

Sample Information Detail Report
Document Name: 100628wb

File Description
Sample Information File

Parameters Common to All Samples

Batch ID 100628wb
Analyst Name JBN

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Aliquot Volume
1	12	B0F2809-BLK1@2x	
2	13	B0F2809-BS1@2x	
3	14	1006381-01@2x WET	
4	15	B0F2809-DUP1@2x	
5	16	B0F2809-DUP2@2x	
6	17	B0F2809-MS1@2x	
7	18	B0F2809-MSD1@2x	

Sample No	Diluted To Vol.	Wash Time *
1		
2		
3		
4		
5		
6		
7		

ICP-OES METALS DATA CHECK LIST
EPA METHOD 6010b

Analyst: TRJ

Checked By: BW

Date Analyzed: 6/23/2010

Date Checked: 6/29/2010

1. Initial calibration performed when necessary
2. ICV (Percent Difference ≤ 10), after calibration
4. CCV (Percent Difference ≤ 10), after calibration, every 10 samples, and at end
5. CCB (all analytes below detection limits), after calibration, every 10 samples, and at end
6. Interference Check Standard (ICSAB), after calibration (Percent Recovery 80-120, or below detection limit)
7. Method Blank (BLK), one per batch of no more than twenty samples (All analytes below detection limits)
8. LCS/LFB (BS), one per batch of no more than twenty samples (Percent Recovery 80-120)
9. MS/MSD, one per batch of no more than twenty samples (Percent Recovery 70-130, Ag & Sb 60-140)
10. Sample Analysis, calculation and reporting (check 15% of all samples analyzed) results within Linear Dynamic Range (LDR), correct use of digestion and dilution factors

Comments:

PREPARATION BENCH SHEET

B0F2809

Sierra Analytical Labs, Inc.

Prepared using: Metals - EPA 3010A

Printed: 6/28/2010 11:20:02A

Matrix: Extract

Lab Number	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	µl Spike	Comments
1006381-01 Cd STIC ICP 6010B	06/28/10 11:01	2.5	25		THE NON-TOXIC SOLAR ALLIANCE e.V. (
B0F2809-BLK1	06/28/10 11:01	2.5	25				
B0F2809-BS1	06/28/10 11:01	2.5	25	0052301		50	
B0F2809-DUP1	06/28/10 11:01	2.5	25		1006381-01		
B0F2809-DUP2	06/28/10 11:01	2.5	25		1006381-01		
B0F2809-MS1	06/28/10 11:01	2.5	25	0052301	1006381-01	50	
B0F2809-MSD1	06/28/10 11:01	2.5	25	0052301	1006381-01	50	

Spiking Witnessed By: [Signature] Date: 6/28/2010

Preparation Reviewed By: [Signature] Date: 6/28/2010

Extracts Received By: [Signature] Date: 6/28/2010

Dilution:

Sample Prep Vol:

Mean Data: Cal Std 3 1.00ppm

Analyte	Mean Corrected		Std.Dev.	RSD	Calib	
	Intensity	Conc. Units			Conc. Units	Units
Y 371.029	70637.0	600.68	0.85%	0.9768	mg/L	
Yb 369.419	50951.5	809.64	1.59%	0.9727	mg/L	
Cd 228.802†	68694.6	1047.26	1.52%	[1.00]	mg/L	
Cd 214.440†	88042.8	1959.23	2.23%	[1.00]	mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Cd 228.802	3	Lin, Calc Int	30.0	68670	0.00000	0.999999	
Cd 214.440	3	Lin, Calc Int	115.5	87950	0.00000	0.999994	

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Sequence No.: 5	Autosampler Location: 7
Sample ID: ICV	Date Collected: 6/28/2010 4:48:18 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected		Calib.		Sample Conc. Units	Std.Dev.	RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units			
Y 371.029	72314.0	1.000 mg/L	0.0114				1.14%
Yb 369.419	52408.3	1.001 mg/L	0.0131				1.31%
Cd 228.802†	44767.4	0.6515 mg/L	0.01020		0.6515 mg/L	0.01020	1.57%
QC value within limits for Cd 228.802 Recovery = 97.67%							
Cd 214.440†	58583.5	0.6648 mg/L	0.01577		0.6648 mg/L	0.01577	2.37%
QC value within limits for Cd 214.440 Recovery = 99.67%							

All analyte(s) passed QC.

