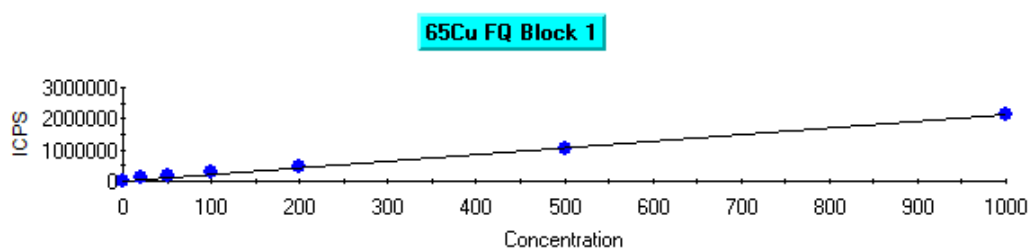


6 APPENDIX

6.1 Results and data

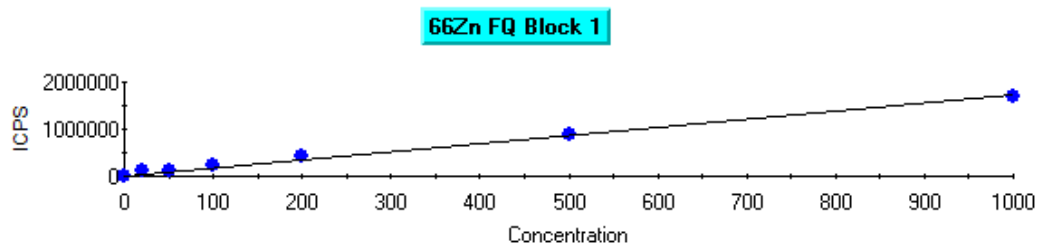
6.1.1 Batch 7.24 – 13.27 (digested on Anton Paar's Multiwave GO) and 7.24 – 10.32 (digested on Milestone's ETHOS EZ) with cooling

Fully Quant Calibration



Intercept CPS=3299.265357 Intercept Conc=1.549118
Sensitivity=2129.770053 Correlation Coeff=0.999202

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	3299.27	0.00
20ppb	20.000	56.349	36.349	123309.34	181.74
50ppb	50.000	68.312	18.312	148788.01	36.62
100ppb	100.000	132.054	32.054	284544.59	32.05
200ppb	200.000	225.171	25.171	482862.76	12.59
500ppb	500.000	491.683	8.317	1050470.73	1.66
1ppm	1000.000	994.276	5.724	2120879.06	0.57

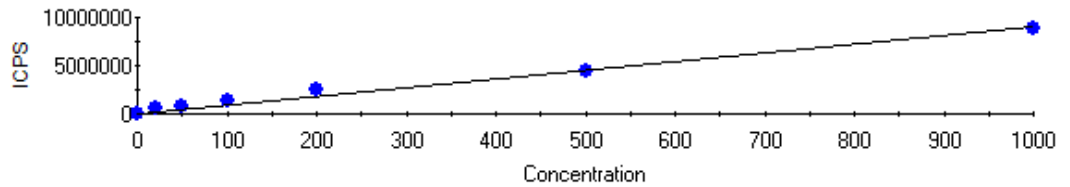


Intercept CPS=1638.814448 Intercept Conc=0.957702
Sensitivity=1711.194873 Correlation Coeff=0.998850

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	1638.81	0.00
20ppb	20.000	60.313	40.313	104846.51	201.57

50ppb	50.000	73.749	23.749	127836.98	47.50
100ppb	100.000	141.451	41.451	243689.73	41.45
200ppb	200.000	240.893	40.893	413853.19	20.45
500ppb	500.000	507.687	7.687	870390.00	1.54
1ppm	1000.000	981.839	18.161	1681756.99	1.82

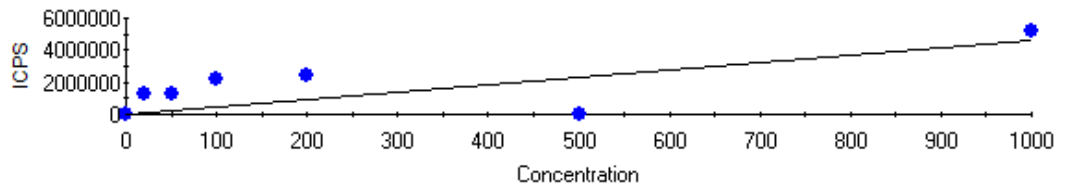
107Ag FQ Block 1



Intercept CPS=2801.766600 Intercept Conc=0.308967
Sensitivity=9068.187650 Correlation Coeff=0.997347

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	2801.77	0.00
20ppb	20.000	62.960	42.960	573732.54	214.80
50ppb	50.000	78.594	28.594	715504.49	57.19
100ppb	100.000	152.663	52.663	1387177.81	52.66
200ppb	200.000	267.554	67.554	2429030.08	33.78
500ppb	500.000	494.999	5.001	4491541.84	1.00
1ppm	1000.000	981.435	18.565	8902636.40	1.86

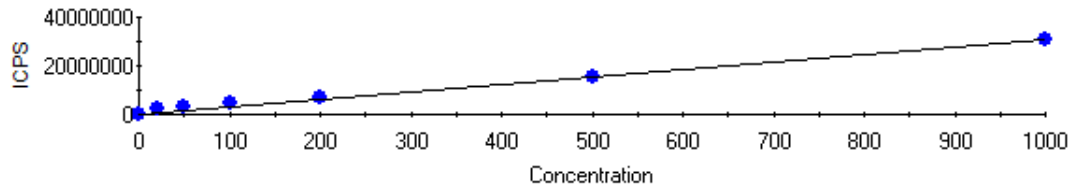
202Hg FQ Block 1



Intercept CPS=154.667983 Intercept Conc=0.033861
Sensitivity=4567.786872 Correlation Coeff=0.684808

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	154.67	0.00
20ppb	20.000	277.743	257.743	1268825.24	1288.71
50ppb	50.000	288.684	238.684	1318803.39	477.37
100ppb	100.000	470.001	370.001	2147020.38	370.00
200ppb	200.000	530.796	330.796	2424717.01	165.40
500ppb	500.000	-0.034	500.034	0.00	100.01
1ppm	1000.000	1129.769	129.769	5160696.63	12.98

208Pb FQ Block 1



Intercept CPS=2657.722389 Intercept Conc=0.085769
Sensitivity=30986.997771 Correlation Coeff=0.998835

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	2657.72	0.00
20ppb	20.000	71.110	51.110	2206139.61	255.55
50ppb	50.000	86.815	36.815	2692806.76	73.63
100ppb	100.000	138.020	38.020	4279474.34	38.02
200ppb	200.000	233.525	33.525	7238895.38	16.76
500ppb	500.000	505.385	5.385	15663006.52	1.08
1ppm	1000.000	983.938	16.062	30491936.44	1.61

Dilution Corrected Concentrations

blank04/05/2018 13:48:34

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:48:34	-0.001	0.005	0.018	0.000	0.005
2	13:48:38	-0.026	0.024	0.007	-0.001	-0.001
3	13:48:41	0.027	-0.030	-0.026	0.000	-0.003
x		-0.000	0.000	0.000	-0.000	-0.000
σ		0.026	0.027	0.023	0.001	0.004

20ppb04/05/2018 13:50:29

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:50:29	56.080	60.020	62.970	282.000	70.980
2	13:50:33	56.720	61.060	63.470	280.400	71.510
3	13:50:36	56.240	59.860	62.440	270.900	70.850
x		56.350	60.310	62.960	277.700	71.110
σ		0.336	0.649	0.512	6.003	0.349

50ppb04/05/2018 13:52:25

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:52:25	67.530	72.770	77.580	288.400	86.060
2	13:52:28	67.500	72.400	77.770	290.700	85.960
3	13:52:32	69.900	76.070	80.440	286.900	88.430
X		68.310	73.750	78.590	288.700	86.820
σ		1.377	2.023	1.598	1.932	1.395

100ppb04/05/2018 13:54:21

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:54:21	131.200	140.300	152.400	466.200	137.500
2	13:54:24	132.200	142.300	153.600	472.900	138.300
3	13:54:27	132.700	141.800	152.000	470.900	138.200
X		132.100	141.500	152.700	470.000	138.000
σ		0.801	1.019	0.818	3.455	0.416

200ppb04/05/2018 13:56:17

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:56:17	226.400	241.400	267.500	546.100	233.200
2	13:56:21	223.900	241.400	269.000	516.600	233.800
3	13:56:24	225.200	239.900	266.200	529.700	233.700
X		225.200	240.900	267.600	530.800	233.500
σ		1.258	0.859	1.387	14.790	0.321

500ppb04/05/2018 13:58:14

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:58:14	489.500	508.300	491.800	-0.034	502.700
2	13:58:18	492.600	507.600	496.600	-0.034	507.200
3	13:58:22	493.000	507.200	496.600	-0.034	506.200
X		491.700	507.700	495.000	-0.034	505.400
σ		1.923	0.558	2.761	0.000	2.385

1ppm04/05/2018 14:00:11

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	14:00:11	990.000	979.400	981.800	1134.000	978.700
2	14:00:15	997.800	986.000	981.300	1134.000	986.200
3	14:00:18	995.000	980.200	981.200	1121.000	986.900
x		994.300	981.800	981.400	1130.000	983.900
σ		3.925	3.616	0.301	7.467	4.531

7.24 04/05/2018 14:02:22

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:02:25	1616.000	3675.000	12.830	1259.000	5066.000
2	14:02:29	1655.000	3728.000	10.000	1248.000	5107.000
3	14:02:32	1615.000	3648.000	14.280	1209.000	5078.000
x		1629.000	3683.000	12.370	1239.000	5084.000
σ		23.260	40.670	2.176	26.580	21.470

7.25 04/05/2018 14:04:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:04:39	1863.000	4271.000	-0.191	730.100	4537.000
2	14:04:42	1836.000	4193.000	1.883	705.500	4468.000
3	14:04:46	1804.000	4105.000	2.500	707.700	4422.000
x		1834.000	4189.000	1.397	714.500	4476.000
σ		29.380	83.240	1.410	13.620	57.740

7.26 04/05/2018 14:06:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:06:53	2020.000	3722.000	-5.309	410.400	4836.000
2	14:06:56	2041.000	3668.000	-6.501	407.100	4786.000
3	14:07:00	1989.000	3666.000	-5.221	408.800	4747.000
x		2017.000	3685.000	-5.677	408.800	4790.000
σ		26.100	31.690	0.715	1.624	44.670

8.22 04/05/2018 14:09:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:09:08	2170.000	5014.000	2.412	267.400	8182.000

2	14:09:12	2223.000	4981.000	-1.427	277.900	8189.000
3	14:09:15	2126.000	5018.000	0.471	276.300	8108.000
x		2173.000	5004.000	0.485	273.900	8160.000
σ		48.600	20.550	1.919	5.675	44.760

8.3704/05/2018 14:11:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:11:25	1634.000	2768.000	-3.589	200.300	10050.000
2	14:11:28	1616.000	2715.000	-4.559	205.600	10040.000
3	14:11:32	1667.000	2787.000	-5.574	209.500	10020.000
x		1639.000	2757.000	-4.574	205.100	10040.000
σ		25.800	37.160	0.993	4.618	17.330

9.2204/05/2018 14:13:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:13:38	1016.000	2364.000	-16.070	134.500	3143.000
2	14:13:42	1008.000	2365.000	-14.400	131.300	3124.000
3	14:13:46	1026.000	2391.000	-14.930	137.400	3116.000
x		1016.000	2373.000	-15.130	134.400	3128.000
σ		9.154	15.610	0.857	3.069	14.110

10.2804/05/2018 14:15:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:15:52	1784.000	4088.000	-8.971	148.500	2875.000
2	14:15:55	1782.000	4065.000	-6.721	152.500	2868.000
3	14:15:59	1751.000	4041.000	-6.898	149.900	2827.000
x		1772.000	4065.000	-7.530	150.300	2857.000
σ		18.630	23.560	1.251	1.999	25.960

10.2904/05/2018 14:18:01

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:18:05	935.800	2658.000	-17.880	91.910	1192.000
2	14:18:08	936.900	2612.000	-19.910	95.070	1196.000
3	14:18:12	924.300	2627.000	-18.280	95.500	1187.000

X	932.300	2632.000	-18.690	94.160	1192.000
σ	6.980	23.330	1.075	1.960	4.667

10.3004/05/2018 14:20:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:20:17	2962.000	2439.000	-14.440	94.020	4207.000
2	14:20:21	2898.000	2389.000	-16.520	95.150	4158.000
3	14:20:24	2912.000	2401.000	-16.300	94.370	4137.000
X		2924.000	2410.000	-15.750	94.510	4167.000
σ		33.430	26.310	1.139	0.583	35.860

10.3104/05/2018 14:22:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:22:31	1195.000	1998.000	-18.100	85.780	4585.000
2	14:22:34	1159.000	1939.000	-18.720	84.730	4428.000
3	14:22:37	1153.000	1922.000	-18.550	93.750	6201.000
X		1169.000	1953.000	-18.460	88.090	5071.000
σ		22.740	39.710	0.318	4.935	981.500

10.3204/05/2018 14:24:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:24:44	1595.000	2153.000	-18.240	72.380	4478.000
2	14:24:48	1570.000	2155.000	-17.880	74.650	4463.000
3	14:24:51	1609.000	2184.000	-18.240	69.750	4470.000
X		1591.000	2164.000	-18.120	72.260	4471.000
σ		19.630	16.830	0.204	2.455	7.321

10.3304/05/2018 14:26:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:26:58	1789.000	3062.000	-15.370	72.900	6710.000
2	14:27:01	1759.000	3019.000	-14.220	73.430	6630.000
3	14:27:05	1690.000	2997.000	-13.910	66.420	6609.000
X		1746.000	3026.000	-14.500	70.920	6650.000
σ		50.630	33.020	0.767	3.903	53.130

10.3404/05/2018 14:29:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:29:13	1624.000	2208.000	-16.740	59.940	6238.000
2	14:29:16	1622.000	2180.000	-17.000	60.730	6213.000
3	14:29:19	1621.000	2201.000	-17.050	60.370	6218.000
X		1622.000	2196.000	-16.930	60.350	6223.000
σ		1.237	14.650	0.167	0.395	13.320

10.3504/05/2018 14:31:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:31:27	1191.000	3138.000	-17.840	46.710	4568.000
2	14:31:30	1165.000	3089.000	-18.940	45.830	4606.000
3	14:31:34	1167.000	3083.000	-18.990	49.780	4542.000
X		1174.000	3104.000	-18.590	47.440	4572.000
σ		14.650	30.270	0.650	2.070	32.240

10.3604/05/2018 14:33:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:33:43	228.200	941.000	-26.000	40.750	753.400
2	14:33:47	222.600	930.500	-25.820	39.000	750.900
3	14:33:51	212.800	939.100	-26.620	40.930	759.200
X		221.200	936.900	-26.150	40.230	754.500
σ		7.799	5.623	0.417	1.066	4.231

10.3804/05/2018 14:35:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:36:00	1554.000	2079.000	-16.340	46.100	6521.000
2	14:36:03	1527.000	2049.000	-17.400	43.470	6472.000
3	14:36:07	1529.000	2085.000	-16.690	46.450	6441.000
X		1537.000	2071.000	-16.810	45.340	6478.000
σ		15.240	19.480	0.539	1.628	40.090

10.3904/05/2018 14:38:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:38:16	1020.000	2135.000	-17.570	32.610	3442.000
2	14:38:20	1036.000	2069.000	-18.500	37.780	3465.000
3	14:38:24	1063.000	2086.000	-17.660	39.530	3455.000
X		1040.000	2097.000	-17.910	36.640	3454.000
σ		21.750	34.490	0.511	3.597	11.310

11.2604/05/2018 14:40:28

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:40:31	1766.000	3714.000	-0.500	36.020	4068.000
2	14:40:35	1773.000	3686.000	0.780	38.830	4036.000
3	14:40:39	1734.000	3645.000	-1.559	40.230	4028.000
X		1757.000	3682.000	-0.427	38.360	4044.000
σ		20.500	34.660	1.171	2.141	20.910

11.2804/05/2018 14:42:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:42:45	758.800	2222.000	-22.070	32.780	551.600
2	14:42:48	725.000	2204.000	-22.820	35.590	546.200
3	14:42:52	729.100	2172.000	-22.160	36.720	546.600
X		737.600	2199.000	-22.350	35.030	548.100
σ		18.480	25.550	0.410	2.028	3.019

11.3004/05/2018 14:44:54

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:44:57	663.600	1833.000	-24.540	32.430	6211.000
2	14:45:01	663.800	1815.000	-24.630	33.400	6139.000
3	14:45:04	682.400	1858.000	-23.750	31.910	6140.000
X		669.900	1835.000	-24.310	32.580	6163.000
σ		10.810	21.540	0.486	0.755	41.030

11.3104/05/2018 14:47:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	14:47:11	1517.000	2381.000	-18.100	38.560	3277.000
2	14:47:15	1562.000	2400.000	-18.550	41.630	3206.000
3	14:47:18	1515.000	2359.000	-18.720	37.510	4523.000
x		1532.000	2380.000	-18.460	39.240	3668.000
σ		26.640	20.580	0.318	2.139	740.800

11.3204/05/2018 14:49:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:49:26	1210.000	2181.000	-19.520	32.700	6231.000
2	14:49:30	1180.000	2269.000	-19.030	32.780	6259.000
3	14:49:34	1176.000	2202.000	-20.220	34.620	6262.000
x		1188.000	2218.000	-19.590	33.370	6251.000
σ		18.760	46.120	0.599	1.088	17.170

11.3304/05/2018 14:51:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:51:42	2653.000	3639.000	-13.910	42.420	30680.000
2	14:51:45	2632.000	3576.000	-13.070	38.740	30650.000
3	14:51:49	2611.000	3530.000	-14.710	43.290	30240.000
x		2632.000	3582.000	-13.900	41.480	30530.000
σ		21.080	54.800	0.816	2.417	249.300

11.3404/05/2018 14:53:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:53:56	2090.000	1978.000	-14.490	33.130	7196.000
2	14:54:00	2084.000	1928.000	-14.180	29.540	7172.000
3	14:54:03	2032.000	1933.000	-12.460	32.080	7104.000
x		2069.000	1946.000	-13.710	31.590	7157.000
σ		31.670	27.620	1.093	1.846	47.780

11.3504/05/2018 14:56:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:56:09	962.500	1962.000	-21.370	28.670	6362.000
2	14:56:12	946.300	1943.000	-21.850	26.210	6315.000

3	14:56:16	955.900	1967.000	-21.720	29.100	6322.000
X		954.900	1957.000	-21.650	28.000	6333.000
σ		8.144	12.640	0.251	1.558	25.340

11.3604/05/2018 14:58:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:58:24	992.300	1329.000	-20.040	29.890	88210.000
2	14:58:27	977.200	1289.000	-20.660	31.910	88600.000
3	14:58:31	980.400	1303.000	-20.040	31.380	87280.000
X		983.300	1307.000	-20.250	31.060	88030.000
σ		7.937	20.000	0.357	1.045	678.800

11.3704/05/2018 15:00:37

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:00:40	1174.000	1836.000	-19.820	74.040	4578.000
2	15:00:43	1172.000	1841.000	-18.150	74.390	4545.000
3	15:00:47	1197.000	1817.000	-17.970	73.600	4578.000
X		1181.000	1831.000	-18.650	74.010	4567.000
σ		14.140	12.550	1.023	0.395	19.180

11.3904/05/2018 15:02:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:02:57	1261.000	1663.000	-21.240	27.970	2528.000
2	15:03:00	1263.000	1664.000	-22.070	27.440	2533.000
3	15:03:04	1251.000	1597.000	-21.850	24.990	2511.000
X		1258.000	1641.000	-21.720	26.800	2524.000
σ		6.481	38.730	0.435	1.589	11.660

12.2204/05/2018 15:05:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:05:13	458.200	1282.000	-5.795	21.050	1268.000
2	15:05:17	449.300	1303.000	-5.133	22.010	1285.000
3	15:05:20	440.700	1286.000	-4.206	22.100	1286.000
X		449.400	1290.000	-5.045	21.720	1279.000

σ 8.746 11.430 0.798 0.583 10.040

12.2304/05/2018 15:07:25

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:07:28	920.500	1946.000	-17.440	24.550	2528.000
2	15:07:32	882.000	1992.000	-18.370	28.140	2514.000
3	15:07:36	880.800	1972.000	-18.100	25.340	2492.000
X		894.400	1970.000	-17.970	26.010	2511.000
σ		22.620	22.800	0.477	1.887	17.860

12.2404/05/2018 15:09:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:09:42	952.900	2672.000	-20.570	18.330	2526.000
2	15:09:46	977.400	2665.000	-19.560	17.890	2525.000
3	15:09:50	977.400	2630.000	-20.270	19.120	2512.000
X		969.300	2656.000	-20.130	18.450	2521.000
σ		14.130	22.730	0.520	0.621	7.834

12.2504/05/2018 15:11:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:11:56	1461.000	2566.000	-18.500	15.710	3701.000
2	15:12:00	1473.000	2555.000	-18.900	16.670	3688.000
3	15:12:03	1473.000	2606.000	-17.090	15.880	3671.000
X		1469.000	2576.000	-18.160	16.080	3686.000
σ		6.912	26.510	0.951	0.513	14.890

12.2604/05/2018 15:14:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:14:11	1578.000	2208.000	-16.690	17.890	2543.000
2	15:14:15	1602.000	2211.000	-18.410	20.000	2556.000
3	15:14:18	1586.000	2183.000	-20.130	20.000	2532.000
X		1589.000	2201.000	-18.410	19.300	2543.000
σ		12.300	15.440	1.721	1.214	12.100

12.2704/05/2018 15:16:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:16:26	1604.000	2418.000	-14.750	22.010	9675.000
2	15:16:30	1605.000	2393.000	-16.780	21.310	9675.000
3	15:16:33	1563.000	2377.000	-14.970	19.030	9593.000
X		1590.000	2396.000	-15.500	20.780	9648.000
σ		24.120	20.420	1.113	1.557	47.210

12.2804/05/2018 15:18:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:18:41	1363.000	2886.000	-14.130	18.860	7147.000
2	15:18:45	1389.000	2906.000	-15.100	18.950	7117.000
3	15:18:48	1389.000	2862.000	-15.060	17.630	7117.000
X		1380.000	2885.000	-14.770	18.480	7127.000
σ		14.750	21.770	0.548	0.735	17.400

12.2904/05/2018 15:20:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:20:57	1130.000	2680.000	-19.870	20.170	2055.000
2	15:21:00	1137.000	2653.000	-18.410	20.080	2037.000
3	15:21:04	1113.000	2657.000	-18.940	23.940	2047.000
X		1127.000	2663.000	-19.070	21.400	2047.000
σ		12.410	14.720	0.737	2.200	8.696

12.3004/05/2018 15:23:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:23:11	2607.000	2524.000	-17.970	21.570	2627.000
2	15:23:14	2673.000	2440.000	-18.020	19.030	2635.000
3	15:23:18	2658.000	2480.000	-17.620	18.770	2638.000
X		2646.000	2482.000	-17.870	19.790	2633.000
σ		34.670	41.940	0.218	1.548	5.238

12.3204/05/2018 15:25:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:25:27	1264.000	1782.000	-19.160	14.830	9273.000
2	15:25:30	1259.000	1748.000	-20.270	14.130	9208.000
3	15:25:33	1229.000	1699.000	-19.520	18.770	9199.000
X		1251.000	1743.000	-19.650	15.910	9227.000
σ		19.070	41.540	0.563	2.502	40.140

12.3304/05/2018 15:27:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:27:43	1751.000	1986.000	-15.810	12.550	3492.000
2	15:27:46	1743.000	2044.000	-17.660	14.920	3527.000
3	15:27:50	1742.000	1948.000	-16.870	13.950	3469.000
X		1745.000	1993.000	-16.780	13.810	3496.000
σ		4.826	47.980	0.930	1.189	29.550

12.3404/05/2018 15:29:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:29:59	6196.000	1763.000	-20.490	12.200	4008.000
2	15:30:03	6243.000	1726.000	-20.790	9.400	4029.000
3	15:30:07	6244.000	1763.000	-20.440	11.680	3987.000
X		6228.000	1751.000	-20.570	11.090	4008.000
σ		27.570	21.670	0.192	1.490	21.300

12.3504/05/2018 15:32:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:32:18	1441.000	1733.000	-20.970	9.575	2016.000
2	15:32:21	1465.000	1702.000	-20.930	9.400	2023.000
3	15:32:25	1453.000	1716.000	-21.060	10.980	2007.000
X		1453.000	1717.000	-20.990	9.983	2015.000
σ		12.440	15.620	0.067	0.864	8.200

12.3604/05/2018 15:34:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	15:34:32	2422.000	2635.000	-13.960	9.837	5615.000
2	15:34:35	2381.000	2620.000	-15.680	12.730	5570.000
3	15:34:39	2345.000	2555.000	-14.880	13.780	5544.000
x		2383.000	2603.000	-14.840	12.110	5576.000
σ		38.300	42.680	0.861	2.041	35.630

