

TOC, Solids Data Analysis

Instrument: Apollo 2
 Mode: NPOC Inlet: Boat
 Spike Std = 2,500 ppm C

DATE: 3/29/2011
 ANALYST: KE 10:25

Calibration Data

Cal Curve ID: 21411 BOAT CAL Conc: 5,000 ppm
 Calibration Curve Standard: ARI # 111-12 Curve Date: 2/114/2011
 CalFact: 2.675E+05 intercept: -231891 r2: 0.99939
 Curve Range (ppm) 200 to 2,500
 Curve Range (µgC): 8 to 100 40 µL injections of designated standard

Verification Standard

Source: ERA# 0513 - 10 - 06 Conc: 5,000 ppm
 dilution: 10 mL to 50 1,000 ppm

Standard Reference Material

Source: NIST 8704 Conc: 33,510 ppm
 Source: NIST 1941B Conc: 29,900 ppm

Silica Blanks

Replicate determinations					Mean	RSD	condition
13.6	17.1	20.3			17.0	19.8%	OK

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
ICV				1.00		40.0	941	941	94.10%
Blank				1.00		40.0	23.05	23	Blank OK
NIST 1941B				1.00		3.0	24431	24,431	81.71%
Silica Blanks 1				1.00		51.7	13.59	14	Low Scale
Silica Blanks 2				1.00		51.5	17.11	17	Low Scale
Silica Blanks 3				1.00		53.5	20.32	20	Low Scale
SN54 E1	10.0	101.8	90.18%	10.18		2.1	23163	235,643	Range OK!
SN54 E1 dup	10.3	100.7	89.77%	9.78		1.8	20537	200,635	RPD=16%
SN54 E1 trp	10.5	101.2	89.62%	9.64		2.0	14842	142,643	RSD=24.4%
SN54 E1 trp	10.5	101.2	89.62%	9.64		1.8	17695	170,399	RSD=16.1%
SN54 E1 ms	10.0	101.8	90.18%	10.18	10	0.9	51127	520,317	Range OK!
Spike = 0.025 mg C to 0.1 mg samp= 282,778 ppm						101%			
SN54 A1	16.5	120.8	86.34%	7.32		2.3	10612	77,585	Range OK!
SN54 B1	10.0	98.9	89.89%	9.89		2.1	24952	246,624	Range OK!
SN54 C1	10.6	105.8	89.98%	9.98		2.1	20162	201,087	Range OK!
CCV				1.00		40.0	950	950	95.00%
Blank				1.00		40.0	29.47	29	Blank OK
SN54 D1	10.8	107.4	89.94%	9.94		2.8	15751	156,483	Range OK!
SN54 F1	21.3	215.2	90.10%	10.10		1.8	20089	202,810	Range OK!
SN54 G1				1.00		0.9	118476	118,476	Offscale, dilute
SN54 H1				1.00		1.3	51854	51,854	Range OK!
SN54 G1	10.6	106.5	90.05%	10.05		2.2	9951	99,826	Range OK!

Sample Data										
"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor										
Sample ID	Dilution Data				Spike (μ L Std)	Combustion Data			comments	
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)		
SN89 A2	12.1	123.7	90.22%	10.22		2.2	12114	123,686	Range OK!	
SN89 A2 dup	12.9	123.3	89.54%	9.56		2.1	11661	111,312	RPD=10.5%	
SN89 A2 trp	12.8	124.1	89.69%	9.70		2.2	12925	125,164	RSD=6.3%	
SN89 A2 ms	12.1	123.7	90.22%	10.22	10	1.9	24388	249,165	Range OK!	
Spike = 0.025 mg C to 0.2 mg samp= 134,515 ppm 93%										
SN89 B2	13.0	112.5	88.44%	8.65		2.6	19415	167,884	Range OK!	
CCV				1.00		40.0	953	953	95.30%	
Blank				1.00		40.0	19.49	19	Blank OK	
SO21 B1	17.9	178.6	89.98%	9.98		2.7	9610	95,733	Range OK!	
SO21 B1 dup	16.1	157.4	89.77%	9.78		2.9	10096	98,553	RPD=2.9%	
SO21 B1 trp	17.4	173.6	89.98%	9.98		2.6	11210	111,690	RSD=8.3%	
SO21 B1 ms	17.9	178.6	89.98%	9.98	10	2.2	21988	219,236	Range OK!	
Spike = 0.025 mg C to 0.2 mg samp= 113,382 ppm 109%										
SO21 A1	13.5	115.9	88.35%	8.59		2.2	17001	145,828	Range OK!	
NMIST 8704				1.00		2.9	26419	26,419	88.36%	
CCV				1.00		40.0	1004	1,004	100.40%	
Blank				1.00		40.0	39.02	39	Blank OK	



