N00213.AR.000706
NAS KEY WEST
5090.3a

FINAL SAMPLING REPORT FOR POST-DEMOLITION OF THE SIGSBEE ANNEX WATER TOWERS WITH TRANSMITTAL LETTER NAS KEY WEST FL

5/8/2009

TETRA TECH NUS

AIK-09-0172

May 8, 2009

Project Number 01769 *via U.S. Mail*

Wayne Woodrum, PE
NAVFAC SE, IPT South Atlantic
Building 903
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Jacksonville, FL 32212

Reference: CLEAN Contract No. N62467-04-D-0055
Contract Task Order No. 0130

Subject: Final Sampling Report for Pre- and Post-Demolition of the Sigsbee Annex Water Towers, Rev. 1, Naval Air Station, Key West, Florida

Dear Mr. Woodrum:

I have enclosed a "Living CD" containing the PDF file for the Final Sampling Report for Pre- and Post-Demolition of the Sigsbee Annex Water Towers, Rev. 1, Naval Air Station, Key West, Florida. This revision incorporates your comments and is being sent via U.S. Mail to meet TtNUS's contractual obligation under CTO 0130 for submittal of our report. Please note I expect to perform an on-board review of this document at our next Partnering Team meeting.

Please call me at (803) 641-4943, if you have any questions regarding the enclosed document.

Sincerely,

C. M. Bryan
Project Manager

CMB:spc

c: Ms. Debra M. Humbert (Letter Only)
Mr. M. Perry/File
File 01769-7.2.2

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Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-04-D-0055

Rev. 1
05/08/09

Final Sampling Report for Pre- and Post-Demolition of the Sigsbee Annex Water Towers

Naval Air Station Key West
Key West, Florida

Contract Task Order 0130

May 2009

Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, Florida 32212-0030

TETRA TECH NUS, Inc.

Rev. 1
05/08/09

FINAL SAMPLING REPORT
FOR
PRE- AND POST-DEMOLITION
OF THE
SIGSBEE ANNEX WATER TOWERS

NAVAL AIR STATION
KEY WEST, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, FL 32212-0030

Submitted by:
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CONTRACT NUMBER N62467-04-D-0055
CONTRACT TASK ORDER 0130

MAY 2009

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ACRONYMS/ABBREVIATIONS

bgs	Below ground surface
CLEAN	Comprehensive Long-Term Environmental Action, Navy
CTO	Contract Task Order
DOT	Department of Transportation
EPA	United States Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FKAA	Florida Keys Aqueduct Authority
GPS	Global Positioning System
IDW	Investigation-derived waste
KW	Key West
MDL	Method detection limit
mg/kg	miligram per kilogram
MS	Matrix spike
MSD	Matrix spike duplicate
MW	Monitoring well
NAS	Naval Air Station
NAVFAC SE	Naval Facilities Engineering Command, Southeast
PQL	Practical quantitation limits
QC	Quality control
SAP	Sampling and Analysis Plan
SAWT	Sigsbee Annex Water Tower
SCTL	Soil Cleanup Target Level
SB	Soil boring
SOP	Standard Operating Procedure
SSR	Soil Sampling Report
SWT	Sigbee Water Tower
TAT	Turnaround time
TtNUS	Tetra Tech NUS, Inc.

1.0 SITE BACKGROUND

Tetra Tech NUS, Inc. (TtNUS) has been contracted by the Department of the Navy, Naval Facilities Engineering Command, Southeast (NAVFAC SE) to perform a Soil Assessment at two water tower locations within the Sigsbee Annex area of Naval Air Station (NAS) Key West, Florida. This pre- and post-demolition sampling report was prepared under the Comprehensive Long-term Environmental Action, Navy (CLEAN) Contract Number N62467-04-D-0055, Contract Task Order (CTO) Number 0130.

1.1 SITE DESCRIPTION

The two Sigsbee Annex water tower (SAWT) sites are both located within the Sigsbee Annex housing area located within the NAS Key West as shown in Figure 1-1. The Sigsbee Annex area is also known as Dredgers Key and is located in Key West, Monroe County, Florida. The site lies within Sections 28 and 29, Township 67 South, Range 25 East.

Both SAWT sites were occupied by unused, public water supply towers. Figure 1-2 shows the locations of the two SAWT sites. The northern-most of the two towers was identified as U.S. Navy Tank 989; the southern tower is identified as U.S. Navy Tank 1275. Both sites are generally flat with mostly scrub grass and sand/gravel surface.

The SAWTs were built and maintained by the Navy as part of the NAS Key West public water supply system. The SAWTs had provided potable water to the Sigsbee Annex housing area for more than 40 years. The elevated water tanks were constructed of steel and supported by tall steel leg structures, as common to the era of construction and use. The tanks, supporting structures, water piping, and related equipment were painted with a distinct red and white checkerboard paint scheme. It appears from an initial reconnaissance visit that the paint was very weathered and that no maintenance work or painting had been performed on either water tower for many years.

NAS Key West has transferred the water distribution system from the U.S. Government to the Florida Keys Aqueduct Authority (FKAA). The tanks became the property of the FKAA; however, the land remains the property of the Navy. The FKAA later determined that the tanks and towers were no longer needed as part of its water distribution network. Both water tanks were demolished in December 2008. The towers were cut and dismantled in pieces. The FKAA took precautions to prevent any additional lead-based paint from falling to the ground by covering the soil around each tower during demolition activities.

1.2 ENVIRONMENTAL SITE HISTORY

The only known environmental sampling or assessment efforts at either site occurred in June 2008. This sampling event was conducted by FKAA personnel to determine if elevated levels of lead existed at either site prior to demolition work (FKAA, 2008). Results of the limited soil sampling are summarized in Table 1-1.

Results of this preliminary soil sampling event indicate that shallow soil beneath the SAWTs has detectable concentrations of lead, ranging from 88 to 3,000 miligram per kilogram (mg/kg). These shallow soil samples were reportedly collected from depths of 0 to 6 inches below ground surface (bgs); however, exact sample locations were not surveyed.

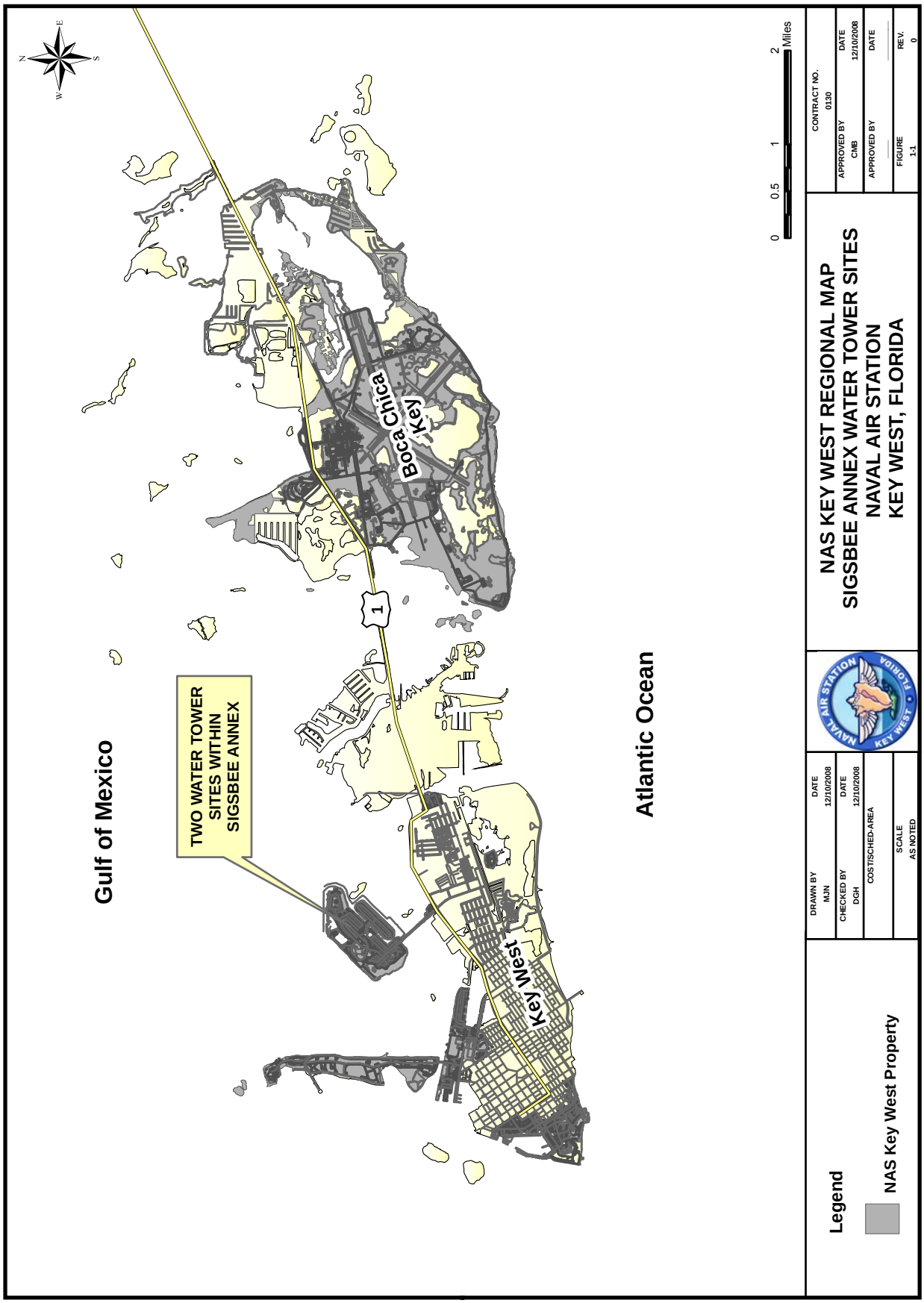
Soil contamination is commonly found under structures of this type due to the painting, sandblasting, natural erosion, and maintenance of the steel tank and support structure over time. The purpose of this report is to document the extent of lead contamination based on samples obtained from the top six inches of soil prior to, and following, tower demolition at both the North and South SAWT sites.

TABLE 1-1

**HISTORICAL LEAD RESULTS – JUNE 2008 FKAA SAMPLING
SIGSBEE WATER TOWER SITES
NAVAL AIR STATION
KEY WEST, FLORIDA**

Shallow Soil Sample ID	Location	Depth (in-bgs)	Lead (mg/kg)
1 T1	North Tower - NW	0-6	590
2 T1	North Tower - N	0-6	3,000
3 T1	North Tower - NE	0-6	2,300
4 T1	North Tower - S	0-6	420
5 T2	South Tower - NW	0-6	120
6 T2	South Tower - N	0-6	1,700
7 T2	South Tower - S	0-6	88

Samples collected by FKAA contractor on June 24, 2008
Laboratory results as reported by ELAB


Gulf of Mexico
TWO WATER TOWER SITES WITHIN SIGSBEE ANNEX
Boca Chica Key
1
Key West
Atlantic Ocean
0 0.5 1 2 Miles
Legend
NAS Key West Property
DRAWN BY MJN
DATE 12/10/2008
CHECKED BY DGH
DATE 12/10/2008
COST/SCHED-AREA
SCALE AS NOTED
NAS KEY WEST REGIONAL MAP
SIGSBEE ANNEX WATER TOWER SITES
NAVAL AIR STATION
KEY WEST, FLORIDA
CONTRACT NO. 0130
APPROVED BY CMB
DATE 12/10/2008
APPROVED BY
DATE
FIGURE 1-1
REV. 0

DRAWN BY MJN	DATE 12/10/08	SITE VICINITY MAP SIGSBEE ANNEX WATER TOWERS NAVAL AIR STATION KEY WEST, FLORIDA	CONTRACT NO. 0130
CHECKED BY DGH	DATE 12/10/08		APPROVED BY CMB / DATE 12/10/08
COST/SCHED-AREA			APPROVED BY / DATE
SCALE AS NOTED			FIGURE 1-2 / REV. 0

2.0 SAMPLING METHODOLOGY

2.1 SCOPE OF SOIL SAMPLING

Surface soil sampling was conducted at the SAWT sites in September 2008 and January 2009 to further delineate soil contamination from historic painting and maintenance activities prior to, and following, demolition of the water towers. All soil sampling was conducted in compliance with FDEP Standard Operating Procedure (SOP)-001/01 FS 3000. Manual hand auger techniques were used to collect shallow soil samples (i.e., 0 to 6 inches bgs).

Sampling locations were based on 20-foot grid spacing positioned on the centerline of each tower and were collected prior to, and following demolition of individual towers. A total of 17 identical sampling locations were established at each tower during the pre- and post-demolition events. Pre- and post-demolition samples were collected in the same locations to monitor any subsequent effects on the soil from demolition activities.

Specifically, one sample was collected at the center of the tower near the water standpipe; 8 samples were collected on a first tier of 20-foot grid spacing out from the center point; and an outer tier of points consisted of 8 samples located on the grid at a 40-foot spacing out from the center point. Both tanks were approximately 30 feet in diameter; therefore, the middle tiers of samples were just to the outside of the tank perimeter footprint. The outer tier sample locations were placed to define the potential extent of lead contamination with increasing distance from the tank footprint.

2.2 SOIL SAMPLING PROCEDURES

Soil sampling locations were established using Global Positioning System (GPS) methods. A one-inch auger was advanced to 6 inches, and material from the auger was placed into an unused plastic bag and homogenized to obtain a 0-to-6-inch composite sample for each location. The composite sample from the plastic bag was subsequently placed into the certified pre-cleaned sample jars, sealed, and shipped to the laboratory. The remaining soil material in the plastic bags was returned to the corresponding sample location.

For each (pre- and post-demolition) sampling event, two quality control (QC) field duplicate samples were collected (one from each tank site) in compliance with FDEP SOP-001/01 FQ 1000.

All sample collection equipment and supplies decontaminated between samples in compliance with FDEP SOP-001/01 FC 1000. One rinsate blank was collected during each sampling task to demonstrate the effectiveness of the decontamination procedure.

2.3 INVESTIGATION-DERIVED WASTE

All soil removed from the ground was placed back in the original boring location after collection of the required sample volume.

Water from decontamination was kept to a minimum using best management practices. Approximately 15 gallons of decontamination water was collected from this event and managed as investigation-derived waste (IDW) and containerized in a Department of Transportation (DOT) approved 55-gallon drum. The 55-gallon drum was labeled with the following: contents, date accumulated, source, and NAS Key West generator number (FL 6170022952). All IDW was handled in accordance with the United States Environmental Protection Agency (EPA) guidance document “Management of Investigation-Derived Wastes during Site Inspections” (EPA, 1991).

An aqueous sample was taken at the conclusion of the post-demolition sampling event to represent the decontamination water from both events. The IDW sample was submitted to Accutest laboratories for Total Lead analysis.

3.0 RESULTS

All samples collected were documented and shipped to a NELAP accredited laboratory (Katahdin Analytical Laboratory), for lead analysis by EPA Method SW-846 6010B. All analyses and reporting was conducted using State of Florida requirements under Rule 62-160 Florida Administrative Code (F.A.C.), DEP-QA-002/02, and DEP-QA-001/01. This includes, but is not limited to, use of the "Florida Flags" data qualifiers and reporting Method Detection Limits (MDLs) and Practical Quantitation Limits (PQLs).

Internal data validation was conducted for the following parameters: data completeness, holding times, initial and continuing calibration recoveries, laboratory method/preparation blank analyses, field duplicate precision, and detection limits. All quality control criteria were met for these parameters.

3.1 SIGSBEE WATER TOWER – NORTH – PRE- AND POST-DEMOLITION RESULTS

Pre-demolition analytical results for the North Tower Site are represented in Table 3-1. Lead concentrations from soil samples ranged from 7 mg/kg to 4,750 mg/kg. Pre-demolition samples were identified as SB01 through SB17 as shown in Figure 3-1. Eleven of the seventeen sample locations exceeded the residential SCTL of 400 mg/kg. The exceedences were generally located within the 20' grid from the center of the tower with the exception of sample locations SWTNSB12-SS-0001, SWTNSB13-SS-0001, and SWTNSB16-SS-0001.

Post-demolition analytical results from the North Tower Site are presented in Table 3-3. Samples were collected from locations adjacent to the previous pre-demolition sample locations. Post sample locations are identified as SB18 through SB34 and are shown in Figure 3-1. Lead concentrations in soil samples ranged from 11.4 mg/kg to 3510 mg/kg. Nine of the seventeen samples exceeded the residential SCTL of 400 mg/Kg. Eight of the exceedances were located within the 20' grid. The ninth exceedance, SWTNSB29-SS-0001 was in the same location (and had a similar lead concentration) as the pre-demolition sample SWTNSB12-SS-0001, located approximately 40' northeast of the tower center.

3.2 SIGSBEE WATER TOWER – SOUTH – PRE- AND POST-DEMOLITION RESULTS

Pre-demolition analytical results for the South Tower Site are represented in Table 3-2. Lead concentrations from soil samples ranged from 20 mg/kg to 3,680 mg/kg. Pre-demolition samples are identified as SB01 through SB17 and are shown in Figure 3-2. Seven of the seventeen samples exceeded the residential SCTL of 400 mg/kg. The exceedences were generally located within the 20' grid from the center of the tower with the exception of SWTSSB15-SS-0001, which is approximately 40' southwest of the tower center.

Post-demolition analytical results for the South Tower Site are presented in Table 3-4. Concentrations ranged from 3.2 mg/kg to 1,230 mg/kg. Post-demolition sample locations are identified as SB18 through SB34 and are shown in Figure 3-2. Eight of the seventeen samples exceeded the residential SCTL of 400 mg/kg. Six of the exceedances were located within the 20' grid from the center of the tower while two more exceedances were from the 40' grid.

3.3 CONCLUSIONS AND RECOMMENDATIONS

Concentrations for lead exceed the residential SCTL of 400 mg/kg at both former locations of the SAWTs. These concentrations are high enough to warrant remedial action to protect the residents, workers, and visitors of Sigsbee Annex from potential exposure. The samples obtained under this study provide a good delineation of lead contamination in the top six inches of soil – except for the areas northeast of the North Tower Site and southwest and west of the South Tower Site. The Navy has proactively installed a fence barrier to reduce the possibility of casual contact by residents with the lead in surface soil. TtNUS recommends the vertical extent of contamination be delineated to support remedial actions at both sites. TtNUS also recommends a permanent solution (such as soil removal and replacement with uncontaminated soil) be implemented as soon as practicable to reduce the lead concentrations to levels that meet the residential criteria.

TABLE 3-1

**PRE-DEMOLITION ANALYTICAL RESULTS
SIGSBEE ANNEX WATER TOWER – NORTH
NAVAL AIR STATION
KEY WEST, FLORIDA**

SAMPLE ID	LOCATION	RESULT (mg/kg)
SWTNSB01-SS-0001	North Tower – Center of Tower	4500
SWTFD-090508-01	//	4230
SWTNSB02-SS-0001	North Tower – 20' grid NW	2490
SWTNSB03-SS-0001	North Tower – 20' grid N	1580
SWTNSB04-SS-0001	North Tower – 20' grid NE	2570
SWTNSB05-SS-0001	North Tower – 20' grid E	2200
SWTNSB06-SS-0001	North Tower – 20' grid SE	646
SWTNSB07-SS-0001	North Tower – 20' grid S	307
SWTNSB08-SS-0001	North Tower – 20' grid SW	1660
SWTNSB09-SS-0001	North Tower – 20' grid W	4750
SWTNSB10-SS-0001	North Tower – 40' grid NW	19
SWTNSB11-SS-0001	North Tower – 40' grid N	16
SWTNSB12-SS-0001	North Tower – 40' grid NE	1410
SWTNSB13-SS-0001	North Tower – 40' grid E	501
SWTNSB14-SS-0001	North Tower – 40' grid SE	75
SWTNSB15-SS-0001	North Tower – 40' grid S	219
SWTNSB16-SS-0001	North Tower – 40' grid SW	668
SWTNSB17-SS-0001	North Tower – 40' grid W	7

Shading represents an exceedance of the F.A.C 62-777 Residential Soil Cleanup Target Levels for Lead.