12.3704/05/2018 15:36:43

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:36:46	1906.000	2804.000	-14.130	13.080	3859.000
2	15:36:49	1922.000	2785.000	-14.350	12.730	3854.000
3	15:36:53	1916.000	2695.000	-14.090	13.080	3839.000
x		1915.000	2761.000	-14.190	12.960	3850.000
σ		7.729	58.420	0.142	0.202	10.700

12.3804/05/2018 15:38:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:39:02	1761.000	2650.000	-16.340	17.460	4186.000
2	15:39:06	1773.000	2613.000	-16.600	16.320	4184.000
3	15:39:09	1739.000	2571.000	-16.210	17.460	4129.000
x		1757.000	2611.000	-16.380	17.080	4166.000
σ		17.470	39.520	0.202	0.657	31.970

13.2204/05/2018 15:41:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:41:16	1160.000	2671.000	-15.630	8.611	2252.000
2	15:41:20	1186.000	2651.000	-14.400	11.500	2257.000
3	15:41:23	1150.000	2660.000	-14.880	11.060	2236.000
x		1166.000	2661.000	-14.970	10.390	2249.000
σ		18.650	10.230	0.622	1.558	10.960

13.2304/05/2018 15:43:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:43:30	1008.000	2653.000	-18.850	10.280	3470.000

2	15:43:34	1036.000	2659.000	-19.430	11.410	3462.000
3	15:43:37	1016.000	2660.000	-17.750	10.540	3485.000
x		1020.000	2657.000	-18.680	10.740	3472.000
σ		14.180	3.941	0.852	0.596	11.590

13.2404/05/2018 15:45:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:45:45	2172.000	3453.000	-13.600	14.040	3741.000
2	15:45:49	2103.000	3490.000	-13.600	9.750	3745.000
3	15:45:53	2107.000	3445.000	-13.430	12.030	3728.000
x		2127.000	3463.000	-13.550	11.940	3738.000
σ		38.970	23.800	0.102	2.147	8.932

13.2504/05/2018 15:47:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:48:02	3418.000	2391.000	-19.600	9.224	3819.000
2	15:48:05	3407.000	2378.000	-18.940	8.524	3779.000
3	15:48:09	3395.000	2366.000	-19.780	9.750	3793.000
x		3407.000	2378.000	-19.440	9.166	3797.000
σ		11.650	12.570	0.442	0.615	20.280

13.2604/05/2018 15:50:15

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:50:18	1118.000	2929.000	-16.380	12.990	3093.000
2	15:50:22	1120.000	2925.000	-17.490	10.100	3084.000
3	15:50:25	1138.000	2890.000	-16.520	9.925	3104.000
x		1126.000	2915.000	-16.800	11.010	3094.000
σ		11.280	21.440	0.602	1.721	10.300

13.2704/05/2018 16:00:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:01:01	962.700	2344.000	-18.240	12.460	2418.000
2	16:01:04	983.300	2334.000	-19.600	10.540	2386.000
3	16:01:08	976.800	2380.000	-19.560	11.060	2406.000

X	974.300	2352.000	-19.130	11.360	2403.000
σ	10.500	24.320	0.777	0.996	16.400

7.24 (D)04/05/2018 16:03:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:03:18	1225.000	2764.000	-16.070	17.890	4721.000
2	16:03:21	1216.000	2731.000	-16.780	20.610	4747.000
3	16:03:24	1229.000	2724.000	-16.470	17.460	4690.000
X		1223.000	2740.000	-16.440	18.650	4720.000
σ		6.561	21.320	0.354	1.708	28.520

7.25 (D)04/05/2018 16:05:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:05:34	1985.000	4589.000	-6.986	17.110	5070.000
2	16:05:37	1985.000	4558.000	-8.266	17.370	5069.000
3	16:05:41	2001.000	4611.000	-8.707	19.820	5076.000
X		1990.000	4586.000	-7.986	18.100	5071.000
σ		9.318	26.290	0.894	1.497	4.043

7.26 (D)04/05/2018 16:07:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:07:51	2249.000	4020.000	-7.692	27.270	5582.000
2	16:07:54	2291.000	3940.000	-3.721	28.400	5609.000
3	16:07:58	2250.000	3954.000	-1.559	27.440	5532.000
X		2264.000	3971.000	-4.324	27.700	5574.000
σ		23.840	43.020	3.111	0.613	38.910

8.22 (D)04/05/2018 16:10:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:10:07	1161.000	2628.000	-15.630	13.870	4406.000
2	16:10:11	1112.000	2724.000	-14.970	14.480	4401.000
3	16:10:14	1158.000	2667.000	-16.560	13.870	4408.000
X		1144.000	2673.000	-15.720	14.070	4405.000
σ		27.880	48.100	0.798	0.354	3.654

8.37 (D)04/05/2018 16:12:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:12:22	1727.000	3139.000	-9.192	29.460	2100.000
2	16:12:25	1716.000	3088.000	-10.470	25.340	2366.000
3	16:12:28	1689.000	3031.000	-9.854	25.340	2226.000
x		1711.000	3086.000	-9.839	26.710	2231.000
σ		19.720	54.230	0.640	2.377	133.400

9.22 (D)04/05/2018 16:14:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:14:34	1482.000	3206.000	-12.680	24.460	4886.000
2	16:14:38	1486.000	3188.000	-12.550	28.580	4787.000
3	16:14:42	1461.000	3155.000	-13.250	27.000	4785.000
x		1477.000	3183.000	-12.820	26.680	4819.000
σ		13.480	25.900	0.375	2.077	57.950

10.28 (D)04/05/2018 16:16:46

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:16:49	2349.000	5045.000	-4.427	22.360	4074.000
2	16:16:53	2322.000	4963.000	-2.750	20.080	4036.000
3	16:16:56	2307.000	4806.000	-3.147	19.380	3968.000
x		2326.000	4938.000	-3.442	20.610	4026.000
σ		21.170	121.300	0.876	1.557	53.690

10.29 (D)04/05/2018 16:19:01

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:19:05	1002.000	2926.000	-20.350	9.575	1469.000
2	16:19:08	1002.000	2913.000	-18.630	6.772	1479.000
3	16:19:12	981.600	2889.000	-19.070	9.575	1461.000
x		995.200	2909.000	-19.350	8.641	1470.000
σ		11.850	18.650	0.894	1.618	9.067

10.30 (D)04/05/2018 16:21:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:21:21	3209.000	2436.000	-17.000	14.040	6426.000
2	16:21:25	3290.000	2449.000	-17.310	12.380	6358.000
3	16:21:29	3181.000	2465.000	-17.350	16.230	6314.000
x		3227.000	2450.000	-17.220	14.220	6366.000
σ		56.630	14.250	0.192	1.933	56.480

10.32 (D)04/05/2018 16:23:34

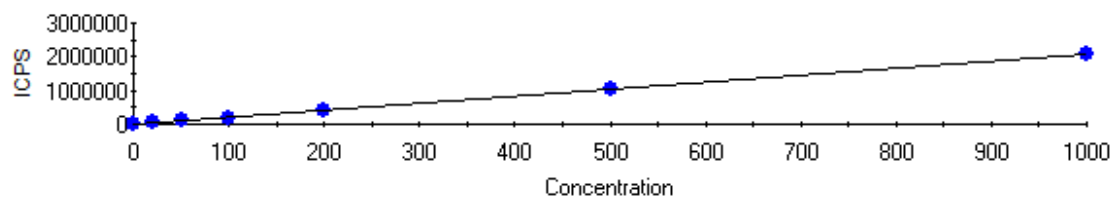
User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:23:38	2153.000	2566.000	-16.650	15.440	6217.000
2	16:23:41	2107.000	2656.000	-15.810	13.170	6224.000
3	16:23:45	2159.000	2637.000	-15.100	15.790	6188.000
x		2140.000	2620.000	-15.850	14.800	6210.000
σ		28.680	47.820	0.773	1.427	18.870

6.1.2 Batch 13.28 – 19.36 (digested on Multiwave GO) with cooling

Fully Quant Calibration

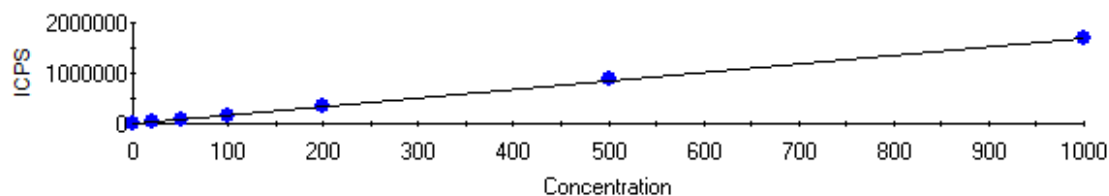
65Cu FQ Block 1



Intercept CPS=2222.938509 Intercept Conc=1.082233
Sensitivity=2054.030416 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	2222.94	0.00
20ppb	20.000	13.505	6.495	29962.63	32.47
50ppb	50.000	43.943	6.057	92484.09	12.11
100ppb	100.000	92.752	7.248	192737.72	7.25
200ppb	200.000	193.872	6.128	400441.58	3.06
500ppb	500.000	499.778	0.222	1028783.00	0.04
1ppm	1000.000	1002.494	2.494	2061376.08	0.25

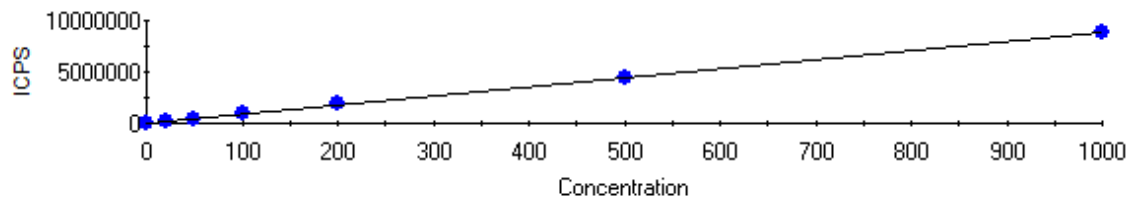
66Zn FQ Block 1



Intercept CPS=1153.406591 Intercept Conc=0.678636
Sensitivity=1699.596043 Correlation Coeff=0.999797

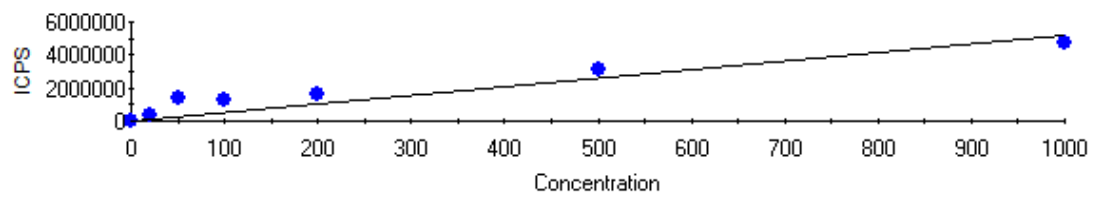
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	1153.41	0.00
20ppb	20.000	14.370	5.630	25575.93	28.15
50ppb	50.000	46.148	3.852	79585.53	7.70
100ppb	100.000	97.972	2.028	167666.85	2.03
200ppb	200.000	202.288	2.288	344960.53	1.14
500ppb	500.000	514.758	14.758	876033.60	2.95
1ppm	1000.000	992.672	7.328	1688294.17	0.73

107Ag FQ Block 1



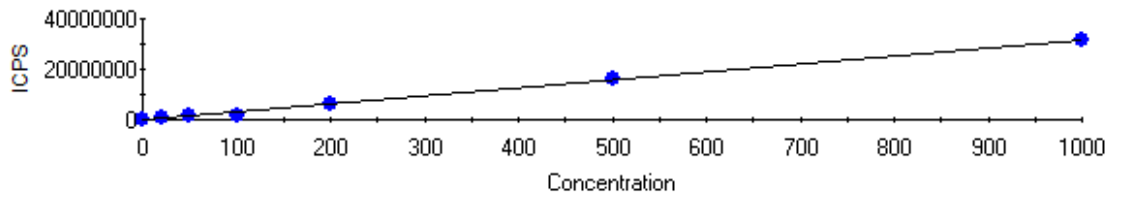
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	2497.68	0.00
20ppb	20.000	15.004	4.996	136158.76	24.98
50ppb	50.000	49.847	0.153	446549.86	0.31
100ppb	100.000	105.860	5.860	945533.11	5.86
200ppb	200.000	224.699	24.699	2004183.14	12.35
500ppb	500.000	506.755	6.755	4516821.84	1.35
1ppm	1000.000	991.204	8.796	8832433.84	0.88

202Hg FQ Block 1



Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	494.68	0.00
20ppb	20.000	68.645	48.645	356764.62	243.22
50ppb	50.000	273.620	223.620	1420592.27	447.24
100ppb	100.000	252.539	152.539	1311183.57	152.54
200ppb	200.000	301.582	101.582	1565714.83	50.79
500ppb	500.000	601.209	101.209	3120792.39	20.24
1ppm	1000.000	901.671	98.329	4680205.50	9.83

208Pb FQ Block 1



Intercept CPS=1812.180678 Intercept Conc=0.057917
Sensitivity=31289.292203 Correlation Coeff=0.998050

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	1812.18	0.00
20ppb	20.000	16.265	3.735	510739.01	18.67
50ppb	50.000	53.148	3.148	1664772.33	6.30
100ppb	100.000	40.368	59.632	1264888.30	59.63
200ppb	200.000	200.078	0.078	6262112.78	0.04
500ppb	500.000	513.558	13.558	16070663.74	2.71
1ppm	1000.000	999.086	0.914	31262510.93	0.09

Dilution Corrected Concentrations

blank08/05/2018 14:21:45

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:21:45	0.012	0.004	0.036	0.006	0.001
2	14:21:49	0.016	0.027	-0.014	-0.011	0.001
3	14:21:53	-0.029	-0.031	-0.022	0.005	-0.002
x		0.000	-0.000	-0.000	-0.000	-0.000
σ		0.025	0.030	0.032	0.010	0.001

20ppb08/05/2018 14:23:42

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:23:42	13.500	14.100	14.940	68.090	16.040
2	14:23:45	13.440	14.450	15.020	68.950	16.330
3	14:23:49	13.570	14.560	15.060	68.900	16.430
x		13.510	14.370	15.000	68.640	16.270
σ		0.063	0.241	0.063	0.482	0.203

50ppb08/05/2018 14:25:37

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:25:37	44.360	46.680	49.980	275.400	53.200
2	14:25:41	43.380	45.820	49.680	273.800	52.920
3	14:25:44	44.080	45.940	49.880	271.600	53.320
X		43.940	46.150	49.850	273.600	53.150
σ		0.504	0.465	0.152	1.910	0.207

100ppb08/05/2018 14:27:32

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:27:32	92.330	98.240	105.800	255.000	45.290
2	14:27:36	93.050	96.680	106.000	251.000	40.400
3	14:27:40	92.880	99.000	105.800	251.600	35.410
X		92.750	97.970	105.900	252.500	40.370
σ		0.378	1.181	0.129	2.147	4.941

200ppb08/05/2018 14:29:28

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:29:28	192.600	201.700	224.900	301.500	198.800
2	14:29:32	195.000	203.800	224.900	302.900	200.500
3	14:29:35	194.000	201.400	224.300	300.400	200.900
X		193.900	202.300	224.700	301.600	200.100
σ		1.167	1.338	0.329	1.290	1.104

500ppb08/05/2018 14:31:25

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:31:25	506.900	523.200	512.100	590.300	517.400
2	14:31:28	492.000	506.800	501.100	605.900	509.700
3	14:31:32	500.500	514.300	507.100	607.400	513.600
X		499.800	514.800	506.800	601.200	513.600
σ		7.500	8.236	5.492	9.501	3.877

1ppm08/05/2018 14:33:21

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	14:33:21	996.500	990.300	987.300	893.800	990.200
2	14:33:25	1008.000	994.500	991.500	908.400	1007.000
3	14:33:28	1003.000	993.200	994.800	902.800	1001.000
x		1002.000	992.700	991.200	901.700	999.100
σ		5.695	2.122	3.720	7.376	8.291

13.2808/05/2018 14:35:32

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:35:35	1238.000	3033.000	62.520	5978.000	3185.000
2	14:35:39	1236.000	3017.000	65.490	5877.000	3191.000
3	14:35:42	1249.000	2972.000	58.750	5833.000	3117.000
x		1241.000	3007.000	62.260	5896.000	3164.000
σ		7.172	31.650	3.379	74.320	41.240

13.3308/05/2018 14:37:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:37:51	1627.000	2873.000	12.160	4233.000	4625.000
2	14:37:54	1613.000	2816.000	6.767	4186.000	4491.000
3	14:37:58	1581.000	2728.000	12.520	4159.000	4426.000
x		1607.000	2805.000	10.480	4193.000	4514.000
σ		23.660	73.070	3.221	37.220	101.300

13.3508/05/2018 14:40:03

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:40:07	1765.000	2721.000	14.000	4613.000	3654.000
2	14:40:10	1809.000	2716.000	10.320	4606.000	3669.000
3	14:40:14	1832.000	2676.000	12.790	4527.000	3640.000
x		1802.000	2704.000	12.370	4582.000	3654.000
σ		34.140	24.810	1.877	47.740	14.810

13.3608/05/2018 14:42:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:42:22	1382.000	2374.000	3.713	3538.000	3400.000

2	14:42:25	1418.000	2371.000	3.174	3550.000	3376.000
3	14:42:29	1413.000	2329.000	2.365	3524.000	3360.000
x		1404.000	2358.000	3.084	3537.000	3379.000
σ		19.620	25.290	0.678	13.260	20.160

13.3708/05/2018 14:44:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:44:38	1448.000	2595.000	-2.710	4124.000	36280.000
2	14:44:42	1439.000	2514.000	-3.518	4152.000	35830.000
3	14:44:45	1423.000	2433.000	-3.563	4162.000	35080.000
x		1437.000	2514.000	-3.264	4146.000	35730.000
σ		12.830	81.120	0.480	19.990	603.500

13.3808/05/2018 14:46:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:46:52	1321.000	2311.000	-13.940	4275.000	2046.000
2	14:46:55	1275.000	2336.000	-12.100	4273.000	2035.000
3	14:46:59	1293.000	2344.000	-12.550	4255.000	2011.000
x		1296.000	2331.000	-12.860	4268.000	2030.000
σ		22.730	17.530	0.960	10.770	17.900

13.3908/05/2018 14:49:01

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:49:04	1639.000	2353.000	-10.790	3990.000	25140.000
2	14:49:07	1605.000	2312.000	-9.447	3942.000	24630.000
3	14:49:11	1596.000	2306.000	-11.600	3912.000	24660.000
x		1613.000	2324.000	-10.610	3948.000	24810.000
σ		22.650	25.680	1.089	39.420	287.000

14.2708/05/2018 14:51:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:51:17	1573.000	3065.000	-11.110	3352.000	2590.000
2	14:51:20	1532.000	3032.000	-10.300	3358.000	2553.000
3	14:51:24	1579.000	3016.000	-10.660	3333.000	2555.000

X	1561.000	3038.000	-10.690	3348.000	2566.000
σ	25.790	24.850	0.405	12.750	20.940

14.2808/05/2018 14:53:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:53:29	1360.000	2925.000	-10.790	2917.000	2608.000
2	14:53:33	1368.000	2873.000	-12.550	2958.000	2592.000
3	14:53:36	1329.000	2880.000	-10.970	2928.000	2567.000
X		1352.000	2893.000	-11.440	2934.000	2589.000
σ		20.750	28.260	0.964	21.100	20.590

14.3508/05/2018 14:55:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:55:41	2260.000	2393.000	-12.140	2827.000	4942.000
2	14:55:45	2226.000	2322.000	-12.590	2778.000	4049.000
3	14:55:48	2217.000	2313.000	-11.960	2766.000	4535.000
X		2235.000	2342.000	-12.230	2790.000	4509.000
σ		22.790	43.800	0.324	32.260	446.800

14.3608/05/2018 14:57:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:57:56	1314.000	1757.000	-15.600	2323.000	2592.000
2	14:57:59	1327.000	1731.000	-14.340	2288.000	2583.000
3	14:58:03	1338.000	1765.000	-15.330	2285.000	2580.000
X		1326.000	1751.000	-15.090	2299.000	2585.000
σ		12.120	17.630	0.662	21.320	6.268

14.3908/05/2018 15:00:07

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:00:11	590.900	1466.000	-22.380	2047.000	450.900
2	15:00:14	601.600	1419.000	-22.560	2023.000	453.200
3	15:00:17	615.400	1465.000	-21.170	2027.000	444.700
X		602.600	1450.000	-22.040	2032.000	449.600
σ		12.320	27.060	0.757	12.750	4.421

14.4008/05/2018 15:02:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:02:25	1088.000	1907.000	-13.940	1543.000	2628.000
2	15:02:28	1043.000	1870.000	-16.450	1511.000	2595.000
3	15:02:31	1065.000	1874.000	-15.960	1511.000	2591.000
X		1065.000	1883.000	-15.450	1522.000	2604.000
σ		22.650	20.220	1.332	18.360	20.180

15.2508/05/2018 15:04:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:04:38	1680.000	3508.000	-10.930	1456.000	4545.000
2	15:04:42	1630.000	3509.000	-11.020	1448.000	4480.000
3	15:04:45	1684.000	3481.000	-10.790	1474.000	4419.000
X		1665.000	3499.000	-10.910	1459.000	4481.000
σ		30.600	15.600	0.113	13.220	63.350

15.3108/05/2018 15:16:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:17:00	109.500	-66.920	-27.000	503.500	-5.753
2	15:17:03	108.400	-66.920	-27.090	496.500	-5.741
3	15:17:07	118.900	-66.920	-27.090	503.000	-5.766
X		112.300	-66.920	-27.060	501.000	-5.753
σ		5.767	0.000	0.052	3.914	0.013

15.3308/05/2018 15:19:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:19:14	1628.000	2967.000	-11.200	707.800	2061.000
2	15:19:18	1620.000	2970.000	-10.930	711.900	2046.000
3	15:19:21	1646.000	2944.000	-10.700	722.700	2042.000
X		1631.000	2960.000	-10.940	714.200	2050.000
σ		13.370	14.310	0.247	7.674	10.210

15.3408/05/2018 15:21:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:21:30	1203.000	2082.000	-16.090	796.200	2215.000
2	15:21:33	1188.000	2003.000	-16.230	797.200	2196.000
3	15:21:37	1204.000	2008.000	-14.880	803.100	2187.000
x		1198.000	2031.000	-15.730	798.800	2200.000
σ		9.008	44.060	0.742	3.766	14.430

15.3508/05/2018 15:23:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:23:45	1285.000	2142.000	-15.240	1398.000	4631.000
2	15:23:48	1264.000	2156.000	-16.180	1391.000	4720.000
3	15:23:51	1290.000	2142.000	-15.600	1428.000	4789.000
x		1280.000	2146.000	-15.670	1406.000	4713.000
σ		14.070	7.914	0.476	19.540	79.370

15.3608/05/2018 15:25:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:25:55	1390.000	2160.000	-15.960	1349.000	1955.000
2	15:25:59	1398.000	2141.000	-15.510	1362.000	1917.000
3	15:26:02	1353.000	2069.000	-16.270	1337.000	1921.000
x		1380.000	2123.000	-15.910	1349.000	1931.000
σ		23.570	47.960	0.384	12.470	20.920

15.3708/05/2018 15:28:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:28:08	1512.000	3594.000	-10.610	853.800	2295.000
2	15:28:11	1543.000	3659.000	-10.430	845.500	2304.000
3	15:28:15	1544.000	3587.000	-10.170	837.600	2293.000
x		1533.000	3613.000	-10.400	845.600	2297.000
σ		17.720	39.700	0.226	8.094	5.622

15.3808/05/2018 15:30:17

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	15:30:20	1142.000	2141.000	-9.491	665.300	2137.000
2	15:30:24	1132.000	2133.000	-10.790	667.500	2115.000
3	15:30:27	1089.000	2102.000	-10.520	669.300	2104.000
x		1121.000	2125.000	-10.270	667.400	2119.000
σ		27.900	20.190	0.688	2.014	16.810

15.3908/05/2018 15:32:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:32:32	775.200	1657.000	-21.480	647.800	1640.000
2	15:32:36	718.800	1628.000	-21.300	666.600	1636.000
3	15:32:39	727.800	1588.000	-21.210	680.500	1611.000
x		740.600	1624.000	-21.330	665.000	1629.000
σ		30.300	34.780	0.137	16.390	15.680

15.4008/05/2018 15:34:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:34:45	1020.000	2333.000	-16.540	573.600	2002.000
2	15:34:48	1024.000	2300.000	-16.950	573.900	1969.000
3	15:34:52	1014.000	2309.000	-16.140	555.000	1957.000
x		1019.000	2314.000	-16.540	567.500	1976.000
σ		5.276	17.190	0.404	10.800	23.000

