C	1H22924	08/23/11 15:46
7440-50-8	Copper		1.00	2.00	2.50	1	U	SW6010C	1H22924	08/23/11 15:46
7439-89-6	Iron		7.50	15.0	25.0	1	U	SW6010C	1H22924	08/23/11 15:46
7439-92-1	Lead		0.375	0.750	0.750	1	U	SW6010C	1H22924	08/23/11 15:46
7439-95-4	Magnesium		250	750	1250	1	U	SW6010C	1H22924	08/23/11 15:46
7439-96-5	Manganese		0.750	1.50	3.75	1	U	SW6010C	1H22924	08/23/11 15:46
7440-02-0	Nickel		0.750	1.50	2.50	1	U	SW6010C	1H22924	08/23/11 15:46
7440-09-7	Potassium		250	750	1250	1	U	SW6010C	1H22924	08/23/11 15:46
7782-49-2	Selenium		0.750	1.25	2.50	1	U	SW6010C	1H22924	08/23/11 15:46
7440-22-4	Silver		0.250	0.500	2.50	1	U	SW6010C	1H22924	08/23/11 15:46
7440-23-5	Sodium		250	750	1250	1	U	SW6010C	1H22924	08/23/11 15:46
7440-28-0	Thallium		0.750	1.00	2.00	1	U	SW6010C	1H22924	08/23/11 15:46
7440-62-2	Vanadium		1.25	2.50	3.12	1	U	SW6010C	1H22924	08/23/11 15:46
7440-66-6	Zinc		1.25	2.50	5.00	1	U	SW6010C	1H22924	08/23/11 15:46

ANALYSIS DATA SHEET

55GW03-0008-08152011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/15/11 10:50
% Solids: 0.00

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108173-04
Received: 08/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H26009	08/26/11 12:42
7429-90-5	Aluminum	8970	62.5	125	250	5	D	SW6010C	1H22924	08/24/11 15:11
7440-36-0	Antimony		6.25	10.0	12.5	5	U	SW6010C	1H22924	08/24/11 15:11
7440-38-2	Arsenic	42.3	3.75	7.50	12.5	5	D	SW6010C	1H22924	08/24/11 15:11
7440-39-3	Barium	71.2	6.25	12.5	50.0	5	D	SW6010C	1H22924	08/24/11 15:11
7440-41-7	Beryllium	1.51	1.25	2.50	6.25	5	D1	SW6010C	1H22924	08/24/11 15:11
7440-43-9	Cadmium		1.25	2.50	6.25	5	U	SW6010C	1H22924	08/24/11 15:11
7440-70-2	Calcium	188000	1250	2500	6250	5	D	SW6010C	1H22924	08/24/11 15:11
7440-47-3	Chromium	19.0	2.50	5.00	12.5	5	D	SW6010C	1H22924	08/24/11 15:11
7440-48-4	Cobalt		6.25	12.5	15.6	5	U	SW6010C	1H22924	08/24/11 15:11
7440-50-8	Copper		5.00	10.0	12.5	5	U	SW6010C	1H22924	08/24/11 15:11
7439-89-6	Iron	73500	37.5	75.0	125	5	D	SW6010C	1H22924	08/24/11 15:11
7439-92-1	Lead	9.60	1.88	3.75	3.75	5	D	SW6010C	1H22924	08/24/11 15:11
7439-95-4	Magnesium	25200	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 15:11
7439-96-5	Manganese	1060	3.75	7.50	18.8	5	D	SW6010C	1H22924	08/24/11 15:11
7440-02-0	Nickel	6.15	3.75	7.50	12.5	5	D1	SW6010C	1H22924	08/24/11 15:11
7440-09-7	Potassium	6720	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 15:11
7782-49-2	Selenium		3.75	6.25	12.5	5	U	SW6010C	1H22924	08/24/11 15:11
7440-22-4	Silver		1.25	2.50	12.5	5	U	SW6010C	1H22924	08/24/11 15:11
7440-23-5	Sodium	23000	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 15:11
7440-28-0	Thallium		3.75	5.00	10.0	5	U	SW6010C	1H22924	08/24/11 15:11
7440-62-2	Vanadium	26.6	6.25	12.5	15.6	5	D	SW6010C	1H22924	08/24/11 15:11
7440-66-6	Zinc	24.3	6.25	12.5	25.0	5	D1	SW6010C	1H22924	08/24/11 15:11

ANALYSIS DATA SHEET

55GW04-0008-08152011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/15/11 08:50
% Solids: 0.00

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108173-02
Received: 08/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H26009	08/26/11 12:38
7429-90-5	Aluminum	5760	62.5	125	250	5	D	SW6010C	1H22924	08/24/11 15:01
7440-36-0	Antimony		6.25	10.0	12.5	5	U	SW6010C	1H22924	08/24/11 15:01
7440-38-2	Arsenic	78.3	3.75	7.50	12.5	5	D	SW6010C	1H22924	08/24/11 15:01
7440-39-3	Barium	54.4	6.25	12.5	50.0	5	D	SW6010C	1H22924	08/24/11 15:01
7440-41-7	Beryllium		1.25	2.50	6.25	5	U	SW6010C	1H22924	08/24/11 15:01
7440-43-9	Cadmium		1.25	2.50	6.25	5	U	SW6010C	1H22924	08/24/11 15:01
7440-70-2	Calcium	318000	1250	2500	6250	5	D	SW6010C	1H22924	08/24/11 15:01
7440-47-3	Chromium	10.1	2.50	5.00	12.5	5	D I	SW6010C	1H22924	08/24/11 15:01
7440-48-4	Cobalt		6.25	12.5	15.6	5	U	SW6010C	1H22924	08/24/11 15:01
7440-50-8	Copper		5.00	10.0	12.5	5	U	SW6010C	1H22924	08/24/11 15:01
7439-89-6	Iron	30100	37.5	75.0	125	5	D	SW6010C	1H22924	08/24/11 15:01
7439-92-1	Lead	4.12	1.88	3.75	3.75	5	D	SW6010C	1H22924	08/24/11 15:01
7439-95-4	Magnesium	104000	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 15:01
7439-96-5	Manganese	3150	3.75	7.50	18.8	5	D	SW6010C	1H22924	08/24/11 15:01
7440-02-0	Nickel	4.32	3.75	7.50	12.5	5	D I	SW6010C	1H22924	08/24/11 15:01
7440-09-7	Potassium	9870	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 15:01
7782-49-2	Selenium		3.75	6.25	12.5	5	U	SW6010C	1H22924	08/24/11 15:01
7440-22-4	Silver		1.25	2.50	12.5	5	U	SW6010C	1H22924	08/24/11 15:01
7440-23-5	Sodium	155000	1250	3750	6250	5	D	SW6010C	1H22924	08/24/11 15:01
7440-28-0	Thallium		3.75	5.00	10.0	5	U	SW6010C	1H22924	08/24/11 15:01
7440-62-2	Vanadium	17.8	6.25	12.5	15.6	5	D	SW6010C	1H22924	08/24/11 15:01
7440-66-6	Zinc	12.0	6.25	12.5	25.0	5	D I	SW6010C	1H22924	08/24/11 15:01

ANALYSIS DATA SHEET

55GW07-0009-08152011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/15/11 09:50
% Solids: 0.00

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108173-03
Received: 08/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H26009	08/26/11 12:39
7429-90-5	Aluminum	582	25.0	50.0	100	2	D	SW6010C	1H22924	08/24/11 15:06
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:06
7440-38-2	Arsenic	2.96	1.50	3.00	5.00	2	D1	SW6010C	1H22924	08/24/11 15:06
7440-39-3	Barium	33.2	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/24/11 15:06
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/24/11 15:06
7440-43-9	Cadmium		2.50	5.00	12.5	10	U	SW6010C	1H22924	08/24/11 14:21
7440-70-2	Calcium	169000	500	1000	2500	2	D	SW6010C	1H22924	08/24/11 15:06
7440-47-3	Chromium		5.00	10.0	25.0	10	U	SW6010C	1H22924	08/24/11 14:21
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/24/11 15:06
7440-50-8	Copper		2.00	4.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:06
7439-89-6	Iron	838	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/24/11 15:06
7439-92-1	Lead		3.75	7.50	7.50	10	U	SW6010C	1H22924	08/24/11 14:21
7439-95-4	Magnesium	466000	2500	7500	12500	10	D	SW6010C	1H22924	08/24/11 14:21
7439-96-5	Manganese	38.6	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/24/11 15:06
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:06
7440-09-7	Potassium	157000	2500	7500	12500	10	D	SW6010C	1H22924	08/24/11 14:21
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/24/11 15:06
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:06
7440-23-5	Sodium	3800000	12500	37500	62500	50	D	SW6010C	1H22924	08/24/11 14:38
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/24/11 15:06
7440-62-2	Vanadium	4.55	2.50	5.00	6.25	2	D1	SW6010C	1H22924	08/24/11 15:06
7440-66-6	Zinc		12.5	25.0	50.0	10	U	SW6010C	1H22924	08/24/11 14:21