TABLE 3-2

**PRE-DEMOLITION ANALYTICAL RESULTS
SIGSBEE ANNEX WATER TOWER – SOUTH
NAVAL AIR STATION
KEY WEST, FLORIDA**

SAMPLE ID	LOCATION	RESULT (mg/kg)
SWTSSB01-SS-0001	South Tower – Center of Tower	943
SWTSSB02-SS-0001	South Tower – 20' grid N	3550
SWTFD-090508-02	//	3680
SWTSSB03-SS-0001	South Tower – 20' grid NE	76
SWTSSB04-SS-0001	South Tower – 20' grid E	1360
SWTSSB05-SS-0001	South Tower – 20' grid SE	160
SWTSSB06-SS-0001	South Tower – 20' grid S	1610
SWTSSB07-SS-0001	South Tower – 20' grid SW	1460
SWTSSB08-SS-0001	South Tower – 20' grid W	1340
SWTSSB09-SS-0001	South Tower – 20' grid NW	67
SWTSSB10-SS-0001	South Tower – 40' grid N	236
SWTSSB11-SS-0001	South Tower – 40' grid NE	28
SWTSSB12-SS-0001	South Tower – 40' grid E	89
SWTSSB13-SS-0001	South Tower – 40' grid SE	20
SWTSSB14-SS-0001	South Tower – 40' grid S	101
SWTSSB15-SS-0001	South Tower – 40' grid SW	2770
SWTSSB16-SS-0001	South Tower – 40' grid W	87
SWTSSB17-SS-0001	South Tower – 40' grid NW	28

Shading represents an exceedance of the F.A.C 62-777 Residential Soil Cleanup Target Levels for Lead.

TABLE 3-3

**POST-DEMOLITION ANALYTICAL RESULTS
SIGSBEE ANNEX WATER TOWER – NORTH
NAVAL AIR STATION
KEY WEST, FLORIDA**

SAMPLE ID	LOCATION	RESULT (mg/kg)
SWTNSB18-SS-0001	North Tower – Center of Tower	61.8
SWTNFD-010809-01	//	76.8
SWTNSB19-SS-0001	North Tower – 20' grid NW	2720
SWTNSB20-SS-0001	North Tower – 20' grid N	412
SWTNSB21-SS-0001	North Tower – 20' grid NE	1830
SWTNSB22-SS-0001	North Tower – 20' grid E	3510
SWTNSB23-SS-0001	North Tower – 20' grid SE	1340
SWTNSB24-SS-0001	North Tower – 20' grid S	933
SWTNSB25-SS-0001	North Tower – 20' grid SW	1080
SWTNSB26-SS-0001	North Tower – 20' grid W	2160
SWTNSB27-SS-0001	North Tower – 40' grid NW	17.5
SWTNSB28-SS-0001	North Tower – 40' grid N	310
SWTNSB29-SS-0001	North Tower – 40' grid NE	1610
SWTNSB30-SS-0001	North Tower – 40' grid E	148
SWTNSB31-SS-0001	North Tower – 40' grid SE	160
SWTNSB32-SS-0001	North Tower – 40' grid S	79.6
SWTNSB33-SS-0001	North Tower – 40' grid SW	382
SWTNSB34-SS-0001	North Tower – 40' grid W	11.4

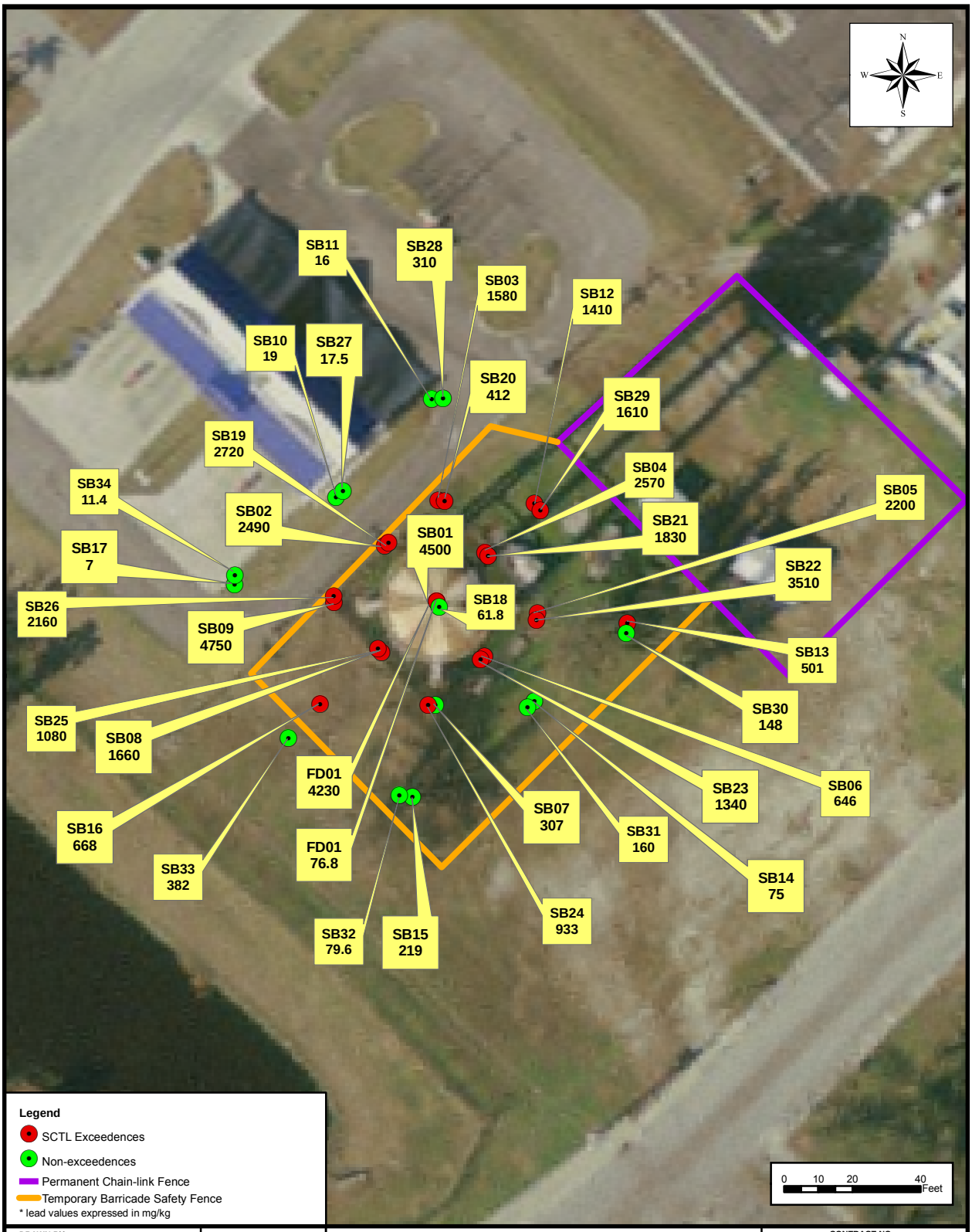
Shading represents an exceedance of the F.A.C 62-777 Residential Soil Cleanup Target Levels for Lead.

TABLE 3-4

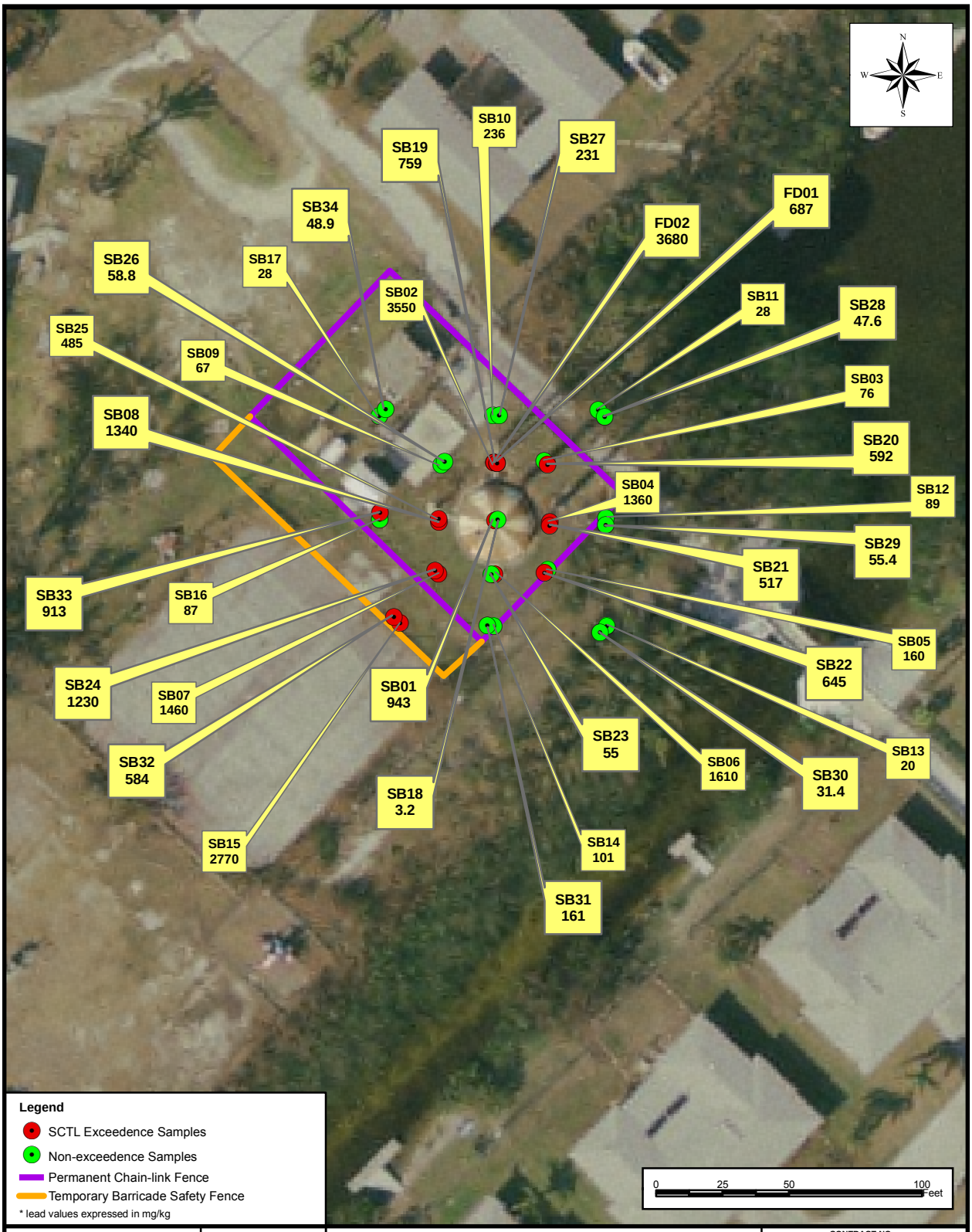
**POST-DEMOLITION ANALYTICAL RESULTS
SIGSBEE ANNEX WATER TOWER – SOUTH
NAVAL AIR STATION
KEY WEST, FLORIDA**

SAMPLE ID	LOCATION	RESULT (mg/kg)
SWTSSB18-SS-0001	South Tower – Center of Tower	3.2
SWTSSB19-SS-0001	South Tower – 20' grid N	759
SWTNFD-010709-01	//	687
SWTSSB20-SS-0001	South Tower – 20' grid NE	592
SWTSSB21-SS-0001	South Tower – 20' grid E	517
SWTSSB22-SS-0001	South Tower – 20' grid SE	645
SWTSSB23-SS-0001	South Tower – 20' grid S	55
SWTSSB24-SS-0001	South Tower – 20' grid SW	1230
SWTSSB25-SS-0001	South Tower – 20' grid W	485
SWTSSB26-SS-0001	South Tower – 20' grid NW	58.8
SWTSSB27-SS-0001	South Tower – 40' grid N	231
SWTSSB28-SS-0001	South Tower – 40' grid NE	47.6
SWTSSB29-SS-0001	South Tower – 40' grid E	55.4
SWTSSB30-SS-0001	South Tower – 40' grid SE	31.4
SWTSSB31-SS-0001	South Tower – 40' grid S	161
SWTSSB32-SS-0001	South Tower – 40' grid SW	584
SWTSSB33-SS-0001	South Tower – 40' grid W	913
SWTSSB34-SS-0001	South Tower – 40' grid NW	48.9

Shading represents an exceedance of the F.A.C 62-777 Residential Soil Cleanup Target Levels for Lead.



DRAWN BY MJN	DATE 04/08/2009	SIGSBEE ANNEX WATER TOWER - NORTH MAP SURFACE SOIL LEAD CONCENTRATIONS NAVAL AIR STATION KEY WEST, FLORIDA	CONTRACT NO. CTO-0130
CHECKED BY DGH	DATE 03/06/2009		APPROVED BY CMB / DATE 05/06/2009
COST/SCHED-AREA			APPROVED BY / DATE
SCALE AS NOTED			FIGURE 3-1 / REV. 1



DRAWN BY MJN	DATE 04/09/2009	SIGSBEE ANNEX WATER TOWER - SOUTH MAP SURFACE SOIL LEAD CONCENTRATIONS NAVAL AIR STATION KEY WEST, FLORIDA	CONTRACT NO. CTO-0130
CHECKED BY DGH	DATE 03/06/2009		APPROVED BY CMB / DATE 05/07/2009
COST/SCHED-AREA			APPROVED BY / DATE
SCALE AS NOTED			FIGURE 3-2 / REV. 1

REFERENCES

FDEP (Florida Department of Environmental Protection). 1992. SOPs for Laboratory Operations and Sample Collection Activities, FDEP-SOP QA-001/92 (Revision 2004). Tallahassee, Florida, February.

FDEP (Florida Department of Environmental Protection). 2004. SOPs for Soil Sampling, FDEP-SOP-001/01 FS 3000. Tallahassee, Florida, February.

FKAA (Florida Keys Aqueduct Authority). 2008. ELAB June 2008 Soil Sampling Data Package, U. S. Navy Tanks on Sigsbee, June.

TtNUS. 2002. Florida Regional Quality Assurance Program Manual. Tallahassee, Florida, October.

APPENDIX A

DATA VALIDATION REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**C. BRYAN**	**DATE:**	**DECEMBER 1, 2008**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – LEAD**
NAS KEY WEST – CTO 130
SDG – SB4978

SAMPLES: 36/Solid/

SWTFD-090508-01	SWTFD-090508-02	SWTNSB01-SS-0001
SWTNSB02-SS-0001	SWTNSB03-SS-0001	SWTNSB04-SS-0001
SWTNSB05-SS-0001	SWTNSB06-SS-0001	SWTNSB07-SS-0001
SWTNSB08-SS-0001	SWTNSB09-SS-0001	SWTNSB10-SS-0001
SWTNSB11-SS-0001	SWTNSB12-SS-0001	SWTNSB13-SS-0001
SWTNSB14-SS-0001	SWTNSB15-SS-0001	SWTNSB16-SS-0001
SWTNSB17-SS-0001	SWTSSB01-SS-0001	SWTSSB02-SS-0001
SWTSSB03-SS-0001	SWTSSB04-SS-0001	SWTSSB05-SS-0001
SWTSSB06-SS-0001	SWTSSB07-SS-0001	SWTSSB08-SS-0001
SWTSSB09-SS-0001	SWTSSB10-SS-0001	SWTSSB11-SS-0001
SWTSSB12-SS-0001	SWTSSB13-SS-0001	SWTSSB14-SS-0001
SWTSSB15-SS-0001	SWTSSB16-SS-0001	SWTSSB17-SS-0001

1/Aqueous/

SWTRB-090508-01

Overview

The sample set for NAS Key West, CTO 383, SDG SB4978, consists of thirty-six solid environmental samples and one field quality control blank. Two field duplicate pairs (SWTFD-090508-01 / SWTNSB01-SS-0001) and (SWTFD-090508-02 / SWTSSB02-SS-0001) are included in this SDG.

All samples were analyzed for lead. The samples were collected by Tetra Tech NUS on September 5, 2008 and analyzed by Katahdin Analytical Services. Lead analyses were conducted via SW846 method 6010B and Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES) methodologies.

Data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial and Continuing Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • Field Duplicate Precision
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminant was detected in the laboratory method/preparation blanks for the aqueous matrix at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Lead [1]	1.01 µg/L	0.50 mg/kg

[1] Affects samples SWTFD-090508-01, SWTNSB02-SS001, and SWTSSB01-SS0001.

An action level of five times the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No data was qualified due to laboratory blank contamination.

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 Data 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.

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

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

Data Validation Qualifier Codes:

A	= Lab Blank Contamination
B	= Field Blank Contamination
C	= Calibration Noncompliance (e.g. %RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	= GC/MS Tuning Noncompliance
D	= MS/MSD Recovery Noncompliance
E	= LCS/LCSD Recovery Noncompliance
F	= Laboratory Duplicate Imprecision
G	= Field Duplicate Imprecision
H	= Holding Time Exceedance
I	= ICP Serial Dilution Noncompliance
J	= GFAA PDS – GFAA MSA's r <0.995 / ICP PDS Recovery Noncompliance
K	= IPC Interference – included 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 (e.g. base-line drifting)
P	= Uncertainty near detection limit (< 2 x IDL for inorganics and < CRDL for organics)
Q	= Other problems (can encompass a number of issues; e.g. chromatography, interferences, etc.)
R	= Surrogate Recovery Noncompliance
S	= Pesticide/PCB Resolution
T	= % Breakdown Noncompliance for DDT and Endrin
U	= % Difference between columns/detectors > 25% for positive results determined via GC/HPLC
V	= Non-linear calibrations; correlation coefficient r < 0.995
W	= EMPC result
X	= Signal to noise response drop
Y	= Percent solids <30%
Z	= Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01769	NSAMPLE	SWTRB-090508-01		
SDG: SB4978	LAB_ID	SB4978-020		
FRACTION: M	SAMP_DATE	9/5/2008		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
LEAD		0.97	U	

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTFD-090508-01	nsample	SWTFD-090508-02	nsample	SWTNSB01-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-001	lab_id	SB4978-002	lab_id	SB4978-003
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	63.0	Pct_Solids	95.3	Pct_Solids	68.4
DUP_OF:	SWTNSB01-SS-0001	DUP_OF:	SWTSSB02-SS-0001	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	4230		

Parameter	Result	Val Qual	Qual Code
LEAD	3680		

Parameter	Result	Val Qual	Qual Code
LEAD	4500		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB02-SS-0001
samp_date	9/5/2008
lab_id	SB4978-004
qc_type	NM
units	MG/KG
Pct_Solids	88.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	2490		

nsample	SWTNSB03-SS-0001
samp_date	9/5/2008
lab_id	SB4978-005
qc_type	NM
units	MG/KG
Pct_Solids	75.3
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1580		

nsample	SWTNSB04-SS-0001
samp_date	9/5/2008
lab_id	SB4978-006
qc_type	NM
units	MG/KG
Pct_Solids	91.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	2570		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB05-SS-0001	nsample	SWTNSB06-SS-0001	nsample	SWTNSB07-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-007	lab_id	SB4978-008	lab_id	SB4978-009
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.2	Pct_Solids	82.2	Pct_Solids	90.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	2200		

Parameter	Result	Val Qual	Qual Code
LEAD	646		

Parameter	Result	Val Qual	Qual Code
LEAD	307		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB08-SS-0001
samp_date	9/5/2008
lab_id	SB4978-010
qc_type	NM
units	MG/KG
Pct_Solids	93.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1660		

nsample	SWTNSB09-SS-0001
samp_date	9/5/2008
lab_id	SB4978-011
qc_type	NM
units	MG/KG
Pct_Solids	79.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	4750		

nsample	SWTNSB10-SS-0001
samp_date	9/5/2008
lab_id	SB4978-012
qc_type	NM
units	MG/KG
Pct_Solids	67.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	19.4		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB11-SS-0001	nsample	SWTNSB12-SS-0001	nsample	SWTNSB13-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-013	lab_id	SB4978-014	lab_id	SB4978-015
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.1	Pct_Solids	93.5	Pct_Solids	78.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	15.6		

Parameter	Result	Val Qual	Qual Code
LEAD	1410		

Parameter	Result	Val Qual	Qual Code
LEAD	501		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB14-SS-0001	nsample	SWTNSB15-SS-0001	nsample	SWTNSB16-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-016	lab_id	SB4978-017	lab_id	SB4978-018
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.5	Pct_Solids	83.2	Pct_Solids	94.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	75.2		

Parameter	Result	Val Qual	Qual Code
LEAD	219		

Parameter	Result	Val Qual	Qual Code
LEAD	668		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB17-SS-0001	nsample	SWTSSB01-SS-0001	nsample	SWTSSB02-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-019	lab_id	SB4978-021	lab_id	SB4978-022
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	81.7	Pct_Solids	64.9	Pct_Solids	94.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	6.6		

