Sample QC Report

PACE: ICPMS#1 JP93200263

Data File: C:\ICPCHEM\1\DATA\Y6F1301.B\056.D\056.D#
Date Acquired: Jun 13 2016 09:58 pm
Operator: MAC
Sample Name: SP2-INF
Misc Info:
Vial Number: 4302
Current Method: C:\ICPCHEM\1\METHODS\test01.M
Calibration File: C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update: Jun 13 2016 11:39 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

160613 - 2012
Sand Filter
Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	3.807 ug/l	~~3.81~~	5.97	360	
53 Cr	-0.841 ug/l	~~-0.84~~	18.60	360	
60 Ni	3.368 ug/l	3.37	2.75	360	
63 Cu	3.683 ug/l	~~3.68~~	2.19	360	
65 Cu	1.259 ug/l	1.26	5.41	360	
66 Zn	34.220 ug/l	34.22	2.50	360	
75 As	46.650 ug/l	46.65	1.79	360	
82 Se	8.661 ug/l	8.66	1.32	360	
107 Ag	-0.013 ug/l	~~-0.01~~	6.09	360	
111 Cd	0.008 ug/l	~~0.01~~	86.20	360	
121 Sb	2.826 ug/l	2.83	1.44	360	
202 Hg	-0.058 ug/l	~~-0.06~~	2.10	360	
205 Tl	0.325 ug/l	0.33	1.93	360	
208 Pb	1.165 ug/l	1.17	3.23	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1148287.90	2.29	964060.94	119.1	80 - 120	
89 Y	1786171.90	1.68	1523651.40	117.2	80 - 120	
209 Bi	697506.44	1.29	628350.13	111.0	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

PACE: ICPMS#1 JP93200263

Data File: C:\ICPCHEM\1\DATA\Y6F1301.B\057.D\057.D#
Date Acquired: Jun 13 2016 10:03 pm
Operator: MAC
Sample Name: BF2-INF
Misc Info:
Vial Number: 4303
Current Method: C:\ICPCHEM\1\METHODS\test01.M
Calibration File: C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update: Jun 13 2016 11:39 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

160613-2012
Bag filter
Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	5.243 ug/l	~~5.24~~	7.18	360	
53 Cr	-1.127 ug/l	~~-1.13~~	8.76	360	
60 Ni	3.020 ug/l	3.02	1.15	360	
63 Cu	3.568 ug/l	~~3.57~~	3.99	360	
65 Cu	1.112 ug/l	1.11	1.60	360	
66 Zn	31.330 ug/l	31.33	1.50	360	
75 As	49.210 ug/l	49.21	0.63	360	
82 Se	8.758 ug/l	8.76	1.79	360	
107 Ag	-0.013 ug/l	~~-0.01~~	15.67	360	
111 Cd	0.002 ug/l	~~0.00~~	511.30	360	
121 Sb	2.882 ug/l	2.88	0.33	360	
202 Hg	-0.058 ug/l	~~-0.06~~	2.89	360	
205 Tl	0.314 ug/l	0.31	5.68	360	
208 Pb	2.083 ug/l	2.08	2.15	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1190106.10	3.91	964060.94	123.4	80 - 120	IS Fai
89 Y	1795278.10	1.65	1523651.40	117.8	80 - 120	
209 Bi	722160.06	2.67	628350.13	114.9	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

Sample QC Report

PACE: ICPMS#1 JP93200263

Data File:	C:\ICPCHEM\1\DATA\Y6F1301.B\049.D\049.D#
Date Acquired:	Jun 13 2016 08:59 pm
Operator:	MAC
Sample Name:	AA2-INF
Misc Info:	
Vial Number:	4301
Current Method:	C:\ICPCHEM\1\METHODS\test01.M
Calibration File:	C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update:	Jun 13 2016 11:39 am
Sample Type:	Sample
Prep Dil Factor:	1.00
Total Dil Factor:	1.00