ANALYSIS DATA SHEET

55GW09-0008-08152011

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 08/15/11 11:50
% Solids: 0.00

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Laboratory ID: 1108173-06
Received: 08/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1H26009	08/26/11 12:44
7429-90-5	Aluminum	690	25.0	50.0	100	2	D	SW6010C	1H22924	08/24/11 15:16
7440-36-0	Antimony		2.50	4.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:16
7440-38-2	Arsenic	1.65	1.50	3.00	5.00	2	D1	SW6010C	1H22924	08/24/11 15:16
7440-39-3	Barium	53.2	2.50	5.00	20.0	2	D	SW6010C	1H22924	08/24/11 15:16
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/24/11 15:16
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1H22924	08/24/11 15:16
7440-70-2	Calcium	184000	500	1000	2500	2	D	SW6010C	1H22924	08/24/11 15:16
7440-47-3	Chromium		1.00	2.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:16
7440-48-4	Cobalt		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/24/11 15:16
7440-50-8	Copper		2.00	4.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:16
7439-89-6	Iron	2070	15.0	30.0	50.0	2	D	SW6010C	1H22924	08/24/11 15:16
7439-92-1	Lead		0.750	1.50	1.50	2	U	SW6010C	1H22924	08/24/11 15:16
7439-95-4	Magnesium	61600	500	1500	2500	2	D	SW6010C	1H22924	08/24/11 15:16
7439-96-5	Manganese	384	1.50	3.00	7.50	2	D	SW6010C	1H22924	08/24/11 15:16
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:16
7440-09-7	Potassium	13400	500	1500	2500	2	D	SW6010C	1H22924	08/24/11 15:16
7782-49-2	Selenium		1.50	2.50	5.00	2	U	SW6010C	1H22924	08/24/11 15:16
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1H22924	08/24/11 15:16
7440-23-5	Sodium	233000	500	1500	2500	2	D	SW6010C	1H22924	08/24/11 15:16
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1H22924	08/24/11 15:16
7440-62-2	Vanadium		2.50	5.00	6.25	2	U	SW6010C	1H22924	08/24/11 15:16
7440-66-6	Zinc		2.50	5.00	10.0	2	U	SW6010C	1H22924	08/24/11 15:16

APPENDIX C
SUPPORT DOCUMENTATION

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The continuing calibration verification 1H23101-CCV1 exceeded criteria with a positive bias for Dichlorodifluoromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in 108173-02, -03, -04, -05, -06 1H16013-BLK1, and -BSD1. The surrogate 2,4,6-Tribromophenol

exceeded criteria with a negative bias in sample 1108173-03.

The batch spikes associated to batch 1H16013 exceeded criteria with a negative bias for Caprolactam, 2-Methylphenol, 2,3,4,6-Tetrchlorophenol, 4-Chloro-3-methylphenol, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol and with a positive bias for Butylbenzylphthalate, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verification 1I25004-CCV1 exceeded criteria with a positive bias Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogate Decachlorobiphenyl exceeded criteria with a negative bias in 1108173-02, -04, and 1H17013-BS1.

The continuing calibration verifications exceeded criteria in 1I25601-CCV1 with a negative bias on column 2 for Aroclor-1016 and -1260, in 1I25601-CCV3 and –CCV5 with a positive bias on column 1 for Aroclor-1016 and on column 2 for Tetrachloro-m-xylene and Decachlorobiphenyl, in 1I25601-CCV4 with a positive bias on both columns for Aroclor-1254, in 1I25601-CCV6 with a positive bias on column 1 for Aroclor-1254, in 1I26002-CCV1 with a positive bias on column 1 for Tetrachloro-m-xylene and Aroclor-1016, and in 1I26002-CCV2 with a positive bias on column 1 for Tetrachloro-m-xylene and Aroclor-1016 and with a positive bias on column 2 for Aroclor-106..

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7470A:
The continuing calibration verification 1H23613-CCV2 exceeded criteria with a positive bias for Arsenic.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers

As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

***:** An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is "V".**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is "L".**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And **"RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 2282 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02686	NAS JAX - SITE 55	ALAN PATE	904-636-6125	EMPIRICAL LABORATORIES LLC / B. RICHARD
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: ZACH SCRIBNER	PHONE NUMBER: 904 636-6125	ADDRESS: 621 MAINSTREAM DRIVE, SUITE 270
		CARRIER/WAYBILL NUMBER: 8660 1730 1201		CITY, STATE: NASHVILLE, TN 37228

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

	DATE YEAR 2011	TIME	SAMPLE ID 1108173	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOC (8260)	TOT METALS (6010)	SVOCs (8270)	PCB's (8082)	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)										G	P	G	G	
PRESERVATIVE USED										HCl	HNO3	/	/	
-01	8/15	0800	55-FB-08152011				QC	G	01	0	1	0	0	✱ THE DATES ON THE
-02		0850	55GW04-0008-08152011				GW		8	3	1	2	2	CHAIN WILL NOT MATCH
-03		0950	55GW07-0009-08152011						8	3	1	2	2	THE DATES + SAMPLE I.D.'s
-04		1050	55GW03-0008-08152011						8	3	1	2	2	ON BOTTLE WARE DUE
-05		1050	55GW03-0008-08152011 D						5	3	0	2	0	TO AN ERROR w/my WATCH
-06		1150	55GW09-0008-08152011						8	3	1	2	2	✱ PLEASE USE DATES & SAMPLE I.D.'s FROM C.O.C.
-07	8/15	1200	TB-01				QC	-	2	2	-	-		→ TRIP BLANK
														— Cool to 4°C

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	08/15/2011	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY Reginald Talley 0.4°C	8.16.11	0830

COMMENTS

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

4/02R
FORM NO. TINUS-001

10

1108173

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	HG	MG/KG	55SS09-0X02	1108171-35	NM	08/12/2011	08/23/2011	08/25/2011	11	2	13
1108171	HG	MG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/23/2011	08/25/2011	12	2	14
1108173	HG	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55-FB-08152011	1108173-01	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108173	HG	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/26/2011	08/26/2011	11	0	11
1108171	M	MG/KG	55SS04-000XD	1108171-23	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS04-000X	1108171-22	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS03-0X02	1108171-32	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS05-0X02	1108171-08	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS03-000XD	1108171-31	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS02-000X	1108171-18	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB10-0204	1108171-06	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS01-0X02	1108171-02	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS02-0X02	1108171-19	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SS04-0X02	1108171-38	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SB09-0204	1108171-36	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS05-000X	1108171-07	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13

SDG	SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
1108171	M	MG/KG	55SS01-000X	1108171-01	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB07-0204	1108171-29	NM	08/12/2011	08/23/2011	08/24/2011	11	1	12
1108171	M	MG/KG	55SS06-000X	1108171-11	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB08-0204	1108171-16	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB08-0406	1108171-17	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108171	M	MG/KG	55SB02-0406	1108171-21	NM	08/11/2011	08/23/2011	08/24/2011	12	1	13
1108173	M	UG/L	55GW07-0009-08152011	1108173-03RE1	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW09-0008-08152011	1108173-06	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55-FB-08152011	1108173-01	NM	08/15/2011	08/22/2011	08/23/2011	7	1	8
1108173	M	UG/L	55GW07-0009-08152011	1108173-03RE2	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW07-0009-08152011	1108173-03	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW04-0008-08152011	1108173-02	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108173	M	UG/L	55GW03-0008-08152011	1108173-04	NM	08/15/2011	08/22/2011	08/24/2011	7	2	9
1108171	OS	UG/KG	55SB03-0204	1108171-33	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204D	1108171-26	NM	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204	1108171-25	SUR	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB04-0204	1108171-25	NM	08/12/2011	08/24/2011	09/05/2011	12	12	24
1108171	OS	UG/KG	55SB03-0204	1108171-33	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20
1108171	OS	UG/KG	55SB04-0204D	1108171-26	SUR	08/12/2011	08/24/2011	09/01/2011	12	8	20