② 3-29-11 (A)

TOC Solids Sample Run Log
Apollo 9000

Page 1 of 2

Set-Up Parameters		MODE: NPOC (Bout)	INLET: Boat Sampler			
Standards:	Source	Conc (ppm)		10:25		
Calibration:	ARI 111-12	5000				
Verification:	ERA 0573-10.06	Sensitometer for CUS				
SRM:	NBS 1941B	29900				
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt mg	Matrix Spike Data		Comments
	Sample	+ Silica Gel		mg/L	µL added	
ICU			40			
ICB			40			
NBS 1941B			3.0			
SB	1		51.7			
	2		51.5			
	3		53.5			
SN54	E ¹	10.0	101.8	2.1		
	1/E ¹	10.3	100.7	1.8		
	1/E ¹	10.5	101.2	2.0		Low Return
	1/E ¹	10.5	101.2	1.8		
	MSE ¹	10.0	101.8	0.9	2500	10
	A ¹	16.5	120.8	2.3		
	B ¹	10.0	98.9	2.1		
	C ¹	10.6	105.8	2.1		
CCU			40			
CCB			40			
SN54	D ¹	10.8	107.4	2.8		
	F ¹	21.3	215.2	1.8		
	G ¹			0.9		off scale defect
	H ¹			1.3		
SN54	A²	12.1	123.7	3-29-11 (A)		
SN54	G ¹	10.6	106.5	2.2		
SN54	A ²	12.1	123.7	2.2		
	1/A ²	12.9	123.3	2.1		
	1/A ²	12.8	124.1	2.2		
	M/A ²	12.1	123.7	1.9	2500	10
	B ²	13.0	112.5	2.6		
CCU			40			
CCB			40			
5021	B ¹	17.9	178.6	2.7		
	1/B ¹	16.1	157.4	2.9		
	1/B ¹	17.4	173.6	2.6		



① 3-29-11 ②

TOC Solids Sample Run Log
Apollo 9000

Page 2 of 2

Set-Up Parameters			MODE: NPOC (Boat)	INLET: Boat Sampler		
Standards:	Source		Conc (ppm)			10:25
Calibration:	ARI M-12		5000			
Verification:	ERA 0313-10-06		5000 to 1000 for CUS			
SRM:	NBS 1941B		29900			
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
SO21 MB'	17.9	178.6	2.2	2500	10	
↓ A'	13.5	115.9	2.2			
NBS 1941B			2.9			
CEW			40			
CCB			40			
3-29-11						

3-29-11(W)

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 03291053
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 10:56
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	941.4848	37.6594	9473035	30.140	31.140	127

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 03291058
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 11:00
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23.0515	0.9221	93497	30.094	31.086	57

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 03291103
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 11:09
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24430.5840	73.2918	18570460	29.832	30.848	300

Last Message: Max Integration Time Reached

Sample ID: SB 1 Mode: TOC
Method: Boat Sampler Filename: 03291200
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 12:02
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.5854	0.7024	179324	30.530	31.528	67

Sample ID: SB 2 Mode: TOC
Method: Boat Sampler Filename: 03291208
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 12:11
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17.1060	0.8810	224921	30.368	31.363	67