Parameter	Result	Val Qual	Qual Code
LEAD	943		

Parameter	Result	Val Qual	Qual Code
LEAD	3550		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB03-SS-0001
samp_date	9/5/2008
lab_id	SB4978-023
qc_type	NM
units	MG/KG
Pct_Solids	86.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	76.1		

nsample	SWTSSB04-SS-0001
samp_date	9/5/2008
lab_id	SB4978-024
qc_type	NM
units	MG/KG
Pct_Solids	77.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1360		

nsample	SWTSSB05-SS-0001
samp_date	9/5/2008
lab_id	SB4978-025
qc_type	NM
units	MG/KG
Pct_Solids	91.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	160		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB06-SS-0001	nsample	SWTSSB07-SS-0001	nsample	SWTSSB08-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-026	lab_id	SB4978-027	lab_id	SB4978-028
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	84.1	Pct_Solids	87.9	Pct_Solids	91.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1610		

Parameter	Result	Val Qual	Qual Code
LEAD	1460		

Parameter	Result	Val Qual	Qual Code
LEAD	1340		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB09-SS-0001
samp_date	9/5/2008
lab_id	SB4978-029
qc_type	NM
units	MG/KG
Pct_Solids	82.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	66.8		

nsample	SWTSSB10-SS-0001
samp_date	9/5/2008
lab_id	SB4978-030
qc_type	NM
units	MG/KG
Pct_Solids	83.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	236		

nsample	SWTSSB11-SS-0001
samp_date	9/5/2008
lab_id	SB4978-031
qc_type	NM
units	MG/KG
Pct_Solids	58.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	28.0		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB12-SS-0001
samp_date	9/5/2008
lab_id	SB4978-032
qc_type	NM
units	MG/KG
Pct_Solids	85.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	89.0		

nsample	SWTSSB13-SS-0001
samp_date	9/5/2008
lab_id	SB4978-033
qc_type	NM
units	MG/KG
Pct_Solids	66.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	20.0		

nsample	SWTSSB14-SS-0001
samp_date	9/5/2008
lab_id	SB4978-034
qc_type	NM
units	MG/KG
Pct_Solids	93.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	101		

PROJ_NO: 01769

SDG: SB4978 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB15-SS-0001	nsample	SWTSSB16-SS-0001	nsample	SWTSSB17-SS-0001
samp_date	9/5/2008	samp_date	9/5/2008	samp_date	9/5/2008
lab_id	SB4978-035	lab_id	SB4978-036	lab_id	SB4978-037
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	85.5	Pct_Solids	92.3	Pct_Solids	83.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	2770		

Parameter	Result	Val Qual	Qual Code
LEAD	87.0		

Parameter	Result	Val Qual	Qual Code
LEAD	27.9		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTFD-090508-01

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 63.0 **Lab Sample ID:** SB4978-001

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	4230		J	P	5	2.4	0.59

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTFD-090508-02

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 95.3 **Lab Sample ID:** SB4978-002

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3680		J	P	5	2.4	0.59

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB01-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 68.4 **Lab Sample ID:** SB4978-003

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	4500		J	P	5	2.7	0.67

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB02-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 88.5 **Lab Sample ID:** SB4978-004

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	2490		J	P	5	2.4	0.58

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB03-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 75.3 **Lab Sample ID:** SB4978-005

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1580		J	P	5	2.3	0.57

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB04-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 91.6 **Lab Sample ID:** SB4978-006

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	2570		J	P	5	2.4	0.59

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB05-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 88.2 **Lab Sample ID:** SB4978-007

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	2200		J	P	5	2.2	0.53

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SWTNSB06-SS-0001

Matrix: SOIL

SDG Name: SB4978

Percent Solids: 82.2

Lab Sample ID: SB4978-008

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	646		J	P	5	2.7	0.66

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB07-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 90.5 **Lab Sample ID:** SB4978-009

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	307		J	P	5	2.1	0.52

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB08-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 93.6 **Lab Sample ID:** SB4978-010

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1660		J	P	5	2.1	0.51

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB09-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 79.6 **Lab Sample ID:** SB4978-011

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	4750		J	P	5	2.7	0.65

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB10-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 67.7 **Lab Sample ID:** SB4978-012

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	19.4		J	P	2	1.2	0.29

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB11-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 88.1 **Lab Sample ID:** SB4978-013

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	15.6		J	P	2	0.80	0.20

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 93.5

Client Field ID: SWTNSB12-SS-0001

SDG Name: SB4978

Lab Sample ID: SB4978-014

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1410		J	P	5	1.6	0.39

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB13-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 78.2 **Lab Sample ID:** SB4978-015

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	501		J	P	5	2.2	0.54

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB14-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 88.5 **Lab Sample ID:** SB4978-016

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	75.2		J	P	5	2.4	0.60

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB15-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 83.2 **Lab Sample ID:** SB4978-017

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	219		J	P	1	0.50	0.12

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB16-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 94.1 **Lab Sample ID:** SB4978-018

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	668		J	P	5	2.0	0.49

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTNSB17-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 81.7 **Lab Sample ID:** SB4978-019

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	6.6		J	P	2	1.2	0.29

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB01-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 64.8 **Lab Sample ID:** SB4978-021

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	943		J	P	10	5.0	1.23

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB02-SS-0001
Matrix: SOIL
SDG Name: SB4978
Percent Solids: 94.0
Lab Sample ID: SB4978-022

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3550		J	P	5	2.5	0.61

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB03-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 86.1 **Lab Sample ID:** SB4978-023

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	76.1		J	P	2	1.0	0.25

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB04-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 77.8 **Lab Sample ID:** SB4978-024

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1360		J	P	5	2.6	0.63

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB05-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 91.8 **Lab Sample ID:** SB4978-025

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	160		J	P	2	0.77	0.19

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB06-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 84.1 **Lab Sample ID:** SB4978-026

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1610		J	P	5	2.3	0.57

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SWTSSB07-SS-0001

Matrix: SOIL

SDG Name: SB4978

Percent Solids: 87.9

Lab Sample ID: SB4978-027

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1460		J	P	5	2.4	0.58

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB08-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 91.3 **Lab Sample ID:** SB4978-028

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1340		J	P	5	2.0	0.48

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB09-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 82.4 **Lab Sample ID:** SB4978-029

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	66.8		J	P	2	0.99	0.24

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB10-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 83.9 **Lab Sample ID:** SB4978-030

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	236		J	P	2	0.86	0.21

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB11-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 58.2 **Lab Sample ID:** SB4978-031

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	28.0		J	P	2	1.6	0.39

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB12-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 85.8 **Lab Sample ID:** SB4978-032

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	89.0		J	P	2	1.2	0.28

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB13-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 66.5 **Lab Sample ID:** SB4978-033

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	20.0		J	P	2	0.85	0.21

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB14-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 93.6 **Lab Sample ID:** SB4978-034

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	101		J	P	2	1.0	0.25

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB15-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 85.5 **Lab Sample ID:** SB4978-035

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	2770		J	P	5	2.2	0.54

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB16-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 92.3 **Lab Sample ID:** SB4978-036

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	87.0		J	P	2	0.86	0.21

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTSSB17-SS-0001

Matrix: SOIL **SDG Name:** SB4978

Percent Solids: 83.5 **Lab Sample ID:** SB4978-037

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	27.9		J	P	2	0.90	0.22

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SWTRB-090508-01

Matrix: WATER **SDG Name:** SB4978

Percent Solids: 0.00 **Lab Sample ID:** SB4978-020

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	0.97	U	J	P	1	5.0	0.97

Bottle ID: A

Comments:

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-1
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTFD-090508-01	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	63. %	1	D2216	WG55544	10-SEP-08 10:09:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-2
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTFD-090508-02	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	D2216	WG55544	10-SEP-08 10:10:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-3
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB01-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	68. %	1	D2216	WG55544	10-SEP-08 10:01:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-4
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB02-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	D2216	WG55544	10-SEP-08 10:12:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-5
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB03-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	75. %	1	D2216	WG55544	10-SEP-08 10:13:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-6
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB04-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	D2216	WG55544	10-SEP-08 10:15:00	ASTM D2216	09-SEP-08	JF	

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Client: Tobrena Skeen
Tetra Tech NUS, Inc.
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-7
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB05-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	D2216	WG55544	10-SEP-08 10:16:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-8
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB06-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	D2216	WG55544	10-SEP-08 10:17:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-9
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB07-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90. %	1	D2216	WG55544	10-SEP-08 10:18:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-10
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB08-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	D2216	WG55544	10-SEP-08 10:19:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-11
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB09-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	80. %	1	D2216	WG55544	10-SEP-08 10:20:00	ASTM D2216	09-SEP-08	JF	

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Client: Tobrena Skeen
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Lab Sample ID: SB4978-12
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB10-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	68. %	1	D2216	WG55544	10-SEP-08 10:21:00	ASTM D2216	09-SEP-08	JF	

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Client: Tobrena Skeen
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Lab Sample ID: SB4978-13
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB11-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	D2216	WG55544	10-SEP-08 10:22:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-14
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB12-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	93. %	1	D2216	WG55544	10-SEP-08 10:23:00	ASTM D2216	09-SEP-08	JF	

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Lab Sample ID: SB4978-15
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB13-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	78. %	1	D2216	WG55545	10-SEP-08 10:26:00	ASTM D2216	09-SEP-08	JF	

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Client: Tobrena Skeen
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Lab Sample ID: SB4978-16
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB14-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	D2216	WG55545	10-SEP-08 10:28:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-17
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB15-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	83. %	1	D2216	WG55545	10-SEP-08 10:29:00	ASTM D2216	09-SEP-08	JF	

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Client: Tobrena Skeen
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Lab Sample ID: SB4978-18
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB16-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	D2216	WG55545	10-SEP-08 10:30:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-19
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB17-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	D2216	WG55545	10-SEP-08 10:31:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-21
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB01-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	65. %	1	D2216	WG55545	10-SEP-08 10:32:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-22
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB02-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	D2216	WG55545	10-SEP-08 10:33:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SB4978-23
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB03-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	86. %	1	D2216	WG55545	10-SEP-08 10:34:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-24
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB04-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	78. %	1	D2216	WG55545	10-SEP-08 10:35:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Pittsburgh,PA 15220

Lab Sample ID: SB4978-25
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB05-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	D2216	WG55545	10-SEP-08 10:36:00	ASTM D2216	09-SEP-08	JF	

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Cert No E87604

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-26
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB06-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1	D2216	WG55545	10-SEP-08 10:37:00	ASTM D2216	09-SEP-08	JF	

Katahdin
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Cert No E87604

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-27
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB07-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1	D2216	WG55545	10-SEP-08 10:39:00	ASTM D2216	09-SEP-08	JF	

Katahdin
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Cert No E87604

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-28
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB08-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91. %	1	D2216	WG55545	10-SEP-08 10:40:00	ASTM D2216	09-SEP-08	JF	

Katahdin
ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-29
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB09-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	D2216	WG55545	10-SEP-08 10:41:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-30
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB10-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1	D2216	WG55545	10-SEP-08 10:42:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-31
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB11-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	58. %	1	D2216	WG55545	10-SEP-08 10:43:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-32
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB12-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	86. %	1	D2216	WG55545	10-SEP-08 10:44:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-33
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB13-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	66. %	1	D2216	WG55545	10-SEP-08 10:45:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-34
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB14-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	D2216	WG55545	10-SEP-08 10:46:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-35
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB15-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	86. %.	1	D2216	WG55545	10-SEP-08 10:47:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-36
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB16-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	D2216	WG55555	10-SEP-08 10:50:00	ASTM D2216	09-SEP-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SB4978-37
Report Date: 16-SEP-08
Client PO: 1037581
Project: CTO 130 NAS Key West
SDG: SB4978

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB17-SS-0001	SL	05-SEP-08	08-SEP-08

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1	D2216	WG55555	10-SEP-08 10:52:00	ASTM D2216	09-SEP-08	JF	

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APPENDIX C

SUPPORT DOCUMENTATION

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO 130 NAS KEY WEST
SB4978

Sample Receipt

The following samples were received on September 8, 2008 and were logged in under Katahdin Analytical Services work order number SB4978 for a hardcopy due date of September 18, 2008.

KATAHDIN Sample No.	TTNUS Sample Identification
SB4978-1	SWTFD-090508-01
SB4978-2	SWTFD-090508-02
SB4978-3	SWTNSB01-SS-0001
SB4978-4	SWTNSB02-SS-0001
SB4978-5	SWTNSB03-SS-0001
SB4978-6	SWTNSB04-SS-0001
SB4978-7	SWTNSB05-SS-0001
SB4978-8	SWTNSB06-SS-0001
SB4978-9	SWTNSB07-SS-0001
SB4978-10	SWTNSB08-SS-0001
SB4978-11	SWTNSB09-SS-0001
SB4978-12	SWTNSB10-SS-0001
SB4978-13	SWTNSB11-SS-0001
SB4978-14	SWTNSB12-SS-0001
SB4978-15	SWTNSB13-SS-0001
SB4978-16	SWTNSB14-SS-0001
SB4978-17	SWTNSB15-SS-0001
SB4978-18	SWTNSB16-SS-0001
SB4978-19	SWTNSB17-SS-0001
SB4978-20	SWTRB-090508-01
SB4978-21	SWTSSB01-SS-0001
SB4978-22	SWTSSB02-SS-0001
SB4978-23	SWTSSB03-SS-0001
SB4978-24	SWTSSB04-SS-0001
SB4978-25	SWTSSB05-SS-0001
SB4978-26	SWTSSB06-SS-0001
SB4978-27	SWTSSB07-SS-0001
SB4978-28	SWTSSB08-SS-0001
SB4978-29	SWTSSB09-SS-0001
SB4978-30	SWTSSB10-SS-0001
SB4978-31	SWTSSB11-SS-0001
SB4978-32	SWTSSB12-SS-0001
SB4978-33	SWTSSB13-SS-0001
SB4978-34	SWTSSB14-SS-0001

SB4978-35	SWTSSB15-SS-0001
SB4978-36	SWTSSB16-SS-0001
SB4978-37	SWTSSB17-SS-0001

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Metals Analysis

The samples of Katahdin Work Order SB4978 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Soil-matrix Katahdin Sample Nos. SB4978-(1-19, 21) were digested for ICP analysis on 09/09/08 (QC Batch YI09ICS0) in accordance with USEPA Method 3050B. Katahdin Sample No. SB4978-13 was prepared with duplicate matrix-spiked aliquots.

Soil-matrix Katahdin Sample Nos. SB4978-(33-37) were digested for ICP analysis on 09/10/08 (QC Batch YI10ICS0) in accordance with USEPA Method 3050B. Katahdin Sample No. SB4978-30 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix Katahdin Sample No. SB4978-20 was digested for ICP analysis on 09/11/08 (QC Batch YI11ICW1) in accordance with USEPA Method 3010A.

ICP analyses of Work Order SB4978 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Matrix QC Summary

The measured recoveries of lead in the matrix spike (132%) and matrix spike duplicate (158%) aliquots of Katahdin Sample Number SB4978-13 were outside the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added). The lead recovery for a post-digestion matrix spike of this sample digestate is within the laboratory's acceptance limits.

The measured recoveries of lead in both of the matrix-spiked aliquots of Katahdin Sample Number SB4978-30 were within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added).

The matrix spike duplicate analysis of Katahdin Sample Number SB4978-13 was within the laboratory's acceptance limit (<20% relative difference between duplicate aliquots) for lead.

The matrix spike duplicate analysis of Katahdin Sample Number SB4978-30 was outside the laboratory's acceptance limit (<20% relative difference between duplicate aliquots) for lead.

The serial dilution analyses of Katahdin Sample Nos. SB4978-(13, 30) were within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for lead.

Reporting of Metals Results

Analytical results for client samples, matrix QC samples (duplicates and matrix spikes), and batch QC samples (preparation blanks and laboratory control samples) have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, MDLs, and PQLs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of Work Order SB4978 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times, and all quality control criteria were met.

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert. No. E87604

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond 9.18.08

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client: Tetra Tech	KAS PM: AJC	Sampled By: client
Project:	KIMS Entry By: DD	Delivered By: Fed Ex
KAS Work Order#: SB4978	KIMS Review By: AJC	Received By: DD
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 9-8-08 0955

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present?	✓				Temp (°C): 3.9
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? Y or N	✓				Cooler temp. (°C): (if no temp blank)
7. Volatiles free of headspace? **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
8. Trip Blank present in cooler?				✓	
9. Proper sample containers and volume?	✓				
10. Samples within hold time upon receipt?	✓				
11. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	
12. Corrective Action Report Filed?				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

0000006

HOLDTIME

SDG SB4978

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	SWTSSB09-SS-0001	SB4978-029	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTFD-090508-01	SB4978-001	NM	9/5/2008	9/9/2008	9/17/2008	4	8	12
M	MG/KG	SWTSSB02-SS-0001	SB4978-022	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB03-SS-0001	SB4978-023	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB04-SS-0001	SB4978-024	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB05-SS-0001	SB4978-025	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB06-SS-0001	SB4978-026	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTNSB17-SS-0001	SB4978-019	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTSSB08-SS-0001	SB4978-028	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTNSB16-SS-0001	SB4978-018	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTSSB10-SS-0001	SB4978-030	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB11-SS-0001	SB4978-031	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB12-SS-0001	SB4978-032	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB13-SS-0001	SB4978-033	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB14-SS-0001	SB4978-034	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	SWTSSB15-SS-0001	SB4978-035	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB16-SS-0001	SB4978-036	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTSSB07-SS-0001	SB4978-027	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTNSB08-SS-0001	SB4978-010	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTFD-090508-02	SB4978-002	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB01-SS-0001	SB4978-003	NM	9/5/2008	9/9/2008	9/17/2008	4	8	12
M	MG/KG	SWTNSB02-SS-0001	SB4978-004	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB03-SS-0001	SB4978-005	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB04-SS-0001	SB4978-006	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB05-SS-0001	SB4978-007	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTSSB01-SS-0001	SB4978-021	NM	9/5/2008	9/9/2008	9/17/2008	4	8	12
M	MG/KG	SWTNSB07-SS-0001	SB4978-009	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTSSB17-SS-0001	SB4978-037	NM	9/5/2008	9/10/2008	9/16/2008	5	6	11
M	MG/KG	SWTNSB09-SS-0001	SB4978-011	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB10-SS-0001	SB4978-012	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB11-SS-0001	SB4978-013	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB12-SS-0001	SB4978-014	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB13-SS-0001	SB4978-015	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	SWTNSB14-SS-0001	SB4978-016	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB15-SS-0001	SB4978-017	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	MG/KG	SWTNSB06-SS-0001	SB4978-008	NM	9/5/2008	9/9/2008	9/16/2008	4	7	11
M	UG/L	SWTRB-090508-01	SB4978-020	NM	9/5/2008	9/11/2008	9/16/2008	6	5	11
TS	%	SWTSSB09-SS-0001	SB4978-29	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB01-SS-0001	SB4978-21	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB02-SS-0001	SB4978-22	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB03-SS-0001	SB4978-23	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB04-SS-0001	SB4978-24	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB05-SS-0001	SB4978-25	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB06-SS-0001	SB4978-26	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTFD-090508-01	SB4978-1	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB08-SS-0001	SB4978-28	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB15-SS-0001	SB4978-17	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB10-SS-0001	SB4978-30	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB11-SS-0001	SB4978-31	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB12-SS-0001	SB4978-32	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB13-SS-0001	SB4978-33	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	SWTSSB14-SS-0001	SB4978-34	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB15-SS-0001	SB4978-35	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB16-SS-0001	SB4978-36	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB07-SS-0001	SB4978-27	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB07-SS-0001	SB4978-9	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTSSB17-SS-0001	SB4978-37	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTFD-090508-02	SB4978-2	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB01-SS-0001	SB4978-3	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB02-SS-0001	SB4978-4	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB03-SS-0001	SB4978-5	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB04-SS-0001	SB4978-6	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB17-SS-0001	SB4978-19	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB06-SS-0001	SB4978-8	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB16-SS-0001	SB4978-18	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB08-SS-0001	SB4978-10	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB09-SS-0001	SB4978-11	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB10-SS-0001	SB4978-12	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB11-SS-0001	SB4978-13	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	SWTNSB12-SS-0001	SB4978-14	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB13-SS-0001	SB4978-15	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB14-SS-0001	SB4978-16	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5
TS	%	SWTNSB05-SS-0001	SB4978-7	NM	9/5/2008	9/9/2008	9/10/2008	4	1	5

SB4978

TETRA TECH NUS, INC

CHAIN OF CUSTODY
NUMBER: ED00000078-1

Project No:	Facility:	Project Manager:	Carrier:	Laboratory Name:
112G01769	**KEY WEST NAS**	**Chuck Bryan**	**Federal Express**	**Katahdin Analytical Services** **600 Technology Way** **Scarborough, ME 04074**
Task No:	Turn Around Time:	Field Ops Leader:	Carrier/Waybill No.	Point of Contact:
0130	14day	**John Wright**		**Andrea Colby** **207-874-2400**