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-ICV1	Aluminum	10000	10080	101	ug/L	+/- 10.00%
	Antimony	1000	1027	103	ug/L	+/- 10.00%
	Arsenic	1000	1073	107	ug/L	+/- 10.00%
	Barium	1000	1002	100	ug/L	+/- 10.00%
	Beryllium	1000	1068	107	ug/L	+/- 10.00%
	Cadmium	1000	1060	106	ug/L	+/- 10.00%
	Calcium	50000	54070	108	ug/L	+/- 10.00%
	Chromium	1000	999.0	99.9	ug/L	+/- 10.00%
	Cobalt	1000	1005	101	ug/L	+/- 10.00%
	Copper	1000	1088	109	ug/L	+/- 10.00%
	Iron	10000	10790	108	ug/L	+/- 10.00%
	Lead	1000	982.9	98.3	ug/L	+/- 10.00%
	Magnesium	50000	52710	105	ug/L	+/- 10.00%
	Manganese	1000	1071	107	ug/L	+/- 10.00%
	Nickel	1000	982.3	98.2	ug/L	+/- 10.00%
	Potassium	10000	9217	92.2	ug/L	+/- 10.00%
	Selenium	1000	1001	100	ug/L	+/- 10.00%
	Silver	500.0	495.4	99.1	ug/L	+/- 10.00%
	Sodium	50000	53320	107	ug/L	+/- 10.00%
	Thallium	1000	991.2	99.1	ug/L	+/- 10.00%
	Vanadium	1000	1040	104	ug/L	+/- 10.00%
	Zinc	1000	1010	101	ug/L	+/- 10.00%
1H23613-CCV1	Aluminum	10000	9977	99.8	ug/L	+/- 10.00%
	Antimony	1000	992.8	99.3	ug/L	+/- 10.00%
	Arsenic	1000	1094	109	ug/L	+/- 10.00%
	Barium	1000	947.8	94.8	ug/L	+/- 10.00%
	Beryllium	1000	1075	108	ug/L	+/- 10.00%
	Cadmium	1000	977.9	97.8	ug/L	+/- 10.00%
	Calcium	50000	53350	107	ug/L	+/- 10.00%
	Chromium	1000	1013	101	ug/L	+/- 10.00%
	Cobalt	1000	967.5	96.8	ug/L	+/- 10.00%
	Copper	1000	1059	106	ug/L	+/- 10.00%
	Iron	10000	10890	109	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%
	Magnesium	50000	51350	103	ug/L	+/- 10.00%
	Manganese	1000	1026	103	ug/L	+/- 10.00%
	Nickel	1000	926.5	92.6	ug/L	+/- 10.00%
	Potassium	10000	9875	98.7	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-CCV1	Selenium	1000	962.7	96.3	ug/L	+/- 10.00%
	Silver	500.0	477.8	95.6	ug/L	+/- 10.00%
	Sodium	50000	52160	104	ug/L	+/- 10.00%
	Thallium	1000	997.8	99.8	ug/L	+/- 10.00%
	Vanadium	1000	1005	101	ug/L	+/- 10.00%
	Zinc	1000	956.4	95.6	ug/L	+/- 10.00%
1H23613-CCV2	Aluminum	10000	9956	99.6	ug/L	+/- 10.00%
	Antimony	1000	1003	100	ug/L	+/- 10.00%
	Arsenic	**1000**	**1106**	**111** JL	**ug/L**	+/- 10.00%
	Barium	1000	946.9	94.7	ug/L	+/- 10.00%
	Beryllium	1000	1052	105	ug/L	+/- 10.00%
	Cadmium	1000	964.6	96.5	ug/L	+/- 10.00%
	Calcium	50000	50570	101	ug/L	+/- 10.00%
	Chromium	1000	997.1	99.7	ug/L	+/- 10.00%
	Cobalt	1000	961.0	96.1	ug/L	+/- 10.00%
	Copper	1000	1006	101	ug/L	+/- 10.00%
	Iron	10000	10840	108	ug/L	+/- 10.00%
	Lead	1000	931.5	93.1	ug/L	+/- 10.00%
	Magnesium	50000	49310	98.6	ug/L	+/- 10.00%
	Manganese	1000	973.9	97.4	ug/L	+/- 10.00%
	Nickel	1000	922.2	92.2	ug/L	+/- 10.00%
	Potassium	10000	9780	97.8	ug/L	+/- 10.00%
	Selenium	1000	965.4	96.5	ug/L	+/- 10.00%
	Silver	500.0	476.4	95.3	ug/L	+/- 10.00%
	Sodium	50000	48610	97.2	ug/L	+/- 10.00%
	Thallium	1000	988.1	98.8	ug/L	+/- 10.00%
	Vanadium	1000	979.3	97.9	ug/L	+/- 10.00%
	Zinc	1000	958.5	95.8	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-ICV1	Aluminum	10000	9894	98.9	ug/L	+/- 10.00%
	Antimony	1000	1016	102	ug/L	+/- 10.00%
	Arsenic	1000	1058	106	ug/L	+/- 10.00%
	Barium	1000	983.2	98.3	ug/L	+/- 10.00%
	Beryllium	1000	1038	104	ug/L	+/- 10.00%
	Cadmium	1000	1083	108	ug/L	+/- 10.00%
	Calcium	50000	53030	106	ug/L	+/- 10.00%
	Chromium	1000	976.8	97.7	ug/L	+/- 10.00%
	Cobalt	1000	989.3	98.9	ug/L	+/- 10.00%
	Copper	1000	1023	102	ug/L	+/- 10.00%
	Iron	10000	10540	105	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	50140	100	ug/L	+/- 10.00%
	Manganese	1000	1018	102	ug/L	+/- 10.00%
	Nickel	1000	999.6	100	ug/L	+/- 10.00%
	Potassium	10000	9193	91.9	ug/L	+/- 10.00%
	Selenium	1000	994.3	99.4	ug/L	+/- 10.00%
	Silver	500.0	488.7	97.7	ug/L	+/- 10.00%
	Sodium	50000	51790	104	ug/L	+/- 10.00%
	Thallium	1000	976.0	97.6	ug/L	+/- 10.00%
	Vanadium	1000	1016	102	ug/L	+/- 10.00%
	Zinc	1000	1009	101	ug/L	+/- 10.00%
1H23804-CCV1	Aluminum	10000	9809	98.1	ug/L	+/- 10.00%
	Antimony	1000	1001	100	ug/L	+/- 10.00%
	Arsenic	1000	1037	104	ug/L	+/- 10.00%
	Barium	1000	961.7	96.2	ug/L	+/- 10.00%
	Beryllium	1000	1048	105	ug/L	+/- 10.00%
	Cadmium	1000	1055	105	ug/L	+/- 10.00%
	Calcium	50000	52820	106	ug/L	+/- 10.00%
	Chromium	1000	999.8	100	ug/L	+/- 10.00%
	Cobalt	1000	975.3	97.5	ug/L	+/- 10.00%
	Copper	1000	1015	102	ug/L	+/- 10.00%
	Iron	10000	10470	105	ug/L	+/- 10.00%
	Lead	1000	963.7	96.4	ug/L	+/- 10.00%
	Magnesium	50000	49750	99.5	ug/L	+/- 10.00%
	Manganese	1000	1010	101	ug/L	+/- 10.00%
	Nickel	1000	992.8	99.3	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1108173
Project: NAS Jacksonville CTOJM19
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV1	Selenium	1000	1002	100	ug/L	+/- 10.00%
	Silver	500.0	479.8	96.0	ug/L	+/- 10.00%
	Sodium	50000	51800	104	ug/L	+/- 10.00%
	Thallium	1000	988.3	98.8	ug/L	+/- 10.00%
	Vanadium	1000	1008	101	ug/L	+/- 10.00%
	Zinc	1000	999.8	100	ug/L	+/- 10.00%
1H23804-CCV2	Aluminum	10000	9796	98.0	ug/L	+/- 10.00%
	Antimony	1000	1009	101	ug/L	+/- 10.00%
	Arsenic	1000	1043	104	ug/L	+/- 10.00%
	Barium	1000	966.8	96.7	ug/L	+/- 10.00%
	Beryllium	1000	1049	105	ug/L	+/- 10.00%
	Cadmium	1000	1054	105	ug/L	+/- 10.00%
	Calcium	50000	52610	105	ug/L	+/- 10.00%
	Chromium	1000	995.3	99.5	ug/L	+/- 10.00%
	Cobalt	1000	979.8	98.0	ug/L	+/- 10.00%
	Copper	1000	1024	102	ug/L	+/- 10.00%
	Iron	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	963.4	96.3	ug/L	+/- 10.00%
	Magnesium	50000	49480	99.0	ug/L	+/- 10.00%
	Manganese	1000	1012	101	ug/L	+/- 10.00%
	Nickel	1000	997.6	99.8	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Selenium	1000	1009	101	ug/L	+/- 10.00%
	Silver	500.0	479.2	95.8	ug/L	+/- 10.00%
	Sodium	50000	51660	103	ug/L	+/- 10.00%
	Thallium	1000	991.6	99.2	ug/L	+/- 10.00%
	Vanadium	1000	1009	101	ug/L	+/- 10.00%
	Zinc	1000	996.2	99.6	ug/L	+/- 10.00%
1H23804-CCV3	Aluminum	10000	9891	98.9	ug/L	+/- 10.00%
	Antimony	1000	1020	102	ug/L	+/- 10.00%
	Arsenic	1000	1045	105	ug/L	+/- 10.00%
	Barium	1000	982.4	98.2	ug/L	+/- 10.00%
	Beryllium	1000	1045	105	ug/L	+/- 10.00%
	Cadmium	1000	1060	106	ug/L	+/- 10.00%
	Calcium	50000	51900	104	ug/L	+/- 10.00%
	Chromium	1000	998.7	99.9	ug/L	+/- 10.00%
	Cobalt	1000	989.7	99.0	ug/L	+/- 10.00%
	Copper	1000	1008	101	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Instrument ID: ME-ICP