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Sequence No.: 6	Autosampler Location: 8
Sample ID: CCV	Date Collected: 6/28/2010 4:50:37 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected		Calib.		Sample Conc. Units	Std.Dev.	RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units			
Y 371.029	72317.0	1.000 mg/L	0.0132				1.32%
Yb 369.419	52648.0	1.005 mg/L	0.0167				1.66%
Cd 228.802†	34267.0	0.4986 mg/L	0.00406		0.4986 mg/L	0.00406	0.81%
QC value within limits for Cd 228.802 Recovery = 99.72%							
Cd 214.440†	44283.3	0.5022 mg/L	0.00360		0.5022 mg/L	0.00360	0.72%
QC value within limits for Cd 214.440 Recovery = 100.44%							

All analyte(s) passed QC.

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Sequence No.: 7	Autosampler Location: 1
Sample ID: CCB	Date Collected: 6/28/2010 4:53:01 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected		Calib.		Sample Conc. Units	Std.Dev.	RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units			
Y 371.029	71633.4	0.9906 mg/L	0.00276				0.28%
Yb 369.419	52573.2	1.004 mg/L	0.0180				1.79%
Cd 228.802†	2.3	-0.0004 mg/L	0.00003		-0.0004 mg/L	0.00003	6.82%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Cd 214.440†	7.0	-0.0012 mg/L	0.00004		-0.0012 mg/L	0.00004	3.26%

QC value within limits for Cd 214.440 Recovery = Not calculated
All analyte(s) passed QC.

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=====
Sequence No.: 8                               Autosampler Location: 10
Sample ID: ICSAB                             Date Collected: 6/28/2010 4:57:25 PM
Analyst:                                     Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
  
```

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	62044.6	0.8580 mg/L	0.00523			0.61%
Yb 369.419	47906.2	0.9146 mg/L	0.00873			0.95%
Cd 228.802†	67206.5	0.9783 mg/L	0.01015	0.9783 mg/L	0.01015	1.04%
QC value within limits for Cd 228.802 Recovery = 97.83%						
Cd 214.440†	77258.6	0.8771 mg/L	0.02337	0.8771 mg/L	0.02337	2.66%
QC value within limits for Cd 214.440 Recovery = 87.71%						

All analyte(s) passed QC.

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Sequence No.: 9                               Autosampler Location: 11
Sample ID: Rinse Blank                       Date Collected: 6/28/2010 4:59:46 PM
Analyst:                                     Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
  
```

Mean Data: Rinse Blank

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	71536.6	0.9893 mg/L	0.00751			0.76%
Yb 369.419	52472.3	1.002 mg/L	0.0118			1.18%
Cd 228.802†	9.1	-0.0003 mg/L	0.00005	-0.0003 mg/L	0.00005	15.57%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Cd 214.440†	12.9	-0.0012 mg/L	0.00009	-0.0012 mg/L	0.00009	7.61%
QC value within limits for Cd 214.440 Recovery = Not calculated						

All analyte(s) passed QC.

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=====
Sequence No.: 10                              Autosampler Location: 12
Sample ID: B0F2809-BLK1@2x                 Date Collected: 6/28/2010 5:04:10 PM
Analyst: JBN                               Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
  
```

Mean Data: B0F2809-BLK1@2x

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	63604.9	0.8796 mg/L	0.01571			1.79%
Yb 369.419	45971.6	0.8777 mg/L	0.01128			1.28%
Cd 228.802†	-1.1	-0.0005 mg/L	0.00004	-0.0005 mg/L	0.00004	9.88%
Cd 214.440†	-2.7	-0.0013 mg/L	0.00002	-0.0013 mg/L	0.00002	1.15%

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=====
Sequence No.: 11                              Autosampler Location: 13
Sample ID: B0F2809-BS1@2x                 Date Collected: 6/28/2010 5:08:36 PM
Analyst: JBN                               Data Type: Original
Initial Sample Wt:                           Initial Sample Vol:
Dilution:                                   Sample Prep Vol:
  