Date	Sample ID #	Time	Analysis	Loc ID	Matrix	Description	Preservative	Container Count	Container Type	Container Reqs	Comments
09/05/2008	SWTFD-090508-01	00:00	**NONE**	QC	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTFD-090508-02	00:00	**NONE**	QC	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB01-SS-0001	12:45	**SW-846 6010B**	SWTNSB01	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB02-SS-0001	11:55	**SW-846 6010B**	SWTNSB02	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB03-SS-0001	12:00	**SW-846 6010B**	SWTNSB03	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB04-SS-0001	12:10	**SW-846 6010B**	SWTNSB04	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB05-SS-0001	12:15	**SW-846 6010B**	SWTNSB05	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB06-SS-0001	12:25	**SW-846 6010B**	SWTNSB06	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB07-SS-0001	12:30	**SW-846 6010B**	SWTNSB07	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB08-SS-0001	12:35	**SW-846 6010B**	SWTNSB08	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB09-SS-0001	12:40	**SW-846 6010B**	SWTNSB09	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB10-SS-0001	10:45	**SW-846 6010B**	SWTNSB10	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB11-SS-0001	10:50	**SW-846 6010B**	SWTNSB11	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB12-SS-0001	11:05	**SW-846 6010B**	SWTNSB12	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB13-SS-0001	11:15	**SW-846 6010B**	SWTNSB13	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB14-SS-0001	11:20	**SW-846 6010B**	SWTNSB14	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB15-SS-0001	11:25	**SW-846 6010B**	SWTNSB15	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB16-SS-0001	11:45	**SW-846 6010B**	SWTNSB16	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTNSB17-SS-0001	11:50	**SW-846 6010B**	SWTNSB17	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTRB-090508-01	13:00	**SW-846 6010B**	QC	AQ	Total Lead	4°C/HNO3	1	Plastic - PE	125ml	Rinsate Blank
09/05/2008	SWTSSB01-SS-0001	17:30	**SW-846 6010B**	SWTSSB01	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB02-SS-0001	16:30	**SW-846 6010B**	SWTSSB02	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	

000001

09/05/2008	SWTSSB03-SS-0001	16:35	**SW-846 6010B**	SWTSSB03	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB04-SS-0001	16:45	**SW-846 6010B**	SWTSSB04	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB05-SS-0001	16:50	**SW-846 6010B**	SWTSSB05	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB06-SS-0001	17:00	**SW-846 6010B**	SWTSSB06	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB07-SS-0001	17:05	**SW-846 6010B**	SWTSSB07	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB08-SS-0001	17:15	**SW-846 6010B**	SWTSSB08	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB09-SS-0001	17:20	**SW-846 6010B**	SWTSSB09	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB10-SS-0001	15:30	**SW-846 6010B**	SWTSSB10	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB11-SS-0001	15:40	**SW-846 6010B**	SWTSSB11	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB12-SS-0001	15:50	**SW-846 6010B**	SWTSSB12	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB13-SS-0001	15:55	**SW-846 6010B**	SWTSSB13	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB14-SS-0001	16:00	**SW-846 6010B**	SWTSSB14	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB15-SS-0001	16:10	**SW-846 6010B**	SWTSSB15	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB16-SS-0001	16:15	**SW-846 6010B**	SWTSSB16	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	
09/05/2008	SWTSSB17-SS-0001	16:25	**SW-846 6010B**	SWTSSB17	SO	Lead	4°C	1	Glass - Clear	2 oz. wide-mouth w/Teflon cap	

1. Relinquished By: **John Wright**	Date: 09/06/2008	Time: 13:00	Received By: **Federal Express**	Date: 09/06/2008	Time: 13:00
2. Relinquished By:	Date:	Time:	Received By: Don Dorr	Date: 9-8-08	Time: 0955
3. Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Comments:
14-day turn-around time for all samples. Contact John Wright 724-493-6309 with any questions.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICV

File: IYI15A Sep 15, 2008 18:56

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9728.00	97.3
CALCIUM	10000.0	9393.00	93.9
IRON	10000.0	9764.00	97.6
LEAD	400.0	403.30	100.8
MAGNESIUM	10000.0	9664.00	96.6

SAMPLE: CCV

File: IYI15A Sep 15, 2008 19:20

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12550.00	100.4
CALCIUM	12500.0	12310.00	98.5
IRON	12500.0	12510.00	100.1
LEAD	500.0	514.90	103.0
MAGNESIUM	12500.0	12460.00	99.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI15A Sep 15, 2008 20:17

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12410.00	99.3
CALCIUM	12500.0	12480.00	99.8
IRON	12500.0	12490.00	99.9
LEAD	500.0	507.00	101.4
MAGNESIUM	12500.0	12340.00	98.7

SAMPLE: CCV

File: IYI15A Sep 15, 2008 21:05

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12510.00	100.1
CALCIUM	12500.0	12910.00	103.3
IRON	12500.0	12560.00	100.5
LEAD	500.0	508.20	101.6
MAGNESIUM	12500.0	12620.00	101.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI15A Sep 15, 2008 21:28

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12430.00	99.4
CALCIUM	12500.0	12750.00	102.0
IRON	12500.0	12520.00	100.2
LEAD	500.0	506.50	101.3
MAGNESIUM	12500.0	12240.00	97.9

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICV

File: IYI16B Sep 16, 2008 16:59

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9774.00	97.7
CALCIUM	10000.0	9719.00	97.2
IRON	10000.0	9968.00	99.7
LEAD	400.0	406.20	101.6
MAGNESIUM	10000.0	9819.00	98.2

SAMPLE: CCV

File: IYI16B Sep 16, 2008 17:27

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12630.00	101.0
CALCIUM	12500.0	12700.00	101.6
IRON	12500.0	12930.00	103.4
LEAD	500.0	492.20	98.4
MAGNESIUM	12500.0	12580.00	100.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI16B Sep 16, 2008 18:24

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12480.00	99.8
CALCIUM	12500.0	12780.00	102.2
IRON	12500.0	13040.00	104.3
LEAD	500.0	483.40	96.7
MAGNESIUM	12500.0	12640.00	101.1

SAMPLE: CCV

File: IYI16B Sep 16, 2008 19:21

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12810.00	102.5
CALCIUM	12500.0	13130.00	105.0
IRON	12500.0	13400.00	107.2
LEAD	500.0	476.40	95.3
MAGNESIUM	12500.0	12960.00	103.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI16B Sep 16, 2008 20:19

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12590.00	100.7
CALCIUM	12500.0	12820.00	102.6
IRON	12500.0	13020.00	104.2
LEAD	500.0	483.20	96.6
MAGNESIUM	12500.0	12360.00	98.9

SAMPLE: CCV

File: IYI16B Sep 16, 2008 21:16

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12570.00	100.6
CALCIUM	12500.0	12820.00	102.6
IRON	12500.0	12800.00	102.4
LEAD	500.0	491.30	98.3
MAGNESIUM	12500.0	12560.00	100.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI16B Sep 16, 2008 22:14

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12570.00	100.6
CALCIUM	12500.0	12750.00	102.0
IRON	12500.0	12790.00	102.3
LEAD	500.0	488.50	97.7
MAGNESIUM	12500.0	12540.00	100.3

SAMPLE: CCV

File: IYI16B Sep 16, 2008 22:48

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12580.00	100.6
CALCIUM	12500.0	12820.00	102.6
IRON	12500.0	12770.00	102.2
LEAD	500.0	485.60	97.1
MAGNESIUM	12500.0	12500.00	100.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI16B Sep 16, 2008 23:12

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12580.00	100.6
CALCIUM	12500.0	12740.00	101.9
IRON	12500.0	12810.00	102.5
LEAD	500.0	486.70	97.3
MAGNESIUM	12500.0	12200.00	97.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICV

File: IYI17A Sep 17, 2008 16:01

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9714.00	97.1
CALCIUM	10000.0	9677.00	96.8
IRON	10000.0	9860.00	98.6
LEAD	400.0	410.20	102.6
MAGNESIUM	10000.0	9994.00	99.9

SAMPLE: CCV

File: IYI17A Sep 17, 2008 16:25

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12240.00	97.9
CALCIUM	12500.0	12340.00	98.7
IRON	12500.0	12510.00	100.1
LEAD	500.0	494.10	98.8
MAGNESIUM	12500.0	12360.00	98.9

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI17A Sep 17, 2008 17:22

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11960.00	95.7
CALCIUM	12500.0	12250.00	98.0
IRON	12500.0	12320.00	98.6
LEAD	500.0	492.80	98.6
MAGNESIUM	12500.0	12290.00	98.3

SAMPLE: CCV

File: IYI17A Sep 17, 2008 18:19

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12500.00	100.0
CALCIUM	12500.0	12580.00	100.6
IRON	12500.0	12490.00	99.9
LEAD	500.0	505.00	101.0
MAGNESIUM	12500.0	12700.00	101.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCV

File: IYI17A Sep 17, 2008 19:16

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12700.00	101.6
CALCIUM	12500.0	12590.00	100.7
IRON	12500.0	12510.00	100.1
LEAD	500.0	512.20	102.4
MAGNESIUM	12500.0	12850.00	102.8

SAMPLE: CCV

File: IYI17A Sep 17, 2008 20:13

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12900.00	103.2
CALCIUM	12500.0	12760.00	102.1
IRON	12500.0	12530.00	100.2
LEAD	500.0	510.10	102.0
MAGNESIUM	12500.0	12930.00	103.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CRI

File: IYI16B Sep 16, 2008 17:13

Analyte	TRUE	FOUND	% R
LEAD	10.0	9.74	97.4

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI15A Sep 15, 2008 19:06 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	312.00	104.0
CALCIUM	50.0	38.68	77.4
IRON	100.0	101.10	101.1
LEAD	5.0	4.77	95.4
MAGNESIUM	50.0	49.81	99.6

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI15A Sep 15, 2008 21:14 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	318.70	106.2
CALCIUM	50.0	42.72	85.4
IRON	100.0	98.15	98.2
LEAD	5.0	3.75	75.0
MAGNESIUM	50.0	50.30	100.6

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI16B Sep 16, 2008 17:08 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	321.90	107.3
CALCIUM	50.0	59.63	119.3
IRON	100.0	95.87	95.9
LEAD	5.0	5.21	104.2
MAGNESIUM	50.0	51.43	102.9

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI16B Sep 16, 2008 20:04 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	341.90	114.0
CALCIUM	50.0	62.42	124.8
IRON	100.0	104.40	104.4
LEAD	5.0	3.22	64.4
MAGNESIUM	50.0	47.84	95.7

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI16B Sep 16, 2008 22:57 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	327.40	109.1
CALCIUM	50.0	55.48	111.0
IRON	100.0	103.90	103.9
LEAD	5.0	4.51	90.2
MAGNESIUM	50.0	49.92	99.8

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI17A Sep 17, 2008 16:11 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	331.30	110.4
CALCIUM	50.0	44.58	89.2
IRON	100.0	98.72	98.7
LEAD	5.0	5.50	110.0
MAGNESIUM	50.0	50.88	101.8

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

SAMPLE: PQL

File: IYI17A Sep 17, 2008 19:58 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	367.70	122.6
CALCIUM	50.0	46.48	93.0
IRON	100.0	118.30	118.3
LEAD	5.0	5.60	112.0
MAGNESIUM	50.0	55.27	110.5

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICB

File: IYI15A Sep 15, 2008 19:01

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI15A Sep 15, 2008 19:25

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	11.28	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI15A Sep 15, 2008 20:22

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	8.46	I
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCB

File: IYI15A Sep 15, 2008 21:09

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	8.39	I
LEAD	-1.28	I
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI15A Sep 15, 2008 21:33

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	11.36	I
LEAD	1.00	U
MAGNESIUM	10.51	I

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICB

File: IYI16B Sep 16, 2008 17:04

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI16B Sep 16, 2008 17:32

Analyte	Result	C
ALUMINUM	19.82	I
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI16B Sep 16, 2008 18:29

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.94	I
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCB

File: IYI16B Sep 16, 2008 19:26

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.70	I
IRON	10.23	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI16B Sep 16, 2008 20:23

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	10.86	I
LEAD	-1.05	I
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI16B Sep 16, 2008 21:21

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	11.14	I
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCB

File: IYI16B Sep 16, 2008 22:19

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	24.18	I
IRON	16.82	I
LEAD	1.00	U
MAGNESIUM	12.27	I

SAMPLE: CCB

File: IYI16B Sep 16, 2008 22:53

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	33.48	I
IRON	17.76	I
LEAD	1.00	U
MAGNESIUM	11.13	I

SAMPLE: CCB

File: IYI16B Sep 16, 2008 23:16

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	31.11	I
IRON	17.84	I
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICB

File: IYI17A Sep 17, 2008 16:06

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI17A Sep 17, 2008 16:30

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	7.75	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI17A Sep 17, 2008 17:27

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	-9.58	I
IRON	7.84	I
LEAD	1.01	I
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: CCB

File: IYI17A Sep 17, 2008 18:24

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	7.67	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI17A Sep 17, 2008 19:21

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	9.01	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IYI17A Sep 17, 2008 20:17

Analyte	Result	C
ALUMINUM	34.31	I
CALCIUM	8.90	U
IRON	16.29	I
LEAD	1.00	U
MAGNESIUM	10.00	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSYI09ICS0

Matrix: SOIL **SDG Name:** SB4978

QC Batch ID: YI09ICS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
LEAD	0.120	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSYI10ICS0

Matrix: SOIL **SDG Name:** SB4978

QC Batch ID: YI10ICS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
LEAD	0.120	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWYI11ICW1

Matrix: WATER **SDG Name:** SB4978

QC Batch ID: YI11ICW1

Concentration Units : ug/L

Analyte	RESULT	C
LEAD	0.970	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI15A Sep 15, 2008 19:10

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	513600	102.7
CALCIUM	500000	475900	95.2
IRON	200000	190200	95.1
LEAD	0	-3	
MAGNESIUM	500000	493800	98.8

SAMPLE: ICSAB

File: IYI15A Sep 15, 2008 19:15

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	507200	101.4
CALCIUM	500000	468100	93.6
IRON	200000	187400	93.7
LEAD	50	44	88.0
MAGNESIUM	500000	485100	97.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI15A Sep 15, 2008 21:19

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	513600	102.7
CALCIUM	500000	490000	98.0
IRON	200000	190700	95.3
LEAD	0	-2	
MAGNESIUM	500000	481000	96.2

SAMPLE: ICSAB

File: IYI15A Sep 15, 2008 21:24

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	508200	101.6
CALCIUM	500000	483700	96.7
IRON	200000	188500	94.3
LEAD	50	44	88.0
MAGNESIUM	500000	475000	95.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI16B Sep 16, 2008 17:18

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	520000	104.0
CALCIUM	500000	487700	97.5
IRON	200000	196200	98.1
LEAD	0	3	
MAGNESIUM	500000	505400	101.1

SAMPLE: ICSAB

File: IYI16B Sep 16, 2008 17:23

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	519300	103.9
CALCIUM	500000	486200	97.2
IRON	200000	195900	98.0
LEAD	50	52	104.0
MAGNESIUM	500000	499100	99.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI16B Sep 16, 2008 20:09

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	520100	104.0
CALCIUM	500000	499800	100.0
IRON	200000	198700	99.4
LEAD	0	4	
MAGNESIUM	500000	503000	100.6

SAMPLE: ICSAB

File: IYI16B Sep 16, 2008 20:14

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	517800	103.6
CALCIUM	500000	499300	99.9
IRON	200000	198300	99.2
LEAD	50	51	102.0
MAGNESIUM	500000	518800	103.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI16B Sep 16, 2008 23:02

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	524000	104.8
CALCIUM	500000	495100	99.0
IRON	200000	195300	97.7
LEAD	0	6	
MAGNESIUM	500000	501400	100.3

SAMPLE: ICSAB

File: IYI16B Sep 16, 2008 23:07

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	521000	104.2
CALCIUM	500000	490700	98.1
IRON	200000	195000	97.5
LEAD	50	52	104.0
MAGNESIUM	500000	483900	96.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI17A Sep 17, 2008 16:16

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	512900	102.6
CALCIUM	500000	481500	96.3
IRON	200000	190700	95.3
LEAD	0	2	
MAGNESIUM	500000	500600	100.1

SAMPLE: ICSAB

File: IYI17A Sep 17, 2008 16:20

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	510300	102.1
CALCIUM	500000	479900	96.0
IRON	200000	190300	95.2
LEAD	50	48	96.0
MAGNESIUM	500000	486100	97.2

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Concentration Units: ug/L

SAMPLE: ICSA

File: IYI17A Sep 17, 2008 20:03

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	538300	107.7
CALCIUM	500000	495400	99.1
IRON	200000	192000	96.0
LEAD	0	2	
MAGNESIUM	500000	509500	101.9

SAMPLE: ICSAB

File: IYI17A Sep 17, 2008 20:08

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	534700	106.9
CALCIUM	500000	493700	98.7
IRON	200000	191200	95.6
LEAD	50	53	106.0
MAGNESIUM	500000	503400	100.7

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 88.1

Client Field ID: SWTNSB11-SS-0001S

SDG Name: SB4978

Lab Sample ID: SB4978-013P

Concentration Units : mg/Kgdrywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	78.9729		15.6027		39.97	158.5	J	75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 88.1

Client Field ID: SWTNSB11-SS-0001S

SDG Name: SB4978

Lab Sample ID: SB4978-013S

Concentration Units : mg/Kgdrywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	68.3019		15.6027		39.97	131.8	J	75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 83.9

Client Field ID: SWTSSB10-SS-0001S

SDG Name: SB4978

Lab Sample ID: SB4978-030P

Concentration Units : mg/Kgdrywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	280.6977		236.5230		43.49	101.6		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 83.9

Client Field ID: SWTSSB10-SS-0001S

SDG Name: SB4978

Lab Sample ID: SB4978-030S

Concentration Units : mg/Kgdrywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	361.9183		236.5230		44.14	284.1		75	125	P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 88.1

Client Field ID: SWTNSB11-SS-0001S

SDG Name: SB4978

Lab Sample ID: SB4978-013A

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	552.5000		97.6000		500	91.0		75	125	P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services | **Client Field ID:** SWTNSB11-SS-0001

Matrix: SOIL | **SDG Name:** SB4978

Percent Solids: 88.1 | **Lab Sample ID:** SB4978-013

Concentration Units : mg/Kgdrywt

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
LEAD, TOTAL		68.3019		78.9729		14.5		P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Percent Solids: 83.9

Client Field ID: SWTSSB10-SS-0001

SDG Name: SB4978

Lab Sample ID: SB4978-030

Concentration Units : mg/Kgdrywt

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
LEAD, TOTAL		361.9183		280.6977		25.3	J	P

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSSYI09ICS0

Matrix: SOIL **SDG Name:** SB4978

QC Batch ID: YI09ICS0

Concentration Units : mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	158.0	155.27	98.3	82	118

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSSYI10ICS0

Matrix: SOIL **SDG Name:** SB4978

QC Batch ID: YI10ICS0

Concentration Units : mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	158.0	151.20	95.7	82	118

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWYI11ICW1

Matrix: WATER **SDG Name:** SB4978

QC Batch ID: YI11ICW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	519.10	103.8	80	120

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Client Field ID: SWTNSB11-SS-0001L

SDG Name: SB4978

Lab Sample ID: SB4978-013L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
LEAD, TOTAL	97.60		105.10		7.7		P

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Client Field ID: SWTSSB10-SS-0001L

SDG Name: SB4978

Lab Sample ID: SB4978-030L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
LEAD, TOTAL	1369.50		1469.00		7.3		P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 8/13/2008

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	19.00	P
CALCIUM	50	8.90	P
IRON	100	6.80	P
LEAD	5.0	1.00	P
MAGNESIUM	50	10.00	P

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/8/2008

Analyte	MDL	Units	M	EPA Prep./Anal. Method
LEAD	0.97	ug/L	P	SW846 3010A / SW846 6010B

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/9/2008

Analyte	MDL	Units	M	EPA Prep./Anal. Method
LEAD	0.12	mg/Kg	P	SW846 3050B / SW846 6010B

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Instrument Name: THERMO ICAP 6500 **Date:** 9/19/2007