Sample ID: SB 2 Mode: TOC
Method: Boat Sampler Filename: 03291223
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 12:25
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.3179	1.0870	277528	31.060	32.058	57

Sample ID: SN54 E1 Mode: TOC
Method: Boat Sampler Filename: 03291235
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 12:39
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
-------	-------	------	----------	--------------------	-----------------	------------------

1 23162.6621 48.6416 12418858 30.041 31.035 145

Sample ID: SN54 E1 ^{Op}
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291241
Timestamp: 2011/03/29 12:44
Sample Type: Sample

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 20537.4609 36.9674 9438286 30.108 31.105 125

Sample ID: SN54 E1 TRIP
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291251
Timestamp: 2011/03/29 12:55
Sample Type: Sample

*Low
Run
3-29-11*

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 14812.4434 29.6249 7563635 29.703 30.702 147

Sample ID: SN54 E1 TRIP
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291301
Timestamp: 2011/03/29 13:04
Sample Type: Sample

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 17694.9707 31.8509 8131979 29.681 30.680 144

Sample ID: SN54 E1 MS
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291311
Timestamp: 2011/03/29 13:15
Sample Type: Sample

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 51126.5820 46.0139 11747978 29.797 30.792 140

Sample ID: SN54 A1
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291330
Timestamp: 2011/03/29 13:38
Sample Type: Sample

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 10611.6055 24.4067 6231360 29.414 30.412 123

Sample ID: SN54 B1
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291342
Timestamp: 2011/03/29 13:48
Sample Type: Sample

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 24951.5273 52.3982 13377973 29.530 30.530 155

Sample ID: SN54 B1
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA
Mode: TOC
Filename: 03291418
Timestamp: 2011/03/29 14:23
Sample Type: Sample

Rep # ppm C ug C Raw Data Beginning Baseline Ending Baseline Integration Time
1 20161.8711 42.3399 10809958 29.377 30.375 134

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 03291436
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 14:39
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	950.2866	38.0115	9562925	29.514	30.511	139

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 03291443
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 14:46
 Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29.4689	1.1788	159034	29.471	30.470	67

Sample ID: SN54 D1 Mode: TOC
 Method: Boat Sampler Filename: 03291455
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 14:58
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15750.8604	44.1024	11259943	29.400	30.396	150

Sample ID: SN54 F1 Mode: TOC
 Method: Boat Sampler Filename: 03291508
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 15:12
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20089.0859	36.1604	9232229	29.635	30.631	152

Sample ID: SN54 G1 Mode: TOC
 Method: Boat Sampler Filename: 03291520
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 15:25
 Operator ID: TRINA Sample Type: Sample

Handwritten: Deleted 3-29-11

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	118176.8750	106.3592	27154944	30.066	31.065	202

Last Message: Over-range

Sample ID: SN54 H1 Mode: TOC
 Method: Boat Sampler Filename: 03291532
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 15:38
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	51853.8828	67.4100	17210700	30.277	31.272	186

Sample ID: SN54 G1 Mode: TOC
 Method: Boat Sampler Filename: 03291543
 Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 15:46
 Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
-------	-------	------	----------	--------------------	-----------------	------------------

1 9951.3486 21.8930 5589571 30.444 31.442 109

Sample ID: SN89 A2 Mode: TOC
Method: Boat Sampler Filename: 03291601
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 16:04
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12113.7217	26.6502	6804154	29.999	30.998	123

Sample ID: SN89 A2^{AP} Mode: TOC
Method: Boat Sampler Filename: 03291623
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 16:26
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11660.5605	24.4872	6251909	29.808	30.807	121

Sample ID: SN89 A2 TRIP Mode: TOC
Method: Boat Sampler Filename: 03291636
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 16:39
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12925.4414	28.4360	7260089	29.618	30.617	125

Sample ID: SN89 A2 ^{MS 3-29-11} Mode: TOC
Method: Boat Sampler Filename: 03291644
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 16:47
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24387.8867	46.3370	11830460	29.861	30.860	130