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-CCV3	Iron	10000	10410	104	ug/L	+/- 10.00%
	Lead	1000	977.9	97.8	ug/L	+/- 10.00%
	Magnesium	50000	49360	98.7	ug/L	+/- 10.00%
	Manganese	1000	1008	101	ug/L	+/- 10.00%
	Nickel	1000	1003	100	ug/L	+/- 10.00%
	Potassium	10000	10000	100	ug/L	+/- 10.00%
	Selenium	1000	1024	102	ug/L	+/- 10.00%
	Silver	500.0	484.3	96.9	ug/L	+/- 10.00%
	Sodium	50000	51000	102	ug/L	+/- 10.00%
	Thallium	1000	997.0	99.7	ug/L	+/- 10.00%
	Vanadium	1000	1013	101	ug/L	+/- 10.00%
	Zinc	1000	1014	101	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW7470A

Laboratory: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)

Instrument ID: ME-FIMS

SDG: 1108173

Project: NAS Jacksonville CTOJM19

Calibration: 1238003

Sequence: 1H23809

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23809-ICV1	Mercury	4.000	4.123	103	ug/L	+/- 15.00%
1H23809-CCV1	Mercury	4.000	3.915	97.9	ug/L	+/- 15.00%
1H23809-CCV2	Mercury	4.000	4.022	101	ug/L	+/- 15.00%

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23613-CRL1	Aluminum	100.0	102.0	102	ug/L	80 - 120
	Antimony	8.000	6.461	80.8	ug/L	80 - 120
	Barium	10.00	9.656	96.6	ug/L	80 - 120
	Beryllium	2.000	2.050	103	ug/L	80 - 120
	Cadmium	2.000	1.884	94.2	ug/L	80 - 120
	Calcium	2000	2023	101	ug/L	80 - 120
	Chromium	4.000	4.081	102	ug/L	80 - 120
	Cobalt	10.00	9.202	92.0	ug/L	80 - 120
	Copper	8.000	7.386	92.3	ug/L	80 - 120
	Iron	60.00	65.87	110	ug/L	80 - 120
	Lead	3.000	3.040	101	ug/L	80 - 120
	Magnesium	3000	3008	100	ug/L	80 - 120
	Manganese	6.000	6.009	100	ug/L	80 - 120
	Nickel	6.000	5.773	96.2	ug/L	80 - 120
	Potassium	3000	2821	94.0	ug/L	80 - 120
	Silver	2.000	1.784	89.2	ug/L	80 - 120
	Sodium	3000	2831	94.4	ug/L	80 - 120
	Thallium	4.000	4.207	105	ug/L	80 - 120
	Vanadium	10.00	9.610	96.1	ug/L	80 - 120
	Zinc	10.00	9.452	94.5	ug/L	80 - 120
1H23613-CRL2	Arsenic	5.000	5.122	102	ug/L	80 - 120
	Selenium	5.000	4.187	83.7	ug/L	80 - 120

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23804-CRL1	Aluminum	100.0	105.7	106	ug/L	80 - 120
	Antimony	8.000	7.732	96.6	ug/L	80 - 120
	Barium	10.00	9.805	98.0	ug/L	80 - 120
	Beryllium	2.000	2.049	102	ug/L	80 - 120
	Cadmium	2.000	2.024	101	ug/L	80 - 120
	Calcium	2000	2103	105	ug/L	80 - 120
	Chromium	4.000	4.157	104	ug/L	80 - 120
	Cobalt	10.00	9.454	94.5	ug/L	80 - 120
	Copper	8.000	7.719	96.5	ug/L	80 - 120
	Iron	60.00	66.69	111	ug/L	80 - 120
	Lead	3.000	3.000	100	ug/L	80 - 120
	Magnesium	3000	3034	101	ug/L	80 - 120
	Manganese	6.000	6.102	102	ug/L	80 - 120
	Nickel	6.000	6.154	103	ug/L	80 - 120
	Potassium	3000	2908	97.0	ug/L	80 - 120
	Silver	2.000	2.276	114	ug/L	80 - 120
	Sodium	3000	2961	98.7	ug/L	80 - 120
	Thallium	4.000	4.196	105	ug/L	80 - 120
	Vanadium	10.00	10.01	100	ug/L	80 - 120
	Zinc	10.00	9.672	96.7	ug/L	80 - 120
1H23804-CRL2	Arsenic	5.000	5.271	105	ug/L	80 - 120
	Selenium	5.000	4.558	91.2	ug/L	80 - 120

CRDL STANDARD

SW7470A

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-FIMS

Calibration: 1238003

Sequence: 1H23809

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23809-CRL1	Mercury	0.2000	0.2144	107	ug/L	70 - 130