15.4108/05/2018 15:36:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:36:59	1337.000	3469.000	-15.690	552.200	2194.000
2	15:37:02	1372.000	3437.000	-15.510	559.800	2187.000
3	15:37:05	1339.000	3366.000	-14.700	562.400	2157.000
x		1349.000	3424.000	-15.300	558.100	2179.000
σ		19.760	52.900	0.526	5.299	19.630

16.2908/05/2018 15:39:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:39:14	1690.000	3647.000	-10.570	565.700	5141.000
2	15:39:17	1708.000	3617.000	-10.700	570.100	5137.000

3	15:39:21	1712.000	3543.000	-9.357	572.000	5116.000
X		1703.000	3602.000	-10.210	569.300	5131.000
σ		11.720	53.530	0.742	3.207	13.230

16.3108/05/2018 15:41:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:41:28	1249.000	3059.000	-9.761	468.000	2755.000
2	15:41:31	1279.000	2951.000	-10.970	480.400	2709.000
3	15:41:35	1244.000	2931.000	-9.402	463.000	2697.000
X		1257.000	2981.000	-10.050	470.500	2720.000
σ		18.890	68.860	0.824	8.949	30.480

16.3208/05/2018 15:43:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:43:41	942.900	1873.000	-18.380	343.700	2206.000
2	15:43:44	950.500	1866.000	-18.740	352.000	2182.000
3	15:43:48	946.400	1908.000	-17.980	335.500	2180.000
X		946.600	1882.000	-18.370	343.800	2189.000
σ		3.810	22.330	0.382	8.225	14.500

16.3308/05/2018 15:45:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:45:56	1400.000	2643.000	-11.920	255.600	2531.000
2	15:46:00	1416.000	2579.000	-11.060	261.300	2514.000
3	15:46:03	1379.000	2567.000	-10.390	239.600	2491.000
X		1398.000	2596.000	-11.120	252.100	2512.000
σ		18.330	40.950	0.765	11.240	19.920

16.3408/05/2018 15:48:28

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:48:31	944.800	1699.000	-19.730	1333.000	1395.000
2	15:48:35	911.000	1707.000	-20.040	1312.000	1381.000
3	15:48:39	899.500	1701.000	-19.640	1365.000	1395.000
X		918.500	1702.000	-19.810	1337.000	1390.000

σ	23.540	4.198	0.212	26.600	8.300
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16.3608/05/2018 15:50:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:50:44	1214.000	2524.000	-21.300	3228.000	943.400
2	15:50:47	1188.000	2572.000	-21.260	3106.000	936.000
3	15:50:51	1284.000	2562.000	-20.720	3007.000	957.200
X		1229.000	2553.000	-21.090	3114.000	945.500
σ		49.360	25.350	0.325	110.600	10.790

16.3808/05/2018 15:52:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:52:56	1318.000	2690.000	-12.860	3269.000	2806.000
2	15:53:00	1368.000	2711.000	-10.970	3115.000	2816.000
3	15:53:03	1341.000	2657.000	-12.370	2868.000	2792.000
X		1342.000	2686.000	-12.070	3084.000	2805.000
σ		24.650	27.450	0.978	202.500	12.420

16.3908/05/2018 15:55:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:55:09	1019.000	2014.000	-16.720	122.100	1903.000
2	15:55:12	968.400	2006.000	-17.040	107.500	1891.000
3	15:55:16	1009.000	2016.000	-16.540	99.870	1878.000
X		998.900	2012.000	-16.770	109.800	1891.000
σ		26.790	5.184	0.250	11.290	12.190

164008/05/2018 15:57:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:57:22	1103.000	2392.000	-17.130	30.550	3113.000
2	15:57:26	1102.000	2358.000	-17.400	36.180	3092.000
3	15:57:30	1113.000	2337.000	-16.140	33.400	3050.000
X		1106.000	2362.000	-16.890	33.380	3085.000
σ		6.101	27.560	0.662	2.814	32.230

17.2908/05/2018 15:59:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:59:37	1639.000	2561.000	-13.220	29.780	3422.000
2	15:59:41	1613.000	2577.000	-14.880	32.480	3375.000
3	15:59:44	1645.000	2533.000	-13.670	28.620	3376.000
X		1632.000	2557.000	-13.920	30.290	3391.000
σ		17.030	21.940	0.860	1.978	26.790

17.3008/05/2018 16:01:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:01:53	1137.000	2488.000	-15.060	27.470	3127.000
2	16:01:56	1097.000	2503.000	-15.190	28.080	3109.000
3	16:01:59	1117.000	2411.000	-15.870	32.480	3100.000
X		1117.000	2467.000	-15.370	29.340	3112.000
σ		20.020	49.190	0.433	2.732	13.380

17.3108/05/2018 16:04:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:04:07	1764.000	3424.000	47.200	28.010	3502.000
2	16:04:11	1758.000	3398.000	48.860	34.640	3492.000
3	16:04:14	1788.000	3410.000	50.840	33.250	3474.000
X		1770.000	3411.000	48.970	31.960	3489.000
σ		15.890	12.910	1.822	3.497	14.240

17.3208/05/2018 16:06:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:06:23	982.300	1377.000	-19.150	32.710	9704.000
2	16:06:26	1008.000	1348.000	-19.780	35.560	9674.000
3	16:06:29	978.000	1339.000	-19.550	32.250	9545.000
X		989.500	1355.000	-19.490	33.510	9641.000
σ		16.370	19.580	0.319	1.795	84.190

17.3408/05/2018 16:08:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:08:39	1096.000	1850.000	-17.080	24.150	3156.000
2	16:08:42	1084.000	1813.000	-18.340	24.920	3151.000
3	16:08:46	1102.000	1847.000	-17.400	23.610	3133.000
X		1094.000	1837.000	-17.600	24.230	3147.000
σ		8.863	20.720	0.654	0.659	11.890

17.3508/05/2018 16:10:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:10:55	1374.000	2539.000	-13.130	27.930	2541.000
2	16:10:59	1355.000	2541.000	-15.370	25.230	2555.000
3	16:11:02	1356.000	2511.000	-12.460	27.240	2509.000
X		1362.000	2530.000	-13.650	26.800	2535.000
σ		10.850	16.680	1.528	1.401	23.300

17.3808/05/2018 16:13:09

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:13:12	1036.000	2193.000	-16.630	22.460	3262.000
2	16:13:15	1025.000	2165.000	-18.790	23.690	3244.000
3	16:13:19	1013.000	2219.000	-17.890	23.300	3237.000
X		1025.000	2192.000	-17.770	23.150	3248.000
σ		11.530	27.070	1.083	0.631	12.790

17.4008/05/2018 16:15:25

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:15:28	1257.000	2254.000	-7.875	30.400	3843.000
2	16:15:32	1218.000	2211.000	-9.671	27.240	3842.000
3	16:15:35	1195.000	2190.000	-10.970	26.850	3833.000
X		1224.000	2219.000	-9.506	28.160	3840.000
σ		31.280	32.750	1.556	1.946	5.467

18.2908/05/2018 16:17:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	16:17:42	1325.000	2607.000	-13.800	24.000	2257.000
2	16:17:46	1344.000	2637.000	-13.490	22.150	2260.000
3	16:17:49	1323.000	2598.000	-12.900	20.530	2258.000
x		1331.000	2614.000	-13.400	22.220	2259.000
σ		11.480	20.320	0.456	1.736	1.626

18.3008/05/2018 16:19:51

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:19:55	989.900	2279.000	-15.730	17.750	2098.000
2	16:19:58	1026.000	2363.000	-14.750	16.670	2099.000
3	16:20:02	1020.000	2315.000	-17.040	16.210	2084.000
x		1012.000	2319.000	-15.840	16.880	2094.000
σ		19.270	42.560	1.149	0.791	8.471

18.3108/05/2018 16:22:06

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:22:10	1476.000	1934.000	-17.130	26.540	2343.000
2	16:22:13	1496.000	1910.000	-15.420	27.850	2212.000
3	16:22:17	1446.000	1888.000	-16.140	23.070	2283.000
x		1473.000	1911.000	-16.230	25.820	2279.000
σ		25.160	22.680	0.857	2.470	65.920

18.3208/05/2018 16:24:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:24:25	1206.000	2052.000	-15.910	21.920	3779.000
2	16:24:28	1163.000	2033.000	-17.080	22.300	3690.000
3	16:24:31	1176.000	2017.000	-17.490	23.840	3695.000
x		1182.000	2034.000	-16.830	22.690	3721.000
σ		21.780	17.630	0.816	1.020	49.940

18.3308/05/2018 16:26:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:26:40	1194.000	2109.000	-15.060	18.220	3123.000

2	16:26:43	1197.000	2030.000	-15.600	22.070	3088.000
3	16:26:46	1171.000	2008.000	-14.610	18.450	3078.000
x		1187.000	2049.000	-15.090	19.580	3096.000
σ		14.320	53.100	0.495	2.162	23.980

18.3708/05/2018 16:28:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:28:55	835.500	1762.000	-20.310	19.990	1116.000
2	16:28:58	839.800	1756.000	-19.550	20.910	1111.000
3	16:29:02	840.000	1767.000	-19.190	23.230	1103.000
x		838.400	1762.000	-19.690	21.380	1110.000
σ		2.537	5.694	0.573	1.668	7.030

18.3908/05/2018 16:31:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:31:11	1175.000	2420.000	-9.042	18.290	1651.000
2	16:31:15	1150.000	2419.000	-10.840	16.210	1640.000
3	16:31:18	1156.000	2361.000	-10.080	17.750	1642.000
x		1161.000	2400.000	-9.985	17.420	1644.000
σ		13.150	33.660	0.902	1.080	6.008

18.4008/05/2018 16:33:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:33:27	1562.000	2132.000	-17.750	16.290	3356.000
2	16:33:30	1566.000	2114.000	-17.400	15.980	3395.000
3	16:33:34	1652.000	2187.000	-16.950	17.140	3409.000
x		1593.000	2144.000	-17.370	16.470	3386.000
σ		50.950	37.620	0.405	0.599	27.180

18.4108/05/2018 16:36:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:36:33	1098.000	1591.000	-18.880	19.530	6134.000
2	16:36:36	1109.000	1605.000	-17.890	19.220	6072.000
3	16:36:40	1106.000	1596.000	-19.510	25.000	6052.000

x	1104.000	1597.000	-18.760	21.250	6086.000
σ	5.988	6.827	0.815	3.253	42.870

19.3408/05/2018 16:38:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:38:48	697.400	1825.000	-20.040	13.360	1519.000
2	16:38:52	723.700	1805.000	-19.820	14.360	1506.000
3	16:38:55	719.200	1761.000	-19.960	11.970	1492.000
x		713.400	1797.000	-19.940	13.230	1506.000
σ		14.090	32.730	0.113	1.200	13.700

19.3608/05/2018 16:41:00

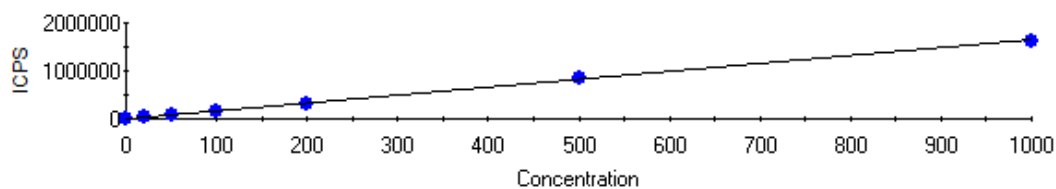
User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:41:03	369.100	1591.000	-23.010	12.670	736.900
2	16:41:07	390.600	1630.000	-23.190	10.050	739.700
3	16:41:10	380.100	1574.000	-23.640	8.658	734.000
x		379.900	1598.000	-23.280	10.460	736.900
σ		10.720	28.600	0.324	2.035	2.846

6.1.3 Batch 19.38 – 24.35 (digested on Multiwave GO) with cooling

Fully Quant Calibration

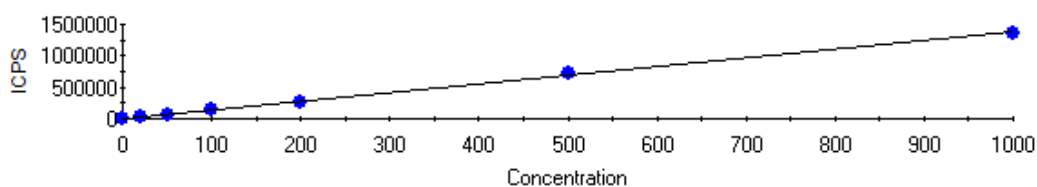
65Cu FQ Block 1



Intercept CPS=3159.215689 Intercept Conc=1.926629
Sensitivity=1639.763795 Correlation Coeff=0.999611

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	3159.22	0.00
20ppb	20.000	18.753	1.247	33909.82	6.23
50ppb	50.000	45.121	4.879	77147.31	9.76
100ppb	100.000	92.614	7.386	155023.96	7.39
200ppb	200.000	186.602	13.398	309141.76	6.70
500ppb	500.000	519.434	19.434	854907.70	3.89
1ppm	1000.000	993.970	6.030	1633035.82	0.60

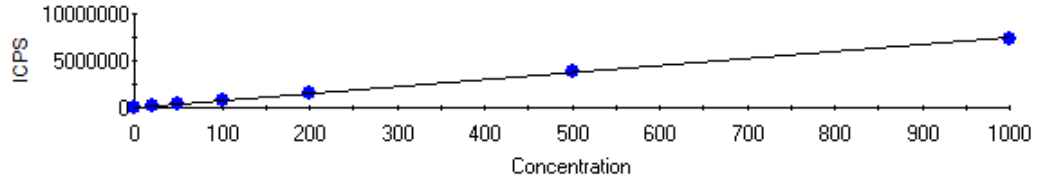
66Zn FQ Block 1



Intercept CPS=2480.338743 Intercept Conc=1.805382
Sensitivity=1373.858033 Correlation Coeff=0.999514

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	2480.34	0.00
20ppb	20.000	21.528	1.528	32056.43	7.64
50ppb	50.000	47.243	2.757	67386.16	5.51
100ppb	100.000	97.077	2.923	135850.24	2.92
200ppb	200.000	192.425	7.575	266845.14	3.79
500ppb	500.000	524.484	24.484	723047.47	4.90
1ppm	1000.000	989.672	10.328	1362149.64	1.03

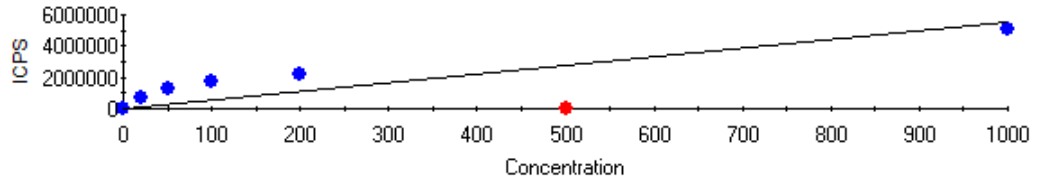
107Ag FQ Block 1



Intercept CPS=3908.841491 Intercept Conc=0.523823
Sensitivity=7462.135580 Correlation Coeff=0.999665

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	3908.84	0.00
20ppb	20.000	20.730	0.730	158600.86	3.65
50ppb	50.000	50.742	0.742	382552.65	1.48
100ppb	100.000	104.720	4.720	785344.72	4.72
200ppb	200.000	212.712	12.712	1591197.09	6.36
500ppb	500.000	518.404	18.404	3872308.24	3.68
1ppm	1000.000	987.732	12.268	7374498.32	1.23

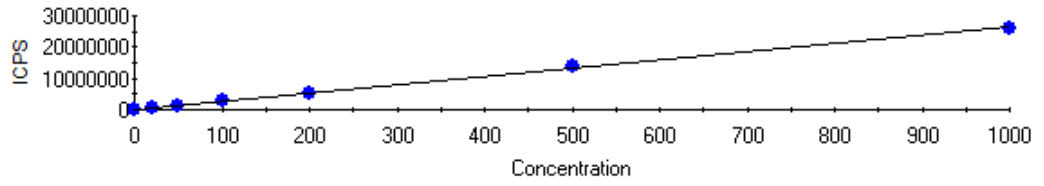
202Hg FQ Block 1



Intercept CPS=993.387638 Intercept Conc=0.180568
Sensitivity=5501.447120 Correlation Coeff=0.960787

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	993.39	0.00
20ppb	20.000	120.059	100.059	661490.36	500.29
50ppb	50.000	226.264	176.264	1245770.25	352.53
100ppb	100.000	312.531	212.531	1720365.24	212.53
200ppb	200.000	396.180	196.180	2180559.20	98.09
500ppb	500.000	-0.181	500.181	0.00	100.04
1ppm	1000.000	928.696	71.304	5110167.93	7.13

208Pb FQ Block 1



Intercept CPS=3169.886899 Intercept Conc=0.119861
Sensitivity=26446.301423 Correlation Coeff=0.999356

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	3169.89	0.00
20ppb	20.000	23.312	3.312	619677.71	16.56
50ppb	50.000	54.131	4.131	1434735.23	8.26
100ppb	100.000	113.320	13.320	3000057.23	13.32
200ppb	200.000	190.298	9.702	5035856.15	4.85
500ppb	500.000	526.343	26.343	13923005.48	5.27
1ppm	1000.000	987.164	12.836	26110003.80	1.28

Dilution Corrected Concentrations

blank09/05/2018 14:11:53

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:11:53	0.040	0.087	0.027	-0.005	0.007
2	14:11:57	-0.046	-0.064	-0.004	-0.000	-0.003
3	14:12:01	0.006	-0.023	-0.023	0.006	-0.004
x		-0.000	0.000	0.000	-0.000	-0.000
σ		0.043	0.078	0.025	0.005	0.006

20ppb09/05/2018 14:13:48

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:13:48	18.420	21.080	20.650	119.500	23.270
2	14:13:52	19.330	21.870	20.750	119.500	23.470
3	14:13:55	18.510	21.630	20.790	121.100	23.200
x		18.750	21.530	20.730	120.100	23.310
σ		0.503	0.402	0.069	0.942	0.139

50ppb09/05/2018 14:15:43

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:15:43	45.150	47.050	50.500	224.200	54.070
2	14:15:47	45.450	47.400	50.730	226.200	54.420
3	14:15:50	44.760	47.280	51.000	228.400	53.900
x		45.120	47.240	50.740	226.300	54.130
σ		0.343	0.181	0.251	2.122	0.267

100ppb09/05/2018 14:17:40

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:17:40	93.140	97.340	104.200	315.700	113.200
2	14:17:43	92.450	97.860	105.900	311.700	113.800
3	14:17:47	92.260	96.030	104.000	310.100	113.000
x		92.610	97.080	104.700	312.500	113.300
σ		0.465	0.941	1.002	2.897	0.415

200ppb09/05/2018 14:19:35

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:19:35	186.400	191.300	212.500	395.600	189.300
2	14:19:39	187.200	193.800	213.300	396.500	191.300
3	14:19:42	186.100	192.200	212.300	396.500	190.400
x		186.600	192.400	212.700	396.200	190.300
σ		0.553	1.258	0.521	0.540	0.999

500ppb09/05/2018 14:21:32

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:21:32	516.500	524.200	513.600	-0.181	522.600
2	14:21:36	521.100	524.400	520.600	-0.181	528.100
3	14:21:40	520.700	524.900	521.000	-0.181	528.400
x		519.400	524.500	518.400	-0.181	526.300
σ		2.528	0.351	4.144	0.000	3.257

1ppm09/05/2018 14:23:29

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	14:23:29	998.200	987.100	988.700	918.100	988.900
2	14:23:33	994.600	992.000	985.700	932.500	987.100
3	14:23:36	989.100	989.900	988.800	935.400	985.500
x		994.000	989.700	987.700	928.700	987.200
σ		4.610	2.451	1.757	9.265	1.686

19.3809/05/2018 14:25:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:25:43	928.600	2818.000	50.370	1756.000	1895.000
2	14:25:47	962.400	2815.000	50.260	1681.000	1867.000
3	14:25:50	956.500	2777.000	45.970	1601.000	1880.000
x		949.200	2803.000	48.860	1679.000	1881.000
σ		18.020	23.180	2.509	77.660	14.010

19.3909/05/2018 14:27:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:27:59	1251.000	2945.000	-14.260	792.700	3551.000
2	14:28:02	1241.000	2925.000	-18.610	800.300	3541.000
3	14:28:06	1228.000	2855.000	-13.350	772.300	3514.000
x		1240.000	2908.000	-15.410	788.400	3535.000
σ		11.410	47.050	2.808	14.470	19.100

19.4009/05/2018 14:30:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:30:14	1322.000	1831.000	-27.780	518.100	6136.000
2	14:30:17	1273.000	1748.000	-27.720	497.700	6025.000
3	14:30:21	1312.000	1746.000	-27.130	513.900	6009.000
x		1302.000	1775.000	-27.540	509.900	6056.000
σ		25.930	48.560	0.357	10.750	69.200

20.3309/05/2018 14:32:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:32:28	1280.000	2184.000	-36.680	338.700	1559.000
2	14:32:31	1279.000	2149.000	-37.590	317.500	1535.000

3	14:32:34	1256.000	2145.000	-36.300	331.500	1524.000
x		1271.000	2159.000	-36.850	329.200	1539.000
σ		13.580	21.760	0.662	10.810	17.620

20.3609/05/2018 14:34:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:34:42	854.800	2050.000	-34.690	256.400	2119.000
2	14:34:46	812.800	2056.000	-34.160	252.400	2132.000
3	14:34:50	796.400	2043.000	-33.240	254.000	2110.000
x		821.300	2050.000	-34.030	254.300	2121.000
σ		30.130	6.281	0.732	2.016	10.890

20.3709/05/2018 14:36:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:36:57	1175.000	5120.000	-30.890	221.300	2480.000
2	14:37:00	1178.000	4966.000	-31.900	216.300	2472.000
3	14:37:04	1166.000	4960.000	-32.170	217.400	2460.000
x		1173.000	5015.000	-31.650	218.300	2470.000
σ		6.658	90.790	0.679	2.642	10.360

20.3809/05/2018 14:39:07

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:39:10	1090.000	2455.000	-34.480	204.400	2361.000
2	14:39:14	1080.000	2466.000	-35.120	195.800	2353.000
3	14:39:17	1054.000	2491.000	-35.390	199.900	2349.000
x		1074.000	2471.000	-35.000	200.000	2354.000
σ		18.780	18.210	0.468	4.260	6.005

20.3909/05/2018 14:41:20

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:41:23	1261.000	3137.000	-35.120	185.100	2751.000
2	14:41:26	1233.000	3205.000	-36.350	181.900	2702.000
3	14:41:30	1213.000	3095.000	-37.000	183.700	2673.000
x		1236.000	3146.000	-36.160	183.600	2708.000

σ	24.320	55.830	0.954	1.569	39.520
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20.4009/05/2018 14:43:33

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:43:37	847.000	2153.000	-40.700	127.400	3575.000
2	14:43:40	891.000	2122.000	-39.620	132.400	3554.000
3	14:43:44	853.400	2114.000	-38.710	129.100	3549.000
X		863.800	2130.000	-39.680	129.600	3559.000
σ		23.780	20.650	0.993	2.517	13.780

21.2509/05/2018 14:45:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:45:50	1562.000	2095.000	-36.840	197.400	7847.000
2	14:45:53	1593.000	2023.000	-34.960	200.200	7790.000
3	14:45:57	1547.000	2027.000	-37.210	199.600	7811.000
X		1567.000	2049.000	-36.340	199.100	7816.000
σ		23.260	40.360	1.206	1.458	29.220

21.2609/05/2018 14:48:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:48:04	885.900	3729.000	-40.540	157.600	3281.000
2	14:48:07	902.700	3778.000	-40.160	160.900	3271.000
3	14:48:11	881.000	3653.000	-40.640	159.600	3249.000
X		889.800	3720.000	-40.450	159.300	3267.000
σ		11.410	63.060	0.253	1.687	16.240

21.2709/05/2018 14:50:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:50:19	1174.000	2366.000	-36.030	144.800	3693.000
2	14:50:23	1181.000	2249.000	-35.870	138.900	3649.000
3	14:50:26	1110.000	2261.000	-36.030	138.300	3633.000
X		1155.000	2292.000	-35.980	140.700	3659.000
σ		39.460	64.340	0.093	3.607	30.990

21.2809/05/2018 14:52:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:52:33	799.800	1284.000	-40.800	101.500	3585.000
2	14:52:36	814.700	1254.000	-42.680	99.410	3556.000
3	14:52:40	785.200	1295.000	-41.660	105.100	3561.000
X		799.900	1278.000	-41.710	102.000	3567.000
σ		14.780	21.120	0.939	2.869	15.550

21.2909/05/2018 14:54:44

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:54:48	862.400	1890.000	-42.040	88.790	1628.000
2	14:54:52	851.200	1914.000	-43.860	88.420	1624.000
3	14:54:55	843.600	1895.000	-41.820	84.130	1610.000
X		852.400	1900.000	-42.570	87.110	1621.000
σ		9.469	12.810	1.119	2.590	9.495