Instrument ID: I

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co	Cr	Cu	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0002310	0.0	0.0	0.0	0.0	0.0	0.0492690	0.0	0.0	0.0
ANTIMONY	206.88	0.0000070	0.0	0.0000320	0.0	0.0	0.0135440	0.0	-0.0050900	-0.0006530	0.0	-0.0012130
ARSENIC	189.04	-0.0000020	0.0	-0.0002190	0.0	0.0	0.0004750	0.0	0.0014020	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0003030	0.0005500
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0308360	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000780	0.0	-0.0000220	0.0	0.0	0.0	-0.0000800	-0.0000120	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0012890	-0.0004940	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	-0.0000070	0.0	0.0	0.0	0.0	-0.0000210	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0000160	0.0	0.0	-0.0000800	0.0	0.0000180	0.0000830	0.0019920	0.0
COPPER	327.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006350	0.0002980
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0005620	0.0	0.0	0.0
LEAD	220.35	-0.0000820	0.0	0.0000350	0.0	-0.0000490	0.0	0.0000790	-0.0014420	0.0001840	-0.0000270	0.0
MAGNESIUM	285.21	0.0	0.0	-0.0000030	0.0	0.0	0.0006030	0.0	0.0	0.0	0.0	0.0
MANGANESE	257.61	0.0	0.0	0.0	0.0000260	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0	0.0	-0.0001440
NICKEL	231.60	0.0	0.0	-0.0000400	0.0	0.0003390	0.0	0.0	0.0015690	0.0	0.0	0.0
SELENIUM	196.09	-0.0000020	0.0	-0.0000790	0.0	-0.0001540	0.0	0.0	0.0	0.0	0.0	-0.0000210
SILVER	328.07	0.0	0.0	-0.0001320	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001650	0.0
THALLIUM	190.86	0.0	0.0	-0.0000020	0.0	0.0018720	0.0	-0.0000030	-0.0000300	0.0	-0.0015350	0.0005220
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0008550	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000160	0.0	0.0	-0.0028800	0.0	-0.0077010	0.0	0.0004950	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0005230	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

Sample Data Summary A0000092

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 10/4/2007

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	1000000	P
CALCIUM	5.00	1000000	P
IRON	5.00	400000	P
LEAD	60.00	20000	P
MAGNESIUM	5.00	500000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** YI09ICS0

Matrix: SOIL **SDG Name:** SB4978

Method: P **Prep Date:** 09/09/2008

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSYI09ICS0	LCSSYI09ICS0	0.5037	0.1
PBSYI09ICS0	PBSYI09ICS0	1	0.1
SWTFD-090508-01	SB4978-001	1.63	0.1
SWTFD-090508-02	SB4978-002	1.09	0.1
SWTNSB01-SS-0001	SB4978-003	1.33	0.1
SWTNSB02-SS-0001	SB4978-004	1.18	0.1
SWTNSB03-SS-0001	SB4978-005	1.42	0.1
SWTNSB04-SS-0001	SB4978-006	1.12	0.1
SWTNSB05-SS-0001	SB4978-007	1.31	0.1
SWTNSB06-SS-0001	SB4978-008	1.13	0.1
SWTNSB07-SS-0001	SB4978-009	1.29	0.1
SWTNSB08-SS-0001	SB4978-010	1.29	0.1
SWTNSB09-SS-0001	SB4978-011	1.18	0.1
SWTNSB10-SS-0001	SB4978-012	1.26	0.1
SWTNSB11-SS-0001	SB4978-013	1.42	0.1
SWTNSB11-SS-0001P	SB4978-013P	1.42	0.1
SWTNSB11-SS-0001S	SB4978-013S	1.42	0.1
SWTNSB12-SS-0001	SB4978-014	1.66	0.1
SWTNSB13-SS-0001	SB4978-015	1.45	0.1
SWTNSB14-SS-0001	SB4978-016	1.15	0.1
SWTNSB15-SS-0001	SB4978-017	1.2	0.1
SWTNSB16-SS-0001	SB4978-018	1.32	0.1
SWTNSB17-SS-0001	SB4978-019	1.03	0.1
SWTSSB01-SS-0001	SB4978-021	1.53	0.1

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** YI10ICS0

Matrix: SOIL **SDG Name:** SB4978

Method: P **Prep Date:** 09/10/2008

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSYI10ICS0	LCSSYI10ICS0	0.501	0.1
PBSYI10ICS0	PBSYI10ICS0	1	0.1
SWTSSB02-SS-0001	SB4978-022	1.07	0.1
SWTSSB03-SS-0001	SB4978-023	1.15	0.1
SWTSSB04-SS-0001	SB4978-024	1.24	0.1
SWTSSB05-SS-0001	SB4978-025	1.41	0.1
SWTSSB06-SS-0001	SB4978-026	1.28	0.1
SWTSSB07-SS-0001	SB4978-027	1.2	0.1
SWTSSB08-SS-0001	SB4978-028	1.38	0.1
SWTSSB09-SS-0001	SB4978-029	1.23	0.1
SWTSSB10-SS-0001	SB4978-030	1.38	0.1
SWTSSB10-SS-0001P	SB4978-030P	1.37	0.1
SWTSSB10-SS-0001S	SB4978-030S	1.35	0.1
SWTSSB11-SS-0001	SB4978-031	1.07	0.1
SWTSSB12-SS-0001	SB4978-032	1.01	0.1
SWTSSB13-SS-0001	SB4978-033	1.76	0.1
SWTSSB14-SS-0001	SB4978-034	1.03	0.1
SWTSSB15-SS-0001	SB4978-035	1.31	0.1
SWTSSB16-SS-0001	SB4978-036	1.26	0.1
SWTSSB17-SS-0001	SB4978-037	1.33	0.1

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** YI11ICW1

Matrix: WATER **SDG Name:** SB4978

Method: P **Prep Date:** 09/11/2008

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWYI11ICW1	LCSWYI11ICW1	0.05	0.05
PBWYI11ICW1	PBWYI11ICW1	0.05	0.05
SWTRB-090508-01	SB4978-020	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Instrument ID: THERMO ICAP 6500 **File Name:** IYI15A

Date: 9/15/2008 **Method:** P

Lab Sample ID	Client ID	D.F.	Time			Elements
Blank		1	18:28	AL	CA	FE PB MG
ZZZZZZ		1	18:33			
Std 1		1	18:37	AL	CA	FE PB MG
ZZZZZZ		1	18:42			
ZZZZZZ		1	18:47			
ZZZZZZ		1	18:51			
ICV		1	18:56	AL	CA	FE PB MG
ICB		1	19:01	AL	CA	FE PB MG
PQL		1	19:06	AL	CA	FE PB MG
ICSA		1	19:10	AL	CA	FE PB MG
ICSAB		1	19:15	AL	CA	FE PB MG
CCV		1	19:20	AL	CA	FE PB MG
CCB		1	19:25	AL	CA	FE PB MG
ZZZZZZ		1	19:29			
ZZZZZZ		1	19:34			
ZZZZZZ		5	19:39			
ZZZZZZ		1	19:44			
ZZZZZZ		5	19:48			
ZZZZZZ		5	19:53			
ZZZZZZ		25	19:58			
ZZZZZZ		5	20:03			
ZZZZZZ		5	20:08			
ZZZZZZ		2	20:12			
CCV		1	20:17	AL	CA	FE PB MG
CCB		1	20:22	AL	CA	FE PB MG
ZZZZZZ		1	20:26			
ZZZZZZ		1	20:31			
LCSWYI11ICW1		1	20:36			PB
PBWYI11ICW1		1	20:41			PB
ZZZZZZ		1	20:46			
ZZZZZZ		1	20:50			
ZZZZZZ		5	20:55			
ZZZZZZ		1	21:00			
CCV		1	21:05	AL	CA	FE PB MG
CCB		1	21:09	AL	CA	FE PB MG
PQL		1	21:14	AL	CA	FE PB MG
ICSA		1	21:19	AL	CA	FE PB MG
ICSAB		1	21:24	AL	CA	FE PB MG
CCV		1	21:28	AL	CA	FE PB MG
CCB		1	21:33	AL	CA	FE PB MG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Instrument ID: THERMO ICAP 6500 **File Name:** IYI16B

Date: 9/16/2008 **Method:** P

Lab Sample ID	Client ID	D.F.	Time			Elements
Blank		1	16:49	AL	CA	FE PB MG
Std 1		1	16:54	AL	CA	FE PB MG
ICV		1	16:59	AL	CA	FE PB MG
ICB		1	17:04	AL	CA	FE PB MG
PQL		1	17:08	AL	CA	FE PB MG
CRI		1	17:13	AL	CA	FE PB MG
ICSA		1	17:18	AL	CA	FE PB MG
ICSAB		1	17:23	AL	CA	FE PB MG
CCV		1	17:27	AL	CA	FE PB MG
CCB		1	17:32	AL	CA	FE PB MG
ZZZZZZ		1	17:37			
ZZZZZZ		1	17:42			
ZZZZZZ		5	17:46			
ZZZZZZ		1	17:51			
ZZZZZZ		1	17:56			
SB4978-020	SWTRB-090508-01	1	18:00			PB
PBSYI09ICS0		1	18:05			PB
LCSSYI09ICS0		1	18:10			PB
ZZZZZZ		1	18:15			
SB4978-002	SWTFD-090508-02	5	18:20			PB
CCV		1	18:24	AL	CA	FE PB MG
CCB		1	18:29	AL	CA	FE PB MG
ZZZZZZ		1	18:34			
SB4978-004	SWTNSB02-SS-0001	5	18:39			PB
SB4978-005	SWTNSB03-SS-0001	5	18:43			PB
SB4978-006	SWTNSB04-SS-0001	5	18:48			PB
SB4978-007	SWTNSB05-SS-0001	5	18:53			PB
SB4978-008	SWTNSB06-SS-0001	5	18:57			PB
SB4978-009	SWTNSB07-SS-0001	5	19:02			PB
SB4978-010	SWTNSB08-SS-0001	5	19:07			PB
SB4978-011	SWTNSB09-SS-0001	5	19:12			PB
SB4978-012	SWTNSB10-SS-0001	2	19:17			PB
CCV		1	19:21	AL	CA	FE PB MG
CCB		1	19:26	AL	CA	FE PB MG
SB4978-013	SWTNSB11-SS-0001	2	19:31			PB
SB4978-013L	SWTNSB11-SS-0001L	10	19:36			PB
SB4978-013S	SWTNSB11-SS-0001S	2	19:40			PB
SB4978-013P	SWTNSB11-SS-0001P	2	19:45			PB
SB4978-014	SWTNSB12-SS-0001	5	19:50			PB
SB4978-015	SWTNSB13-SS-0001	5	19:55			PB
SB4978-016	SWTNSB14-SS-0001	5	20:00			PB
PQL		1	20:04	AL	CA	FE PB MG
ICSA		1	20:09	AL	CA	FE PB MG
ICSAB		1	20:14	AL	CA	FE PB MG
CCV		1	20:19	AL	CA	FE PB MG
CCB		1	20:23	AL	CA	FE PB MG
SB4978-017	SWTNSB15-SS-0001	1	20:28			PB
SB4978-018	SWTNSB16-SS-0001	5	20:33			PB
SB4978-019	SWTNSB17-SS-0001	2	20:38			PB
ZZZZZZ		2	20:43			

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Instrument ID: THERMO ICAP 6500 **File Name:** IYI16B

Date: 9/16/2008 **Method:** P

Lab Sample ID	Client ID	D.F.	Time			Elements
PBSYI10ICS0		1	20:48			PB
LCSSYI10ICS0		1	20:52			PB
SB4978-022	SWTSSB02-SS-0001	5	20:57			PB
SB4978-023	SWTSSB03-SS-0001	2	21:02			PB
SB4978-024	SWTSSB04-SS-0001	5	21:07			PB
SB4978-025	SWTSSB05-SS-0001	2	21:11			PB
CCV		1	21:16	AL	CA	FE PB MG
CCB		1	21:21	AL	CA	FE PB MG
SB4978-026	SWTSSB06-SS-0001	5	21:26			PB
SB4978-027	SWTSSB07-SS-0001	5	21:30			PB
SB4978-028	SWTSSB08-SS-0001	5	21:35			PB
SB4978-029	SWTSSB09-SS-0001	2	21:40			PB
SB4978-030	SWTSSB10-SS-0001	2	21:45			PB
SB4978-030L	SWTSSB10-SS-0001L	10	21:50			PB
SB4978-030S	SWTSSB10-SS-0001S	2	21:55			PB
SB4978-030P	SWTSSB10-SS-0001P	2	21:59			PB
SB4978-031	SWTSSB11-SS-0001	2	22:04			PB
SB4978-032	SWTSSB12-SS-0001	2	22:09			PB
CCV		1	22:14	AL	CA	FE PB MG
CCB		1	22:19	AL	CA	FE PB MG
SB4978-033	SWTSSB13-SS-0001	2	22:23			PB
SB4978-034	SWTSSB14-SS-0001	2	22:28			PB
SB4978-035	SWTSSB15-SS-0001	5	22:33			PB
SB4978-036	SWTSSB16-SS-0001	2	22:38			PB
SB4978-037	SWTSSB17-SS-0001	2	22:43			PB
CCV		1	22:48	AL	CA	FE PB MG
CCB		1	22:53	AL	CA	FE PB MG
PQL		1	22:57	AL	CA	FE PB MG
ICSA		1	23:02	AL	CA	FE PB MG
ICSAB		1	23:07	AL	CA	FE PB MG
CCV		1	23:12	AL	CA	FE PB MG
CCB		1	23:16	AL	CA	FE PB MG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Instrument ID: THERMO ICAP 6500 **File Name:** IYI17A

Date: 9/17/2008 **Method:** P

Lab Sample ID	Client ID	D.F.	Time			Elements
Blank		1	15:52	AL	CA	FE PB MG
Std 1		1	15:57	AL	CA	FE PB MG
ICV		1	16:01	AL	CA	FE PB MG
ICB		1	16:06	AL	CA	FE PB MG
PQL		1	16:11	AL	CA	FE PB MG
ICSA		1	16:16	AL	CA	FE PB MG
ICSAB		1	16:20	AL	CA	FE PB MG
CCV		1	16:25	AL	CA	FE PB MG
CCB		1	16:30	AL	CA	FE PB MG
ZZZZZZ		1	16:35			
SB4978-001	SWTFD-090508-01	5	16:39			PB
SB4978-003	SWTNSB01-SS-0001	5	16:44			PB
SB4978-013A	SWTNSB11-SS-0001A	2	16:49			PB
SB4978-021	SWTSSB01-SS-0001	10	16:54			PB
ZZZZZZ		1	16:58			
ZZZZZZ		1	17:03			
ZZZZZZ		1	17:08			
ZZZZZZ		1	17:13			
ZZZZZZ		1	17:17			
CCV		1	17:22	AL	CA	FE PB MG
CCB		1	17:27	AL	CA	FE PB MG
ZZZZZZ		1	17:32			
ZZZZZZ		1	17:36			
ZZZZZZ		1	17:41			
ZZZZZZ		1	17:46			
ZZZZZZ		1	17:51			
ZZZZZZ		1	17:55			
ZZZZZZ		1	18:00			
ZZZZZZ		5	18:05			
ZZZZZZ		5	18:10			
ZZZZZZ		1	18:15			
CCV		1	18:19	AL	CA	FE PB MG
CCB		1	18:24	AL	CA	FE PB MG
ZZZZZZ		5	18:29			
ZZZZZZ		1	18:34			
ZZZZZZ		1	18:38			
ZZZZZZ		1	18:43			
ZZZZZZ		1	18:48			
ZZZZZZ		1	18:52			
ZZZZZZ		1	18:57			
ZZZZZZ		5	19:02			
ZZZZZZ		1	19:07			
ZZZZZZ		1	19:11			
CCV		1	19:16	AL	CA	FE PB MG
CCB		1	19:21	AL	CA	FE PB MG
ZZZZZZ		1	19:25			
ZZZZZZ		1	19:30			
ZZZZZZ		1	19:35			
ZZZZZZ		1	19:39			
ZZZZZZ		1	19:44			

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SB4978

Instrument ID: THERMO ICAP 6500 **File Name:** IYI17A

Date: 9/17/2008 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements		
ZZZZZZ		1	19:49			
ZZZZZZ		1	19:54			
PQL		1	19:58	AL	CA	FE PB MG
ICSA		1	20:03	AL	CA	FE PB MG
ICSAB		1	20:08	AL	CA	FE PB MG
CCV		1	20:13	AL	CA	FE PB MG
CCB		1	20:17	AL	CA	FE PB MG

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG55544	ASTM D2216	10-SEP-08	09-SEP-08	U 1 %	1 %
MBLANK	WG55545	ASTM D2216	10-SEP-08	09-SEP-08	U 1 %	1 %
MBLANK	WG55555	ASTM D2216	10-SEP-08	09-SEP-08	U 1 %	1 %

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG55544-2	LCS	WG55544	10-SEP-08	09-SEP-08	%	90	90.	100	80-120	
WG55545-2	LCS	WG55545	10-SEP-08	09-SEP-08	%	90	90.	100	80-120	
WG55555-2	LCS	WG55555	10-SEP-08	09-SEP-08	%	90	90.	100	80-120	

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG55544-4	SB4978-5	WG55544	10-SEP-08	%	75.	75.	0	20
WG55545-3	SB4978-15	WG55545	10-SEP-08	%	78.	78.	0	20
WG55545-4	SB4978-26	WG55545	10-SEP-08	%	84.	85.	1	20
WG55555-3	SB4978-36	WG55555	10-SEP-08	%	92.	93.	1	20

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com

NAS KEY WEST
SOIL DATA
SB4978

FRACTION	CHEMICAL	SWTFD-090508-01	UNITS	SWTNSB01-SS-0001	RPD	D
M	LEAD	4230	MG/KG	4500 J	6.19	270.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS KEY WEST
SOIL DATA
SB4978

FRACTION	CHEMICAL	SWTFD-090508-01	UNITS	SWTNSB01-SS-0001	RPD	D
MISC	TOTAL SOLIDS	63	%	68	7.63	5.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS KEY WEST
SOIL DATA
SB4978

FRACTION	CHEMICAL	SWTFD-090508-02	UNITS	SWTNSB02-SS-0001	RPD	D
M	LEAD	3680	MG/KG	2490 J	38.57	1190.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS KEY WEST
SOIL DATA
SB4978

FRACTION	CHEMICAL	SWTFD-090508-02	UNITS	SWTNSB02-SS-0001	RPD	D
MISC	TOTAL SOLIDS	95	%	88	7.65	7.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**C. BRYAN**	**DATE:**	**FEBRUARY 20, 2009**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –LEAD**
NAS KEY WEST – CTO 130
SAMPLE DELIVERY GROUP (SDG) – SC0100

SAMPLES: 36/Solid/

SWTNFD-010709-01	SWTNFD-010809-01	SWTNSB18-SS-0001
SWTNSB19-SS-0001	SWTNSB20-SS-0001	SWTNSB21-SS-0001
SWTNSB22-SS-0001	SWTNSB23-SS-0001	SWTNSB24-SS-0001
SWTNSB25-SS-0001	SWTNSB26-SS-0001	SWTNSB27-SS-0001
SWTNSB28-SS-0001	SWTNSB29-SS-0001	SWTNSB30-SS-0001
SWTNSB31-SS-0001	SWTNSB32-SS-0001	SWTNSB33-SS-0001
SWTNSB34-SS-0001	SWTSSB18-SS-0001	SWTSSB19-SS-0001
SWTSSB20-SS-0001	SWTSSB21-SS-0001	SWTSSB22-SS-0001
SWTSSB23-SS-0001	SWTSSB24-SS-0001	SWTSSB25-SS-0001
SWTSSB26-SS-0001	SWTSSB27-SS-0001	SWTSSB28-SS-0001
SWTSSB29-SS-0001	SWTSSB30-SS-0001	SWTSSB31-SS-0001
SWTSSB32-SS-0001	SWTSSB33-SS-0001	SWTSSB34-SS-0001

1/Aqueous/

SWTRB-010809-01

Overview

The sample set for NAS Key West, CTO 130, SDG SC0100, consists of thirty six solid environmental samples and one aqueous field quality control blank. Two field duplicate pairs (SWTNFD-010709-01 / SWTSSB190SS-0001) and (SWTNFD-010809-01 / SWTNSSB18-SS-0001) are included in this SDG.

All samples were analyzed for lead. The samples were collected by Tetra Tech NUS on January 7th – 8th, 2009 and analyzed by Katahdin Analytical Services. Lead analyses were conducted in accordance with SW-846 method 6010B and Inductively Coupled Plasma – Atomic Emission Spectrometer (ICP-AES) instrumentation and methodology.

Data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • Field Duplicate Precision
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Method/Preparation Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Lead [1]	0.461 mg/kg	2.30 mg/kg
Lead [2]	0.152 mg/kg	0.76 mg/kg

[1] Maximum concentration present in laboratory method blank PBSZA15ICS0 affecting all samples in preparation batch ZA15ICS0.

[2] Maximum concentration present in laboratory method blank PBSZA19ICS0 affecting all samples in preparation batch ZA19ICS0.

An action level of five times 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. No date was qualified due to blank contamination.

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 Data 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.