Sample ID: SN89 B2 Mode: TOC
Method: Boat Sampler Filename: 03291653
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 16:57
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19414.5703	50.4779	12887688	29.493	30.490	155

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 03291700
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:04
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	952.6857	38.1074	9587425	29.741	30.738	136

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 03291705
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:07
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19.4856	0.7794	57079	29.785	30.784	50

=====
Sample ID: SO21 B1 Mode: TOC
Method: Boat Sampler Filename: 03291711
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:15
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9609.7832	25.9464	6624472	29.587	30.577	125

=====

Sample ID: SO21 B1 DUP Mode: TOC
Method: Boat Sampler Filename: 03291725
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:28
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10095.8564	29.2780	7475066	29.753	30.752	130

=====

Sample ID: SO21 B1 TRIP Mode: TOC
Method: Boat Sampler Filename: 03291732
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:35
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11209.5020	29.1447	7441039	29.834	30.829	140

=====

Sample ID: SO21 B1 MS Mode: TOC
Method: Boat Sampler Filename: 03291739
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:43
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	21988.1777	48.3740	12350535	30.198	31.198	158

=====

Sample ID: SO21 A1 Mode: TOC
Method: Boat Sampler Filename: 03291745
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:48
Operator ID: TRINA Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17000.7832	37.4017	9549167	30.529	31.526	143

=====

Sample ID: NBS 1941B Mode: TOC
Method: Boat Sampler Filename: 03291750
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 17:59
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26418.5273	76.6137	19418606	30.627	31.788	300

Last Message: Max Integration Time Reached
=====

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 03291801
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 18:04
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
-------	-------	------	----------	-----------------------	--------------------	---------------------

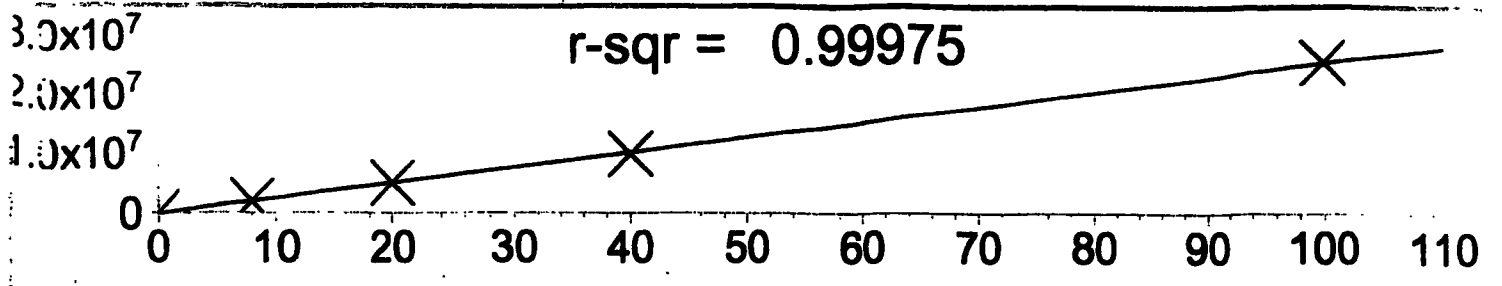
1 1003.5475 40.1419 10106853 30.983 31.980 149

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 03291805
Cal. Curve: 031411 BOAT CAL Timestamp: 2011/03/29 18:07
Operator ID: TRINA Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39.0174	1.5607	256549	31.318	32.312	69

Cal. Curve ID: 031411 BOAT CAL
Created: 2011/03/14 14:55
Calibration Factor (m): 2.553e+05
Y Intercept (b): -141918
r-squared: 0.99975