21.3109/05/2018 14:57:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:57:03	831.400	2186.000	-42.300	84.930	1502.000
2	14:57:07	811.100	2158.000	-42.470	80.860	1487.000
3	14:57:10	799.600	2136.000	-43.810	84.200	1476.000
X		814.000	2160.000	-42.860	83.330	1488.000
σ		16.090	24.900	0.824	2.173	13.280

21.3209/05/2018 14:59:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:59:20	1223.000	2830.000	-37.370	80.490	2798.000
2	14:59:23	1223.000	2796.000	-37.210	79.910	2776.000
3	14:59:27	1218.000	2805.000	-38.440	79.110	2726.000
X		1221.000	2810.000	-37.680	79.840	2767.000
σ		3.248	17.400	0.670	0.694	36.730

21.3409/05/2018 15:01:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	15:01:35	1848.000	3597.000	-31.900	76.200	3509.000
2	15:01:38	1799.000	3522.000	-32.060	82.020	3500.000
3	15:01:42	1781.000	3481.000	-32.760	80.560	3465.000
x		1810.000	3533.000	-32.240	79.590	3491.000
σ		34.700	59.240	0.456	3.029	22.850

21.3809/05/2018 15:03:46

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:03:50	996.100	2401.000	-38.230	64.560	2607.000
2	15:03:53	929.100	2352.000	-38.340	67.180	2603.000
3	15:03:57	985.600	2363.000	-38.820	62.960	2580.000
x		970.300	2372.000	-38.460	64.900	2597.000
σ		36.020	25.750	0.314	2.130	14.590

21.3909/05/2018 15:06:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:06:04	1500.000	2446.000	-41.290	54.380	2315.000
2	15:06:07	1492.000	2426.000	-42.300	53.940	2297.000
3	15:06:10	1424.000	2419.000	-41.550	53.360	2294.000
x		1472.000	2430.000	-41.710	53.890	2302.000
σ		42.020	13.950	0.528	0.511	11.270

21.4009/05/2018 15:08:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:08:17	621.500	1768.000	-40.800	51.760	1604.000
2	15:08:21	655.900	1780.000	-40.910	53.580	1587.000
3	15:08:24	658.600	1776.000	-40.270	55.030	1596.000
x		645.300	1775.000	-40.660	53.450	1596.000
σ		20.710	6.503	0.345	1.640	8.710

22.2509/05/2018 15:10:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:10:31	1749.000	3587.000	-38.020	67.830	9345.000

2	15:10:35	1691.000	3596.000	-38.280	72.780	9211.000
3	15:10:38	1666.000	3575.000	-37.050	69.290	9124.000
x		1702.000	3586.000	-37.780	69.970	9227.000
σ		42.370	10.300	0.649	2.542	111.200

22.2909/05/2018 15:12:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:12:45	804.200	2133.000	-39.300	44.630	8214.000
2	15:12:48	786.100	2123.000	-37.960	43.680	8206.000
3	15:12:52	787.100	2118.000	-39.200	47.030	8112.000
x		792.500	2125.000	-38.820	45.110	8177.000
σ		10.170	7.300	0.745	1.725	56.390

22.3109/05/2018 15:14:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:15:00	894.400	1945.000	-43.750	43.760	5532.000
2	15:15:03	875.800	1947.000	-43.320	45.070	5522.000
3	15:15:07	861.400	1897.000	-43.970	42.740	5471.000
x		877.200	1930.000	-43.680	43.850	5508.000
σ		16.540	28.430	0.328	1.167	32.800

22.3209/05/2018 15:17:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:17:13	399.000	1604.000	-47.830	36.120	898.800
2	15:17:17	380.400	1606.000	-46.650	35.680	889.300
3	15:17:20	379.700	1612.000	-47.610	40.190	876.600
x		386.300	1608.000	-47.360	37.330	888.200
σ		10.930	4.139	0.628	2.487	11.100

22.3309/05/2018 15:19:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:19:30	512.800	1933.000	-46.490	40.990	1416.000
2	15:19:34	505.700	1904.000	-47.240	37.570	1405.000
3	15:19:37	514.700	1940.000	-45.840	39.760	1397.000

X	511.100	1926.000	-46.520	39.440	1406.000
σ	4.755	18.770	0.698	1.731	9.616

22.3409/05/2018 15:21:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:21:45	1666.000	3119.000	-33.350	43.610	3220.000
2	15:21:48	1682.000	3178.000	-33.780	47.900	3211.000
3	15:21:52	1646.000	3086.000	-33.410	47.610	3200.000
X		1665.000	3128.000	-33.510	46.380	3210.000
σ		17.790	46.300	0.234	2.398	9.748

22.3509/05/2018 15:23:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:23:59	1534.000	3006.000	-35.600	29.940	1797.000
2	15:24:02	1456.000	2926.000	-37.960	30.370	1810.000
3	15:24:06	1498.000	2934.000	-36.890	32.260	1800.000
X		1496.000	2955.000	-36.820	30.860	1802.000
σ		39.190	44.010	1.181	1.237	6.819

22.3609/05/2018 15:26:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:26:13	1061.000	2658.000	-37.910	32.050	1520.000
2	15:26:17	1043.000	2665.000	-39.090	30.230	1523.000
3	15:26:21	1047.000	2645.000	-38.180	29.500	1510.000
X		1050.000	2656.000	-38.390	30.590	1518.000
σ		9.703	10.060	0.618	1.311	7.009

22.3809/05/2018 15:28:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:28:29	1986.000	4479.000	-24.880	39.610	3413.000
2	15:28:33	2013.000	4408.000	-27.130	38.300	3368.000
3	15:28:36	1980.000	4350.000	-24.290	41.570	3331.000
X		1993.000	4412.000	-25.430	39.830	3371.000
σ		17.730	64.320	1.500	1.647	41.190

22.4109/05/2018 15:30:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:30:43	1107.000	2026.000	-38.710	34.450	5405.000
2	15:30:46	1096.000	1993.000	-41.390	35.250	5300.000
3	15:30:50	1080.000	1939.000	-38.820	36.050	5212.000
X		1094.000	1986.000	-39.640	35.250	5306.000
σ		13.640	44.100	1.518	0.800	96.650

23.2609/05/2018 15:32:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:32:57	1053.000	2476.000	-41.120	40.700	4027.000
2	15:33:00	1043.000	2395.000	-40.110	35.680	3970.000
3	15:33:04	1017.000	2426.000	-41.180	37.430	3938.000
X		1038.000	2432.000	-40.800	37.940	3978.000
σ		18.820	40.680	0.604	2.548	45.050

23.2809/05/2018 15:35:07

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:35:10	1004.000	2204.000	-25.850	29.500	2216.000
2	15:35:14	995.900	2192.000	-25.200	30.370	2178.000
3	15:35:17	1003.000	2183.000	-27.190	25.650	2166.000
X		1001.000	2193.000	-26.080	28.510	2187.000
σ		4.448	10.690	1.012	2.516	25.770

23.3009/05/2018 15:37:22

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:37:25	1023.000	1942.000	-39.840	26.230	2779.000
2	15:37:29	993.400	1908.000	-38.930	30.810	2757.000
3	15:37:33	966.800	1898.000	-39.090	24.260	2731.000
X		994.500	1916.000	-39.280	27.100	2756.000
σ		28.250	23.360	0.486	3.359	24.220

23.3109/05/2018 15:39:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:39:39	1133.000	2407.000	-42.090	27.900	2524.000
2	15:39:42	1119.000	2475.000	-41.930	22.230	2499.000
3	15:39:46	1096.000	2426.000	-42.360	23.540	2480.000
X		1116.000	2436.000	-42.130	24.560	2501.000
σ		18.530	35.060	0.217	2.970	22.390

23.3309/05/2018 15:41:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:41:53	773.700	1969.000	-41.610	19.610	1759.000
2	15:41:56	746.100	1994.000	-42.090	18.370	1741.000
3	15:41:59	749.700	1942.000	-42.040	20.050	1739.000
X		756.500	1969.000	-41.910	19.340	1746.000
σ		15.000	25.860	0.264	0.868	10.650

23.3609/05/2018 15:44:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:44:08	1426.000	2102.000	-42.200	16.990	1030.000
2	15:44:11	1425.000	2114.000	-40.700	19.100	1028.000
3	15:44:15	1416.000	2113.000	-39.460	13.650	1014.000
X		1423.000	2110.000	-40.790	16.580	1024.000
σ		5.472	6.833	1.369	2.750	9.117

23.3709/05/2018 15:46:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:46:22	702.600	2087.000	-39.460	15.100	1760.000
2	15:46:25	652.500	2029.000	-36.780	16.190	1746.000
3	15:46:29	686.700	2009.000	-38.500	17.860	1760.000
X		680.600	2042.000	-38.250	16.390	1755.000
σ		25.600	40.210	1.358	1.392	7.947

23.4009/05/2018 15:48:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
-----	------	------	------	-------	-------	-------

		ppb	ppb	ppb	ppb	ppb
1	15:48:38	1224.000	2748.000	-37.210	13.870	3682.000
2	15:48:42	1179.000	2782.000	-35.980	14.520	3647.000
3	15:48:46	1211.000	2798.000	-37.640	13.940	3642.000
x		1205.000	2776.000	-36.940	14.110	3657.000
σ		22.790	25.560	0.863	0.359	21.720

23.4109/05/2018 15:50:51

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:50:54	1396.000	3155.000	-35.280	17.650	6968.000
2	15:50:58	1353.000	3079.000	-33.240	13.940	6937.000
3	15:51:02	1382.000	3130.000	-37.050	14.230	6840.000
x		1377.000	3121.000	-35.190	15.270	6915.000
σ		21.670	38.340	1.905	2.062	66.720

24.2309/05/2018 15:53:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:53:11	734.600	1879.000	-44.340	18.660	15000.000
2	15:53:15	745.100	1832.000	-44.400	19.100	14980.000
3	15:53:18	744.100	1873.000	-45.410	22.450	15070.000
x		741.300	1861.000	-44.720	20.070	15010.000
σ		5.805	25.660	0.604	2.069	48.340

24.2409/05/2018 15:55:25

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:55:29	1146.000	1829.000	-28.470	50.670	197700.000
2	15:55:32	1144.000	1804.000	-24.930	50.300	198600.000
3	15:55:36	1133.000	1775.000	-27.830	52.990	198800.000
x		1141.000	1803.000	-27.080	51.320	198400.000
σ		7.214	26.740	1.885	1.460	618.000

24.2509/05/2018 15:57:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:57:44	646.600	2066.000	-46.590	20.770	1995.000

2	15:57:47	629.800	2064.000	-45.200	20.260	1995.000
3	15:57:51	615.600	2060.000	-46.270	19.100	1990.000
x		630.700	2063.000	-46.020	20.050	1993.000
σ		15.530	2.941	0.730	0.857	2.712

24.2609/05/2018 15:59:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:59:56	975.600	2299.000	-41.120	9.865	2525.000
2	16:00:00	977.000	2271.000	-42.730	11.100	2524.000
3	16:00:04	967.700	2301.000	-41.020	12.050	2524.000
x		973.400	2291.000	-41.630	11.000	2524.000
σ		4.994	16.900	0.961	1.094	0.330

24.2709/05/2018 16:02:07

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:02:10	479.300	1382.000	-46.160	9.066	2384.000
2	16:02:13	497.400	1378.000	-45.570	10.230	2358.000
3	16:02:17	473.400	1363.000	-45.410	10.160	2341.000
x		483.400	1374.000	-45.720	9.817	2361.000
σ		12.480	9.872	0.395	0.652	21.500

24.2909/05/2018 16:04:22

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:04:25	846.000	2154.000	-44.720	12.480	1791.000
2	16:04:28	857.500	2211.000	-44.560	10.740	1797.000
3	16:04:32	827.400	2195.000	-45.310	14.670	1787.000
x		843.700	2187.000	-44.860	12.630	1792.000
σ		15.170	29.620	0.395	1.968	4.874

24.3009/05/2018 16:06:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:06:39	318.900	1126.000	-47.720	8.556	675.800
2	16:06:42	324.700	1119.000	-48.630	8.556	673.500
3	16:06:46	326.200	1185.000	-47.400	9.720	672.700

x	323.300	1143.000	-47.920	8.944	674.000
σ	3.876	36.150	0.640	0.672	1.599

24.3109/05/2018 16:08:51

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:08:54	837.200	2217.000	-45.250	11.680	1658.000
2	16:08:57	847.200	2221.000	-45.310	12.630	1645.000
3	16:09:01	817.200	2209.000	-44.500	13.210	1645.000
x		833.900	2216.000	-45.020	12.510	1650.000
σ		15.310	5.643	0.450	0.771	7.328

24.3209/05/2018 16:11:06

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:11:09	845.000	1849.000	-41.820	11.390	2492.000
2	16:11:12	873.600	1781.000	-43.860	9.720	2473.000
3	16:11:16	816.400	1809.000	-42.790	9.575	2479.000
x		845.000	1813.000	-42.820	10.230	2482.000
σ		28.590	34.320	1.019	1.010	9.962

24.3409/05/2018 16:13:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:13:24	1082.000	2503.000	-40.430	10.080	2083.000
2	16:13:28	1064.000	2454.000	-39.460	12.270	2069.000
3	16:13:31	1034.000	2467.000	-41.070	12.270	2051.000
x		1060.000	2475.000	-40.320	11.540	2068.000
σ		24.500	25.680	0.810	1.260	16.040

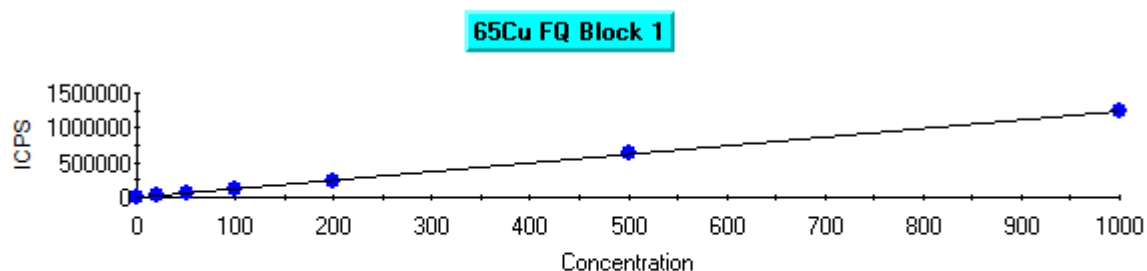
24.3509/05/2018 16:15:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:15:41	746.800	1950.000	-41.550	3.393	1701.000
2	16:15:44	719.700	1971.000	-42.790	3.830	1687.000
3	16:15:48	754.400	1992.000	-42.570	6.302	1674.000
x		740.300	1971.000	-42.300	4.508	1687.000
σ		18.240	21.030	0.659	1.569	13.040

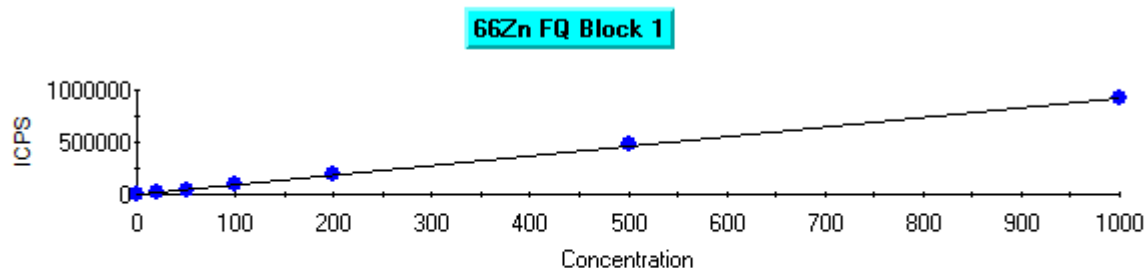
6.1.4 Batch 24.36 – 25.22 (digested on Multiwave GO) and 25.23 – 27.39 (digested on ETHOS EZ) with cooling

Fully Quant Calibration



Intercept CPS=617.354343 Intercept Conc=0.494809
Sensitivity=1247.662967 Correlation Coeff=0.999925

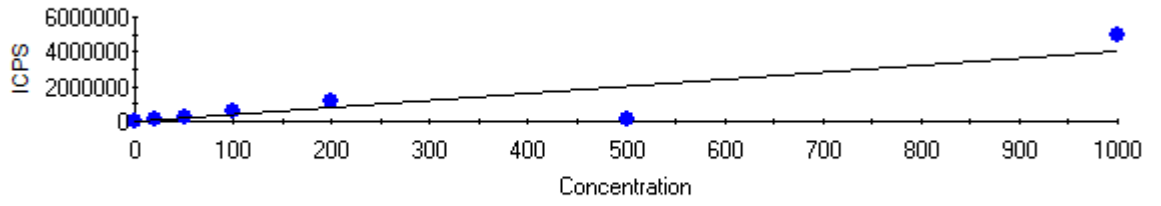
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	617.35	0.00
20ppb	20.000	21.281	1.281	27168.54	6.40
50ppb	50.000	48.182	1.818	60731.63	3.64
100ppb	100.000	96.828	3.172	121425.90	3.17
200ppb	200.000	192.302	7.698	240544.85	3.85
500ppb	500.000	507.204	7.204	633436.46	1.44
1ppm	1000.000	998.320	1.680	1246184.79	0.17



Intercept CPS=828.037871 Intercept Conc=0.890504
Sensitivity=929.853276 Correlation Coeff=0.999862

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	828.04	0.00
20ppb	20.000	24.122	4.122	23257.71	20.61
50ppb	50.000	49.453	0.547	46812.35	1.09
100ppb	100.000	99.265	0.735	93129.62	0.74
200ppb	200.000	195.834	4.166	182924.80	2.08
500ppb	500.000	512.759	12.759	477618.69	2.55
1ppm	1000.000	994.472	5.528	925541.23	0.55

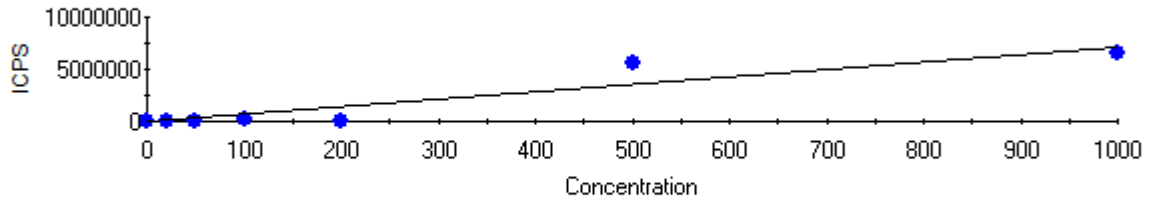
107Ag FQ Block 1



Intercept CPS=49.333471 Intercept Conc=0.012069
Sensitivity=4087.665224 Correlation Coeff=0.867974

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	49.33	0.00
20ppb	20.000	25.094	5.094	102625.34	25.47
50ppb	50.000	65.854	15.854	269237.14	31.71
100ppb	100.000	134.915	34.915	551536.39	34.91
200ppb	200.000	277.203	77.203	1133163.28	38.60
500ppb	500.000	17.172	482.828	70243.47	96.57
1ppm	1000.000	1221.587	221.587	4993488.88	22.16

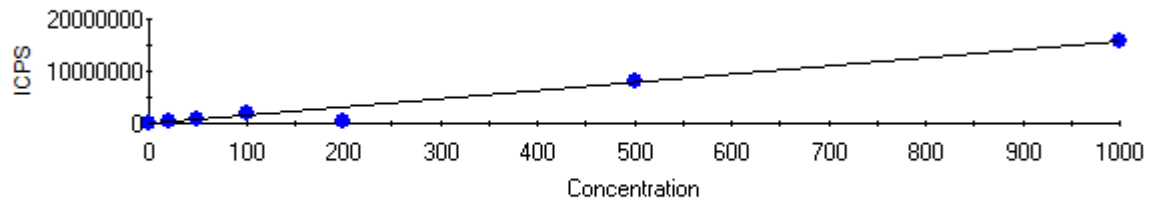
202Hg FQ Block 1



Intercept CPS=270.670716 Intercept Conc=0.037905
Sensitivity=7140.839621 Correlation Coeff=0.929543

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	270.67	0.00
20ppb	20.000	0.533	19.467	4074.25	97.34
50ppb	50.000	2.226	47.774	16166.37	95.55
100ppb	100.000	26.920	73.080	192498.56	73.08
200ppb	200.000	-0.038	200.038	0.00	100.02
500ppb	500.000	793.529	293.529	5666730.49	58.71
1ppm	1000.000	903.329	96.671	6450801.19	9.67

208Pb FQ Block 1



Intercept CPS=294.671460 Intercept Conc=0.018856
Sensitivity=15627.399181 Correlation Coeff=0.983736

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	294.67	0.00
20ppb	20.000	26.797	6.797	419063.91	33.99
50ppb	50.000	59.212	9.212	925628.61	18.42
100ppb	100.000	120.789	20.789	1887914.77	20.79
200ppb	200.000	29.824	170.176	466362.96	85.09
500ppb	500.000	520.570	20.570	8135449.28	4.11
1ppm	1000.000	1021.075	21.075	15957038.01	2.11

Dilution Corrected Concentrations

blank30/05/2018 13:16:25

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:16:25	-0.004	-0.030	0.003	-0.004	0.002
2	13:16:29	-0.027	0.082	-0.002	0.002	-0.001
3	13:16:33	0.031	-0.052	-0.000	0.002	-0.001
x		0.000	0.000	-0.000	-0.000	-0.000
σ		0.029	0.072	0.002	0.003	0.001

20ppb30/05/2018 13:18:19

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:18:19	21.110	23.990	25.050	0.531	26.710
2	13:18:22	21.370	24.170	25.200	0.541	26.850
3	13:18:26	21.360	24.200	25.040	0.526	26.830
x		21.280	24.120	25.090	0.533	26.800
σ		0.150	0.117	0.090	0.007	0.075

50ppb30/05/2018 13:20:13

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:20:13	46.620	47.650	63.560	2.324	57.340
2	13:20:16	48.460	49.070	65.830	2.183	58.990
3	13:20:20	49.460	51.650	68.160	2.171	61.310
X		48.180	49.450	65.850	2.226	59.210
σ		1.436	2.027	2.301	0.085	1.996

100ppb30/05/2018 13:22:09

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:22:09	96.330	99.790	135.400	26.940	121.000
2	13:22:12	94.610	95.620	131.300	27.440	117.200
3	13:22:15	99.540	102.400	138.000	26.380	124.200
X		96.830	99.260	134.900	26.920	120.800
σ		2.503	3.409	3.374	0.534	3.527

200ppb30/05/2018 13:24:04

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:24:04	192.100	197.200	280.100	-0.038	20.140
2	13:24:07	192.400	196.200	276.200	-0.038	37.180
3	13:24:11	192.500	194.100	275.300	-0.038	32.150
X		192.300	195.800	277.200	-0.038	29.820
σ		0.198	1.606	2.551	0.000	8.760

500ppb30/05/2018 13:25:59

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:25:59	512.200	521.000	-0.012	796.700	524.000
2	13:26:03	496.500	502.500	51.540	798.100	509.300
3	13:26:06	513.000	514.700	-0.012	785.700	528.400
X		507.200	512.800	17.170	793.500	520.600
σ		9.296	9.398	29.760	6.802	9.984

1ppm30/05/2018 13:27:54

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	13:27:54	1003.000	1008.000	1220.000	903.800	1025.000
2	13:27:57	977.600	973.900	1198.000	902.800	996.700
3	13:28:01	1014.000	1002.000	1247.000	903.400	1041.000
x		998.300	994.500	1222.000	903.300	1021.000
σ		18.780	18.090	24.660	0.471	22.600

24.3630/05/2018 13:30:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:30:07	463.700	4443.000	35.100	913.100	806.800
2	13:30:11	442.200	4463.000	35.790	887.400	804.600
3	13:30:15	418.100	4316.000	33.050	871.500	792.200
x		441.300	4407.000	34.640	890.700	801.200
σ		22.790	79.960	1.426	20.950	7.902

24.3730/05/2018 13:32:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:32:22	1035.000	2576.000	22.380	392.200	1978.000
2	13:32:25	1086.000	2573.000	18.270	384.300	1985.000
3	13:32:29	1102.000	2634.000	18.560	387.600	2037.000
x		1074.000	2594.000	19.740	388.000	2000.000
σ		35.040	34.660	2.293	4.005	32.160

24.3830/05/2018 13:34:33

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:34:36	1583.000	3577.000	22.280	262.900	3671.000
2	13:34:40	1596.000	3625.000	21.500	260.900	3656.000
3	13:34:43	1610.000	3599.000	24.040	267.400	3680.000
x		1596.000	3600.000	22.610	263.700	3669.000
σ		13.500	24.000	1.303	3.333	12.320

24.4030/05/2018 13:36:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:36:50	1694.000	2593.000	18.370	171.300	2589.000

2	13:36:53	1723.000	2685.000	22.380	172.000	2621.000
3	13:36:57	1620.000	2636.000	19.830	176.200	2582.000
x		1679.000	2638.000	20.190	173.200	2597.000
σ		53.170	45.960	2.030	2.645	21.020