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-ICB1	Aluminum	0.9721	50.0	200	ug/L	U	SW6010C
	Antimony	-0.6028	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.5096	3.00	10.0	ug/L	U	SW6010C
	Barium	-0.04689	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.03308	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.01702	1.00	5.00	ug/L	U	SW6010C
	Calcium	0.8800	1000	5000	ug/L	U	SW6010C
	Chromium	0.04606	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.07458	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.2035	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.9043	30.0	100	ug/L	U	SW6010C
	Lead	0.1953	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.1000	1000	5000	ug/L	U	SW6010C
	Manganese	0.00003000	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.2118	3.00	10.0	ug/L	U	SW6010C
	Potassium	4.750	1000	5000	ug/L	U	SW6010C
	Selenium	-1.024	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.1533	1.00	10.0	ug/L	U	SW6010C
	Sodium	14.59	1000	5000	ug/L	U	SW6010C
	Thallium	0.7609	3.00	8.00	ug/L	U	SW6010C
	Vanadium	-0.09009	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.03595	5.00	20.0	ug/L	U	SW6010C
1H23613-CCB1	Aluminum	-1.64	50.0	200	ug/L	U	SW6010C
	Antimony	-0.824	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.791	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0746	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.0102	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0709	1.00	5.00	ug/L	U	SW6010C
	Calcium	1.97	1000	5000	ug/L	U	SW6010C
	Chromium	-0.00287	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.113	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.620	4.00	10.0	ug/L	U	SW6010C
	Iron	0.563	30.0	100	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-CCB1	Lead	0.212	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.440	1000	5000	ug/L	U	SW6010C
	Manganese	0.0481	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.461	3.00	10.0	ug/L	U	SW6010C
	Potassium	7.57	1000	5000	ug/L	U	SW6010C
	Selenium	-0.455	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.207	1.00	10.0	ug/L	U	SW6010C
	Sodium	21.6	1000	5000	ug/L	U	SW6010C
	Thallium	0.824	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0876	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0844	5.00	20.0	ug/L	U	SW6010C
1H22924-BLK1	Aluminum	5.61	12.5	50.0	ug/L	U	SW6010C
	Antimony	-0.254	1.25	2.50	ug/L	U	SW6010C
	Arsenic	0.0766	0.750	2.50	ug/L	U	SW6010C
	Barium	-0.00477	1.25	10.0	ug/L	U	SW6010C
	Beryllium	0.0495	0.250	1.25	ug/L	U	SW6010C
	Cadmium	0.0127	0.250	1.25	ug/L	U	SW6010C
	Calcium	3.48	250	1250	ug/L	U	SW6010C
	Chromium	0.0163	0.500	2.50	ug/L	U	SW6010C
	Cobalt	-0.0308	1.25	3.12	ug/L	U	SW6010C
	Copper	-0.0609	1.00	2.50	ug/L	U	SW6010C
	Iron	-0.0566	7.50	25.0	ug/L	U	SW6010C
	Lead	0.233	0.375	0.750	ug/L	U	SW6010C
	Magnesium	5.14	250	1250	ug/L	U	SW6010C
	Manganese	0.0462	0.750	3.75	ug/L	U	SW6010C
	Nickel	0.0496	0.750	2.50	ug/L	U	SW6010C
	Potassium	3.96	250	1250	ug/L	U	SW6010C
	Selenium	-0.227	0.750	2.50	ug/L	U	SW6010C
	Silver	-0.00716	0.250	2.50	ug/L	U	SW6010C
	Sodium	8.79	250	1250	ug/L	U	SW6010C
	Thallium	0.106	0.750	2.00	ug/L	U	SW6010C
	Vanadium	0.0259	1.25	3.12	ug/L	U	SW6010C
	Zinc	0.0543	1.25	5.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-CCB2	Aluminum	1.34	50.0	200	ug/L	U	SW6010C
	Antimony	0.0434	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.0497	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0731	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0361	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.107	1.00	5.00	ug/L	U	SW6010C
	Calcium	15.6	1000	5000	ug/L	U	SW6010C
	Chromium	0.160	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.0216	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0268	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.810	30.0	100	ug/L	U	SW6010C
	Lead	0.782	1.50	3.00	ug/L	U	SW6010C
	Magnesium	5.47	1000	5000	ug/L	U	SW6010C
	Manganese	0.169	3.00	15.0	ug/L	U	SW6010C
	Nickel	-0.0148	3.00	10.0	ug/L	U	SW6010C
	Potassium	36.8	1000	5000	ug/L	U	SW6010C
	Selenium	0.454	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.0664	1.00	10.0	ug/L	U	SW6010C
	Sodium	139	1000	5000	ug/L	U	SW6010C
	Thallium	0.497	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0647	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.181	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-ICB1	Aluminum	-7.866	50.0	200	ug/L	U	SW6010C
	Antimony	-0.09504	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.4286	3.00	10.0	ug/L	U	SW6010C
	Barium	-0.03302	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.008240	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.03450	1.00	5.00	ug/L	U	SW6010C
	Calcium	0.3900	1000	5000	ug/L	U	SW6010C
	Chromium	-0.1132	2.00	10.0	ug/L	U	SW6010C
	Cobalt	-0.07684	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.1861	4.00	10.0	ug/L	U	SW6010C
	Iron	-1.693	30.0	100	ug/L	U	SW6010C
	Lead	-0.07939	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-1.750	1000	5000	ug/L	U	SW6010C
	Manganese	-0.02176	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.2884	3.00	10.0	ug/L	U	SW6010C
	Potassium	-6.710	1000	5000	ug/L	U	SW6010C
	Selenium	-0.5113	3.00	10.0	ug/L	U	SW6010C
	Silver	0.06805	1.00	10.0	ug/L	U	SW6010C
	Sodium	20.27	1000	5000	ug/L	U	SW6010C
	Thallium	0.1406	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.006830	5.00	12.5	ug/L	U	SW6010C
	Zinc	-0.02686	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB1	Aluminum	-5.43	50.0	200	ug/L	U	SW6010C
	Antimony	-0.768	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.0216	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0701	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0147	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0876	1.00	5.00	ug/L	U	SW6010C
	Calcium	2.13	1000	5000	ug/L	U	SW6010C
	Chromium	0.0433	2.00	10.0	ug/L	U	SW6010C
	Cobalt	0.00451	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.0719	4.00	10.0	ug/L	U	SW6010C
	Iron	-0.134	30.0	100	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB1	Lead	0.218	1.50	3.00	ug/L	U	SW6010C
	Magnesium	1.66	1000	5000	ug/L	U	SW6010C
	Manganese	0.0645	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.458	3.00	10.0	ug/L	U	SW6010C
	Potassium	-10.3	1000	5000	ug/L	U	SW6010C
	Selenium	0.294	3.00	10.0	ug/L	U	SW6010C
	Silver	0.203	1.00	10.0	ug/L	U	SW6010C
	Sodium	17.2	1000	5000	ug/L	U	SW6010C
	Thallium	0.448	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.0978	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C
1H23804-CCB2	Aluminum	0.609	50.0	200	ug/L	U	SW6010C
	Antimony	0.121	5.00	10.0	ug/L	U	SW6010C
	Arsenic	-0.777	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0681	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.00481	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0490	1.00	5.00	ug/L	U	SW6010C
	Calcium	-0.0600	1000	5000	ug/L	U	SW6010C
	Chromium	0.223	2.00	10.0	ug/L	U	SW6010C
	Cobalt	0.0394	5.00	12.5	ug/L	U	SW6010C
	Copper	-0.205	4.00	10.0	ug/L	U	SW6010C
	Iron	-1.08	30.0	100	ug/L	U	SW6010C
	Lead	-0.223	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-5.38	1000	5000	ug/L	U	SW6010C
	Manganese	0.0244	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.288	3.00	10.0	ug/L	U	SW6010C
	Potassium	19.0	1000	5000	ug/L	U	SW6010C
	Selenium	0.555	3.00	10.0	ug/L	U	SW6010C
	Silver	0.127	1.00	10.0	ug/L	U	SW6010C
	Sodium	64.5	1000	5000	ug/L	U	SW6010C
	Thallium	0.778	3.00	8.00	ug/L	U	SW6010C
	Vanadium	-0.0609	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0696	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: NAS Jacksonville CTOJM19
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-CCB3	Aluminum	-1.56	50.0	200	ug/L	U	SW6010C
	Antimony	-0.327	5.00	10.0	ug/L	U	SW6010C
	Arsenic	0.308	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0776	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0332	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0738	1.00	5.00	ug/L	U	SW6010C
	Calcium	14.6	1000	5000	ug/L	U	SW6010C
	Chromium	0.121	2.00	10.0	ug/L	U	SW6010C
	Cobalt	0.0137	5.00	12.5	ug/L	U	SW6010C
	Copper	0.0230	4.00	10.0	ug/L	U	SW6010C
	Iron	0.599	30.0	100	ug/L	U	SW6010C
	Lead	0.234	1.50	3.00	ug/L	U	SW6010C
	Magnesium	-0.750	1000	5000	ug/L	U	SW6010C
	Manganese	0.242	3.00	15.0	ug/L	U	SW6010C
	Nickel	0.240	3.00	10.0	ug/L	U	SW6010C
	Potassium	2.59	1000	5000	ug/L	U	SW6010C
	Selenium	0.250	3.00	10.0	ug/L	U	SW6010C
	Silver	0.0772	1.00	10.0	ug/L	U	SW6010C
	Sodium	176	1000	5000	ug/L	U	SW6010C
	Thallium	0.764	3.00	8.00	ug/L	U	SW6010C
	Vanadium	0.172	5.00	12.5	ug/L	U	SW6010C
	Zinc	0.0592	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW7470A