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

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

Data Validation Qualifier Codes:

A	= Lab Blank Contamination
B	= Field Blank Contamination
C	= Calibration Noncompliance (e.g. %RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	= GC/MS Tuning Noncompliance
D	= MS/MSD Recovery Noncompliance
E	= LCS/LCSD Recovery Noncompliance
F	= Laboratory Duplicate Imprecision
G	= Field Duplicate Imprecision
H	= Holding Time Exceedance
I	= ICP Serial Dilution Noncompliance
J	= GFAA PDS – GFAA MSA's r <0.995 / ICP PDS Recovery Noncompliance
K	= IPC Interference – included 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 (e.g. base-line drifting)
P	= Uncertainty near detection limit (< 2 x IDL for inorganics and < CRDL for organics)
Q	= Other problems (can encompass a number of issues; e.g. chromatography, interferences, etc.)
R	= Surrogate Recovery Noncompliance
S	= Pesticide/PCB Resolution
T	= % Breakdown Noncompliance for DDT and Endrin
U	= % Difference between columns/detectors > 25% for positive results determined via GC/HPLC
V	= Non-linear calibrations; correlation coefficient r < 0.995
W	= EMPC result
X	= Signal to noise response drop
Y	= Percent solids <30%
Z	= Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNFD-010709-01	nsample	SWTNFD-010809-01	nsample	SWTNSB18-SS-0001
samp_date	1/7/2009	samp_date	1/8/2009	samp_date	1/8/2009
lab_id	SC0100-035	lab_id	SC0100-036	lab_id	SC0100-018
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	92.0	Pct_Solids	89.6	Pct_Solids	90.6
DUP_OF:	SWTSSB19-SS-0001	DUP_OF:	SWTNSSB18-SS-0001	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	687		

Parameter	Result	Val Qual	Qual Code
LEAD	76.8		

Parameter	Result	Val Qual	Qual Code
LEAD	61.8		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB19-SS-0001
samp_date	1/8/2009
lab_id	SC0100-019
qc_type	NM
units	MG/KG
Pct_Solids	87.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	2720		

nsample	SWTNSB20-SS-0001
samp_date	1/8/2009
lab_id	SC0100-020
qc_type	NM
units	MG/KG
Pct_Solids	90.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	412		

nsample	SWTNSB21-SS-0001
samp_date	1/8/2009
lab_id	SC0100-021
qc_type	NM
units	MG/KG
Pct_Solids	88.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1830		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB22-SS-0001
samp_date	1/8/2009
lab_id	SC0100-022
qc_type	NM
units	MG/KG
Pct_Solids	82.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	3510		

nsample	SWTNSB23-SS-0001
samp_date	1/8/2009
lab_id	SC0100-023
qc_type	NM
units	MG/KG
Pct_Solids	78.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1340		

nsample	SWTNSB24-SS-0001
samp_date	1/8/2009
lab_id	SC0100-024
qc_type	NM
units	MG/KG
Pct_Solids	66.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	933		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB25-SS-0001
samp_date	1/8/2009
lab_id	SC0100-025
qc_type	NM
units	MG/KG
Pct_Solids	74.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1080		

nsample	SWTNSB26-SS-0001
samp_date	1/8/2009
lab_id	SC0100-026
qc_type	NM
units	MG/KG
Pct_Solids	72.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	2160		

nsample	SWTNSB27-SS-0001
samp_date	1/7/2009
lab_id	SC0100-027
qc_type	NM
units	MG/KG
Pct_Solids	83.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	17.5		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB28-SS-0001
samp_date	1/7/2009
lab_id	SC0100-028
qc_type	NM
units	MG/KG
Pct_Solids	93.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	310		

nsample	SWTNSB29-SS-0001
samp_date	1/8/2009
lab_id	SC0100-029
qc_type	NM
units	MG/KG
Pct_Solids	89.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1610		

nsample	SWTNSB30-SS-0001
samp_date	1/8/2009
lab_id	SC0100-030
qc_type	NM
units	MG/KG
Pct_Solids	90.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	148		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB31-SS-0001
samp_date	1/8/2009
lab_id	SC0100-031
qc_type	NM
units	MG/KG
Pct_Solids	87.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	160		

nsample	SWTNSB32-SS-0001
samp_date	1/8/2009
lab_id	SC0100-032
qc_type	NM
units	MG/KG
Pct_Solids	88.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	79.6		

nsample	SWTNSB33-SS-0001
samp_date	1/8/2009
lab_id	SC0100-033
qc_type	NM
units	MG/KG
Pct_Solids	86.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	382		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTNSB34-SS-0001
samp_date	1/7/2009
lab_id	SC0100-034
qc_type	NM
units	MG/KG
Pct_Solids	89.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	11.4		

nsample	SWTSSB18-SS-0001
samp_date	1/7/2009
lab_id	SC0100-001
qc_type	NM
units	MG/KG
Pct_Solids	90.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	3.2		

nsample	SWTSSB19-SS-0001
samp_date	1/7/2009
lab_id	SC0100-002
qc_type	NM
units	MG/KG
Pct_Solids	91.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	759		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB20-SS-0001
samp_date	1/7/2009
lab_id	SC0100-003
qc_type	NM
units	MG/KG
Pct_Solids	88.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	592		

nsample	SWTSSB21-SS-0001
samp_date	1/7/2009
lab_id	SC0100-004
qc_type	NM
units	MG/KG
Pct_Solids	90.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	517		

nsample	SWTSSB22-SS-0001
samp_date	1/7/2009
lab_id	SC0100-005
qc_type	NM
units	MG/KG
Pct_Solids	91.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	645		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB23-SS-0001
samp_date	1/7/2009
lab_id	SC0100-006
qc_type	NM
units	MG/KG
Pct_Solids	92.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	55		

nsample	SWTSSB24-SS-0001
samp_date	1/7/2009
lab_id	SC0100-007
qc_type	NM
units	MG/KG
Pct_Solids	86.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1230		

nsample	SWTSSB25-SS-0001
samp_date	1/7/2009
lab_id	SC0100-008
qc_type	NM
units	MG/KG
Pct_Solids	71.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	485		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB26-SS-0001
samp_date	1/7/2009
lab_id	SC0100-009
qc_type	NM
units	MG/KG
Pct_Solids	88.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	58.8		

nsample	SWTSSB27-SS-0001
samp_date	1/7/2009
lab_id	SC0100-010
qc_type	NM
units	MG/KG
Pct_Solids	91.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	231		

nsample	SWTSSB28-SS-0001
samp_date	1/8/2009
lab_id	SC0100-011
qc_type	NM
units	MG/KG
Pct_Solids	73.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	47.6		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB29-SS-0001
samp_date	1/7/2009
lab_id	SC0100-012
qc_type	NM
units	MG/KG
Pct_Solids	90.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	55.4		

nsample	SWTSSB30-SS-0001
samp_date	1/8/2009
lab_id	SC0100-013
qc_type	NM
units	MG/KG
Pct_Solids	87.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	31.4		

nsample	SWTSSB31-SS-0001
samp_date	1/7/2009
lab_id	SC0100-014
qc_type	NM
units	MG/KG
Pct_Solids	90.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	161		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: M

nsample	SWTSSB32-SS-0001
samp_date	1/8/2009
lab_id	SC0100-015
qc_type	NM
units	MG/KG
Pct_Solids	91.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	584		

nsample	SWTSSB33-SS-0001
samp_date	1/7/2009
lab_id	SC0100-016
qc_type	NM
units	MG/KG
Pct_Solids	88.3
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	913		

nsample	SWTSSB34-SS-0001
samp_date	1/7/2009
lab_id	SC0100-017
qc_type	NM
units	MG/KG
Pct_Solids	89.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	48.9		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNFD-010709-01
samp_date	1/7/2009
lab_id	SC0100-35
qc_type	NM
Pct_Solids	92.0
DUP_OF:	SWTSSB190SS-0001

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	92		

nsample	SWTNFD-010809-01
samp_date	1/8/2009
lab_id	SC0100-36
qc_type	NM
Pct_Solids	89.6
DUP_OF:	SWTNSSB18-SS-0001

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

nsample	SWTNSB18-SS-0001
samp_date	1/8/2009
lab_id	SC0100-18
qc_type	NM
Pct_Solids	90.6
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNSB19-SS-0001
samp_date	1/8/2009
lab_id	SC0100-19
qc_type	NM
Pct_Solids	87.6
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	88		

nsample	SWTNSB20-SS-0001
samp_date	1/8/2009
lab_id	SC0100-20
qc_type	NM
Pct_Solids	90.8
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

nsample	SWTNSB21-SS-0001
samp_date	1/8/2009
lab_id	SC0100-21
qc_type	NM
Pct_Solids	88.5
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	88		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNSB22-SS-0001
samp_date	1/8/2009
lab_id	SC0100-22
qc_type	NM
Pct_Solids	82.5
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	82		

nsample	SWTNSB23-SS-0001
samp_date	1/8/2009
lab_id	SC0100-23
qc_type	NM
Pct_Solids	78.5
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	78		

nsample	SWTNSB24-SS-0001
samp_date	1/8/2009
lab_id	SC0100-24
qc_type	NM
Pct_Solids	66.4
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	66		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNSB25-SS-0001
samp_date	1/8/2009
lab_id	SC0100-25
qc_type	NM
Pct_Solids	74.4
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	74		

nsample	SWTNSB26-SS-0001
samp_date	1/8/2009
lab_id	SC0100-26
qc_type	NM
Pct_Solids	72.9
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	73		

nsample	SWTNSB27-SS-0001
samp_date	1/7/2009
lab_id	SC0100-27
qc_type	NM
Pct_Solids	83.9
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	84		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNSB28-SS-0001
samp_date	1/7/2009
lab_id	SC0100-28
qc_type	NM
Pct_Solids	93.0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	93		

nsample	SWTNSB29-SS-0001
samp_date	1/8/2009
lab_id	SC0100-29
qc_type	NM
Pct_Solids	89.2
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	89		

nsample	SWTNSB30-SS-0001
samp_date	1/8/2009
lab_id	SC0100-30
qc_type	NM
Pct_Solids	90.4
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNSB31-SS-0001
samp_date	1/8/2009
lab_id	SC0100-31
qc_type	NM
Pct_Solids	87.7
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	88		

nsample	SWTNSB32-SS-0001
samp_date	1/8/2009
lab_id	SC0100-32
qc_type	NM
Pct_Solids	88.8
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	89		

nsample	SWTNSB33-SS-0001
samp_date	1/8/2009
lab_id	SC0100-33
qc_type	NM
Pct_Solids	86.7
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	87		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTNSB34-SS-0001
samp_date	1/7/2009
lab_id	SC0100-34
qc_type	NM
Pct_Solids	89.6
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

nsample	SWTSSB18-SS-0001
samp_date	1/7/2009
lab_id	SC0100-1
qc_type	NM
Pct_Solids	90.0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

nsample	SWTSSB19-SS-0001
samp_date	1/7/2009
lab_id	SC0100-2
qc_type	NM
Pct_Solids	91.1
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTSSB20-SS-0001
samp_date	1/7/2009
lab_id	SC0100-3
qc_type	NM
Pct_Solids	88.1
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	88		

nsample	SWTSSB21-SS-0001
samp_date	1/7/2009
lab_id	SC0100-4
qc_type	NM
Pct_Solids	90.8
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

nsample	SWTSSB22-SS-0001
samp_date	1/7/2009
lab_id	SC0100-5
qc_type	NM
Pct_Solids	91.7
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	92		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTSSB23-SS-0001
samp_date	1/7/2009
lab_id	SC0100-6
qc_type	NM
Pct_Solids	92.0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	92		

nsample	SWTSSB24-SS-0001
samp_date	1/7/2009
lab_id	SC0100-7
qc_type	NM
Pct_Solids	86.1
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	86		

nsample	SWTSSB25-SS-0001
samp_date	1/7/2009
lab_id	SC0100-8
qc_type	NM
Pct_Solids	71.1
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	71		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTSSB26-SS-0001
samp_date	1/7/2009
lab_id	SC0100-9
qc_type	NM
Pct_Solids	88.8
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	89		

nsample	SWTSSB27-SS-0001
samp_date	1/7/2009
lab_id	SC0100-10
qc_type	NM
Pct_Solids	91.0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

nsample	SWTSSB28-SS-0001
samp_date	1/8/2009
lab_id	SC0100-11
qc_type	NM
Pct_Solids	73.4
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	73		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTSSB29-SS-0001
samp_date	1/7/2009
lab_id	SC0100-12
qc_type	NM
Pct_Solids	90.1
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

nsample	SWTSSB30-SS-0001
samp_date	1/8/2009
lab_id	SC0100-13
qc_type	NM
Pct_Solids	87.7
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	88		

nsample	SWTSSB31-SS-0001
samp_date	1/7/2009
lab_id	SC0100-14
qc_type	NM
Pct_Solids	90.6
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

PROJ_NO: 01769

SDG: SC0100 MEDIA: SOIL DATA FRACTION: MISC

nsample	SWTSSB32-SS-0001
samp_date	1/8/2009
lab_id	SC0100-15
qc_type	NM
Pct_Solids	91.2
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	91		

nsample	SWTSSB33-SS-0001
samp_date	1/7/2009
lab_id	SC0100-16
qc_type	NM
Pct_Solids	88.3
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	88		

nsample	SWTSSB34-SS-0001
samp_date	1/7/2009
lab_id	SC0100-17
qc_type	NM
Pct_Solids	89.6
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
TOTAL SOLIDS	%	90		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNFD-010709-01
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 92.0
Lab Sample ID: SC0100-035

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	687			P	5	2.4	0.59

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNFD-010809-01
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 89.6
Lab Sample ID: SC0100-036

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	76.8			P	5	2.2	0.54

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB18-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.6
Lab Sample ID: SC0100-018

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	61.8			P	5	2.3	0.57

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB19-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 87.6
Lab Sample ID: SC0100-019

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	2720			P	5	1.5	0.37

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB20-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.8
Lab Sample ID: SC0100-020

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	412			P	5	2.2	0.53

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB21-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 88.5
Lab Sample ID: SC0100-021

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	1830			P	5	2.4	0.58

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB22-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 82.5
Lab Sample ID: SC0100-022

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	3510			P	5	2.6	0.63

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB23-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 78.5
Lab Sample ID: SC0100-023

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	1340			P	5	3.0	0.73

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB24-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 66.4
Lab Sample ID: SC0100-024

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	933			P	5	1.9	0.46

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB25-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 74.4
Lab Sample ID: SC0100-025

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	1080			P	5	1.7	0.42

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB26-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 72.9
Lab Sample ID: SC0100-026

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	2160			P	5	2.6	0.65

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SWTNSB27-SS-0001

Matrix: SOIL

SDG Name: SC0100

Percent Solids: 83.9

Lab Sample ID: SC0100-027

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	17.5			P	5	2.7	0.66

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB28-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 93.0
Lab Sample ID: SC0100-028

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	310			P	5	2.5	0.61

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB29-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 89.2
Lab Sample ID: SC0100-029

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	1610			P	5	2.3	0.57

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB30-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.4
Lab Sample ID: SC0100-030

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	148			P	5	2.4	0.58

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB31-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 87.7
Lab Sample ID: SC0100-031

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	160			P	5	2.4	0.58

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB32-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 88.8
Lab Sample ID: SC0100-032

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	79.6			P	5	2.4	0.59

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB33-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 86.7
Lab Sample ID: SC0100-033

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	382			P	5	2.4	0.59

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTNSB34-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 89.6
Lab Sample ID: SC0100-034

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	11.4			P	5	2.5	0.61

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB18-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.0
Lab Sample ID: SC0100-001

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	3.2			P	5	2.6	0.63

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB19-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 91.1
Lab Sample ID: SC0100-002

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	759			P	5	2.4	0.59

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB20-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 88.1
Lab Sample ID: SC0100-003

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	592			P	5	2.1	0.51

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB21-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.8
Lab Sample ID: SC0100-004

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	517			P	5	2.3	0.57

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: SOIL
Percent Solids: 91.7

Client Field ID: SWTSSB22-SS-0001
SDG Name: SC0100
Lab Sample ID: SC0100-005

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	645			P	5	2.5	0.62

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB23-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 92.0
Lab Sample ID: SC0100-006

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	55.0			P	5	1.9	0.47

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB24-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 86.1
Lab Sample ID: SC0100-007

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	1230			P	5	2.7	0.65

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB25-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 71.1
Lab Sample ID: SC0100-008

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	485			P	5	2.0	0.50

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SWTSSB26-SS-0001

Matrix: SOIL

SDG Name: SC0100

Percent Solids: 88.8

Lab Sample ID: SC0100-009

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	58.8			P	5	2.4	0.60

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB27-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 91.0
Lab Sample ID: SC0100-010

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	231			P	5	1.8	0.45

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB28-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 73.4
Lab Sample ID: SC0100-011

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	47.6			P	5	3.3	0.81

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB29-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.1
Lab Sample ID: SC0100-012

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	55.4			P	5	2.3	0.56

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB30-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 87.7
Lab Sample ID: SC0100-013

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	31.4			P	5	2.1	0.52

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB31-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 90.6
Lab Sample ID: SC0100-014

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	161			P	5	2.6	0.63

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB32-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 91.2
Lab Sample ID: SC0100-015

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	584			P	5	1.9	0.47

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB33-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 88.3
Lab Sample ID: SC0100-016

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	913			P	5	1.5	0.37

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTSSB34-SS-0001
Matrix: SOIL
SDG Name: SC0100
Percent Solids: 89.6
Lab Sample ID: SC0100-017

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	48.9			P	5	2.5	0.61

Bottle ID: A

Comments:

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-35
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNFD-010709-01	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92 %	1	D2216	WG59762	13-JAN-08 12:19:00	ASTM D2216	12-JAN-08	JF	

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-36
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNFD-010809-01	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59762	13-JAN-08 12:20:00	ASTM D2216	12-JAN-08	JF	

Katahdin
ANALYTICAL SERVICES

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-18
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB18-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59761	13-JAN-08 11:58:00	ASTM D2216	12-JAN-08	JF	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-19
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB19-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88 %	1	D2216	WG59761	13-JAN-08 11:59:00	ASTM D2216	12-JAN-08	JF	

Katahdin
ANALYTICAL SERVICES

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-20
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB20-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91 %	1	D2216	WG59761	13-JAN-08 12:00:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-21
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB21-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88 %	1	D2216	WG59761	13-JAN-08 12:01:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-22
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB22-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82 %	1	D2216	WG59761	13-JAN-08 12:03:00	ASTM D2216	12-JAN-08	JT	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-23
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB23-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	78 %	1	D2216	WG59761	13-JAN-08 12:04:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-24
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB24-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	66 %	1	D2216	WG59761	13-JAN-08 12:05:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-25
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB25-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	74 %	1	D2216	WG59761	13-JAN-08 12:06:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-26
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB26-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	73 %	1	D2216	WG59761	13-JAN-08 12:07:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-27
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB27-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84 %	1	D2216	WG59761	13-JAN-08 12:08:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-28
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB28-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	93. %	1	D2216	WG59761	13-JAN-08 12:09:00	ASTM D2216	12-JAN-08	JF	

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-29
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB29-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	89 %	1	D2216	WG59761	13-JAN-08 12:10:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-30
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB30-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59761	13-JAN-08 12:11:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-31
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB31-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88 %	1	D2216	WG59762	13-JAN-08 12:14:00	ASTM D2216	12-JAN-08	JF	

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Cert No E87604

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-32
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB32-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	89. %	1	D2216	WG59762	13-JAN-08 12.16.00	ASTM D2216	12-JAN-08	JF	

Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-33
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB33-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	87 %	1	D2216	WG59762	13-JAN-08 12:17:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-34
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTNSB34-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59762	13-JAN-08 12:18:00	ASTM D2216	12-JAN-08	JF	

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Client: Tobrena Skeen
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661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-1
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB18-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59758	13-JAN-08 11:37:00	ASTM D2216	12-JAN-08	JF	

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Client: Tobrena Skeen
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Lab Sample ID: SC0100-2
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB19-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91 %	1	D2216	WG59758	13-JAN-08 11:38:00	ASTM D2216	12-JAN-08	JF	

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Client: Tobrena Skeen
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661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-3
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB20-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88 %	1	D2216	WG59758	13-JAN-08 11:39:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-4
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB21-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91 %	1	D2216	WG59758	13-JAN-08 11:41:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-5
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB22-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92 %	1	D2216	WG59758	13-JAN-08 11:42:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-6
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB23-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92 %	1	D2216	WG59758	13-JAN-08 11:43:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
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Lab Sample ID: SC0100-7
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB24-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	86. %	1	D2216	WG59758	13-JAN-08 11:44:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-8
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB25-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	71 %	1	D2216	WG59758	13-JAN-08 11:45:00	ASTM D2216	12-JAN-08	JF	