24.4130/05/2018 13:39:01

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:39:04	637.900	1784.000	8.383	141.500	778.900
2	13:39:08	656.200	1677.000	7.502	140.800	766.900
3	13:39:11	627.900	1706.000	7.209	138.600	769.100
x		640.700	1722.000	7.698	140.300	771.700
σ		14.320	55.360	0.611	1.549	6.378

25.2230/05/2018 13:41:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:41:18	975.900	1830.000	10.440	114.900	8886.000
2	13:41:21	1008.000	1938.000	11.320	115.600	8973.000
3	13:41:25	1012.000	1866.000	11.610	113.100	9037.000
x		998.600	1878.000	11.120	114.500	8965.000
σ		19.710	54.840	0.611	1.267	75.750

25.2330/05/2018 13:43:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:43:30	866.100	2413.000	9.557	87.440	3353.000
2	13:43:34	870.300	2360.000	9.851	89.400	3286.000
3	13:43:37	845.900	2320.000	9.264	89.230	3242.000
x		860.700	2364.000	9.557	88.690	3294.000
σ		13.050	46.280	0.294	1.087	55.690

25.2430/05/2018 13:45:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:45:43	1298.000	3294.000	11.610	79.590	6057.000
2	13:45:46	1253.000	3083.000	9.949	82.170	5805.000
3	13:45:50	1221.000	3276.000	10.440	77.290	5960.000

X	1258.000	3217.000	10.670	79.680	5941.000
σ	38.720	117.000	0.855	2.440	127.000

25.2530/05/2018 13:47:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:47:55	1003.000	2137.000	11.030	65.970	5363.000
2	13:47:59	1045.000	2136.000	8.677	66.190	5466.000
3	13:48:02	1015.000	2201.000	11.710	69.390	5474.000
X		1021.000	2158.000	10.470	67.180	5434.000
σ		21.370	37.100	1.591	1.912	61.680

25.2630/05/2018 13:50:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:50:09	1001.000	1759.000	9.851	57.340	5167.000
2	13:50:12	1026.000	1800.000	9.362	58.510	5285.000
3	13:50:16	968.500	1715.000	8.579	60.080	5147.000
X		998.200	1758.000	9.264	58.650	5200.000
σ		28.650	42.250	0.642	1.378	74.500

25.2730/05/2018 13:52:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:52:21	682.800	2026.000	6.132	50.890	2461.000
2	13:52:25	669.700	2000.000	4.665	54.370	2420.000
3	13:52:28	664.800	1978.000	4.860	51.900	2388.000
X		672.400	2001.000	5.219	52.390	2423.000
σ		9.303	23.950	0.797	1.787	36.960

25.2830/05/2018 13:54:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:54:35	927.400	2140.000	12.300	50.890	2384.000
2	13:54:38	948.300	2009.000	10.730	48.090	2315.000
3	13:54:42	904.900	1999.000	9.068	48.260	2330.000
X		926.900	2049.000	10.700	49.080	2343.000
σ		21.670	78.720	1.615	1.571	36.240

25.2930/05/2018 13:56:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:56:50	903.300	2084.000	10.830	46.470	1873.000
2	13:56:53	914.200	2062.000	6.720	44.220	1875.000
3	13:56:57	922.300	2045.000	7.992	45.290	1849.000
X		913.300	2064.000	8.514	45.330	1866.000
σ		9.507	19.660	2.104	1.121	14.340

25.3030/05/2018 13:59:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:59:04	653.000	1672.000	5.937	34.360	791.700
2	13:59:07	659.400	1755.000	4.860	35.310	802.900
3	13:59:11	650.400	1721.000	7.405	36.270	793.200
X		654.300	1716.000	6.067	35.310	795.900
σ		4.628	41.610	1.277	0.953	6.105

25.3230/05/2018 14:01:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:01:18	1055.000	2009.000	10.240	31.730	2149.000
2	14:01:21	1080.000	2206.000	14.060	34.190	2238.000
3	14:01:25	1071.000	2087.000	14.060	32.340	2162.000
X		1069.000	2101.000	12.790	32.760	2183.000
σ		12.830	99.480	2.204	1.283	47.990

25.3330/05/2018 14:03:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:03:33	1107.000	2412.000	16.700	30.500	2726.000
2	14:03:36	1093.000	2362.000	16.210	29.660	2719.000
3	14:03:39	1081.000	2476.000	14.350	30.100	2801.000
X		1094.000	2417.000	15.760	30.080	2749.000
σ		13.190	57.500	1.239	0.421	45.240

25.3430/05/2018 14:05:46

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:05:49	588.500	2166.000	6.720	25.960	860.700
2	14:05:53	566.300	2166.000	4.958	27.470	855.500
3	14:05:56	568.600	2096.000	7.502	27.190	850.600
x		574.500	2143.000	6.393	26.870	855.600
σ		12.190	40.200	1.303	0.805	5.014

25.3530/05/2018 14:07:59

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:08:03	1239.000	2363.000	13.470	24.840	2692.000
2	14:08:06	1153.000	2349.000	13.670	24.840	2673.000
3	14:08:10	1205.000	2363.000	16.600	26.520	2699.000
x		1199.000	2358.000	14.580	25.400	2688.000
σ		43.490	8.344	1.754	0.970	13.300

25.3630/05/2018 14:10:12

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:10:15	708.500	1387.000	6.817	25.620	1911.000
2	14:10:19	713.300	1384.000	7.111	24.500	1953.000
3	14:10:22	743.500	1400.000	6.035	24.440	1945.000
x		721.800	1390.000	6.654	24.860	1936.000
σ		18.960	8.468	0.556	0.664	22.610

25.3730/05/2018 14:12:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:12:28	920.700	1092.000	5.154	24.220	2132.000
2	14:12:31	919.400	1096.000	5.154	25.620	2092.000
3	14:12:34	897.900	1076.000	4.958	23.490	2095.000
x		912.600	1088.000	5.089	24.440	2106.000
σ		12.800	10.260	0.113	1.082	21.990

25.3930/05/2018 14:14:37

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	14:14:40	2189.000	2780.000	15.620	22.710	2745.000
2	14:14:43	2215.000	2745.000	16.110	22.760	2817.000
3	14:14:47	2248.000	2742.000	14.650	24.560	2749.000
X		2217.000	2756.000	15.460	23.340	2771.000
σ		29.500	21.100	0.747	1.052	40.590

25.4030/05/2018 14:16:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:16:54	2125.000	4172.000	24.820	20.470	4499.000
2	14:16:57	2114.000	4168.000	24.330	18.510	4474.000
3	14:17:01	1966.000	3931.000	22.570	20.020	4257.000
X		2068.000	4091.000	23.910	19.660	4410.000
σ		88.980	137.800	1.184	1.027	133.500

26.2230/05/2018 14:19:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:19:08	1207.000	2253.000	12.790	18.950	3464.000
2	14:19:11	1236.000	2272.000	13.370	20.070	3499.000
3	14:19:15	1196.000	2204.000	13.280	21.640	3408.000
X		1213.000	2243.000	13.150	20.220	3457.000
σ		20.840	35.160	0.315	1.351	45.730

26.2330/05/2018 14:21:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:21:23	1333.000	1956.000	11.610	18.280	2974.000
2	14:21:26	1314.000	1976.000	9.949	17.220	2931.000
3	14:21:29	1348.000	1986.000	10.630	17.780	2985.000
X		1332.000	1973.000	10.730	17.760	2963.000
σ		16.880	15.430	0.836	0.532	28.790

26.2430/05/2018 14:23:33

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:23:36	1031.000	2308.000	10.140	16.770	6764.000
2	14:23:40	980.400	2260.000	10.340	15.260	6641.000

3	14:23:43	1035.000	2407.000	9.068	17.890	6827.000
X		1015.000	2325.000	9.851	16.640	6744.000
σ		30.440	75.380	0.685	1.321	94.790

26.2630/05/2018 14:25:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:25:50	927.700	1882.000	7.502	20.190	3763.000
2	14:25:53	906.900	1850.000	7.307	20.190	3628.000
3	14:25:57	875.100	1772.000	6.817	19.350	3556.000
X		903.200	1835.000	7.209	19.910	3649.000
σ		26.510	56.310	0.353	0.485	104.800

26.2730/05/2018 14:28:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:28:04	1433.000	1872.000	12.000	21.920	2625.000
2	14:28:07	1386.000	1913.000	9.753	22.600	2669.000
3	14:28:11	1363.000	1850.000	9.264	21.030	2603.000
X		1394.000	1879.000	10.340	21.850	2632.000
σ		35.540	31.940	1.461	0.787	33.210

26.2830/05/2018 14:30:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:30:19	796.400	1633.000	16.310	13.860	2887.000
2	14:30:23	819.200	1704.000	18.270	16.490	2853.000
3	14:30:26	790.700	1641.000	14.840	15.820	2808.000
X		802.100	1659.000	16.470	15.390	2849.000
σ		15.100	39.150	1.718	1.368	40.040

26.3030/05/2018 14:32:32

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:32:35	785.500	1316.000	8.383	10.160	2595.000
2	14:32:39	807.300	1301.000	7.796	12.060	2572.000
3	14:32:42	835.900	1309.000	7.502	12.340	2598.000
X		809.600	1309.000	7.894	11.520	2588.000

σ	25.270	7.548	0.448	1.189	14.590
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26.3230/05/2018 14:34:46

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:34:49	1260.000	2115.000	11.510	13.740	2240.000
2	14:34:53	1383.000	2263.000	12.590	12.510	2381.000
3	14:34:56	1336.000	2105.000	14.060	11.610	2319.000
X		1326.000	2161.000	12.720	12.620	2313.000
σ		62.090	88.500	1.277	1.069	70.520

26.3330/05/2018 14:36:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:37:01	660.700	2028.000	8.090	12.620	1725.000
2	14:37:05	633.100	2016.000	7.013	14.810	1728.000
3	14:37:09	616.700	2023.000	6.915	14.190	1753.000
X		636.800	2022.000	7.339	13.870	1735.000
σ		22.220	5.654	0.652	1.127	15.510

26.3430/05/2018 14:39:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:39:14	936.700	2006.000	12.490	10.160	2005.000
2	14:39:17	868.300	1887.000	7.894	10.550	1866.000
3	14:39:21	881.200	1909.000	9.557	10.050	1917.000
X		895.400	1934.000	9.982	10.250	1929.000
σ		36.340	63.380	2.329	0.265	70.070

26.3530/05/2018 14:41:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:41:27	1004.000	1847.000	75.230	10.330	5324.000
2	14:41:31	972.300	1837.000	83.360	10.490	5450.000
3	14:41:34	1023.000	1872.000	76.700	10.720	5396.000
X		999.700	1852.000	78.430	10.510	5390.000
σ		25.490	18.230	4.330	0.197	63.470

26.3630/05/2018 14:43:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:43:39	836.600	1809.000	7.698	8.982	4793.000
2	14:43:42	798.700	1772.000	8.970	8.702	4749.000
3	14:43:46	845.200	1765.000	7.894	9.430	4740.000
X		826.800	1782.000	8.187	9.038	4761.000
σ		24.750	23.710	0.685	0.367	28.190

26.3930/05/2018 14:45:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:45:54	1637.000	2916.000	23.160	10.050	2886.000
2	14:45:57	1612.000	2794.000	18.850	12.290	2834.000
3	14:46:01	1573.000	2828.000	18.460	10.610	2839.000
X		1607.000	2846.000	20.160	10.980	2853.000
σ		32.350	63.130	2.606	1.166	28.680

26.4030/05/2018 14:48:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:48:08	1279.000	2486.000	16.900	9.430	2919.000
2	14:48:11	1221.000	2398.000	16.020	8.534	2823.000
3	14:48:15	1237.000	2334.000	15.920	8.814	2790.000
X		1246.000	2406.000	16.280	8.926	2844.000
σ		29.840	76.680	0.539	0.459	66.820

27.2230/05/2018 14:50:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:50:23	1062.000	2263.000	9.949	14.140	3844.000
2	14:50:26	1085.000	2291.000	9.362	11.390	3871.000
3	14:50:30	1039.000	2278.000	11.220	12.740	3873.000
X		1062.000	2277.000	10.180	12.750	3863.000
σ		23.280	14.040	0.951	1.373	16.240

27.2330/05/2018 14:52:33

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:52:37	1118.000	1990.000	9.460	13.580	2286.000
2	14:52:40	1099.000	1987.000	8.775	15.650	2283.000
3	14:52:43	1105.000	2016.000	8.775	14.810	2331.000
X		1108.000	1998.000	9.003	14.680	2300.000
σ		9.574	15.980	0.396	1.043	27.000

27.2430/05/2018 14:54:48

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:54:52	923.500	2208.000	6.622	7.693	2929.000
2	14:54:55	918.700	2169.000	7.502	8.085	2878.000
3	14:54:59	892.400	2084.000	6.035	8.926	2840.000
X		911.600	2154.000	6.720	8.235	2882.000
σ		16.760	63.290	0.739	0.630	44.420

27.2530/05/2018 14:57:03

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:57:07	1113.000	1812.000	9.362	14.140	9826.000
2	14:57:10	1097.000	1800.000	8.383	12.900	9735.000
3	14:57:13	1070.000	1774.000	11.220	14.140	9509.000
X		1093.000	1795.000	9.655	13.730	9690.000
σ		21.890	19.750	1.442	0.712	163.400

27.2630/05/2018 14:59:20

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:59:23	1627.000	1712.000	7.209	10.550	4558.000
2	14:59:27	1656.000	1787.000	8.285	13.020	4457.000
3	14:59:30	1656.000	1762.000	9.655	11.560	4561.000
X		1646.000	1754.000	8.383	11.710	4526.000
σ		16.880	38.370	1.226	1.239	59.220

27.2730/05/2018 15:01:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	15:01:37	731.300	1835.000	5.643	7.357	1610.000
2	15:01:41	744.400	1792.000	5.252	8.758	1612.000
3	15:01:44	772.700	1857.000	7.111	8.141	1639.000
x		749.500	1828.000	6.002	8.085	1621.000
σ		21.150	33.060	0.980	0.702	16.270

27.2830/05/2018 15:03:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:03:51	678.000	1649.000	4.860	4.892	1721.000
2	15:03:54	678.600	1556.000	6.915	5.845	1702.000
3	15:03:58	640.500	1575.000	6.230	6.461	1713.000
x		665.700	1594.000	6.002	5.733	1712.000
σ		21.870	49.020	1.046	0.790	9.769

27.2930/05/2018 15:06:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:06:03	631.500	1123.000	4.860	5.509	935.100
2	15:06:07	617.400	1167.000	4.567	5.172	925.100
3	15:06:10	634.000	1199.000	3.686	5.228	924.100
x		627.600	1163.000	4.371	5.303	928.100
σ		8.985	38.270	0.611	0.180	6.063

27.3030/05/2018 15:08:15

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:08:18	1101.000	2169.000	6.524	5.060	1711.000
2	15:08:22	1078.000	2159.000	6.524	5.396	1677.000
3	15:08:25	1133.000	2220.000	7.600	6.573	1739.000
x		1104.000	2183.000	6.883	5.677	1709.000
σ		27.740	32.860	0.622	0.794	31.230

27.3330/05/2018 15:10:28

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:10:32	736.100	1148.000	5.447	3.940	1363.000

2	15:10:35	743.500	1127.000	6.132	5.284	1346.000
3	15:10:39	778.100	1200.000	6.230	3.828	1374.000
x		752.600	1159.000	5.937	4.351	1361.000
σ		22.450	37.510	0.427	0.811	14.040

27.3430/05/2018 15:12:44

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:12:47	1025.000	2047.000	8.579	6.349	1698.000
2	15:12:50	1002.000	1956.000	8.383	5.452	1680.000
3	15:12:54	1022.000	1938.000	8.970	6.013	1684.000
x		1016.000	1980.000	8.644	5.938	1687.000
σ		12.520	58.050	0.299	0.453	9.186

27.3730/05/2018 15:14:57

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:15:00	861.600	1059.000	3.392	6.013	1172.000
2	15:15:04	878.900	1050.000	3.001	6.797	1147.000
3	15:15:07	855.800	1045.000	2.316	5.621	1132.000
x		865.400	1051.000	2.903	6.143	1150.000
σ		12.030	7.389	0.545	0.599	20.100

27.3830/05/2018 15:17:12

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:17:16	1040.000	2006.000	6.817	4.332	1357.000
2	15:17:19	1056.000	1931.000	10.050	6.293	1362.000
3	15:17:22	1107.000	1950.000	9.851	4.108	1366.000
x		1067.000	1962.000	8.905	4.911	1361.000
σ		34.920	39.110	1.811	1.202	4.779

24.3530/05/2018 15:19:26

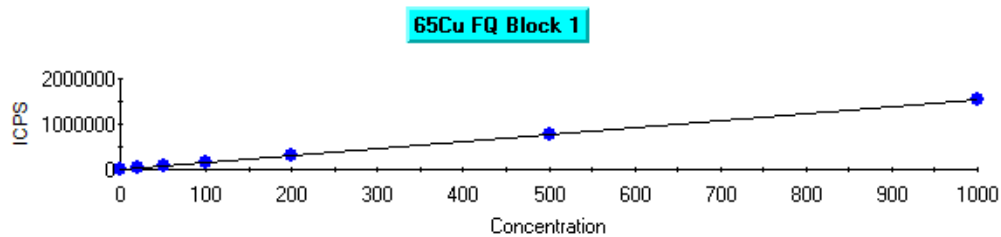
User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:19:29	1399.000	2580.000	15.530	6.797	4145.000
2	15:19:33	1431.000	2589.000	15.230	7.469	4127.000
3	15:19:37	1397.000	2570.000	15.040	6.349	4095.000

x	1409.000	2580.000	15.270	6.872	4122.000
σ	18.780	9.062	0.246	0.564	25.430

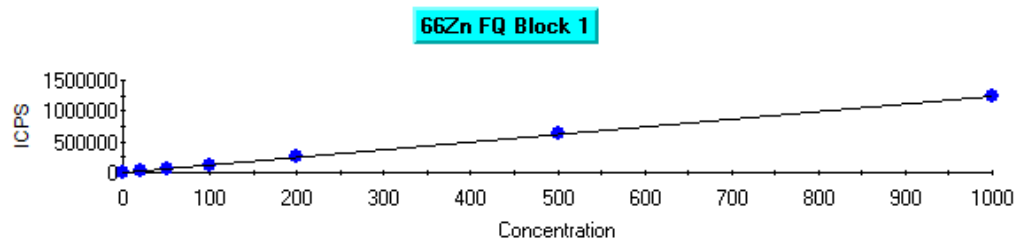
6.1.5 Batch 28.22 – 29.39 (digested on ETHOS EZ) with cooling

Fully Quant Calibration



Intercept CPS=545.349783 Intercept Conc=0.357299
Sensitivity=1526.309995 Correlation Coeff=0.999969

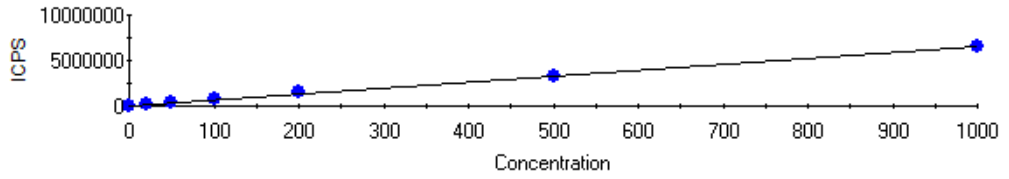
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	545.35	0.00
20ppb	20.000	20.961	0.961	32538.13	4.80
50ppb	50.000	49.134	0.866	75539.21	1.73
100ppb	100.000	98.585	1.415	151017.35	1.41
200ppb	200.000	194.340	5.660	297168.33	2.83
500ppb	500.000	504.156	4.156	770043.91	0.83
1ppm	1000.000	999.219	0.781	1525664.02	0.08



Intercept CPS=2062.900753 Intercept Conc=1.673228
Sensitivity=1232.886681 Correlation Coeff=0.999954

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	2062.90	0.00
20ppb	20.000	22.822	2.822	30199.42	14.11
50ppb	50.000	50.175	0.175	63922.62	0.35
100ppb	100.000	101.922	1.922	127721.63	1.92
200ppb	200.000	199.069	0.931	247493.04	0.47
500ppb	500.000	507.716	7.716	628018.97	1.54
1ppm	1000.000	996.071	3.929	1230105.31	0.39

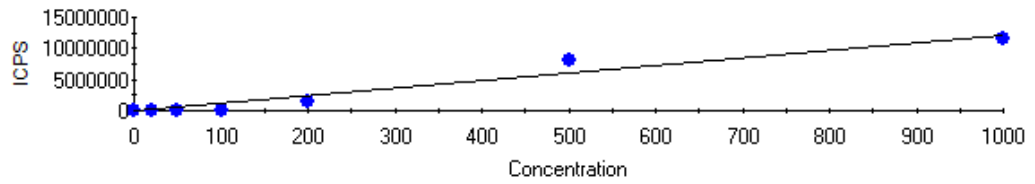
107Ag FQ Block 1



Intercept CPS=89.333782 Intercept Conc=0.013596
Sensitivity=6570.685711 Correlation Coeff=0.999599

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	89.33	0.00
20ppb	20.000	19.278	0.722	126756.25	3.61
50ppb	50.000	51.798	1.798	340435.90	3.60
100ppb	100.000	107.072	7.072	703625.27	7.07
200ppb	200.000	225.180	25.180	1479679.50	12.59
500ppb	500.000	508.666	8.666	3342376.24	1.73
1ppm	1000.000	989.848	10.152	6504070.00	1.02

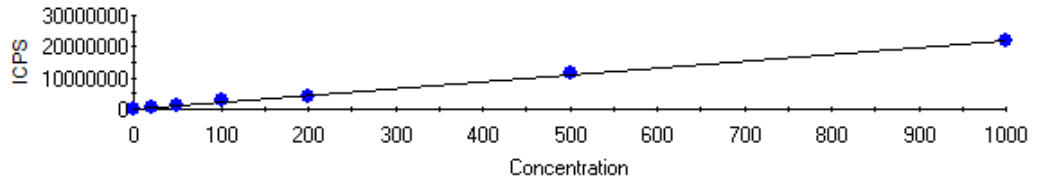
202Hg FQ Block 1



Intercept CPS=118.667451 Intercept Conc=0.009789
Sensitivity=12121.927842 Correlation Coeff=0.973058

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	118.67	0.00
20ppb	20.000	0.069	19.931	958.72	99.65
50ppb	50.000	0.277	49.723	3471.33	99.45
100ppb	100.000	1.243	98.757	15188.68	98.76
200ppb	200.000	120.563	79.437	1461575.16	39.72
500ppb	500.000	675.301	175.301	8186063.46	35.06
1ppm	1000.000	940.998	59.002	11406823.32	5.90

208Pb FQ Block 1



Intercept CPS=716.028828 Intercept Conc=0.032275
Sensitivity=22185.176550 Correlation Coeff=0.999717

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	716.03	0.00
20ppb	20.000	25.797	5.797	573020.22	28.98
50ppb	50.000	58.496	8.496	1298465.81	16.99
100ppb	100.000	121.724	21.724	2701179.61	21.72
200ppb	200.000	194.332	5.668	4312001.01	2.83
500ppb	500.000	507.128	7.128	11251439.10	1.43
1ppm	1000.000	994.857	5.143	22071784.09	0.51

Dilution Corrected Concentrations

blank02/07/2018 10:20:40

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:20:40	-0.035	-0.022	-0.002	0.001	0.005
2	10:20:43	0.004	-0.015	-0.001	-0.002	-0.006
3	10:20:46	0.031	0.037	0.003	0.000	0.001
x		-0.000	-0.000	0.000	-0.000	-0.000
σ		0.033	0.032	0.003	0.001	0.006

20ppb02/07/2018 10:22:34

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:22:34	20.820	23.160	19.340	0.076	26.010
2	10:22:38	21.050	22.240	19.240	0.059	25.740
3	10:22:41	21.010	23.060	19.250	0.073	25.630
x		20.960	22.820	19.280	0.069	25.800
σ		0.122	0.502	0.058	0.009	0.195

50ppb02/07/2018 10:24:29

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:24:29	49.250	50.380	52.000	0.266	58.550
2	10:24:32	49.240	50.180	51.550	0.273	58.520
3	10:24:36	48.910	49.970	51.840	0.291	58.420
x		49.130	50.170	51.800	0.277	58.500
σ		0.192	0.203	0.231	0.013	0.072

100ppb02/07/2018 10:26:24

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:26:24	98.350	102.000	106.400	1.266	121.200
2	10:26:28	98.880	101.400	107.700	1.220	122.200
3	10:26:31	98.530	102.400	107.200	1.244	121.700
x		98.590	101.900	107.100	1.243	121.700
σ		0.270	0.540	0.645	0.023	0.477

200ppb02/07/2018 10:28:20

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:28:20	193.800	198.100	224.700	132.100	193.700
2	10:28:23	195.600	199.500	224.700	114.600	194.000
3	10:28:27	193.600	199.600	226.100	115.000	195.300
x		194.300	199.100	225.200	120.600	194.300
σ		1.129	0.867	0.830	9.988	0.874