```

Mean Data: B0F2809-BS1@2x

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	63835.7	0.8828 mg/L	0.00964			1.09%
Yb 369.419	45857.6	0.8755 mg/L	0.00931			1.06%
Cd 228.802†	7241.8	0.1050 mg/L	0.00055	0.1050 mg/L	0.00055	0.53%
Cd 214.440†	9407.7	0.1057 mg/L	0.00360	0.1057 mg/L	0.00360	3.41%

Sequence No.: 12

Sample ID: 1006381-01@2x WET

Analyst: JBN

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 6/28/2010 5:11:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 1006381-01@2x WET

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y 371.029	64069.1	0.8860	mg/L	0.01099			1.24%
Yb 369.419	46245.8	0.8829	mg/L	0.00941			1.07%
Cd 228.802†	9664.3	0.1403	mg/L	0.00064	0.1403	mg/L	0.45%
Cd 214.440†	12261.8	0.1381	mg/L	0.00150	0.1381	mg/L	1.08%

Sequence No.: 13

Sample ID: B0F2809-DUP1@2x

Analyst: JBN

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 6/28/2010 5:13:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B0F2809-DUP1@2x

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y 371.029	63261.3	0.8748	mg/L	0.00212			0.24%
Yb 369.419	45421.7	0.8672	mg/L	0.00360			0.42%
Cd 228.802†	10155.5	0.1475	mg/L	0.00035	0.1475	mg/L	0.24%
Cd 214.440†	13111.6	0.1478	mg/L	0.00247	0.1478	mg/L	1.67%

Sequence No.: 14

Sample ID: B0F2809-DUP2@2x

Analyst: JBN

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 6/28/2010 5:15:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B0F2809-DUP2@2x

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y 371.029	65095.8	0.9002	mg/L	0.01471			1.63%
Yb 369.419	46414.7	0.8861	mg/L	0.01781			2.01%
Cd 228.802†	9979.4	0.1449	mg/L	0.00200	0.1449	mg/L	1.38%
Cd 214.440†	12799.9	0.1442	mg/L	0.00147	0.1442	mg/L	1.02%

Sequence No.: 15

Sample ID: B0F2809-MS1@2x

Analyst: JBN

Initial Sample Wt:

Dilution:

Autosampler Location: 17

Date Collected: 6/28/2010 5:18:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: B0F2809-MS1@2x

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
Y 371.029	65194.7	0.9016	mg/L	0.00976			1.08%
Yb 369.419	46514.9	0.8880	mg/L	0.02522			2.84%
Cd 228.802†	16678.6	0.2424	mg/L	0.00497	0.2424	mg/L	2.05%
Cd 214.440†	21720.2	0.2457	mg/L	0.00763	0.2457	mg/L	3.11%

Sequence No.: 16

Sample ID: B0F2809-MSD1@2x

Analyst: JBN

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 6/28/2010 5:20:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: BOF2809-MSD1@2x

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	66132.5	0.9145 mg/L	0.00505			0.55%
Yb 369.419	47442.5	0.9057 mg/L	0.00739			0.82%
Cd 228.802†	16486.5	0.2396 mg/L	0.00092	0.2396 mg/L	0.00092	0.39%
Cd 214.440†	21102.2	0.2386 mg/L	0.00212	0.2386 mg/L	0.00212	0.89%

Sequence No.: 17

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 6/28/2010 5:23:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	72044.1	0.9963 mg/L	0.00505			0.51%
Yb 369.419	52754.7	1.007 mg/L	0.0128			1.27%
Cd 228.802†	34048.0	0.4954 mg/L	0.00481	0.4954 mg/L	0.00481	0.97%
QC value within limits for Cd 228.802 Recovery = 99.08%						
Cd 214.440†	43813.9	0.4969 mg/L	0.01438	0.4969 mg/L	0.01438	2.90%
QC value within limits for Cd 214.440 Recovery = 99.37%						

All analyte(s) passed QC.

Sequence No.: 18

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/28/2010 5:25:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	72207.1	0.9986 mg/L	0.01615			1.62%
Yb 369.419	53327.8	1.018 mg/L	0.0302			2.97%
Cd 228.802†	-0.7	-0.0004 mg/L	0.00001	-0.0004 mg/L	0.00001	1.85%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Cd 214.440†	4.5	-0.0013 mg/L	0.00009	-0.0013 mg/L	0.00009	7.02%
QC value within limits for Cd 214.440 Recovery = Not calculated						

All analyte(s) passed QC.