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Client: Tobrena Skeen
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Lab Sample ID: SC0100-9
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB26-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	89 %	1	D2216	WG59758	13-JAN-08 11:46:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Lab Sample ID: SC0100-10
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB27-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91 %	1	D2216	WG59758	13-JAN-08 11:47:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
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Lab Sample ID: SC0100-11
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB28-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	73 %	1	D2216	WG59761	13-JAN-08 11:50:00	ASTM D2216	12-JAN-08	JT	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
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Lab Sample ID: SC0100-12
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB29-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59761	13-JAN-08 11:52:00	ASTM D2216	12-JAN-08	JF	

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Client: Tobrena Skeen
Tetra Tech NUS, Inc.
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Lab Sample ID: SC0100-13
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB30-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88 %	1	D2216	WG59761	13-JAN-08 11:53:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
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Lab Sample ID: SC0100-14
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB31-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91 %	1	D2216	WG59761	13-JAN-08 11:54:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-15
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB32-SS-0001	SL	08-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC-Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91 %	1	D2216	WG59761	13-JAN-08 11:55:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SC0100-16
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB33-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88 %	1	D2216	WG59761	13-JAN-08 11:56:00	ASTM D2216	12-JAN-08	JF	

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Report of Analytical Results

Client: Tobrena Skeen
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Pittsburgh,PA 15220

Lab Sample ID: SC0100-17
Report Date: 14-JAN-09
Client PO: 1042985
Project: CTO 130 NAS Key West
SDG: SC0100

Sample Description	Matrix	Date Sampled	Date Received
SWTSSB34-SS-0001	SL	07-JAN-09	09-JAN-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90 %	1	D2216	WG59761	13-JAN-08 11:57:00	ASTM D2216	12-JAN-08	JF	

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SWTRB-010809-01
Matrix: WATER
SDG Name: SC0100
Percent Solids: 0.00
Lab Sample ID: SC0100-037

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted MDL
7439-92-1	LEAD, TOTAL	0.97	U		P	1	5.0	0.97

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Bottle ID: A
Comments:

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG SC0100

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	SWTSSB26-SS-0001	SC0100-009	NM	1/7/2009	1/15/2009	1/20/2009	8	5	13
M	MG/KG	SWTNFD-010709-01	SC0100-035	NM	1/7/2009	1/19/2009	1/19/2009	12	0	12
M	MG/KG	SWTSSB19-SS-0001	SC0100-002	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTSSB20-SS-0001	SC0100-003	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTSSB21-SS-0001	SC0100-004	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTSSB22-SS-0001	SC0100-005	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTSSB23-SS-0001	SC0100-006	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTNSB34-SS-0001	SC0100-034	NM	1/7/2009	1/19/2009	1/19/2009	12	0	12
M	MG/KG	SWTSSB25-SS-0001	SC0100-008	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTNSB33-SS-0001	SC0100-033	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTSSB27-SS-0001	SC0100-010	NM	1/7/2009	1/15/2009	1/20/2009	8	5	13
M	MG/KG	SWTSSB28-SS-0001	SC0100-011	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTSSB29-SS-0001	SC0100-012	NM	1/7/2009	1/15/2009	1/20/2009	8	5	13
M	MG/KG	SWTSSB30-SS-0001	SC0100-013	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTSSB31-SS-0001	SC0100-014	NM	1/7/2009	1/15/2009	1/20/2009	8	5	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	SWTSSB32-SS-0001	SC0100-015	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTSSB33-SS-0001	SC0100-016	NM	1/7/2009	1/15/2009	1/20/2009	8	5	13
M	MG/KG	SWTSSB24-SS-0001	SC0100-007	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTNSB25-SS-0001	SC0100-025	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTNFD-010809-01	SC0100-036	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTNSB18-SS-0001	SC0100-018	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTNSB19-SS-0001	SC0100-019	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTNSB20-SS-0001	SC0100-020	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTNSB21-SS-0001	SC0100-021	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTNSB22-SS-0001	SC0100-022	NM	1/8/2009	1/15/2009	1/20/2009	7	5	12
M	MG/KG	SWTSSB18-SS-0001	SC0100-001	NM	1/7/2009	1/14/2009	1/19/2009	7	5	12
M	MG/KG	SWTNSB24-SS-0001	SC0100-024	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTSSB34-SS-0001	SC0100-017	NM	1/7/2009	1/15/2009	1/20/2009	8	5	13
M	MG/KG	SWTNSB26-SS-0001	SC0100-026	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTNSB27-SS-0001	SC0100-027	NM	1/7/2009	1/19/2009	1/19/2009	12	0	12
M	MG/KG	SWTNSB28-SS-0001	SC0100-028	NM	1/7/2009	1/19/2009	1/19/2009	12	0	12
M	MG/KG	SWTNSB29-SS-0001	SC0100-029	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTNSB30-SS-0001	SC0100-030	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	SWTNSB31-SS-0001	SC0100-031	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTNSB32-SS-0001	SC0100-032	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	MG/KG	SWTNSB23-SS-0001	SC0100-023	NM	1/8/2009	1/19/2009	1/19/2009	11	0	11
M	UG/L	SWTRB-010809-01	SC0100-037	NM	1/8/2009	1/12/2009	1/19/2009	4	7	11
TS	%	SWTSSB26-SS-0001	SC0100-9	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB18-SS-0001	SC0100-1	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB19-SS-0001	SC0100-2	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB20-SS-0001	SC0100-3	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB21-SS-0001	SC0100-4	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB22-SS-0001	SC0100-5	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB23-SS-0001	SC0100-6	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTNFD-010709-01	SC0100-35	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB25-SS-0001	SC0100-8	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTNSB32-SS-0001	SC0100-32	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTSSB27-SS-0001	SC0100-10	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB28-SS-0001	SC0100-11	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTSSB29-SS-0001	SC0100-12	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB30-SS-0001	SC0100-13	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	SWTSSB31-SS-0001	SC0100-14	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB32-SS-0001	SC0100-15	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTSSB33-SS-0001	SC0100-16	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTSSB24-SS-0001	SC0100-7	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTNSB24-SS-0001	SC0100-24	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTSSB34-SS-0001	SC0100-17	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTNFD-010809-01	SC0100-36	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB18-SS-0001	SC0100-18	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB19-SS-0001	SC0100-19	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB20-SS-0001	SC0100-20	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB21-SS-0001	SC0100-21	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB34-SS-0001	SC0100-34	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTNSB23-SS-0001	SC0100-23	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB33-SS-0001	SC0100-33	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB25-SS-0001	SC0100-25	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB26-SS-0001	SC0100-26	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB27-SS-0001	SC0100-27	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360
TS	%	SWTNSB28-SS-0001	SC0100-28	NM	1/7/2009	1/12/2008	1/13/2008	-361	1	-360

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	SWTNSB29-SS-0001	SC0100-29	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB30-SS-0001	SC0100-30	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB31-SS-0001	SC0100-31	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361
TS	%	SWTNSB22-SS-0001	SC0100-22	NM	1/8/2009	1/12/2008	1/13/2008	-362	1	-361

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: TETRA TECH
Contact: CHUCK BRYAN
Phone #: (803) 649-7963
Fax #: ( )
Address:
City: AIKEN
State: SC
Zip Code:
Purchase Order #:
Proj. Name / No.: CTO-130
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): GARY BRAGANZA
Copies To:

LAB USE ONLY
WORK ORDER #: SC0100
KATAHDIN PROJECT NUMBER:
REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	LEAD	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt ☐Y ☐
	SWTSSB18-SS-0001	1/7/09/ 16:50	SOIL	1	X										
	SWTSSB19-SS-0001	/ 16:10			X										
	SWTSSB20-SS-0001	/ 16:00			X										
	SWTSSB21-SS-0001	/ 16:20			X										
	SWTSSB22-SS-0001	/ 15:40			X										
	SWTSSB23-SS-0001	/ 16:30			X										
	SWTSSB24-SS-0001	/ 15:20			X										
	SWTSSB25-SS-0001	/ 16:40			X										
	SWTSSB26-SS-0001	/ 14:50			X										
	SWTSSB27-SS-0001	/ 15:00			X										
	SWTSSB28-SS-0001	1/8/09/ 9:45			X										
	SWTSSB29-SS-0001	1/7/09/ 15:50			X										
	SWTSSB30-SS-0001	1/8/09/ 9:30			X										
	SWTSSB31-SS-0001	1/7/09/ 15:30			X										
	SWTSSB32-SS-0001	1/8/09/ 9:15			X										
	SWTSSB33-SS-0001	1/7/09/ 15:10			X										

COMMENTS

1-9-09 1020

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	1/8/09 17:00				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000007

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: TETRA TECH NUS
Contact: CHUCK BRYAN
Phone #: (803) 649-7963
Fax #: ( )
Address:
City: AIKEN
State: SC
Zip Code:
Purchase Order #:
Proj. Name / No.: CTO-130
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): GARY BRAGANZA / Gary Braganza
Copies To:

LAB USE ONLY
WORK ORDER #: S0100
KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	LEAD	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	SWTSSB34-SS-0001	1/7/09/17:00	SOIL	1	X										
	SWTNSB18-SS-0001	1/8/09/12:30			X										
	SWTNSB19-SS-0001	/11:10			X										
	SWTNSB20-SS-0001	/11:00			X										
	SWTNSB21-SS-0001	/12:10			X										
	SWTNSB22-SS-0001	/12:00			X										
	SWTNSB23-SS-0001	/11:50			X										
	SWTNSB24-SS-0001	/11:40			X										
	SWTNSB25-SS-0001	/11:30			X										
	SWTNSB26-SS-0001	/11:20			X										
	SWTNSB27-SS-0001	1/7/09/13:57			X										
	SWTNSB28-SS-0001	/13:50			X										
	SWTNSB29-SS-0001	1/8/09/10:50			X										
	SWTNSB30-SS-0001	/10:40			X										
	SWTNSB31-SS-0001	/10:30			X										
	SWTNSB32-SS-0001	/10:20			X										

COMMENTS

1-9-09 1020

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Gary Braganza	1/8/09 17:00	[illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000008

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

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Proj. Name / No.: CTO-130
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): GARY BRAGANZA / Gary Braganza
Copies To:

LAB USE ONLY
WORK ORDER #:
KATAHDIN PROJECT NUMBER: SC0108
REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Pb	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	SWTNSB33-SS-0001	1/8/09/10:05	Soil	1	X										
	SWTNSB34-SS-0001	1/7/09/14:05	↓	↓	X										
	SWTFD-010709-01	1/7/09/—			X										
	SWTFD-010809-01	1/8/09/—			X										
	SWTRB-010809-01	1/8/09/13:00	W	1	X										
		/													
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COMMENTS

1-9-09 1020

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Gary Braganza	1/8/0 17:00	[illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
					0000009

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	AJC	Sampled By:	client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SC0100	KIMS Review By:	MC	Received By:	DD
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	1-9-09 1020

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present?	✓				Temp (°C): 1.5
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? (Y or N)	✓				Cooler temp. (°C): (if no temp blank)
7. Volatiles free of headspace?					
Aqueous: No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
8. Trip Blank present in cooler?				✓	
9. Proper sample containers and volume?	✓				
10. Samples within hold time upon receipt?	✓				
11. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	
12. Corrective Action Report Filed?				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

0000006

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE CTO 130 NAS KEY WEST
SC0100

Sample Receipt

The following samples were received on January 9, 2009 and were logged in under Katahdin Analytical Services work order number SC0100 for a hardcopy due date of January 21, 2009.

KATAHDIN Sample No.	TTNUS Sample Identification
SC0100-1	SWTSSB18-SS-0001
SC0100-2	SWTSSB19-SS-0001
SC0100-3	SWTSSB20-SS-0001
SC0100-4	SWTSSB21-SS-0001
SC0100-5	SWTSSB22-SS-0001
SC0100-6	SWTSSB23-SS-0001
SC0100-7	SWTSSB24-SS-0001
SC0100-8	SWTSSB25-SS-0001
SC0100-9	SWTSSB26-SS-0001
SC0100-10	SWTSSB27-SS-0001
SC0100-11	SWTSSB28-SS-0001
SC0100-12	SWTSSB29-SS-0001
SC0100-13	SWTSSB30-SS-0001
SC0100-14	SWTSSB31-SS-0001
SC0100-15	SWTSSB32-SS-0001
SC0100-16	SWTSSB33-SS-0001
SC0100-17	SWTSSB34-SS-0001
SC0100-18	SWTNSB18-SS-0001
SC0100-19	SWTNSB19-SS-0001
SC0100-20	SWTNSB20-SS-0001
SC0100-21	SWTNSB21-SS-0001
SC0100-22	SWTNSB22-SS-0001
SC0100-23	SWTNSB23-SS-0001
SC0100-24	SWTNSB24-SS-0001
SC0100-25	SWTNSB25-SS-0001
SC0100-26	SWTNSB26-SS-0001
SC0100-27	SWTNSB27-SS-0001
SC0100-28	SWTNSB28-SS-0001
SC0100-29	SWTNSB29-SS-0001
SC0100-30	SWTNSB30-SS-0001
SC0100-31	SWTNSB31-SS-0001
SC0100-32	SWTNSB32-SS-0001
SC0100-33	SWTNSB33-SS-0001
SC0100-34	SWTNSB34-SS-0001

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SC0100-35	SWTNFD-010709-01
SC0100-36	SWTNFD-010809-01
SC0100-37	SWTRB-010809-01

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Metals Analysis

The samples of Katahdin Work Order SC0100 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Number SC0100-37 was digested for ICP analysis on 01/12/09 (QC Batch ZA12ICW0) in accordance with USEPA Method 3010A. This sample was prepared with duplicate matrix-spiked aliquots.

Solid-matrix Katahdin Sample Numbers SC0100-(1-8) were digested for ICP analysis on 01/14/09 (QC Batch ZA14ICS0) in accordance with USEPA Method 3050B.

Solid-matrix Katahdin Sample Numbers SC0100-(9-22) were digested for ICP analysis on 01/15/09 (QC Batch ZA15ICS0) in accordance with USEPA Method 3050B. Katahdin Sample Number SC0100-9 was prepared with duplicate matrix-spiked aliquots.

Solid-matrix Katahdin Sample Numbers SC0100-(23-36) were digested for ICP analysis on 01/19/09 (QC Batch ZA19ICS0) in accordance with USEPA Method 3050B. Katahdin Sample Number SC0100-29 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of Katahdin Work Order SC0100 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010B. All samples were analyzed within holding times and all analytical run QC criteria were met.

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Matrix QC Summary

The measured recovery of lead in the matrix-spiked aliquots of Katahdin Sample Numbers SC0100-(9, 29, and 37) is within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added).

The precision of matrix-spiked duplicate analyses of Katahdin Sample Numbers SC0100-(9, 29, and 37) is within the laboratory's acceptance limit (<20% relative difference between matrix-spiked duplicate aliquots) for lead.

The serial dilution analyses of Katahdin Sample Numbers SC0100-(9, 29, and 37) are within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for lead.

Reporting of Metals Results

Analytical results for client samples and batch QC samples (preparation blanks and laboratory control samples) have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, MDLs, and PQLs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of Work Order SC0100 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times, and all quality control criteria were met.

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
01.21.09

Leslie Dimond
Quality Assurance Officer

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www.katahdinlab.com

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: ICV

File: IZA19A Jan 19, 2009 13:58

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9793.00	97.9
CALCIUM	10000.0	9459.00	94.6
IRON	10000.0	9741.00	97.4
LEAD	400.0	395.00	98.8
MAGNESIUM	10000.0	9712.00	97.1

SAMPLE: CCV

File: IZA19A Jan 19, 2009 14:25

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12410.00	99.3
CALCIUM	12500.0	12310.00	98.5
IRON	12500.0	12380.00	99.0
LEAD	500.0	501.30	100.3
MAGNESIUM	12500.0	12420.00	99.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA19A Jan 19, 2009 15:28

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12440.00	99.5
CALCIUM	12500.0	12360.00	98.9
IRON	12500.0	12360.00	98.9
LEAD	500.0	498.00	99.6
MAGNESIUM	12500.0	12500.00	100.0

SAMPLE: CCV

File: IZA19A Jan 19, 2009 16:31

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12460.00	99.7
CALCIUM	12500.0	12560.00	100.5
IRON	12500.0	12450.00	99.6
LEAD	500.0	491.90	98.4
MAGNESIUM	12500.0	12600.00	100.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA19A Jan 19, 2009 17:35

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11740.00	93.9
CALCIUM	12500.0	11960.00	95.7
IRON	12500.0	11760.00	94.1
LEAD	500.0	491.70	98.3
MAGNESIUM	12500.0	11860.00	94.9

SAMPLE: CCV

File: IZA19A Jan 19, 2009 18:38

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12500.00	100.0
CALCIUM	12500.0	11530.00	92.2
IRON	12500.0	11810.00	94.5
LEAD	500.0	508.50	101.7
MAGNESIUM	12500.0	12410.00	99.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA19A Jan 19, 2009 19:42

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12600.00	100.8
CALCIUM	12500.0	11540.00	92.3
IRON	12500.0	11860.00	94.9
LEAD	500.0	505.20	101.0
MAGNESIUM	12500.0	12390.00	99.1

SAMPLE: CCV

File: IZA19A Jan 19, 2009 20:46

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12190.00	97.5
CALCIUM	12500.0	12180.00	97.4
IRON	12500.0	12060.00	96.5
LEAD	500.0	488.00	97.6
MAGNESIUM	12500.0	12090.00	96.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA19A Jan 19, 2009 21:49

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12480.00	99.8
CALCIUM	12500.0	11890.00	95.1
IRON	12500.0	11970.00	95.8
LEAD	500.0	492.10	98.4
MAGNESIUM	12500.0	12310.00	98.5

SAMPLE: CCV

File: IZA19A Jan 19, 2009 22:53

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12160.00	97.3
CALCIUM	12500.0	11620.00	93.0
IRON	12500.0	11700.00	93.6
LEAD	500.0	491.80	98.4
MAGNESIUM	12500.0	12020.00	96.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA19A Jan 19, 2009 23:51

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11650.00	93.2
CALCIUM	12500.0	11140.00	89.1 •
IRON	12500.0	11150.00	89.2 •
LEAD	500.0	490.30	98.1
MAGNESIUM	12500.0	11520.00	92.2

SAMPLE: CCV

File: IZA19A Jan 20, 2009 0:17

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12360.00	98.9
CALCIUM	12500.0	11740.00	93.9
IRON	12500.0	11830.00	94.6
LEAD	500.0	493.90	98.8
MAGNESIUM	12500.0	12090.00	96.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: ICV

File: IZA20A Jan 20, 2009 12:25

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9973.00	99.7
CALCIUM	10000.0	9645.00	96.5
IRON	10000.0	9928.00	99.3
LEAD	400.0	390.70	97.7
MAGNESIUM	10000.0	9612.00	96.1

SAMPLE: CCV

File: IZA20A Jan 20, 2009 12:52

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12570.00	100.6
CALCIUM	12500.0	12490.00	99.9
IRON	12500.0	12550.00	100.4
LEAD	500.0	492.70	98.5
MAGNESIUM	12500.0	12210.00	97.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA20A Jan 20, 2009 13:55

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13110.00	104.9
CALCIUM	12500.0	12880.00	103.0
IRON	12500.0	12950.00	103.6
LEAD	500.0	501.00	100.2
MAGNESIUM	12500.0	12830.00	102.6

SAMPLE: CCV

File: IZA20A Jan 20, 2009 14:59

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13100.00	104.8
CALCIUM	12500.0	12870.00	103.0
IRON	12500.0	12910.00	103.3
LEAD	500.0	503.50	100.7
MAGNESIUM	12500.0	12660.00	101.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCV

File: IZA20A Jan 20, 2009 16:03

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12620.00	101.0
CALCIUM	12500.0	12420.00	99.4
IRON	12500.0	12440.00	99.5
LEAD	500.0	492.40	98.5
MAGNESIUM	12500.0	12130.00	97.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: PQL

File: IZA19A Jan 19, 2009 14:09

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	303.40	101.1
CALCIUM	50.0	47.49	95.0
IRON	100.0	99.04	99.0
LEAD	5.0	5.02	100.4
MAGNESIUM	50.0	49.25	98.5

SAMPLE: PQL

File: IZA19A Jan 19, 2009 17:18

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	304.80	101.6
CALCIUM	50.0	60.37	120.7
IRON	100.0	104.50	104.5
LEAD	5.0	4.83	96.6
MAGNESIUM	50.0	49.82	99.6