500ppb02/07/2018 10:30:15

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:30:15	499.900	506.100	506.300	671.500	503.400
2	10:30:19	507.600	507.600	510.100	677.000	510.100
3	10:30:22	505.000	509.400	509.600	677.400	507.900
x		504.200	507.700	508.700	675.300	507.100
σ		3.898	1.647	2.034	3.275	3.380

1ppm02/07/2018 10:32:10

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	10:32:10	1005.000	1004.000	990.600	934.400	1001.000
2	10:32:14	993.600	992.000	987.000	942.700	994.900
3	10:32:17	999.500	992.500	991.900	945.900	989.000
x		999.200	996.100	989.800	941.000	994.900
σ		5.489	6.597	2.522	5.937	5.863

28.2202/07/2018 10:34:20

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:34:24	860.400	2265.000	22.930	686.800	2018.000
2	10:34:28	860.400	2265.000	22.570	673.100	2004.000
3	10:34:31	832.900	2250.000	22.200	666.300	2007.000
x		851.300	2260.000	22.570	675.400	2009.000
σ		15.910	8.269	0.365	10.430	7.170

28.2302/07/2018 10:36:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:36:38	1011.000	1988.000	16.600	291.600	2880.000
2	10:36:41	1025.000	2003.000	15.690	285.400	2856.000
3	10:36:45	1061.000	1943.000	14.770	283.900	2850.000
x		1032.000	1978.000	15.690	287.000	2862.000
σ		25.780	31.110	0.913	4.044	16.030

28.2502/07/2018 10:38:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:38:52	1012.000	2245.000	14.960	166.000	2464.000
2	10:38:56	1003.000	2285.000	13.250	165.900	2453.000
3	10:38:59	1024.000	2228.000	15.440	168.700	2418.000
x		1013.000	2253.000	14.550	166.900	2445.000
σ		10.420	29.210	1.151	1.597	24.290

28.2702/07/2018 10:41:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:41:08	1214.000	2498.000	13.310	117.000	2810.000
2	10:41:12	1239.000	2474.000	12.340	123.900	2810.000

3	10:41:15	1193.000	2495.000	13.740	122.600	2789.000
x		1215.000	2489.000	13.130	121.200	2803.000
σ		23.010	13.220	0.718	3.673	11.970

28.2902/07/2018 10:43:20

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:43:23	1166.000	2624.000	11.180	94.550	2572.000
2	10:43:26	1151.000	2626.000	9.172	91.800	2573.000
3	10:43:30	1118.000	2607.000	10.940	91.210	2545.000
x		1145.000	2619.000	10.430	92.520	2563.000
σ		24.560	10.470	1.096	1.780	15.960

28.3002/07/2018 10:45:33

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:45:37	853.600	2024.000	5.581	70.260	1007.000
2	10:45:40	852.000	1956.000	6.555	71.550	989.100
3	10:45:44	835.000	1951.000	5.763	68.980	981.500
x		846.900	1977.000	5.966	70.260	992.500
σ		10.330	40.750	0.518	1.288	13.130

28.3102/07/2018 10:47:46

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:47:49	991.700	1932.000	5.276	54.780	1532.000
2	10:47:53	1007.000	1899.000	5.459	56.100	1518.000
3	10:47:56	1006.000	1962.000	5.033	56.230	1512.000
x		1002.000	1931.000	5.256	55.700	1521.000
σ		8.573	31.740	0.214	0.803	10.560

28.3302/07/2018 10:49:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:50:02	902.400	1691.000	8.198	50.850	2269.000
2	10:50:05	900.100	1708.000	7.772	50.910	2250.000
3	10:50:09	896.400	1734.000	9.112	53.720	2249.000
x		899.600	1711.000	8.361	51.830	2256.000

σ 3.042 21.780 0.684 1.640 11.240

28.3402/07/2018 10:52:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:52:14	1357.000	2194.000	10.020	42.860	3165.000
2	10:52:17	1310.000	2234.000	12.400	44.140	3171.000
3	10:52:21	1344.000	2245.000	10.510	46.160	3156.000
X		1337.000	2224.000	10.980	44.390	3164.000
σ		24.330	27.070	1.254	1.664	7.673

28.3502/07/2018 10:54:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:54:26	753.600	1683.000	7.894	38.530	1533.000
2	10:54:29	753.900	1638.000	9.538	36.950	1521.000
3	10:54:33	768.600	1645.000	7.529	37.010	1527.000
X		758.700	1655.000	8.320	37.500	1527.000
σ		8.561	23.930	1.070	0.897	5.803

28.3602/07/2018 10:56:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:56:39	1137.000	1923.000	8.381	33.610	5608.000
2	10:56:42	1152.000	1953.000	8.442	31.960	5518.000
3	10:56:46	1152.000	1963.000	9.051	32.460	5573.000
X		1147.000	1946.000	8.625	32.680	5566.000
σ		8.878	20.740	0.370	0.847	45.460

28.3802/07/2018 10:58:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	10:58:52	1907.000	1604.000	15.930	31.370	7371.000
2	10:58:56	1901.000	1564.000	14.100	30.670	7241.000
3	10:58:59	1913.000	1534.000	15.260	32.160	7174.000
X		1907.000	1567.000	15.100	31.400	7262.000
σ		5.653	34.930	0.924	0.743	99.890

29.2202/07/2018 11:01:03

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:01:06	1075.000	2250.000	9.781	29.850	5903.000
2	11:01:10	1074.000	2299.000	9.477	30.140	5817.000
3	11:01:13	1043.000	2172.000	8.503	28.200	5753.000
X		1064.000	2240.000	9.254	29.400	5825.000
σ		18.360	63.710	0.668	1.049	75.250

29.2302/07/2018 11:03:17

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:03:20	865.200	1699.000	7.163	26.150	3501.000
2	11:03:23	805.100	1663.000	6.676	23.610	3489.000
3	11:03:27	823.400	1705.000	7.955	25.390	3449.000
X		831.200	1689.000	7.265	25.050	3480.000
σ		30.800	23.020	0.645	1.305	27.080

29.2502/07/2018 11:05:32

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:05:35	980.700	1558.000	7.407	20.930	3608.000
2	11:05:38	966.700	1561.000	7.894	20.340	3600.000
3	11:05:42	969.900	1505.000	6.128	20.110	3578.000
X		972.400	1541.000	7.143	20.460	3595.000
σ		7.296	31.190	0.912	0.426	15.800

29.2602/07/2018 11:07:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:07:49	1404.000	2454.000	9.964	20.540	3442.000
2	11:07:52	1398.000	2411.000	12.090	21.130	3389.000
3	11:07:56	1398.000	2429.000	11.610	19.480	3351.000
X		1400.000	2431.000	11.220	20.380	3394.000
σ		3.567	21.460	1.117	0.836	45.830

29.2702/07/2018 11:10:02

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	11:10:05	1344.000	1979.000	7.650	18.100	3319.000
2	11:10:09	1341.000	1920.000	7.772	18.620	3295.000
3	11:10:13	1367.000	1943.000	7.590	17.770	3259.000
X		1351.000	1948.000	7.671	18.160	3291.000
σ		14.380	29.720	0.093	0.433	30.320

29.2802/07/2018 11:12:17

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:12:21	737.600	1255.000	4.485	14.230	1111.000
2	11:12:24	729.500	1259.000	4.667	14.990	1109.000
3	11:12:28	710.600	1297.000	4.180	16.050	1107.000
X		725.900	1270.000	4.444	15.090	1109.000
σ		13.870	22.870	0.246	0.912	2.085

29.3002/07/2018 11:15:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:15:24	832.400	1655.000	7.894	17.730	1417.000
2	11:15:28	825.800	1576.000	6.920	16.410	1398.000
3	11:15:31	800.300	1574.000	5.763	17.340	1392.000
X		819.500	1602.000	6.859	17.160	1402.000
σ		16.910	45.920	1.067	0.677	13.190

29.3102/07/2018 11:17:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:17:38	984.600	1842.000	5.641	14.300	1362.000
2	11:17:42	949.200	1798.000	6.372	13.010	1347.000
3	11:17:45	942.900	1813.000	6.676	13.280	1347.000
X		958.900	1818.000	6.230	13.530	1352.000
σ		22.500	22.580	0.532	0.680	8.569

29.3302/07/2018 11:19:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:19:52	914.000	2105.000	6.433	13.770	1929.000

2	11:19:55	915.800	2148.000	6.372	13.740	1918.000
3	11:19:59	893.000	2125.000	7.224	14.830	1919.000
x		907.600	2126.000	6.676	14.110	1922.000
σ		12.690	21.490	0.476	0.620	6.009

29.3402/07/2018 11:22:01

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:22:05	2086.000	1498.000	6.676	16.080	7114.000
2	11:22:08	2073.000	1461.000	7.833	17.070	6977.000
3	11:22:12	2095.000	1523.000	5.763	16.410	6962.000
x		2085.000	1494.000	6.758	16.520	7018.000
σ		10.750	31.080	1.037	0.504	84.150

29.3502/07/2018 11:24:15

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:24:18	1053.000	2198.000	6.981	15.160	2051.000
2	11:24:22	1005.000	2200.000	7.224	12.650	2054.000
3	11:24:25	1006.000	2178.000	7.529	14.530	2029.000
x		1021.000	2192.000	7.245	14.110	2045.000
σ		27.440	12.360	0.275	1.305	13.820

29.3702/07/2018 11:26:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:26:32	1061.000	1292.000	5.276	14.230	4494.000
2	11:26:36	1071.000	1279.000	5.641	13.940	4465.000
3	11:26:39	1050.000	1250.000	5.763	14.700	4465.000
x		1061.000	1273.000	5.560	14.290	4474.000
σ		10.760	21.110	0.254	0.383	16.490

29.3902/07/2018 11:28:41

User Pre-dilution: 100.000

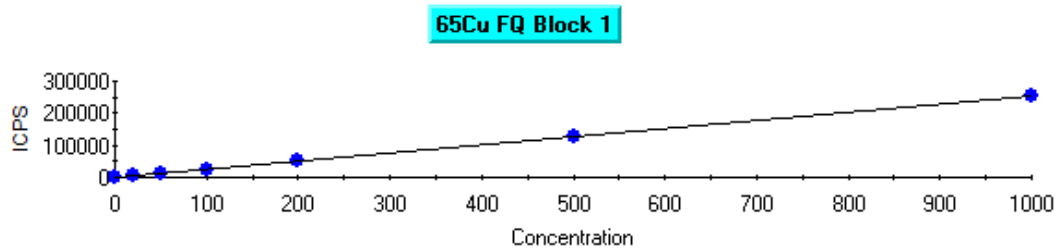
Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	11:28:45	944.400	1964.000	7.468	10.740	1673.000
2	11:28:48	923.700	1934.000	8.929	11.230	1659.000
3	11:28:52	929.700	1956.000	7.103	10.740	1626.000

X	932.600	1951.000	7.833	10.900	1652.000
σ	10.670	15.430	0.966	0.286	24.100

6.1.6 Batch 30.22 – 34.25 (digested on ETHOS EZ) without cooling

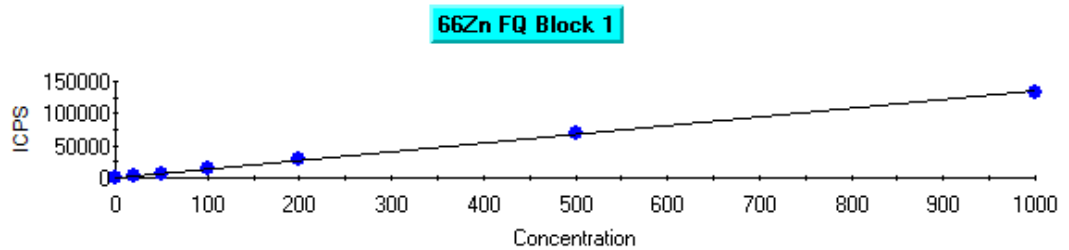
*Cooling was turned off from this date unbeknownst to the author until a later date, where a subsequent run was done with and without cooling to compare the effects, note the sensitivity of the results here are lower than previous batches.

Fully Quant Calibration



Intercept CPS=169.334920 Intercept Conc=0.669449
Sensitivity=252.946785 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	169.33	0.00
20ppb	20.000	21.603	1.603	5633.75	8.02
50ppb	50.000	49.648	0.352	12727.57	0.70
100ppb	100.000	101.775	1.775	25912.88	1.77
200ppb	200.000	204.606	4.606	51923.89	2.30
500ppb	500.000	507.757	7.757	128604.78	1.55
1ppm	1000.000	995.008	4.992	251853.51	0.50

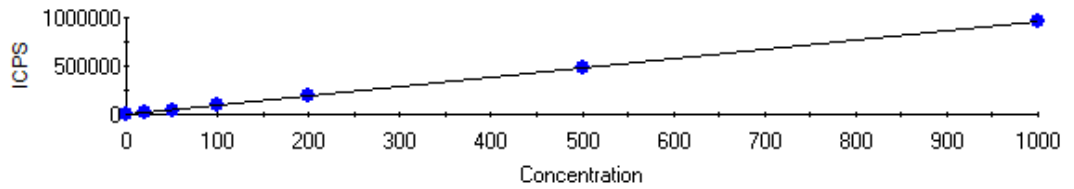


Intercept CPS=78.667010 Intercept Conc=0.583171
Sensitivity=134.895228 Correlation Coeff=0.999776

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	78.67	0.00
20ppb	20.000	26.080	6.080	3596.71	30.40
50ppb	50.000	52.140	2.140	7112.12	4.28
100ppb	100.000	109.597	9.597	14862.81	9.60
200ppb	200.000	217.280	17.280	29388.77	8.64

500ppb	500.000	510.802	10.802	68983.41	2.16
1ppm	1000.000	989.955	10.045	133618.82	1.00

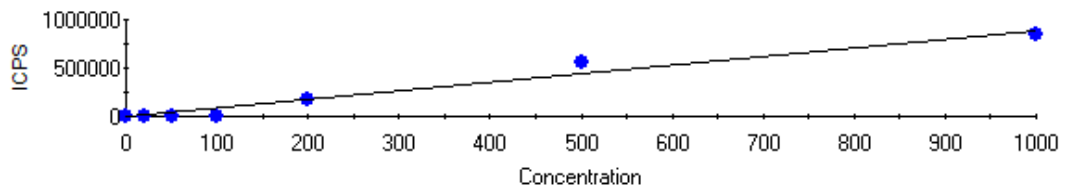
107Ag FQ Block 1



Intercept CPS=25.333371 Intercept Conc=0.026209
Sensitivity=966.593030 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	25.33	0.00
20ppb	20.000	16.819	3.181	16282.57	15.90
50ppb	50.000	44.906	5.094	43431.51	10.19
100ppb	100.000	95.557	4.443	92389.78	4.44
200ppb	200.000	203.994	3.994	197204.15	2.00
500ppb	500.000	499.505	0.495	482843.82	0.10
1ppm	1000.000	1000.211	0.211	966822.49	0.02

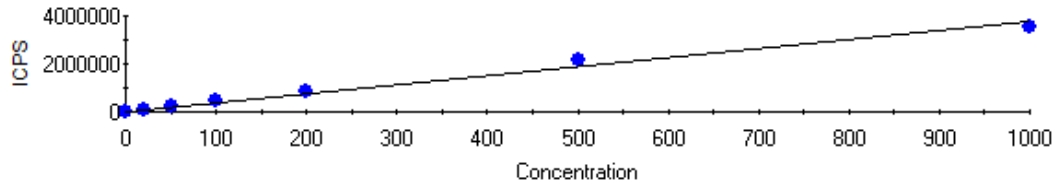
202Hg FQ Block 1



Intercept CPS=8.000004 Intercept Conc=0.008986
Sensitivity=890.225854 Correlation Coeff=0.982266

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	8.00	0.00
20ppb	20.000	0.096	19.904	93.33	99.52
50ppb	50.000	0.271	49.729	249.34	99.46
100ppb	100.000	1.246	98.754	1117.40	98.75
200ppb	200.000	198.827	1.173	177008.62	0.59
500ppb	500.000	632.293	132.293	562891.49	26.46
1ppm	1000.000	946.848	53.152	842916.68	5.32

208Pb FQ Block 1



Intercept CPS=173.335038 Intercept Conc=0.046380
Sensitivity=3737.275251 Correlation Coeff=0.995095

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	173.34	0.00
20ppb	20.000	25.059	5.059	93825.70	25.29
50ppb	50.000	55.647	5.647	208142.55	11.29
100ppb	100.000	113.177	13.177	423146.28	13.18
200ppb	200.000	231.184	31.184	864170.09	15.59
500ppb	500.000	576.468	76.468	2154592.59	15.29
1ppm	1000.000	953.828	46.172	3564891.48	4.62

Dilution Corrected Concentrations

blank04/07/2018 12:24:47

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:24:47	-0.037	-0.079	0.003	0.004	-0.004
2	12:24:51	0.074	0.040	0.007	-0.004	0.011
3	12:24:54	-0.037	0.040	-0.010	-0.000	-0.008
x		-0.000	0.000	0.000	-0.000	0.000
σ		0.064	0.068	0.009	0.004	0.010

20ppb04/07/2018 12:26:41

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:26:41	21.670	26.350	16.590	0.103	24.980
2	12:26:44	22.000	25.460	17.190	0.103	24.980
3	12:26:47	21.140	26.440	16.670	0.081	25.220
x		21.600	26.080	16.820	0.096	25.060
σ		0.431	0.541	0.326	0.013	0.142

50ppb04/07/2018 12:28:34

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:28:34	48.640	51.300	45.360	0.216	55.570
2	12:28:37	49.750	50.530	44.440	0.319	56.060
3	12:28:41	50.560	54.590	44.920	0.279	55.310
X		49.650	52.140	44.910	0.271	55.650
σ		0.962	2.159	0.455	0.052	0.380

100ppb04/07/2018 12:30:28

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:30:28	101.500	110.300	96.030	1.317	111.600
2	12:30:32	100.900	107.400	94.910	1.200	114.500
3	12:30:36	102.900	111.100	95.730	1.222	113.400
X		101.800	109.600	95.560	1.246	113.200
σ		1.040	1.943	0.584	0.062	1.462

200ppb04/07/2018 12:32:24

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:32:24	203.400	218.900	202.900	194.800	229.300
2	12:32:28	202.200	213.900	202.400	197.600	230.200
3	12:32:31	208.200	219.100	206.600	204.100	234.100
X		204.600	217.300	204.000	198.800	231.200
σ		3.141	2.921	2.297	4.772	2.566

500ppb04/07/2018 12:34:20

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:34:20	500.100	512.600	503.300	629.300	575.900
2	12:34:23	517.400	510.200	502.000	623.700	578.700
3	12:34:27	505.800	509.600	493.300	643.900	574.800
X		507.800	510.800	499.500	632.300	576.500
σ		8.855	1.587	5.425	10.440	2.015

1ppm04/07/2018 12:36:16

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	12:36:16	982.300	984.300	997.600	959.700	152.500
2	12:36:20	990.900	992.100	1005.000	955.300	952.900
3	12:36:23	1012.000	993.500	997.700	925.500	954.800
X		995.000	990.000	1000.000	946.800	953.800
σ		15.170	4.948	4.411	18.600	1.363

Blank 2 04/07/2018 12:38:25

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:38:28	-0.527	0.988	6.483	624.300	3.496
2	12:38:32	39.010	-10.870	7.725	600.000	4.246
3	12:38:35	12.120	3.954	8.552	605.900	6.493
X		16.870	-1.977	7.587	610.100	4.745
σ		20.190	7.845	1.041	12.670	1.560

30.2 204/07/2018 12:40:37

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:40:41	1073.000	2119.000	13.930	332.600	1629.000
2	12:40:44	1031.000	2030.000	19.310	353.700	1644.000
3	12:40:48	1039.000	2059.000	16.420	313.700	1610.000
X		1048.000	2069.000	16.550	333.300	1628.000
σ		22.720	45.310	2.693	20.010	16.710

30.23 04/07/2018 12:42:51

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:42:54	1341.000	3249.000	13.930	168.500	2409.000
2	12:42:58	1418.000	3154.000	13.520	169.400	2411.000
3	12:43:01	1358.000	3284.000	19.730	191.900	2392.000
X		1372.000	3229.000	15.730	176.600	2404.000
σ		40.670	67.480	3.471	13.240	10.580

30.24 04/07/2018 12:45:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:45:08	1056.000	2003.000	8.966	101.600	5283.000

2	12:45:12	1100.000	1783.000	12.690	111.000	5285.000
3	12:45:15	1034.000	1926.000	9.380	118.600	5299.000
x		1063.000	1904.000	10.350	110.400	5289.000
σ		33.830	111.400	2.041	8.554	8.685

30.2904/07/2018 12:47:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:47:22	1341.000	2412.000	17.660	84.480	950.300
2	12:47:25	1279.000	2258.000	11.450	82.680	943.800
3	12:47:28	1271.000	2317.000	11.860	89.420	931.300
x		1297.000	2329.000	13.660	85.530	941.800
σ		38.110	77.810	3.471	3.490	9.661

30.3304/07/2018 12:49:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:49:34	1432.000	2908.000	14.350	70.550	2941.000
2	12:49:37	1475.000	3127.000	8.966	59.760	2923.000
3	12:49:41	1266.000	2756.000	14.760	75.940	2942.000
x		1391.000	2930.000	12.690	68.750	2935.000
σ		110.300	186.500	3.232	8.237	10.640

30.3404/07/2018 12:51:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:51:46	967.400	1973.000	10.210	63.810	2315.000
2	12:51:49	1048.000	1840.000	7.311	48.080	2272.000
3	12:51:52	1067.000	1875.000	11.040	60.660	2326.000
x		1028.000	1896.000	9.518	57.520	2304.000
σ		52.910	69.120	1.956	8.322	28.590

30.3504/07/2018 12:53:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:53:56	1129.000	2566.000	11.860	57.520	1758.000
2	12:54:00	1058.000	2433.000	10.620	52.570	1747.000
3	12:54:03	1077.000	2365.000	15.170	46.280	1743.000

X	1088.000	2455.000	12.550	52.120	1749.000
σ	36.860	102.600	2.353	5.630	7.699

30.3604/07/2018 13:02:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:02:27	1342.000	2822.000	12.690	31.000	2473.000
2	13:02:30	1315.000	2887.000	13.520	30.550	2429.000
3	13:02:34	1279.000	2842.000	15.590	36.850	2408.000
X		1312.000	2850.000	13.930	32.800	2437.000
σ		31.760	33.340	1.492	3.509	33.180

30.37 (1215)04/07/2018 13:04:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:04:40	761.800	2685.000	8.139	26.960	1166.000
2	13:04:43	861.400	2513.000	6.897	21.570	1170.000
3	13:04:47	850.400	2418.000	9.380	24.260	1160.000
X		824.500	2539.000	8.139	24.260	1165.000
σ		54.620	135.300	1.241	2.696	5.124

30.37 (1375)04/07/2018 13:06:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:06:54	2501.000	4344.000	17.660	26.060	2373.000
2	13:06:57	2425.000	4201.000	20.140	27.410	2311.000
3	13:07:01	2287.000	3928.000	14.760	27.410	2303.000
X		2404.000	4158.000	17.520	26.960	2329.000
σ		108.300	211.100	2.693	0.778	38.400

30.3804/07/2018 13:09:02

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:09:06	1640.000	5157.000	15.170	20.220	1909.000
2	13:09:10	1494.000	5068.000	17.660	21.570	1930.000
3	13:09:13	1652.000	5320.000	14.350	19.320	1960.000
X		1595.000	5181.000	15.730	20.370	1933.000
σ		87.920	127.900	1.723	1.131	25.580

30.4104/07/2018 13:11:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:11:20	1464.000	3231.000	12.690	17.970	2274.000
2	13:11:23	1380.000	3287.000	17.660	19.770	2339.000
3	13:11:27	1350.000	3213.000	9.380	22.920	2344.000
X		1398.000	3244.000	13.240	20.220	2319.000
σ		59.030	38.720	4.166	2.502	39.280

31.2304/07/2018 13:13:30

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:13:33	1265.000	3189.000	11.450	17.070	1693.000
2	13:13:37	1279.000	3219.000	10.210	26.060	1679.000
3	13:13:40	1206.000	3323.000	14.350	18.420	1686.000
X		1250.000	3244.000	12.000	20.520	1686.000
σ		38.570	70.100	2.124	4.846	7.275

31.2704/07/2018 13:15:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:15:48	2822.000	2457.000	12.690	17.070	4342.000
2	13:15:52	2917.000	2368.000	13.100	18.870	4360.000
3	13:15:56	2876.000	2528.000	7.725	20.220	4393.000
X		2871.000	2451.000	11.170	18.720	4365.000
σ		47.620	80.260	2.994	1.578	26.020

31.2904/07/2018 13:18:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:18:04	1402.000	2341.000	11.860	17.070	1034.000
2	13:18:07	1398.000	2219.000	10.620	16.630	1044.000
3	13:18:11	1385.000	2332.000	10.620	17.070	1043.000
X		1395.000	2298.000	11.040	16.920	1040.000
σ		8.996	67.790	0.717	0.259	5.771