160613 - 2012
Activated
Alumina
Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	4.355 ug/l	~~4.36~~	13.36	360	
53 Cr	-1.035 ug/l	~~-1.04~~	12.26	360	
60 Ni	2.876 ug/l	2.88	3.87	360	
63 Cu	3.389 ug/l	~~3.39~~	3.51	360	
65 Cu	1.021 ug/l	1.02	5.99	360	
66 Zn	59.530 ug/l	59.53	2.68	360	
75 As	48.040 ug/l	48.04	0.79	360	
82 Se	8.877 ug/l	8.88	2.81	360	
107 Ag	-0.011 ug/l	~~-0.01~~	9.37	360	
111 Cd	-0.003 ug/l	~~0.00~~	633.66	360	
121 Sb	2.749 ug/l	2.75	1.67	360	
202 Hg	-0.057 ug/l	~~-0.06~~	5.95	360	
205 Tl	0.298 ug/l	0.30	3.94	360	
208 Pb	0.467 ug/l	0.47	5.70	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1202437.10	6.07	964060.94	124.7	80 - 120	IS Fai
89 Y	1784276.00	3.40	1523651.40	117.1	80 - 120	
209 Bi	716699.00	5.37	628350.13	114.1	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Fail**

Sample QC Report

PACE: ICPMS#1 JP93200263

Data File:	C:\ICPCHEM\1\DATA\Y6F1301.B\058.D\058.D#
Date Acquired:	Jun 13 2016 10:10 pm
Operator:	MAC
Sample Name:	ET2-INF
Misc Info:	
Vial Number:	4304
Current Method:	C:\ICPCHEM\1\METHODS\test01.M
Calibration File:	C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update:	Jun 13 2016 11:39 am
Sample Type:	Sample
Prep Dil Factor:	1.00
Total Dil Factor:	1.00

160613-2012
Enhanced
Treatment
Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	4.460 ug/l	~~4.46~~	3.19	360	
53 Cr	-0.867 ug/l	~~-0.87~~	17.02	360	
60 Ni	2.832 ug/l	2.83	3.37	360	
63 Cu	4.018 ug/l	~~4.02~~	3.99	360	
65 Cu	1.540 ug/l	1.54	0.99	360	
66 Zn	49.890 ug/l	49.89	2.59	360	
75 As	2.260 ug/l	2.26	5.78	360	
82 Se	5.419 ug/l	5.42	5.64	360	
107 Ag	-0.012 ug/l	~~-0.01~~	2.67	360	
111 Cd	0.007 ug/l	~~0.01~~	142.53	360	
121 Sb	2.322 ug/l	2.32	1.84	360	
202 Hg	-0.073 ug/l	~~-0.07~~	0.59	360	
205 Tl	0.389 ug/l	0.39	1.63	360	
208 Pb	0.632 ug/l	0.63	3.29	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1165489.60	2.46	964060.94	120.9	80 - 120	IS Fai
89 Y	1798876.30	1.61	1523651.40	118.1	80 - 120	
209 Bi	709199.63	2.87	628350.13	112.9	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Fail

DRAFT REPORT

Pace Analytical®
ECCS Mobile Lab Services

SUMMARY REPORT

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GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162504-01	Y162504-02	-	-	-	-
MATRIX	Method	Reporting	Water	Water	-	-	-	-
SAMPLE ID	Detection Limit	Limit	160613-1933-A ET	160613-2012-A ET	-	-	-	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.3	2.3	-	-	-	-
Arsenic	0.35 ug/L	2.0 ug/L	2.0	1.9 [2]	-	-	-	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	-	-	-	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	-	-	-	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	-	-	-	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	-	-	-	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	-	-	-	-
Nickel	0.26 ug/L	2.0 ug/L	1.6 [2]	1.6 [2]	-	-	-	-
Selenium	0.26 ug/L	2.0 ug/L	5.9 [1]	5.3 [1] xA	-	-	-	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	-	-	-	-
Thallium	0.051 ug/L	0.40 ug/L	0.65	0.60 xA	-	-	-	-
Zinc	0.83 ug/L	2.0 ug/L	11	8.1	-	-	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).
2 = Analyte was detected but is below the reporting limit. The concentration is estimated.
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.