Standard ID	Y	X Expected	Measured	Message	Date & Time
DI WATER	30779	0.000	0.676	Low Sample De	2011/03/14 11:28
200 PPM	1889603	8.000	7.957		2011/03/14 12:43
500 PPM	4952739	20.000	19.955		2011/03/14 13:26
1000 PPM	9815127	40.000	38.999		2011/03/14 13:46
2500 PPM	25494840	100.000	100.413		2011/03/14 14:18



```

=====
Sample ID:  DI WATER           Mode:      TOC
Method:     Boat Sampler       Filename:   03141114
Cal. Curve: 031411 BOAT CAL    Timestamp: 2011/03/14 11:28
Operator ID: TRINA             Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1.			43170	28.447	28.708	120
2			14496	29.326	29.443	120
3			34670	29.792	29.791	120

Last Message: Low Sample Detected

<<<Statistics>>> Mean: 30779 Std Dev: 14728 RSD: 47.85

```

=====
Sample ID:  200  PPM           Mode:      TOC
Method:     Boat Sampler       Filename:   03141208
Cal. Curve: 031411 BOAT CAL    Timestamp: 2011/03/14 12:25
Operator ID: TRINA             Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			1675822	32.721	33.708	79
2			1761515	32.177	33.170	82
3			1812364	31.835	32.828	79

<<<Statistics>>> Mean: 1749900 Std Dev: 69008 RSD: 3.94

```

=====
Sample ID:  200  PPM           Mode:      TOC
Method:     Boat Sampler       Filename:   03141228
Cal. Curve: 031411 BOAT CAL    Timestamp: 2011/03/14 12:43
Operator ID: TRINA             Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			1896663	31.728	32.727	84
2			1784412	32.075	33.074	83
3			1987734	32.647	33.641	79

<<<Statistics>>> Mean: 1889603 Std Dev: 101845 RSD: 5.39

```

=====
Sample ID:  500  PPM           Mode:      TOC
Method:     Boat Sampler       Filename:   03141310
Cal. Curve: 031411 BOAT CAL    Timestamp: 2011/03/14 13:26
Operator ID: TRINA             Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			4944618	34.272	35.272	114
2			4965032	34.644	35.641	109
3			4948567	34.867	35.866	103

<<<Statistics>>> Mean: 4952739 Std Dev: 10828 RSD: 0.22

```

=====
Sample ID:  1000 PPM          Mode:      TOC
Method:     Boat Sampler       Filename:   03141330
Cal. Curve: 031411 BOAT CAL    Timestamp: 2011/03/14 13:46
Operator ID: TRINA             Sample Type: TOC Standard
    
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			9298912	35.290	36.281	137
2			10106309	35.570	36.570	135
3			10040159	35.723	36.720	143

<<<Statistics>>> Mean: 9815127 Std Dev: 448277 RSD: 4.57

Sample ID: 2500 PPM
Method: Boat Sampler
Cal. Curve: 031411 BOAT CAL
Operator ID: TRINA

Mode: TOC
Filename: 03141350
Timestamp: 2011/03/14 14:18
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			25796676	36.352	37.346	171
2			25710616	37.223	38.218	157
3			24977224	37.653	38.645	150

=====
<<<Statistics>>> Mean: 25494838 Std Dev: 450328 RSD: 1.77
=====

**Geotechnical Raw Data
Analyst Notes and Raw Data**

ARI Job ID: SN54

Analytical Resources, Inc.

Separation of Solids by Centrifuging

ARI Job No.: SN54

Date: 3/22/11

Tested By: gs

Analytes: See COC

Aerobic Anaeorobic ()

Volume Required: AMAP

Filtered ()
Filter Material:
Filter Size:

Centrifugation:	Speed: 1000xg	Temp: 4°C	Duration: 30min	O2 Level: —
-----------------	---------------	-----------	-----------------	-------------

Centrifugation

ARI ID	Start Time	Estimated Recovery (g)	Decant Time
DA ²	11:15	124.130 total	11:55
DA ³	11:15	—	
H ²	11:15	195 total	11:58
H ³	11:15		

Centrifugation

ARI ID	Start Time	Estimated Recovery (g)	Decant Time
A ²	11:50	120g total	12:30
A ³	11:50	—	
G ²	11:50	130g total	12:35
G ³	11:50		

ARI ID	Estimated Total Recovery (g)
A	26g
D	185
G	130g
H	185g

Notes: 2 jars combined