Laboratory: Empirical Laboratories, LLC
SDG: 1108173
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: NAS Jacksonville CTOJM19
Sequence: 1H23809
Calibration: 1238003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23809-ICB1	Mercury	0.03383	0.0800	0.200	ug/L	U	SW7470A
1H26009-BLK1	Mercury	0.0257	0.0800	0.200	ug/L	U	SW7470A
1H23809-CCB1	Mercury	0.0315	0.0800	0.200	ug/L	U	SW7470A
1H23809-CCB2	Mercury	0.0244	0.0800	0.200	ug/L	U	SW7470A

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units
1H23613-IFA1	Aluminum	500000	520,570.00	104	ug/L
	Antimony		-0.78		ug/L
	Arsenic		-0.94		ug/L
	Barium		0.45		ug/L
	Beryllium		0.02		ug/L
	Cadmium		1.69		ug/L
	Calcium	500000	479,420.00	95.9	ug/L
	Chromium		-1.14		ug/L
	Cobalt		-1.26		ug/L
	Copper		-1.22		ug/L
	Iron	200000	208,550.00	104	ug/L
	Lead		3.37		ug/L
	Magnesium	500000	502,960.00	101	ug/L
	Manganese		-3.66		ug/L
	Nickel		-2.86		ug/L
	Potassium		-5.03		ug/L
	Selenium		-0.11		ug/L
	Silver		-0.50		ug/L
	Sodium		60.57		ug/L
	Thallium		-1.14		ug/L
	Vanadium		2.59		ug/L
	Zinc		-8.87		ug/L
1H23613-IFB1	Aluminum	500000	525,830.00	105	ug/L
	Antimony	600.0	641.62	107	ug/L
	Arsenic	100.0	113.96	114	ug/L
	Barium	500.0	521.89	104	ug/L
	Beryllium	500.0	508.79	102	ug/L
	Cadmium	1000	1,036.60	104	ug/L
	Calcium	500000	489,180.00	97.8	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units
1H23613-IFB1	Chromium	500.0	478.12	95.6	ug/L
	Cobalt	500.0	487.32	97.5	ug/L
	Copper	500.0	536.30	107	ug/L
	Iron	200000	211,200.00	106	ug/L
	Lead	50.00	46.77	93.5	ug/L
	Magnesium	500000	511,860.00	102	ug/L
	Manganese	500.0	489.51	97.9	ug/L
	Nickel	1000	954.32	95.4	ug/L
	Potassium		-19.93		ug/L
	Selenium	50.00	51.99	104	ug/L
	Silver	200.0	204.23	102	ug/L
	Sodium		115.13		ug/L
	Thallium	100.0	91.19	91.2	ug/L
	Vanadium	500.0	490.21	98.0	ug/L
	Zinc	1000	987.73	98.8	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units
1H23804-IFA1	Aluminum	500000	500,610.00	100	ug/L
	Antimony		-2.80		ug/L
	Arsenic		-0.87		ug/L
	Barium		0.39		ug/L
	Beryllium		-0.01		ug/L
	Cadmium		1.68		ug/L
	Calcium	500000	500,080.00	100	ug/L
	Chromium		-1.34		ug/L
	Cobalt		-1.29		ug/L
	Copper		-1.66		ug/L
	Iron	200000	208,000.00	104	ug/L
	Lead		5.02		ug/L
	Magnesium	500000	496,580.00	99.3	ug/L
	Manganese		-3.56		ug/L
	Nickel		-4.27		ug/L
	Potassium		-40.17		ug/L
	Selenium		0.05		ug/L
	Silver		-0.45		ug/L
	Sodium		66.94		ug/L
	Thallium		-1.23		ug/L
	Vanadium		0.29		ug/L
	Zinc		-8.83		ug/L
1H23804-IFB1	Aluminum	500000	507,430.00	101	ug/L
	Antimony	600.0	640.30	107	ug/L
	Arsenic	100.0	114.61	115	ug/L
	Barium	500.0	510.12	102	ug/L
	Beryllium	500.0	499.68	99.9	ug/L
	Cadmium	1000	1,059.20	106	ug/L
	Calcium	500000	488,070.00	97.6	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010)

Project: NAS Jacksonville CTOJM19

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units
1H23804-IFB1	Chromium	500.0	467.17	93.4	ug/L
	Cobalt	500.0	481.84	96.4	ug/L
	Copper	500.0	508.19	102	ug/L
	Iron	200000	207,320.00	104	ug/L
	Lead	50.00	48.70	97.4	ug/L
	Magnesium	500000	489,710.00	97.9	ug/L
	Manganese	500.0	465.78	93.2	ug/L
	Nickel	1000	970.02	97.0	ug/L
	Potassium		-21.23		ug/L
	Selenium	50.00	49.33	98.6	ug/L
	Silver	200.0	199.48	99.7	ug/L
	Sodium		124.04		ug/L
	Thallium	100.0	88.82	88.8	ug/L
	Vanadium	500.0	476.03	95.2	ug/L
	Zinc	1000	989.21	98.9	ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H22924	Laboratory ID:	1H22924-BS1
Preparation:	MET_3005A_LOW	Initial/Final:	100 mL / 25 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aluminum	40.00	43.06	108	80 - 120
Antimony	5.000	4.533	90.7	80 - 120
Arsenic	5.000	5.071	101	80 - 120
Barium	40.00	36.68	91.7	80 - 120
Beryllium	1.000	1.067	107	80 - 120
Cadmium	2.500	2.411	96.4	80 - 120
Calcium	600.0	616.8	103	80 - 120
Chromium	4.000	3.988	99.7	80 - 120
Cobalt	10.00	9.226	92.3	80 - 120
Copper	5.000	4.866	97.3	80 - 120
Iron	20.00	21.04	105	80 - 120
Lead	5.000	5.027	101	80 - 120
Magnesium	600.0	615.0	102	80 - 120
Manganese	10.00	10.06	101	80 - 120
Nickel	10.00	9.105	91.0	80 - 120
Potassium	600.0	575.8	96.0	80 - 120
Selenium	5.000	4.283	85.7	80 - 120
Silver	5.000	4.839	96.8	80 - 120
Sodium	600.0	584.6	97.4	80 - 120
Thallium	5.000	4.845	96.9	80 - 120
Vanadium	10.00	9.229	92.3	80 - 120
Zinc	10.00	9.422	94.2	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Matrix:	Water		
Batch:	1H26009	Laboratory ID:	1H26009-BS1
Preparation:	pMercury-W SW 7470A	Initial/Final:	30 mL / 30 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Mercury	2.000	2.100	105	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** 1108173

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Jacksonville CTOJM19

Matrix: Water **Instrument:** ME-FIMS

Analyte	MDL	MRL	Units	Method
Mercury	0.0800	0.200	ug/L	SW7470A

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** 1108173

Client: Tetra Tech NUS, Inc. (T010) **Project:** NAS Jacksonville CTOJM19

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Aluminum	12.5	50.0	ug/L	SW6010C
Antimony	1.25	2.50	ug/L	SW6010C
Arsenic	0.750	2.50	ug/L	SW6010C
Barium	1.25	10.0	ug/L	SW6010C
Beryllium	0.250	1.25	ug/L	SW6010C
Cadmium	0.250	1.25	ug/L	SW6010C
Calcium	250	1250	ug/L	SW6010C
Chromium	0.500	2.50	ug/L	SW6010C
Cobalt	1.25	3.12	ug/L	SW6010C
Copper	1.00	2.50	ug/L	SW6010C
Iron	7.50	25.0	ug/L	SW6010C
Lead	0.375	0.750	ug/L	SW6010C
Magnesium	250	1250	ug/L	SW6010C
Manganese	0.750	3.75	ug/L	SW6010C
Nickel	0.750	2.50	ug/L	SW6010C
Potassium	250	1250	ug/L	SW6010C
Selenium	0.750	2.50	ug/L	SW6010C
Silver	0.250	2.50	ug/L	SW6010C
Sodium	250	1250	ug/L	SW6010C
Thallium	0.750	2.00	ug/L	SW6010C
Vanadium	1.25	3.12	ug/L	SW6010C
Zinc	1.25	5.00	ug/L	SW6010C

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H22924 Batch Matrix: Water Preparation: MET_3005A_LOW