31.3004/07/2018 13:20:15

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:20:18	1420.000	2288.000	7.725	18.420	1406.000
2	13:20:22	1344.000	2344.000	8.552	14.830	1404.000
3	13:20:26	1588.000	2282.000	7.725	17.070	1410.000
x		1450.000	2304.000	8.001	16.770	1407.000
σ		124.700	34.380	0.478	1.816	2.988

31.3204/07/2018 13:22:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:22:34	1391.000	2727.000	7.311	16.180	2405.000
2	13:22:38	1486.000	2744.000	7.725	14.380	2369.000
3	13:22:41	1467.000	2724.000	9.380	14.830	2374.000
x		1448.000	2732.000	8.139	15.130	2383.000
σ		50.230	11.230	1.095	0.935	19.440

31.3304/07/2018 13:24:43

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:24:46	1613.000	2908.000	14.350	9.885	2393.000
2	13:24:50	1607.000	3029.000	10.210	8.987	2419.000
3	13:24:54	1584.000	2905.000	13.520	17.070	2430.000
x		1601.000	2947.000	12.690	11.980	2414.000
σ		14.950	71.100	2.190	4.433	19.160

31.3404/07/2018 13:26:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:26:59	969.000	1760.000	6.897	9.436	1735.000
2	13:27:02	932.600	1760.000	9.794	16.180	1746.000
3	13:27:06	973.700	1831.000	10.620	11.230	1742.000
x		958.500	1783.000	9.104	12.280	1741.000
σ		22.500	41.100	1.956	3.490	5.433

31.3504/07/2018 13:29:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	13:29:11	1387.000	2563.000	17.240	7.639	1502.000
2	13:29:15	1410.000	2709.000	11.040	12.130	1520.000
3	13:29:18	1406.000	2383.000	14.760	10.780	1492.000
X		1401.000	2552.000	14.350	10.180	1505.000
σ		12.560	163.500	3.124	2.306	14.220

31.3704/07/2018 13:31:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:31:25	1550.000	3448.000	8.552	13.030	2048.000
2	13:31:28	1442.000	3133.000	15.590	6.291	2053.000
3	13:31:32	1341.000	3296.000	11.860	11.680	2040.000
X		1444.000	3292.000	12.000	10.330	2047.000
σ		104.400	157.300	3.520	3.566	6.349

31.3804/07/2018 13:34:28

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:34:31	1279.000	2495.000	6.483	8.987	1465.000
2	13:34:34	1260.000	2519.000	10.210	10.780	1489.000
3	13:34:38	1274.000	2519.000	8.552	9.885	1496.000
X		1271.000	2511.000	8.414	9.885	1483.000
σ		9.879	13.700	1.866	0.899	16.160

31.3904/07/2018 13:36:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:36:44	1638.000	2994.000	9.794	8.088	1966.000
2	13:36:48	1706.000	3068.000	7.725	7.639	1934.000
3	13:36:51	1736.000	2991.000	12.690	9.885	1925.000
X		1694.000	3017.000	10.070	8.537	1941.000
σ		50.260	43.700	2.494	1.189	21.590

32.2204/07/2018 13:38:54

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:38:58	1338.000	1774.000	6.897	6.740	1548.000
2	13:39:01	1410.000	1917.000	7.725	8.537	1549.000

3	13:39:04	1355.000	1917.000	8.966	11.230	1560.000
X		1368.000	1869.000	7.863	8.837	1552.000
σ		38.000	82.200	1.041	2.262	6.598

32.2304/07/2018 13:41:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:41:12	1281.000	2967.000	8.552	7.639	2332.000
2	13:41:15	1412.000	3068.000	14.760	13.480	2384.000
3	13:41:19	1395.000	2934.000	11.860	8.987	2339.000
X		1362.000	2990.000	11.730	10.030	2352.000
σ		71.320	69.590	3.106	3.059	27.990

32.2604/07/2018 13:43:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:43:28	2602.000	2575.000	13.100	7.639	27640.000
2	13:43:31	2524.000	2394.000	10.620	4.493	27520.000
3	13:43:35	2679.000	2418.000	13.520	8.987	27310.000
X		2602.000	2463.000	12.410	7.039	27490.000
σ		77.540	98.340	1.567	2.306	167.900

32.2704/07/2018 13:45:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:45:43	1537.000	2810.000	10.210	9.436	2422.000
2	13:45:46	1455.000	2825.000	10.620	7.189	2451.000
3	13:45:50	1482.000	2854.000	8.966	8.987	2449.000
X		1491.000	2829.000	9.932	8.537	2441.000
σ		41.950	22.660	0.862	1.189	16.230

32.2804/07/2018 13:47:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:47:59	2127.000	2267.000	12.280	7.639	2757.000
2	13:48:03	2094.000	2412.000	9.380	8.987	2765.000
3	13:48:06	1936.000	2489.000	13.930	8.537	2776.000
X		2052.000	2389.000	11.860	8.387	2766.000

σ	102.300	113.000	2.304	0.686	9.788
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32.2904/07/2018 13:50:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:50:14	918.400	1644.000	5.656	4.044	797.800
2	13:50:17	918.400	1582.000	9.380	6.740	788.800
3	13:50:21	905.700	1724.000	3.173	4.943	800.900
x		914.200	1650.000	6.069	5.242	795.800
σ		7.306	71.370	3.124	1.373	6.302

32.3204/07/2018 13:52:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:52:27	1119.000	2056.000	13.930	7.189	1642.000
2	13:52:30	1126.000	1926.000	12.690	3.595	1638.000
3	13:52:34	1135.000	2012.000	11.040	13.030	1620.000
x		1127.000	1998.000	12.550	7.938	1633.000
σ		7.962	66.350	1.453	4.762	11.680

32.3304/07/2018 13:54:37

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:54:41	1507.000	2795.000	15.590	4.044	1653.000
2	13:54:44	1613.000	2973.000	13.100	3.595	1615.000
3	13:54:48	1531.000	2661.000	13.520	4.493	1631.000
x		1550.000	2810.000	14.070	4.044	1633.000
σ		55.630	156.300	1.330	0.449	18.900

32.3604/07/2018 13:56:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:56:56	1950.000	3528.000	12.280	9.436	2375.000
2	13:56:59	1906.000	3629.000	14.350	6.740	2353.000
3	13:57:03	1812.000	3676.000	12.690	10.330	2337.000
x		1889.000	3611.000	13.100	8.837	2355.000
σ		70.270	75.760	1.095	1.871	18.760

32.3804/07/2018 13:59:08

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:59:11	2915.000	3465.000	13.930	4.943	1574.000
2	13:59:15	3073.000	3451.000	17.660	5.841	1548.000
3	13:59:18	3002.000	3456.000	11.450	8.088	1535.000
X		2997.000	3457.000	14.350	6.291	1552.000
σ		79.270	7.466	3.124	1.620	19.960

32.4004/07/2018 14:01:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:01:26	899.400	2679.000	9.380	7.189	1119.000
2	14:01:29	894.700	2561.000	12.690	4.493	1119.000
3	14:01:33	842.500	2531.000	10.210	6.740	1089.000
X		878.800	2590.000	10.760	6.141	1109.000
σ		31.600	78.480	1.723	1.444	17.260

33.2404/07/2018 14:03:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:03:41	1138.000	2267.000	13.100	7.639	1114.000
2	14:03:45	1043.000	2584.000	8.139	8.537	1127.000
3	14:03:48	1121.000	2388.000	7.725	7.189	1130.000
X		1101.000	2413.000	9.656	7.788	1124.000
σ		50.530	160.100	2.994	0.686	8.203

33.2504/07/2018 14:29:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:29:15	1369.000	2638.000	5.656	4.493	2468.000
2	14:29:18	1409.000	2703.000	6.069	2.247	2485.000
3	14:29:22	1398.000	2439.000	11.450	4.943	2446.000
X		1392.000	2593.000	7.725	3.894	2466.000
σ		20.400	137.500	3.232	1.444	19.880

33.2604/07/2018 14:31:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:31:31	1700.000	2172.000	11.040	2.247	15910.000
2	14:31:34	1627.000	2190.000	10.210	4.493	15850.000
3	14:31:38	1838.000	2187.000	7.725	2.247	15950.000
X		1721.000	2183.000	9.656	2.996	15900.000
σ		106.900	9.535	1.723	1.297	49.170

33.2804/07/2018 14:33:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:33:45	997.500	1733.000	6.483	3.145	625.300
2	14:33:48	999.100	1567.000	7.311	1.797	622.600
3	14:33:52	976.900	1727.000	5.242	3.595	622.700
X		991.100	1676.000	6.345	2.846	623.500
σ		12.350	94.230	1.041	0.935	1.519

33.2904/07/2018 14:35:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:36:00	921.500	1499.000	2.759	4.044	761.600
2	14:36:03	858.300	1508.000	3.586	2.696	762.900
3	14:36:07	880.400	1416.000	4.414	2.247	745.000
X		886.700	1474.000	3.586	2.996	756.500
σ		32.110	50.710	0.828	0.935	10.000

33.3004/07/2018 14:38:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:38:16	1005.000	1920.000	5.656	3.145	1069.000
2	14:38:20	1084.000	1982.000	11.040	4.044	1063.000
3	14:38:23	1048.000	1795.000	6.483	3.595	1099.000
X		1046.000	1899.000	7.725	3.595	1077.000
σ		39.590	95.150	2.897	0.449	19.130

33.3504/07/2018 14:40:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	14:40:30	1502.000	2736.000	6.483	4.044	4830.000
2	14:40:34	1478.000	2611.000	6.483	2.696	4835.000
3	14:40:37	1491.000	2626.000	8.552	4.044	4819.000
x		1491.000	2657.000	7.173	3.595	4828.000
σ		11.870	68.060	1.195	0.778	8.030

33.3604/07/2018 14:42:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:42:41	1092.000	3000.000	12.280	3.145	614.700
2	14:42:45	1010.000	3089.000	11.860	1.348	604.700
3	14:42:49	1072.000	2991.000	6.483	1.348	608.500
x		1058.000	3026.000	10.210	1.947	609.300
σ		42.810	54.140	3.232	1.038	5.040

33.3704/07/2018 14:44:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:44:53	1679.000	3860.000	13.930	3.145	8859.000
2	14:44:57	1679.000	3848.000	17.240	4.044	8801.000
3	14:45:00	1739.000	3910.000	17.240	4.044	8682.000
x		1699.000	3873.000	16.140	3.744	8781.000
σ		34.710	33.080	1.911	0.519	90.430

33.3804/07/2018 14:47:02

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:47:06	1391.000	3056.000	13.520	4.044	1395.000
2	14:47:10	1434.000	2961.000	7.725	4.044	1428.000
3	14:47:13	1266.000	3056.000	12.690	3.595	1384.000
x		1364.000	3024.000	11.310	3.894	1402.000
σ		87.140	54.810	3.133	0.259	22.800

33.3904/07/2018 14:49:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:49:20	1383.000	2804.000	7.725	6.291	1092.000

2	14:49:23	1249.000	2667.000	13.930	1.348	1108.000
3	14:49:27	1328.000	2753.000	11.040	3.145	1090.000
x		1320.000	2741.000	10.900	3.595	1097.000
σ		67.580	69.000	3.106	2.502	9.987

33.4004/07/2018 14:51:30

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:51:33	1102.000	2650.000	9.380	0.899	911.700
2	14:51:37	948.400	2522.000	13.100	1.797	910.900
3	14:51:40	997.500	2558.000	13.100	3.595	927.800
x		1016.000	2576.000	11.860	2.097	916.800
σ		78.370	65.820	2.150	1.373	9.529

33.4104/07/2018 14:53:44

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:53:47	20580.000	1555.000	9.794	1.797	550.800
2	14:53:51	19860.000	1460.000	8.966	6.740	544.000
3	14:53:54	20240.000	1561.000	8.552	3.145	543.700
x		20220.000	1525.000	9.104	3.894	546.200
σ		358.000	56.590	0.632	2.555	4.060

34.2304/07/2018 14:55:59

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:56:02	1428.000	2050.000	13.100	2.696	1845.000
2	14:56:05	1312.000	2065.000	5.242	2.247	1832.000
3	14:56:09	1369.000	1935.000	9.380	4.044	1849.000
x		1370.000	2017.000	9.242	2.996	1842.000
σ		57.740	71.460	3.933	0.935	9.052

34.2404/07/2018 14:58:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:58:17	1692.000	2400.000	11.860	2.696	3634.000
2	14:58:21	1705.000	2572.000	15.590	2.696	3600.000
3	14:58:25	1611.000	2451.000	15.590	0.899	3632.000

x	1669.000	2474.000	14.350	2.097	3622.000
σ	50.640	88.450	2.150	1.038	18.940

34.2504/07/2018 15:00:29

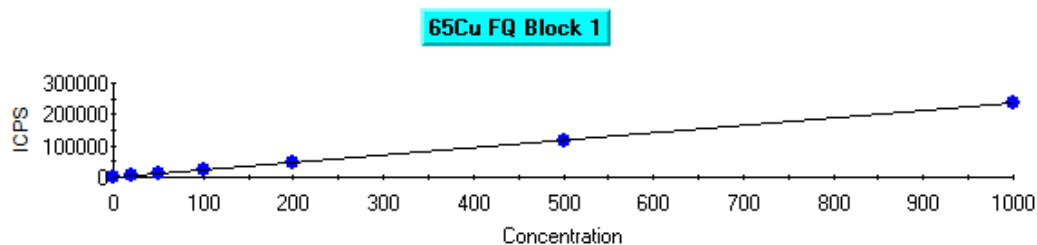
User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:00:32	1439.000	2338.000	17.660	4.943	2967.000
2	15:00:36	1478.000	2489.000	12.280	4.044	2988.000
3	15:00:39	1520.000	2383.000	11.860	2.247	2970.000
x		1479.000	2403.000	13.930	3.744	2975.000
σ		40.340	77.750	3.232	1.373	11.680

6.1.7 Batch 34.26 – 35.36 (digested on ETHOS EZ)

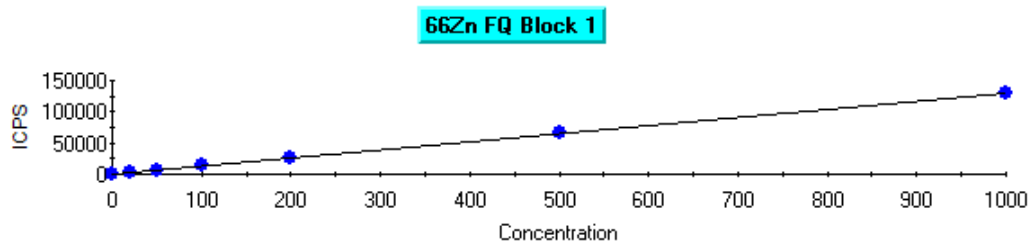
*An attempt was done to set the ICP-MS to detect all possible mercury isotopes since the detections so far have been erroneous, this turned out to not be the case and the results were discarded from the thesis.

Fully Quant Calibration



Intercept CPS=146.667852 Intercept Conc=0.623449
Sensitivity=235.252188 Correlation Coeff=0.999939

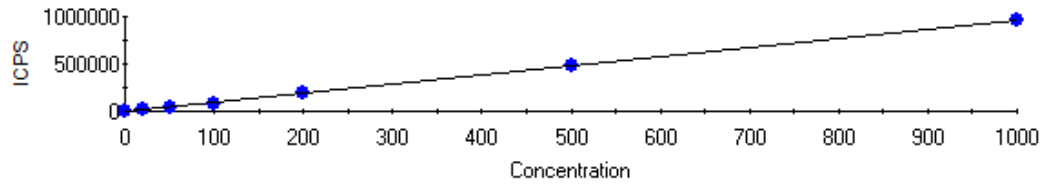
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	146.67	0.00
20ppb	20.000	20.080	0.080	4870.64	0.40
50ppb	50.000	48.632	1.368	11587.38	2.74
100ppb	100.000	97.347	2.653	23047.85	2.65
200ppb	200.000	193.021	6.979	45555.20	3.49
500ppb	500.000	492.887	7.113	116099.37	1.42
1ppm	1000.000	1005.285	5.285	236642.05	0.53



Intercept CPS=494.680362 Intercept Conc=3.804395
Sensitivity=130.028642 Correlation Coeff=0.999939

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	494.68	0.00
20ppb	20.000	21.107	1.107	3239.24	5.54
50ppb	50.000	48.275	1.725	6771.86	3.45
100ppb	100.000	101.400	1.400	13679.62	1.40
200ppb	200.000	198.803	1.197	26344.79	0.60
500ppb	500.000	508.745	8.745	66646.11	1.75
1ppm	1000.000	995.791	4.209	129976.02	0.42

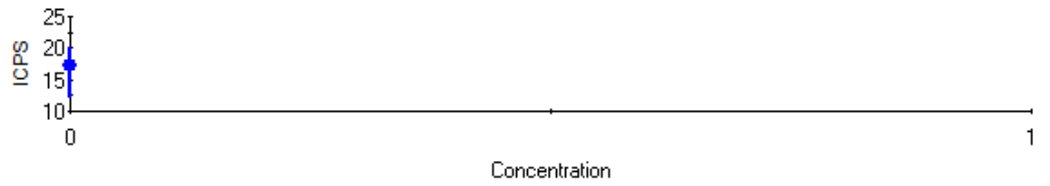
107Ag FQ Block 1



Intercept CPS=9.333339 Intercept Conc=0.009734
Sensitivity=958.834611 Correlation Coef=0.999948

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	9.33	0.00
20ppb	20.000	15.558	4.442	14926.91	22.21
50ppb	50.000	43.356	6.644	41580.21	13.29
100ppb	100.000	90.016	9.984	86319.89	9.98
200ppb	200.000	191.934	8.066	184041.83	4.03
500ppb	500.000	496.222	3.778	475803.89	0.76
1ppm	1000.000	1004.922	4.922	963563.22	0.49

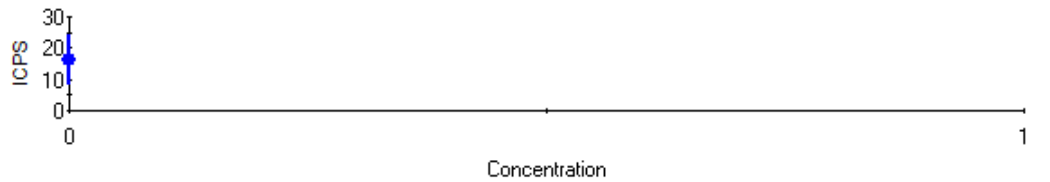
199Hg FQ Block 1



Failed : Curve Invalid - insufficient data
Results for this analyte will be semi-quant

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	17.33	0.00

200Hg FQ Block 1



Failed : Curve Invalid - insufficient data
Results for this analyte will be semi-quant

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	16.00	0.00

1	13:09:29	0.040	-0.513	0.003	-0.022	-0.000	0.006	0.003
2	13:09:33	-0.028	0.687	0.003	0.011	0.023	-0.003	0.004
3	13:09:37	-0.011	-0.174	-0.006	0.011	-0.023	-0.003	-0.006
x		0.000	-0.000	0.000	-0.000	-0.000	-0.000	0.000
σ		0.035	0.619	0.005	0.019	0.023	0.005	0.006

20ppb10/07/2018 13:11:26

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:11:26	20.940	21.390	15.530	0.060	0.117	0.030	24.150
2	13:11:30	20.590	20.990	15.490	0.076	0.106	0.021	24.100
3	13:11:34	18.710	20.930	15.650	0.125	0.129	0.054	24.410
x		20.080	21.110	15.560	0.087	0.117	0.035	24.220
σ		1.197	0.251	0.084	0.034	0.012	0.017	0.166

50ppb10/07/2018 13:13:23

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:13:23	48.410	47.960	43.660	0.515	0.446	0.257	55.150
2	13:13:27	49.190	50.600	43.310	0.434	0.634	0.252	55.610
3	13:13:31	48.290	46.260	43.100	0.401	0.329	0.205	54.260
x		48.630	48.280	43.360	0.450	0.469	0.238	55.010
σ		0.490	2.188	0.284	0.059	0.154	0.029	0.690

100ppb10/07/2018 13:15:21

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:15:21	97.590	99.140	90.360	1.394	1.830	0.953	110.200
2	13:15:25	96.400	103.800	89.270	1.914	1.701	0.986	109.800
3	13:15:29	98.050	101.200	90.420	1.491	1.889	0.991	111.100
x		97.350	101.400	90.020	1.600	1.807	0.976	110.300
σ		0.853	2.346	0.646	0.277	0.096	0.021	0.692

200ppb10/07/2018 13:17:19

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:17:19	191.800	197.300	194.700	268.700	263.900	139.600	220.100
2	13:17:24	191.900	195.700	189.400	269.200	255.000	140.200	216.400

3	13:17:28	195.300	203.400	191.700	273.900	266.100	142.500	222.700
x		193.000	198.800	191.900	270.600	261.700	140.800	219.700
σ		1.979	4.093	2.682	2.864	5.906	1.489	3.189

500ppb10/07/2018 13:19:18

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:19:18	499.100	514.900	500.300	1186.000	1180.000	625.400	585.100
2	13:19:23	490.400	499.400	491.100	1211.000	1190.000	624.500	576.700
3	13:19:27	489.200	511.900	497.300	1196.000	1172.000	627.800	578.800
x		492.900	508.700	496.200	1197.000	1181.000	625.900	580.200
σ		5.395	8.199	4.671	12.890	8.723	1.724	4.328

1ppm10/07/2018 13:21:17

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:21:17	991.400	980.300	996.400	1828.000	1786.000	964.100	955.800
2	13:21:22	1008.000	999.200	1008.000	1852.000	1821.000	962.800	948.000
3	13:21:26	1017.000	1008.000	1011.000	1807.000	1805.000	958.200	959.900
x		1005.000	995.800	1005.000	1829.000	1804.000	961.700	954.600
σ		12.850	14.110	7.475	22.790	17.550	3.097	6.035

34.2610/07/2018 13:23:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:23:35	1128.000	3460.000	26.560	1098.000	981.000	570.500	1158.000
2	13:23:41	1024.000	3417.000	24.890	1025.000	1017.000	557.700	1183.000
3	13:23:45	941.000	3164.000	27.390	1081.000	1012.000	536.900	1121.000
x		1031.000	3347.000	26.280	1068.000	1003.000	555.000	1154.000
σ		93.730	159.600	1.275	38.450	19.530	16.970	31.020

34.2710/07/2018 13:25:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:25:54	1154.000	2143.000	16.970	401.300	382.500	216.900	742.100
2	13:25:58	1189.000	2149.000	19.050	396.400	381.300	210.300	731.400
3	13:26:02	1126.000	2299.000	15.300	360.600	413.000	211.200	743.400
x		1156.000	2197.000	17.100	386.100	392.300	212.800	739.000

σ 31.560 88.890 1.881 22.210 17.960 3.584 6.600

34.2810/07/2018 13:28:06

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:28:11	1092.000	2176.000	12.380	264.600	276.900	138.300	1035.000
2	13:28:15	1103.000	2124.000	10.290	285.800	266.300	133.600	1057.000
3	13:28:19	1111.000	2256.000	15.300	274.400	252.300	128.900	1059.000
x		1102.000	2186.000	12.650	275.000	265.200	133.600	1051.000
σ		9.367	66.640	2.515	10.590	12.360	4.733	13.180

34.2910/07/2018 13:30:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:30:26	704.600	1299.000	7.787	245.100	173.600	98.590	812.000
2	13:30:30	638.200	1318.000	11.120	170.300	157.200	91.020	804.700
3	13:30:34	721.600	1293.000	9.039	181.700	187.700	109.000	820.700
x		688.100	1303.000	9.317	199.000	172.900	99.530	812.500
σ		44.030	12.810	1.686	40.330	15.270	9.029	8.012

34.3310/07/2018 13:32:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:32:44	1133.000	2167.000	14.880	136.100	134.900	78.240	1803.000
2	13:32:48	1109.000	2235.000	18.220	142.600	107.900	70.670	1801.000
3	13:32:52	1035.000	2146.000	14.460	150.800	127.900	71.140	1744.000
x		1092.000	2183.000	15.850	143.200	123.600	73.350	1783.000
σ		51.480	46.570	2.058	7.336	14.000	4.241	33.520

34.3410/07/2018 13:34:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:35:00	692.700	1613.000	10.710	95.440	117.300	62.620	808.500
2	13:35:04	772.600	1472.000	12.380	102.000	96.210	58.840	780.600
3	13:35:08	697.800	1539.000	13.210	128.000	91.510	59.310	793.000
x		721.000	1541.000	12.100	108.500	101.700	60.260	794.000
σ		44.750	70.800	1.275	17.220	13.750	2.063	13.980

34.3510/07/2018 13:37:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:37:15	507.300	2613.000	9.456	88.940	95.030	52.680	497.000
2	13:37:19	451.200	2324.000	6.953	105.200	102.100	55.050	515.900
3	13:37:23	534.500	2429.000	11.960	87.310	85.650	55.050	495.900
x		497.700	2455.000	9.456	93.820	94.250	54.260	502.900
σ		42.490	146.500	2.503	9.896	8.241	1.366	11.280