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: PQL

File: IZA19A Jan 19, 2009 20:30

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	304.90	101.6
CALCIUM	50.0	53.41	106.8
IRON	100.0	96.79	96.8
LEAD	5.0	5.06	101.2
MAGNESIUM	50.0	48.18	96.4

SAMPLE: PQL

File: IZA19A Jan 20, 2009 00:01

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	295.20	98.4
CALCIUM	50.0	51.21	102.4
IRON	100.0	93.51	93.5
LEAD	5.0	5.08	101.6
MAGNESIUM	50.0	46.06	92.1

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: PQL

File: IZA20A Jan 20, 2009 12:36

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	298.40	99.5
CALCIUM	50.0	45.33	90.7
IRON	100.0	103.90	103.9
LEAD	5.0	5.76	115.2
MAGNESIUM	50.0	49.71	99.4

SAMPLE: PQL

File: IZA20A Jan 20, 2009 15:47

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	316.90	105.6
CALCIUM	50.0	55.24	110.5
IRON	100.0	105.00	105.0
LEAD	5.0	6.33	126.6
MAGNESIUM	50.0	48.19	96.4

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: ICB

File: IZA19A Jan 19, 2009 14:04

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 14:30

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 15:33

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCB

File: IZA19A Jan 19, 2009 16:36

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.59	I
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 17:40

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 18:43

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCB

File: IZA19A Jan 19, 2009 19:47

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	12.52	I
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 20:51

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	11.78	I
IRON	6.86	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 21:54

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	18.47	I
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCB

File: IZA19A Jan 19, 2009 22:58

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 19, 2009 23:56

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA19A Jan 20, 2009 0:23

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	10.51	I
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: ICB

File: IZA20A Jan 20, 2009 12:30

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA20A Jan 20, 2009 12:57

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA20A Jan 20, 2009 14:00

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	6.80	U
LEAD	1.00	U
MAGNESIUM	10.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Concentration Units: ug/L

SAMPLE: CCB

File: IZA20A Jan 20, 2009 15:04

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	9.76	I
LEAD	1.00	U
MAGNESIUM	10.00	U

SAMPLE: CCB

File: IZA20A Jan 20, 2009 16:08

Analyte	Result	C
ALUMINUM	19.00	U
CALCIUM	8.90	U
IRON	8.67	I
LEAD	1.39	I
MAGNESIUM	10.00	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSZA14ICS0

Matrix: SOIL **SDG Name:** SC0100

QC Batch ID: ZA14ICS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
LEAD	0.120	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSZA15ICS0

Matrix: SOIL **SDG Name:** SC0100

QC Batch ID: ZA15ICS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
LEAD	0.461	I

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSZA19ICS0

Matrix: SOIL **SDG Name:** SC0100

QC Batch ID: ZA19ICS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
LEAD	0.152	I

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWZA12ICW0

Matrix: WATER **SDG Name:** SC0100

QC Batch ID: ZA12ICW0

Concentration Units : ug/L

Analyte	RESULT	C
LEAD	0.970	U

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** 1

Instrument Name: THERMO ICAP 6500 **Date:** 8/13/2008

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	19.00	P
CALCIUM	50	8.90	P
IRON	100	6.80	P
LEAD	5.0	1.00	P
MAGNESIUM	50	10.00	P

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/8/2008

Analyte	MDL	Units	M	EPA Prep./Anal. Method
LEAD	0.97	ug/L	P	SW846 3010A / SW846 6010B

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/9/2008

Analyte	MDL	Units	M	EPA Prep./Anal. Method
LEAD	0.12	mg/Kg	P	SW846 3050B / SW846 6010B

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Instrument Name THERMO ICAP 6500 **Date:** 10/9/2008

Instrument ID: I

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Co	Cr	Cu	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0002050	0.0	0.0	0.0	0.0	0.0	0.0475580	0.0	0.0	0.0
ANTIMONY	206.88	0.0000080	0.0	0.0000260	0.0	0.0	0.0095150	0.0	-0.0026030	-0.0003890	0.0	-0.0019060
ARSENIC	189.04	-0.0000010	0.0	-0.0001440	0.0	0.0	0.0002520	0.0	0.0004800	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0004960	0.0000360
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0044509	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000700	0.0	-0.0000220	0.0	0.0	0.0	-0.0000800	0.0000450	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0010540	-0.0002580	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	-0.0000100	0.0	0.0	0.0	0.0	-0.0000210	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0000120	0.0	0.0	0.0000230	0.0	0.0000180	0.0002140	0.0020610	0.0
COPPER	327.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0006350	0.0002980
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0005620	0.0	0.0	0.0
LEAD	220.35	-0.0001090	0.0	0.0000360	0.0	-0.0001570	0.0	0.0002330	-0.0011960	0.0003810	-0.0002030	0.0
MAGNESIUM	285.21	0.0	0.0	-0.0000080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE	257.61	-0.0000090	0.0	-0.0000200	0.0000260	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0	0.0	-0.0001440
NICKEL	231.60	0.0	0.0	-0.0000450	0.0	0.0002300	0.0	0.0	0.0024100	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000070	0.0	-0.0001320	0.0	-0.0004270	0.0	0.0	0.0	0.0	0.0	0.0000290
SILVER	328.07	0.0	0.0	-0.0002180	0.0	0.0	0.0	0.0	0.0	0.0	-0.0001650	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	0.0000050	0.0	-0.0000030	0.0	0.0054870	0.0	-0.0000030	-0.0001640	0.0	-0.0011620	-0.0051480
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0015460	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000260	0.0	0.0	-0.0029690	0.0	-0.0080400	0.0	0.0010400	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0005230	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

Sample Data Summary A0000088

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** 1

Instrument Name: THERMO ICAP 6500 **Date:** 10/4/2007

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	1000000	P
CALCIUM	5.00	1000000	P
IRON	5.00	400000	P
LEAD	60.00	20000	P
MAGNESIUM	5.00	500000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** ZA12ICW0

Matrix: WATER **SDG Name:** SC0100

Method: P **Prep Date:** 01/12/2009

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWZA12ICW0	LCSWZA12ICW0	0.05	0.05
PBWZA12ICW0	PBWZA12ICW0	0.05	0.05
SWTRB-010809-01	SC0100-037	0.05	0.05
SWTRB-010809-01P	SC0100-037P	0.05	0.05
SWTRB-010809-01S	SC0100-037S	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** ZA14ICS0

Matrix: SOIL **SDG Name:** SC0100

Method: P **Prep Date:** 01/14/2009

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSZA14ICS0	LCSSZA14ICS0	0.5069	0.1
PBSZA14ICS0	PBSZA14ICS0	1	0.1
SWTSSB18-SS-0001	SC0100-001	1.08	0.1
SWTSSB19-SS-0001	SC0100-002	1.13	0.1
SWTSSB20-SS-0001	SC0100-003	1.36	0.1
SWTSSB21-SS-0001	SC0100-004	1.18	0.1
SWTSSB22-SS-0001	SC0100-005	1.08	0.1
SWTSSB23-SS-0001	SC0100-006	1.42	0.1
SWTSSB24-SS-0001	SC0100-007	1.09	0.1
SWTSSB25-SS-0001	SC0100-008	1.71	0.1

PREPARATION LOG

Lab Name: Katahdin Analytical Services

QC Batch ID: ZA15ICS0

Matrix: SOIL

SDG Name: SC0100

Method: P

Prep Date: 01/15/2009

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSZA15ICS0	LCSSZA15ICS0	0.5046	0.1
PBSZA15ICS0	PBSZA15ICS0	1	0.1
SWTSSB26-SS-0001	SC0100-009	1.15	0.1
SWTSSB26-SS-0001P	SC0100-009P	1.33	0.1
SWTSSB26-SS-0001S	SC0100-009S	1.3	0.1
SWTSSB27-SS-0001	SC0100-010	1.5	0.1
SWTSSB28-SS-0001	SC0100-011	1.02	0.1
SWTSSB29-SS-0001	SC0100-012	1.21	0.1
SWTSSB30-SS-0001	SC0100-013	1.33	0.1
SWTSSB31-SS-0001	SC0100-014	1.07	0.1
SWTSSB32-SS-0001	SC0100-015	1.42	0.1
SWTSSB33-SS-0001	SC0100-016	1.87	0.1
SWTSSB34-SS-0001	SC0100-017	1.12	0.1
SWTNSB18-SS-0001	SC0100-018	1.18	0.1
SWTNSB19-SS-0001	SC0100-019	1.89	0.1
SWTNSB20-SS-0001	SC0100-020	1.27	0.1
SWTNSB21-SS-0001	SC0100-021	1.18	0.1
SWTNSB22-SS-0001	SC0100-022	1.18	0.1

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** ZA19ICS0

Matrix: SOIL **SDG Name:** SC0100

Method: P **Prep Date:** 01/19/2009

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSZA19ICS0	LCSSZA19ICS0	0.5023	0.1
PBSZA19ICS0	PBSZA19ICS0	1	0.1
SWTNSB23-SS-0001	SC0100-023	1.07	0.1
SWTNSB24-SS-0001	SC0100-024	1.98	0.1
SWTNSB25-SS-0001	SC0100-025	1.97	0.1
SWTNSB26-SS-0001	SC0100-026	1.29	0.1
SWTNSB27-SS-0001	SC0100-027	1.11	0.1
SWTNSB28-SS-0001	SC0100-028	1.08	0.1
SWTNSB29-SS-0001	SC0100-029	1.2	0.1
SWTNSB29-SS-0001P	SC0100-029P	1.17	0.1
SWTNSB29-SS-0001S	SC0100-029S	1.2	0.1
SWTNSB30-SS-0001	SC0100-030	1.16	0.1
SWTNSB31-SS-0001	SC0100-031	1.19	0.1
SWTNSB32-SS-0001	SC0100-032	1.17	0.1
SWTNSB33-SS-0001	SC0100-033	1.2	0.1
SWTNSB34-SS-0001	SC0100-034	1.12	0.1
SWTNFD-010709-01	SC0100-035	1.13	0.1
SWTNFD-010809-01	SC0100-036	1.26	0.1

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Instrument ID: THERMO ICAP 6500 **File Name:** IZA19A

Date: 1/19/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time		Elements
Blank		1	13:48 AL	CA	FE PB MG
Std 1		1	13:53 AL	CA	FE PB MG
ICV		1	13:58 AL	CA	FE PB MG
ICB		1	14:04 AL	CA	FE PB MG
PQL		1	14:09 AL	CA	FE PB MG
ICSA		1	14:14 AL	CA	FE PB MG
ICSAB		1	14:20 AL	CA	FE PB MG
CCV		1	14:25 AL	CA	FE PB MG
CCB		1	14:30 AL	CA	FE PB MG
ZZZZZZ		5	14:35		
ZZZZZZ		2	14:41		
ZZZZZZ		1	14:46		
ZZZZZZ		1	14:51		
ZZZZZZ		1	14:57		
ZZZZZZ		1	15:02		
ZZZZZZ		1	15:07		
ZZZZZZ		1	15:12		
PBWZA12ICW0		1	15:17		PB
LCSWZA12ICW0		1	15:23		PB
CCV		1	15:28 AL	CA	FE PB MG
CCB		1	15:33 AL	CA	FE PB MG
ZZZZZZ		2	15:38		
SC0100-037	SWTRB-010809-01	1	15:44		PB
SC0100-037L	SWTRB-010809-01L	5	15:49		PB
SC0100-037S	SWTRB-010809-01S	1	15:54		PB
SC0100-037P	SWTRB-010809-01P	1	15:59		PB
PBSZA14ICS0		1	16:04		PB
LCSSZA14ICS0		1	16:10		PB
ZZZZZZ		30	16:15		
ZZZZZZ		5	16:20		
SC0100-001	SWTSSB18-SS-0001	5	16:25		PB
CCV		1	16:31 AL	CA	FE PB MG
CCB		1	16:36 AL	CA	FE PB MG
SC0100-002	SWTSSB19-SS-0001	5	16:41		PB
SC0100-003	SWTSSB20-SS-0001	5	16:47		PB
SC0100-004	SWTSSB21-SS-0001	5	16:52		PB
SC0100-005	SWTSSB22-SS-0001	5	16:57		PB
SC0100-006	SWTSSB23-SS-0001	5	17:03		PB
SC0100-007	SWTSSB24-SS-0001	5	17:08		PB
SC0100-008	SWTSSB25-SS-0001	5	17:13		PB
PQL		1	17:18 AL	CA	FE PB MG
ICSA		1	17:24 AL	CA	FE PB MG
ICSAB		1	17:29 AL	CA	FE PB MG
CCV		1	17:35 AL	CA	FE PB MG
CCB		1	17:40 AL	CA	FE PB MG
ZZZZZZ		1	17:45		
ZZZZZZ		1	17:50		
ZZZZZZ		1	17:56		
ZZZZZZ		1	18:01		
ZZZZZZ		1	18:06		

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Instrument ID: THERMO ICAP 6500 **File Name:** IZA19A

Date: 1/19/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time		Elements
ZZZZZZ		1	18:11		
ZZZZZZ		1	18:17		
ZZZZZZ		1	18:22		
ZZZZZZ		5	18:27		
ZZZZZZ		25	18:33		
CCV		1	18:38 AL	CA	FE PB MG
CCB		1	18:43 AL	CA	FE PB MG
ZZZZZZ		5	18:48		
ZZZZZZ		5	18:54		
ZZZZZZ		5	18:59		
ZZZZZZ		5	19:04		
ZZZZZZ		5	19:10		
ZZZZZZ		5	19:15		
ZZZZZZ		5	19:20		
ZZZZZZ		5	19:26		
ZZZZZZ		5	19:31		
ZZZZZZ		5	19:37		
CCV		1	19:42 AL	CA	FE PB MG
CCB		1	19:47 AL	CA	FE PB MG
ZZZZZZ		5	19:52		
ZZZZZZ		5	19:58		
ZZZZZZ		5	20:03		
ZZZZZZ		5	20:09		
ZZZZZZ		5	20:14		
ZZZZZZ		1	20:19		
ZZZZZZ		1	20:24		
PQL		1	20:30 AL	CA	FE PB MG
ICSA		1	20:35 AL	CA	FE PB MG
ICSAB		1	20:40 AL	CA	FE PB MG
CCV		1	20:46 AL	CA	FE PB MG
CCB		1	20:51 AL	CA	FE PB MG
ZZZZZZ		1	20:56		
ZZZZZZ		1	21:01		
PBSZA19ICS0		1	21:07		PB
LCSSZA19ICS0		1	21:12		PB
SC0100-023	SWTNSB23-SS-0001	5	21:17		PB
SC0100-024	SWTNSB24-SS-0001	5	21:22		PB
SC0100-025	SWTNSB25-SS-0001	5	21:28		PB
SC0100-026	SWTNSB26-SS-0001	5	21:33		PB
SC0100-027	SWTNSB27-SS-0001	5	21:38		PB
SC0100-028	SWTNSB28-SS-0001	5	21:44		PB
CCV		1	21:49 AL	CA	FE PB MG
CCB		1	21:54 AL	CA	FE PB MG
SC0100-029	SWTNSB29-SS-0001	5	21:59		PB
SC0100-029L	SWTNSB29-SS-0001L	25	22:05		PB
SC0100-029S	SWTNSB29-SS-0001S	5	22:10		PB
SC0100-029P	SWTNSB29-SS-0001P	5	22:15		PB
SC0100-030	SWTNSB30-SS-0001	5	22:21		PB
SC0100-031	SWTNSB31-SS-0001	5	22:26		PB
SC0100-032	SWTNSB32-SS-0001	5	22:31		PB
SC0100-033	SWTNSB33-SS-0001	5	22:37		PB

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Instrument ID: THERMO ICAP 6500 **File Name:** IZA19A

Date: 1/19/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time			Elements
SC0100-034	SWTNSB34-SS-0001	5	22:42			PB
SC0100-035	SWTNFD-010709-01	5	22:47			PB
CCV		1	22:53	AL	CA	FE PB MG
CCB		1	22:58	AL	CA	FE PB MG
SC0100-036	SWTNFD-010809-01	5	23:03			PB
ZZZZZZ		2	23:09			
ZZZZZZ		10	23:14			
ZZZZZZ		1	23:19			
ZZZZZZ		3	23:25			
ZZZZZZ		1	23:30			
ZZZZZZ		5	23:35			
ZZZZZZ		1	23:41			
ZZZZZZ		2	23:46			
CCV		1	23:51	AL	CA	FE PB MG
CCB		1	23:56	AL	CA	FE PB MG
PQL		1	0:01	AL	CA	FE PB MG
ICSA		1	0:07	AL	CA	FE PB MG
ICSAB		1	0:12	AL	CA	FE PB MG
CCV		1	0:17	AL	CA	FE PB MG
CCB		1	0:23	AL	CA	FE PB MG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SC0100

Instrument ID: THERMO ICAP 6500 **File Name:** IZA20A

Date: 1/20/2009 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
Blank		1	12:15 AL	CA FE PB MG
Std 1		1	12:20 AL	CA FE PB MG
ICV		1	12:25 AL	CA FE PB MG
ICB		1	12:30 AL	CA FE PB MG
PQL		1	12:36 AL	CA FE PB MG
ICSA		1	12:41 AL	CA FE PB MG
ICSAB		1	12:46 AL	CA FE PB MG
CCV		1	12:52 AL	CA FE PB MG
CCB		1	12:57 AL	CA FE PB MG
PBSZA15ICS0		1	13:02	PB
LCSSZA15ICS0		1	13:07	PB
ZZZZZZ		1	13:12	
ZZZZZZ		1	13:18	
ZZZZZZ		1	13:23	
ZZZZZZ		1	13:28	
ZZZZZZ		1	13:33	
SC0100-009	SWTSSB26-SS-0001	5	13:39	PB
SC0100-009L	SWTSSB26-SS-0001L	25	13:44	PB
SC0100-009S	SWTSSB26-SS-0001S	5	13:49	PB
CCV		1	13:55 AL	CA FE PB MG
CCB		1	14:00 AL	CA FE PB MG
SC0100-009P	SWTSSB26-SS-0001P	5	14:05	PB
SC0100-010	SWTSSB27-SS-0001	5	14:11	PB
SC0100-011	SWTSSB28-SS-0001	5	14:16	PB
SC0100-012	SWTSSB29-SS-0001	5	14:21	PB
SC0100-013	SWTSSB30-SS-0001	5	14:27	PB
SC0100-014	SWTSSB31-SS-0001	5	14:32	PB
SC0100-015	SWTSSB32-SS-0001	5	14:37	PB
SC0100-016	SWTSSB33-SS-0001	5	14:43	PB
SC0100-017	SWTSSB34-SS-0001	5	14:48	PB
SC0100-018	SWTNSB18-SS-0001	5	14:53	PB
CCV		1	14:59 AL	CA FE PB MG
CCB		1	15:04 AL	CA FE PB MG
SC0100-019	SWTNSB19-SS-0001	5	15:09	PB
SC0100-020	SWTNSB20-SS-0001	5	15:15	PB
SC0100-021	SWTNSB21-SS-0001	5	15:20	PB
SC0100-022	SWTNSB22-SS-0001	5	15:25	PB
ZZZZZZ		2	15:31	
ZZZZZZ		1	15:36	
ZZZZZZ		1	15:41	
PQL		1	15:47 AL	CA FE PB MG
ICSA		1	15:52 AL	CA FE PB MG
ICSAB		1	15:57 AL	CA FE PB MG
CCV		1	16:03 AL	CA FE PB MG
CCB		1	16:08 AL	CA FE PB MG

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG59758	ASTM D2216	13-JAN-08	12-JAN-08	U 1 %	1 %
MBLANK	WG59761	ASTM D2216	13-JAN-08	12-JAN-08	U 1 %	1 %
MBLANK	WG59762	ASTM D2216	13-JAN-08	12-JAN-08	U 1 %	1 %

NAS KEY WEST
SOIL DATA
SC0100

FRACTION	CHEMICAL	SWTNFD-010709-01	UNITS	SWTSSB19-SS-0001	RPD	D
M	LEAD	687	MG/KG	759	9.96	72.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS KEY WEST
SOIL DATA
SC0100

FRACTION	CHEMICAL	SWTNFD-010709-01	UNITS	SWTSSB19-SS-0001	RPD	D
MISC	TOTAL SOLIDS	92	%	91	1.09	1.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS KEY WEST
SOIL DATA
SC0100

FRACTION	CHEMICAL	SWTNFD-010809-01	UNITS	SWTNSB18-SS-0001	RPD	D
M	LEAD	76.8	MG/KG	61.8	21.65	15.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

NAS KEY WEST
SOIL DATA
SC0100

FRACTION	CHEMICAL	SWTNFD-010809-01	UNITS	SWTNSB18-SS-0001	RPD	D
MISC	TOTAL SOLIDS	90	%	90	0.00	0.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.