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55-FB-08152011	1108173-01	08/22/11 09:40	100.00	25.00
55GW04-0008-08152011	1108173-02	08/22/11 09:40	100.00	25.00
55GW07-0009-08152011	1108173-03	08/22/11 09:40	100.00	25.00
55GW07-0009-08152011	1108173-03RE1	08/22/11 09:40	100.00	25.00
55GW07-0009-08152011	1108173-03RE2	08/22/11 09:40	100.00	25.00
55GW03-0008-08152011	1108173-04	08/22/11 09:40	100.00	25.00
55GW09-0008-08152011	1108173-06	08/22/11 09:40	100.00	25.00
Blank	1H22924-BLK1	08/22/11 09:40	100.00	25.00
LCS	1H22924-BS1	08/22/11 09:40	100.00	25.00

PREPARATION BATCH SUMMARY

SW7470A

Laboratory: Empirical Laboratories, LLC SDG: 1108173

Client: Tetra Tech NUS, Inc. (T010) Project: NAS Jacksonville CTOJM19

Batch: 1H26009 Batch Matrix: Water Preparation: pMercury-W SW 7470A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
55-FB-08152011	1108173-01	08/26/11 08:32	30.00	30.00
55GW04-0008-08152011	1108173-02	08/26/11 08:32	30.00	30.00
55GW07-0009-08152011	1108173-03	08/26/11 08:32	30.00	30.00
55GW03-0008-08152011	1108173-04	08/26/11 08:32	30.00	30.00
55GW09-0008-08152011	1108173-06	08/26/11 08:32	30.00	30.00
Blank	1H26009-BLK1	08/26/11 08:32	30.00	30.00
LCS	1H26009-BS1	08/26/11 08:32	30.00	30.00

ANALYSIS SEQUENCE SUMMARY
SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23613	Instrument:	ME-ICP
Calibration:	1237001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23613-CAL1	082311A-001	08/23/11 12:35
Cal Standard	1H23613-CAL2	082311A-002	08/23/11 12:39
Cal Standard	1H23613-CAL3	082311A-003	08/23/11 12:44
Cal Standard	1H23613-CAL4	082311A-004	08/23/11 12:48
Cal Standard	1H23613-CAL5	082311A-005	08/23/11 12:52
Cal Standard	1H23613-CAL6	082311A-006	08/23/11 12:57
Cal Standard	1H23613-CAL7	082311A-007	08/23/11 13:02
Cal Standard	1H23613-CAL8	082311A-008	08/23/11 13:07
Initial Cal Check	1H23613-ICV1	082311B-001	08/23/11 13:37
Initial Cal Blank	1H23613-ICB1	082311B-002	08/23/11 13:46
Instrument RL Check	1H23613-CRL1	082311B-003	08/23/11 13:51
Instrument RL Check	1H23613-CRL2	082311B-004	08/23/11 13:56
Interference Check A	1H23613-IFA1	082311B-005	08/23/11 14:01
Interference Check B	1H23613-IFB1	082311B-006	08/23/11 14:06
Calibration Check	1H23613-CCV1	082311B-008	08/23/11 14:17
Calibration Blank	1H23613-CCB1	082311B-009	08/23/11 14:24
Blank	1H22924-BLK1	082311C-001	08/23/11 14:31
LCS	1H22924-BS1	082311C-002	08/23/11 14:36
55-FB-08152011	1108173-01	082311C-016	08/23/11 15:46
Calibration Check	1H23613-CCV2	082311C-017	08/23/11 15:51
Calibration Blank	1H23613-CCB2	082311C-018	08/23/11 15:58

ANALYSIS SEQUENCE SUMMARY
SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23804-CAL1	082411A-001	08/24/11 12:09
Cal Standard	1H23804-CAL2	082411A-002	08/24/11 12:13
Cal Standard	1H23804-CAL3	082411A-003	08/24/11 12:17
Cal Standard	1H23804-CAL4	082411A-004	08/24/11 12:21
Cal Standard	1H23804-CAL5	082411A-005	08/24/11 12:26
Cal Standard	1H23804-CAL6	082411A-006	08/24/11 12:31
Cal Standard	1H23804-CAL7	082411A-007	08/24/11 12:36
Cal Standard	1H23804-CAL8	082411A-008	08/24/11 12:41
Initial Cal Check	1H23804-ICV1	082411B-001	08/24/11 13:09
Initial Cal Blank	1H23804-ICB1	082411B-002	08/24/11 13:17
Instrument RL Check	1H23804-CRL1	082411B-003	08/24/11 13:24
Instrument RL Check	1H23804-CRL2	082411B-004	08/24/11 13:28
Interference Check A	1H23804-IFA1	082411B-005	08/24/11 13:34
Interference Check B	1H23804-IFB1	082411B-006	08/24/11 13:39
Calibration Check	1H23804-CCV1	082411B-008	08/24/11 13:50
Calibration Blank	1H23804-CCB1	082411B-009	08/24/11 13:57
55GW07-0009-08152011	1108173-03RE1	082411B-014	08/24/11 14:21
55GW07-0009-08152011	1108173-03RE2	082411B-017	08/24/11 14:38
Calibration Check	1H23804-CCV2	082411B-019	08/24/11 14:50
Calibration Blank	1H23804-CCB2	082411B-020	08/24/11 14:57
55GW04-0008-08152011	1108173-02	082411B-021	08/24/11 15:01
55GW07-0009-08152011	1108173-03	082411B-022	08/24/11 15:06
55GW03-0008-08152011	1108173-04	082411B-023	08/24/11 15:11
55GW09-0008-08152011	1108173-06	082411B-024	08/24/11 15:16
Calibration Check	1H23804-CCV3	082411B-031	08/24/11 15:50
Calibration Blank	1H23804-CCB3	082411B-032	08/24/11 15:57

ANALYSIS SEQUENCE SUMMARY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1108173
Client:	Tetra Tech NUS, Inc. (T010)	Project:	NAS Jacksonville CTOJM19
Sequence:	1H23809	Instrument:	ME-FIMS
Calibration:	1238003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23809-CAL1	COPY082611W-002	08/26/11 12:16
Cal Standard	1H23809-CAL2	COPY082611W-003	08/26/11 12:17
Cal Standard	1H23809-CAL3	COPY082611W-004	08/26/11 12:18
Cal Standard	1H23809-CAL4	COPY082611W-005	08/26/11 12:19
Cal Standard	1H23809-CAL5	COPY082611W-006	08/26/11 12:20
Cal Standard	1H23809-CAL6	COPY082611W-007	08/26/11 12:22
Cal Standard	1H23809-CAL7	COPY082611W-008	08/26/11 12:23
Cal Standard	1H23809-CAL8	COPY082611W-009	08/26/11 12:24
Initial Cal Check	1H23809-ICV1	COPY082611W-010	08/26/11 12:26
Initial Cal Blank	1H23809-ICB1	COPY082611W-011	08/26/11 12:27
Instrument RL Check	1H23809-CRL1	COPY082611W-012	08/26/11 12:28
LCS	1H26009-BS1	COPY082611W-017	08/26/11 12:34
Blank	1H26009-BLK1	COPY082611W-018	08/26/11 12:35
55-FB-08152011	1108173-01	COPY082611W-019	08/26/11 12:37
55GW04-0008-08152011	1108173-02	COPY082611W-020	08/26/11 12:38
55GW07-0009-08152011	1108173-03	COPY082611W-021	08/26/11 12:39
Calibration Check	1H23809-CCV1	COPY082611W-022	08/26/11 12:40
Calibration Blank	1H23809-CCB1	COPY082611W-023	08/26/11 12:41
55GW03-0008-08152011	1108173-04	COPY082611W-024	08/26/11 12:42
55GW09-0008-08152011	1108173-06	COPY082611W-025	08/26/11 12:44
Calibration Check	1H23809-CCV2	COPY082611W-034	08/26/11 12:55
Calibration Blank	1H23809-CCB2	COPY082611W-035	08/26/11 12:56

Sample 556W07-0009 Arsenic rep result 2.96 ug/L

Sample Name: 1108173-03@2X Acquired: 8/24/2011 15:06:49 Type: Unk
Method: DuoEnviroMethodNEW(v2376) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X X2 $\left(5.9142\frac{ug}{L}\right)\left(\frac{25ml}{100ml}\right)(2\times dil) = 2.96\ ug/L$

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.53485**	**1163.4**	**5.9142**	**8.6333**	**3607.3**	**66.395**	**.08015**
Stddev	.09668	12.1	2.7106	1.8931	17.5	.167	.00660
%RSD	18.077	1.0394	45.832	21.927	.48398	.25134	8.2372
#1	.57285	1153.7	7.7369	9.4372	3587.6	66.249	.08699
#2	.42494	1159.7	2.7993	9.9918	3613.5	66.359	.07965
#3	.60676	1177.0	7.2065	6.4710	3620.8	66.577	.07381

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**337.96**	**.37425**	**-1.5068**	**1.5681**	**-1.1789**	**-.7287**	**3.9277**
Stddev	1.13	.02644	.1508	.1160	.3645	1.118	.2101
%RSD	.33555	7.0649	10.008	7.3964	30.916	153.4	5.3504
#1	339.17	.35629	-1.3720	1.6811	-1.5883	-.3477	3.7005
#2	336.92	.40462	-1.4787	1.5739	-1.0587	.1488	4.1151
#3	337.80	.36186	-1.6697	1.4493	-.88972	-1.987	3.9674

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**1675.5**	F **325.17**	F **866.42**	**77.228**	**8.4420**	^ *****	**-1.5046**
Stddev	5.6	.21	3.95	.436	.2500	-----	.0473
%RSD	.33719	.06590	.45608	.56422	2.9620	-----	3.1450
#1	1670.9	325.21	870.38	76.725	8.6718	^ -----	-1.5563
#2	1673.7	325.35	866.40	77.486	8.4784	^ -----	-1.4635
#3	1681.8	324.93	862.48	77.473	8.1757	^ -----	-1.4938

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.4355**	**1.0286**	**-.06042**	**.07631**	**7103.**	**6.4261**	**-.77827**
Stddev	.7763	.8689	1.6825	.49713	67.	.3666	.21116
%RSD	31.874	84.476	2784.8	651.42	.9408	5.7056	27.132
#1	2.9287	.13220	1.2487	.05576	7168.	6.6987	-.55462
#2	2.8371	1.0865	.52815	-.41022	7034.	6.5702	-.80600
#3	1.5407	1.8672	-1.9581	.58340	7108.	6.0092	-.97420

APPENDIX C

SOIL BORING LOGS

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	PSC 55	BORING NUMBER:	5501
PROJECT NUMBER:	112G02686	DATE:	8/3/2011
DRILLING COMPANY:	N/A	GEOLOGIST:	Z. Scribner
DRILLING RIG:	Hand Auger	DRILLER:	N/A

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.25		-	-	-	-	duff [organic debris]	-	-				
2	0.25 - 1.0		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.0 - 1.1		-	-	-	lt brown	fine sandy	-	-				
4	1.1 - approx 7.0		-	-	-	med gray	clay with fine sands sludge/dredge material(+)	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	PSC 55	BORING NUMBER:	5510
PROJECT NUMBER:	112G02686	DATE:	8/3/2011
DRILLING COMPANY:	N/A	GEOLOGIST:	Z. Scribner
DRILLING RIG:	Hand Auger	DRILLER:	N/A

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.25		-	-	-	-	duff	-	-				
2	0.25 - 1.0		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.0 - 1.25		-	-	-	lt brown	fine sand	-	-				
4	1.25 - approx 7.0		-	-	-	med gray	clay with fine sands sludge/dredge material(+)	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	PSC 55	BORING NUMBER:	5503
PROJECT NUMBER:	112G02686	DATE:	8/3/2011
DRILLING COMPANY:	N/A	GEOLOGIST:	Z. Scribner
DRILLING RIG:	Hand Auger	DRILLER:	N/A

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.0		-	-	-	-	duff	-	-				
2	0.0 - 1.25		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.25 - approx 7.0		-	-	-	med gray	clay with fine sands sludge/dredge material(+)	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	**PSC 55**	BORING NUMBER:	**5505**
PROJECT NUMBER:	**112G02686**	DATE:	8/3/2011
DRILLING COMPANY:	**N/A**	GEOLOGIST:	**Z. Scribner**
DRILLING RIG:	**Hand Auger**	DRILLER:	**N/A**

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1	0.0-0.0		-	-	-	-	duff	-	-				
2	0.0 -1.0		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.0 - 2.0		-	-	-	lt brn	WHT fine sand	-	-				
4	2.0 0 8.0		-	-	-	gray	fine sands sludge/dredge material(++)	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (++) Contained increased sand per clay from 2 to 4 feet bls (40/60); clay amounts increased at 4 feet bls

Converted to Well: Yes ____ No **X** Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	PSC 55	BORING NUMBER:	5507
PROJECT NUMBER:	112G02686	DATE:	8/4/2011
DRILLING COMPANY:	N/A	GEOLOGIST:	Z. Scribner
DRILLING RIG:	Hand Auger	DRILLER:	N/A

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.25		-	-	-	-	duff	-	-				
2	0.25 -1.0		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.0 - 1.5		-	-	-	lt brn	WHT fine sands	-	-				
4	1.5 - 7.5		-	-	-	med gray	clay with fine sand (+) sludge/dredge material and bivalve shell	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	**PSC 55**	BORING NUMBER:	**5502**
PROJECT NUMBER:	**112G02686**	DATE:	8/5/2011
DRILLING COMPANY:	**N/A**	GEOLOGIST:	**Z. Scribner**
DRILLING RIG:	**Hand Auger**	DRILLER:	**N/A**

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.0		-	-	-	-	duff	-	-				
2	0.0 -1.0		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.0 - 1.75		-	-	-	lt brn	WHT fine sands	-	-				
4	1.75 - 9.0		-	-	-	med gray	clay with fine sand(+) and sludge/dredge material	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No **X** Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	PSC 55	BORING NUMBER:	5504
PROJECT NUMBER:	112G02686	DATE:	8/5/2011
DRILLING COMPANY:	N/A	GEOLOGIST:	Z. Scribner
DRILLING RIG:	Hand Auger	DRILLER:	N/A

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.0		-	-	-	-	duff	-	-				
2	0.0 -0.75		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	0.75 - 2.0		-	-	-	lt brn	fine sands with clay chunks	-	-				
4	2.0 - 9.0		-	-	-	med gray	clay with fine sand(+) and sludge/dredge material	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	**PSC 55**	BORING NUMBER:	**5508**
PROJECT NUMBER:	**112G02686**	DATE:	8/5/2011
DRILLING COMPANY:	**N/A**	GEOLOGIST:	**Z. Scribner**
DRILLING RIG:	**Hand Auger**	DRILLER:	**N/A**

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.25		-	-	-	-	duff	-	-				
2	0.25 - 1.0		-	-	-	dk gray	fine sandy silts/hard	-	-				
3	1.0 - 2.0		-	-	-	lt brn	fine sands with clay/sludge	-	-				
4	2.0 - 7.0		-	-	-	med gray	clay with fine sand(+) and sludge/dredge material	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No **X** Well I.D. #: ____

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	PSC 55	BORING NUMBER:	5506
PROJECT NUMBER:	112G02686	DATE:	8/8/2011
DRILLING COMPANY:	N/A	GEOLOGIST:	Z. Scribner
DRILLING RIG:	Hand Auger	DRILLER:	N/A

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.4		-	-	-	-	duff	-	-				
2	0.4 - 1.75		-	-	-	dk gray	hard sandy silts	-	-				
3	1.75 - 7.0		-	-	-	lt brn	fine sands with clay/sludge	-	-				
4	2.0 - 7.0		-	-	-	med gray	clayey fine sand sludge/dredge material	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #:

Tetra Tech, Inc.

BORING LOG

PROJECT NAME:	**PSC 55**	BORING NUMBER:	**5509**
PROJECT NUMBER:	**112G02686**	DATE:	8/8/2011
DRILLING COMPANY:	**N/A**	GEOLOGIST:	**Z. Scribner**
DRILLING RIG:	**Hand Auger**	DRILLER:	**N/A**

Sample No. and Type or RQD	Depth (Ft.) bls or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
1	0.0-0.1		-	-	-	-	duff	-	-				
2	0.1 - 0.5		-	-	-	dk gray	hard sandy silts	-	-				
3	0.5 - 3.5		-	-	-	lt brn	fine sands with clay/sludge material	-	-				
4	3.5 - 8.0		-	-	-	med gray	clay fine sand sludge/dredge material	-	-				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: (+) Sludge/dredge matrial layers had varying amounts of fine sand per clan like sludge, but remained mainly sludge with a general increase in fine sand with increased depth

Converted to Well: Yes ____ No **X** Well I.D. #: ____