34.3610/07/2018 13:39:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:39:30	1337.000	3149.000	17.800	82.430	79.780	33.280	1629.000
2	13:39:34	1305.000	3130.000	12.380	69.410	71.570	38.490	1612.000
3	13:39:39	1337.000	3318.000	14.880	54.770	70.390	44.170	1646.000
x		1326.000	3199.000	15.020	68.870	73.910	38.640	1629.000
σ		18.660	103.500	2.714	13.840	5.114	5.444	17.040

34.3710/07/2018 13:41:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:41:44	1356.000	2540.000	16.970	87.310	62.180	41.800	1825.000
2	13:41:48	1358.000	2736.000	22.810	90.560	71.570	38.490	1789.000
3	13:41:52	1368.000	2690.000	16.130	67.790	65.700	38.960	1750.000
x		1361.000	2655.000	18.630	81.890	66.480	39.750	1788.000
σ		6.440	103.000	3.637	12.320	4.742	1.792	37.820

34.4010/07/2018 13:43:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:44:00	1004.000	2675.000	11.540	56.400	46.930	27.600	1356.000
2	13:44:04	878.000	2500.000	10.710	53.140	55.140	33.280	1368.000
3	13:44:08	1011.000	2490.000	11.960	67.790	62.180	32.340	1343.000
x		964.200	2555.000	11.400	59.110	54.750	31.070	1356.000
σ		74.700	104.000	0.637	7.688	7.634	3.042	12.340

34.4110/07/2018 13:46:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:46:17	1307.000	2130.000	10.290	64.530	52.800	27.130	1255.000
2	13:46:21	1404.000	2358.000	11.960	48.260	45.760	28.550	1241.000
3	13:46:25	1412.000	2373.000	9.456	32.000	50.450	28.080	1264.000
x		1374.000	2287.000	10.570	48.260	49.670	27.920	1253.000
σ		58.590	136.100	1.275	16.270	3.584	0.723	11.390

35.2210/07/2018 13:48:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:48:33	1526.000	2299.000	8.204	53.140	55.140	22.400	2673.000
2	13:48:37	1490.000	2183.000	13.630	59.650	55.140	28.080	2696.000
3	13:48:41	1516.000	2259.000	10.290	48.260	35.200	27.600	2638.000
x		1511.000	2247.000	10.710	53.690	48.490	26.030	2669.000
σ		18.400	59.430	2.736	5.713	11.520	3.151	29.350

35.23 (1215) 10/07/2018 13:50:44

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:50:48	1424.000	2616.000	14.460	43.380	44.580	26.660	7356.000
2	13:50:53	1320.000	2700.000	9.456	56.400	66.880	25.710	7334.000
3	13:50:57	1339.000	2487.000	17.800	56.400	50.450	28.550	7377.000
x		1361.000	2601.000	13.910	52.060	53.970	26.970	7356.000
σ		55.300	107.000	4.200	7.514	11.560	1.446	21.370

35.23 (1236) 10/07/2018 13:53:03

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:53:07	1470.000	2792.000	16.550	59.650	48.100	22.870	2302.000
2	13:53:11	1489.000	2675.000	15.710	45.010	45.760	25.710	2317.000
3	13:53:15	1509.000	2706.000	17.800	43.380	45.760	25.710	2243.000
x		1489.000	2724.000	16.690	49.350	46.540	24.760	2287.000
σ		19.570	60.620	1.050	8.960	1.355	1.639	38.900

35.2510/07/2018 13:55:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:55:25	1814.000	3334.000	15.300	45.010	39.890	21.920	5183.000

2	13:55:29	1783.000	3284.000	18.630	30.370	38.720	21.920	5103.000
3	13:55:33	1774.000	3269.000	16.970	45.010	48.100	18.610	5141.000
x		1790.000	3296.000	16.970	40.130	42.240	20.820	5142.000
σ		20.580	33.760	1.669	8.454	5.114	1.912	39.870

35.2610/07/2018 13:57:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	13:57:43	1531.000	3229.000	13.630	41.760	35.200	16.720	1540.000
2	13:57:47	1451.000	3210.000	14.880	25.490	48.100	14.350	1540.000
3	13:57:51	1453.000	3121.000	12.790	38.500	29.330	20.980	1530.000
x		1478.000	3187.000	13.770	35.250	37.540	17.350	1537.000
σ		45.670	57.610	1.050	8.609	9.603	3.357	6.089

35.2710/07/2018 13:59:57

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:00:01	888.200	3112.000	7.370	17.350	17.600	20.510	457.600
2	14:00:05	881.400	2943.000	11.960	17.350	24.640	14.350	448.800
3	14:00:09	857.600	2909.000	9.456	32.000	24.640	17.190	448.000
x		875.800	2988.000	9.595	22.230	22.290	17.350	451.500
σ		16.070	108.800	2.298	8.453	4.064	3.079	5.338

35.2810/07/2018 14:02:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:02:17	680.800	2229.000	11.540	28.740	23.460	17.190	466.900
2	14:02:21	675.700	2041.000	10.290	18.980	19.950	11.510	464.500
3	14:02:25	723.300	2441.000	10.290	20.610	23.460	12.930	449.600
x		693.200	2237.000	10.710	22.780	22.290	13.880	460.300
σ		26.140	200.200	0.723	5.230	2.032	2.955	9.388

35.2910/07/2018 14:04:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:04:31	1580.000	2973.000	9.456	12.470	25.810	11.510	1955.000
2	14:04:35	1628.000	3164.000	14.040	20.610	14.080	10.090	1958.000
3	14:04:39	1526.000	2958.000	18.220	20.610	28.160	11.990	1953.000

x	1578.000	3032.000	13.910	17.900	22.680	11.200	1955.000
σ	51.070	114.900	4.382	4.696	7.543	0.985	2.790

35.3010/07/2018 14:06:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:06:44	1507.000	2746.000	10.710	12.470	28.160	15.300	1499.000
2	14:06:49	1421.000	2644.000	11.960	25.490	17.600	13.880	1461.000
3	14:06:52	1574.000	2733.000	11.540	22.230	22.290	11.510	1481.000
x		1501.000	2708.000	11.400	20.060	22.680	13.570	1480.000
σ		76.770	55.430	0.637	6.773	5.290	1.912	18.690

35.3210/07/2018 14:08:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:09:00	1514.000	2881.000	8.622	12.470	18.770	16.250	1394.000
2	14:09:03	1456.000	3057.000	11.960	10.850	14.080	17.190	1424.000
3	14:09:08	1439.000	2823.000	11.120	18.980	18.770	11.510	1394.000
x		1470.000	2920.000	10.570	14.100	17.210	14.980	1404.000
σ		39.230	121.700	1.737	4.304	2.709	3.042	16.800

35.3310/07/2018 14:11:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:11:15	1870.000	2989.000	19.470	23.860	24.640	11.510	2388.000
2	14:11:18	1853.000	2995.000	17.380	10.850	36.370	16.720	2388.000
3	14:11:22	1822.000	2897.000	11.960	10.850	19.950	8.202	2386.000
x		1848.000	2960.000	16.270	15.180	26.980	12.150	2387.000
σ		24.140	55.170	3.876	7.514	8.460	4.294	0.866

35.3410/07/2018 14:13:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:13:30	1752.000	3300.000	16.550	17.350	14.080	10.570	2283.000
2	14:13:34	1538.000	3521.000	14.040	17.350	12.910	11.990	2249.000
3	14:13:38	1706.000	3121.000	11.960	7.592	16.430	7.256	2209.000
x		1666.000	3314.000	14.180	14.100	14.470	9.937	2247.000
σ		112.800	200.400	2.298	5.636	1.792	2.428	37.030

35.3510/07/2018 14:15:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:15:46	1831.000	3777.000	18.630	9.219	21.120	5.836	2586.000
2	14:15:50	1905.000	3478.000	15.710	10.850	16.430	8.202	2563.000
3	14:15:54	1895.000	3632.000	12.790	22.230	17.600	8.202	2534.000
x		1877.000	3629.000	15.710	14.100	18.380	7.413	2561.000
σ		40.590	149.300	2.920	7.091	2.442	1.366	26.040

35.3610/07/2018 14:17:59

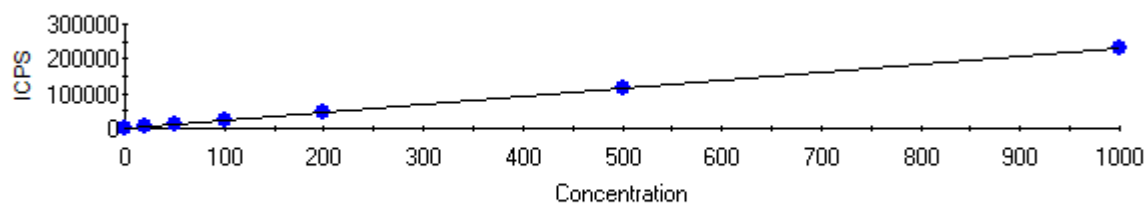
User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	199Hg	200Hg	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	14:18:03	1870.000	3084.000	14.040	22.230	9.386	9.148	1421.000
2	14:18:07	1841.000	3146.000	11.960	20.610	12.910	10.090	1447.000
3	14:18:11	1878.000	3103.000	11.540	15.730	26.980	11.040	1443.000
x		1863.000	3111.000	12.520	19.520	16.430	10.090	1437.000
σ		19.620	31.590	1.341	3.387	9.312	0.946	14.340

6.1.8 Batch 35.37 – 37.28 (digested on ETHOS EZ)

Fully Quant Calibration

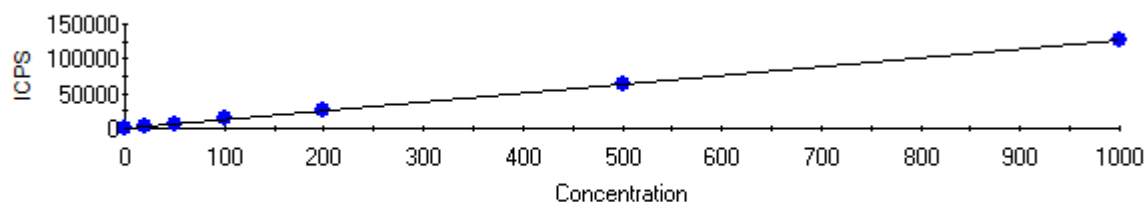
65Cu FQ Block 1



Intercept CPS=138.667731 Intercept Conc=0.605917
Sensitivity=228.856142 Correlation Coeff=0.999976

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	138.67	0.00
20ppb	20.000	21.195	1.195	4989.37	5.98
50ppb	50.000	48.066	1.934	11138.82	3.87
100ppb	100.000	98.602	1.398	22704.32	1.40
200ppb	200.000	194.176	5.824	44577.03	2.91
500ppb	500.000	502.012	2.012	115027.22	0.40
1ppm	1000.000	1000.371	0.371	229079.80	0.04

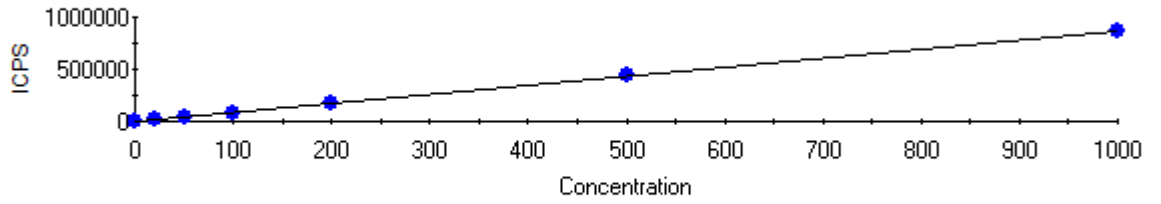
66Zn FQ Block 1



Intercept CPS=64.000226 Intercept Conc=0.504512
Sensitivity=126.855788 Correlation Coeff=0.999967

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	64.00	0.00
20ppb	20.000	23.884	3.884	3093.86	19.42
50ppb	50.000	51.489	1.489	6595.73	2.98
100ppb	100.000	104.226	4.226	13285.70	4.23
200ppb	200.000	200.941	0.941	25554.54	0.47
500ppb	500.000	506.360	6.360	64298.66	1.27
1ppm	1000.000	996.057	3.943	126419.62	0.39

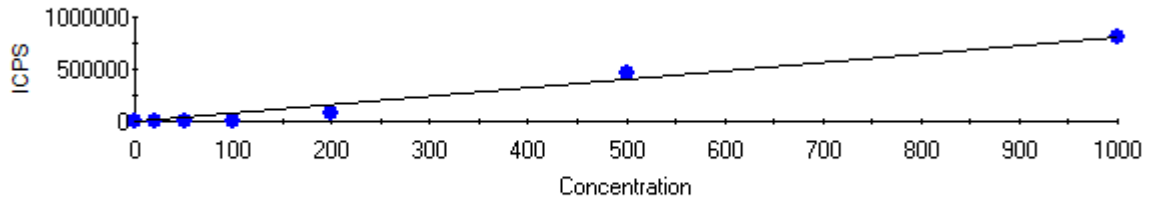
107Ag FQ Block 1



Intercept CPS=28.000047 Intercept Conc=0.032084
Sensitivity=872.701337 Correlation Coeff=0.999947

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	28.00	0.00
20ppb	20.000	15.635	4.365	13672.95	21.82
50ppb	50.000	42.487	7.513	37106.24	15.03
100ppb	100.000	90.529	9.471	79032.73	9.47
200ppb	200.000	195.080	4.920	170274.71	2.46
500ppb	500.000	503.261	3.261	439224.72	0.65
1ppm	1000.000	1000.763	0.763	873395.58	0.08

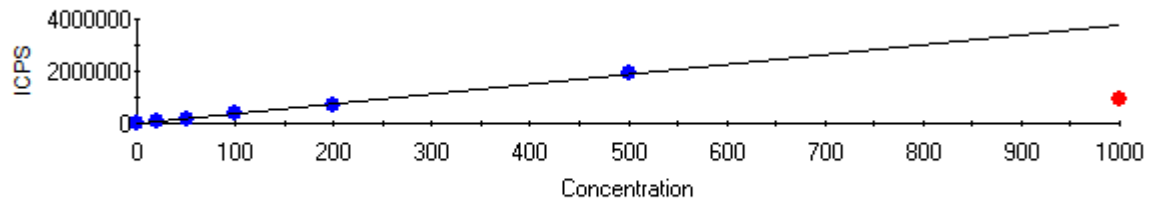
202Hg FQ Block 1



Intercept CPS=17.333351 Intercept Conc=0.021277
Sensitivity=814.658772 Correlation Coeff=0.990653

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	17.33	0.00
20ppb	20.000	0.111	19.889	108.00	99.44
50ppb	50.000	0.538	49.462	456.01	98.92
100ppb	100.000	1.727	98.273	1424.11	98.27
200ppb	200.000	103.494	96.506	84329.36	48.25
500ppb	500.000	567.778	67.778	462562.76	13.56
1ppm	1000.000	998.110	1.890	813136.70	0.19

208Pb FQ Block 1



Intercept CPS=74.666976 Intercept Conc=0.019793
Sensitivity=3772.349853 Correlation Coeff=0.999686

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	74.67	0.00
20ppb	20.000	21.042	1.042	79452.37	5.21
50ppb	50.000	47.080	2.920	177678.30	5.84
100ppb	100.000	95.655	4.345	360919.76	4.34
200ppb	200.000	190.325	9.675	718047.21	4.84
500ppb	500.000	504.989	4.989	1905070.70	1.00
1ppm	1000.000	234.492	765.508	884661.65	76.55

Dilution Corrected Concentrations

blank12/07/2018 13:52:17

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:52:17	-0.064	-0.032	-0.005	0.003	0.001
2	13:52:21	0.006	0.032	0.014	-0.007	0.001
3	13:52:24	0.058	-0.000	-0.009	0.003	-0.003
x		0.000	-0.000	-0.000	0.000	0.000
σ		0.061	0.032	0.012	0.006	0.002

20ppb12/07/2018 13:54:11

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:54:11	21.440	22.830	15.210	0.082	20.870
2	13:54:14	20.460	25.010	15.710	0.156	21.050
3	13:54:18	21.690	23.810	15.990	0.097	21.210
x		21.200	23.880	15.640	0.111	21.040
σ		0.648	1.090	0.390	0.039	0.173

50ppb12/07/2018 13:56:05

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:56:05	48.700	52.270	42.390	0.465	46.560
2	13:56:08	47.770	49.680	42.540	0.588	47.230
3	13:56:12	47.730	52.520	42.530	0.563	47.450
X		48.070	51.490	42.490	0.538	47.080
σ		0.546	1.572	0.086	0.065	0.465

100ppb12/07/2018 13:57:59

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:57:59	96.520	103.700	89.780	1.653	95.360
2	13:58:02	100.100	104.000	90.760	1.722	95.510
3	13:58:06	99.220	105.000	91.040	1.805	96.090
X		98.600	104.200	90.530	1.727	95.660
σ		1.856	0.675	0.662	0.076	0.386

200ppb12/07/2018 13:59:53

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:59:53	193.400	203.800	192.100	103.600	190.700
2	13:59:56	196.200	200.100	197.200	104.700	192.000
3	13:59:59	192.900	198.900	196.000	102.200	188.300
X		194.200	200.900	195.100	103.500	190.300
σ		1.754	2.565	2.690	1.235	1.910

500ppb12/07/2018 14:01:46

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:01:46	494.800	493.800	498.300	568.800	500.300
2	14:01:50	506.000	514.000	505.600	567.000	505.200
3	14:01:53	505.300	511.300	505.900	567.500	509.500
X		502.000	506.400	503.300	567.800	505.000
σ		6.248	11.000	4.341	0.908	4.622

1ppm12/07/2018 14:03:42

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	14:03:42	997.500	996.100	1015.000	1007.000	238.800
2	14:03:45	994.300	1001.000	993.500	992.800	245.100
3	14:03:49	1009.000	991.000	994.200	994.600	219.600
x		1000.000	996.100	1001.000	998.100	234.500
σ		7.842	5.100	12.020	7.660	13.270

35.3712/07/2018 14:05:51

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:05:55	1586.000	3059.000	30.250	574.500	1945.000
2	14:05:58	1544.000	2924.000	25.670	561.200	1936.000
3	14:06:01	1576.000	3091.000	29.790	507.600	1917.000
x		1569.000	3025.000	28.570	547.800	1932.000
σ		21.840	88.830	2.524	35.370	14.300

35.3812/07/2018 14:08:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:08:07	1035.000	2848.000	14.670	223.800	823.400
2	14:08:11	1048.000	3031.000	10.540	223.800	839.100
3	14:08:14	1060.000	2895.000	10.080	231.100	813.300
x		1048.000	2925.000	11.760	226.200	825.300
σ		12.240	94.970	2.524	4.253	12.970

36.2212/07/2018 14:10:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:10:19	886.800	2419.000	11.920	124.600	3160.000
2	14:10:23	865.900	2227.000	14.210	126.500	3158.000
3	14:10:26	865.900	2397.000	15.580	124.600	3163.000
x		872.900	2347.000	13.900	125.200	3160.000
σ		12.110	105.300	1.852	1.134	2.152

36.2312/07/2018 14:12:30

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:12:33	1504.000	3034.000	15.580	97.060	5435.000

2	14:12:37	1530.000	3100.000	14.670	98.040	5377.000
3	14:12:40	1446.000	3034.000	16.500	79.380	5393.000
x		1494.000	3056.000	15.580	91.490	5402.000
σ		42.940	38.250	0.917	10.500	30.030

36.2412/07/2018 14:14:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:14:49	928.800	2081.000	7.334	66.610	1310.000
2	14:14:52	923.600	2204.000	9.625	77.420	1303.000
3	14:14:56	921.800	2113.000	6.417	71.030	1299.000
x		924.700	2133.000	7.792	71.690	1304.000
σ		3.639	63.890	1.653	5.431	5.724

36.2512/07/2018 14:16:59

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:17:02	675.300	2182.000	11.460	49.430	489.200
2	14:17:05	666.600	2457.000	11.920	56.300	490.900
3	14:17:09	733.000	2498.000	4.125	62.200	505.700
x		691.600	2379.000	9.167	55.980	495.300
σ		36.100	171.500	4.372	6.390	9.058

36.2612/07/2018 14:19:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:19:13	804.700	2359.000	4.583	39.120	658.700
2	14:19:17	736.500	2435.000	1.833	44.520	688.000
3	14:19:21	752.200	2498.000	6.417	44.030	679.100
x		764.500	2430.000	4.278	42.550	675.300
σ		35.700	69.490	2.307	2.987	15.040

36.2712/07/2018 14:22:28

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:22:31	850.100	2340.000	8.709	39.120	684.200
2	14:22:35	705.000	2242.000	4.583	44.520	689.200
3	14:22:38	881.600	2309.000	5.042	44.030	694.600

x	812.300	2297.000	6.111	42.550	689.300
σ	94.180	49.910	2.261	2.987	5.212

36.2812/07/2018 14:24:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:24:41	1581.000	3050.000	10.540	32.240	1218.000
2	14:24:45	1577.000	2949.000	14.210	24.390	1205.000
3	14:24:49	1611.000	2895.000	6.417	36.170	1171.000
x		1590.000	2965.000	10.390	30.930	1198.000
σ		18.260	78.480	3.898	6.000	23.750

36.3112/07/2018 14:26:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:26:54	2419.000	3930.000	25.670	18.990	2150.000
2	14:26:57	2464.000	3864.000	18.330	33.230	2152.000
3	14:27:01	2324.000	3876.000	16.960	25.370	2129.000
x		2402.000	3890.000	20.320	25.860	2144.000
σ		71.370	35.180	4.682	7.132	12.890

36.3412/07/2018 14:29:03

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:29:06	1223.000	2441.000	5.959	19.970	711.400
2	14:29:10	1063.000	2460.000	12.830	21.440	709.200
3	14:29:13	1209.000	2605.000	10.540	18.490	727.300
x		1165.000	2502.000	9.778	19.970	716.000
σ		88.100	89.740	3.501	1.473	9.857

36.3512/07/2018 14:31:17

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:31:20	14140.000	3025.000	198.000	24.390	2087.000
2	14:31:23	14080.000	2996.000	214.100	18.000	2108.000
3	14:31:27	13670.000	2886.000	187.900	21.930	2051.000
x		13970.000	2969.000	200.000	21.440	2082.000
σ		257.900	73.330	13.180	3.220	28.810

36.3612/07/2018 14:33:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:33:32	986.500	3160.000	11.920	21.440	718.200
2	14:33:36	970.800	3151.000	12.380	14.570	710.000
3	14:33:39	937.500	3028.000	10.540	11.130	730.900
X		964.900	3113.000	11.610	15.710	719.700
σ		24.990	73.910	0.954	5.250	10.500

36.3712/07/2018 14:35:43

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:35:46	1875.000	3984.000	12.830	17.020	1864.000
2	14:35:50	1920.000	3933.000	21.540	18.490	1846.000
3	14:35:53	1768.000	3965.000	16.500	22.420	1860.000
X		1854.000	3960.000	16.960	19.310	1857.000
σ		78.090	25.500	4.372	2.792	9.350

36.3812/07/2018 14:37:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:38:01	1306.000	3047.000	10.080	16.530	2077.000
2	14:38:05	1347.000	3119.000	7.334	10.150	2120.000
3	14:38:09	1310.000	3009.000	9.167	13.090	2085.000
X		1321.000	3058.000	8.861	13.260	2094.000
σ		22.280	56.110	1.400	3.195	23.070

36.3912/07/2018 14:40:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:40:16	1376.000	3621.000	11.000	18.990	1721.000
2	14:40:20	1392.000	3343.000	15.580	16.040	1733.000
3	14:40:23	1348.000	3334.000	15.130	8.183	1706.000
X		1372.000	3433.000	13.900	14.400	1720.000
σ		22.140	163.100	2.524	5.584	13.340

36.4012/07/2018 14:42:28

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:42:31	1467.000	2920.000	9.625	13.090	1111.000
2	14:42:35	1537.000	2842.000	9.167	12.110	1065.000
3	14:42:38	1378.000	3025.000	16.040	15.060	1103.000
x		1461.000	2929.000	11.610	13.420	1093.000
σ		79.750	91.770	3.844	1.500	24.280

36.4112/07/2018 14:44:41

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:44:44	1210.000	2902.000	15.130	15.060	920.500
2	14:44:47	1163.000	2738.000	11.920	11.620	917.600
3	14:44:51	1114.000	2804.000	11.460	13.090	916.500
x		1162.000	2814.000	12.830	13.260	918.200
σ		48.080	82.520	1.998	1.724	2.037

37.2212/07/2018 14:46:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:46:56	1495.000	3365.000	10.540	8.674	965.900
2	14:46:59	1553.000	3223.000	10.080	13.090	965.700
3	14:47:03	1565.000	3299.000	11.460	11.620	959.500
x		1538.000	3296.000	10.690	11.130	963.700
σ		37.350	71.030	0.700	2.250	3.628

37.2412/07/2018 14:49:05

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:49:08	1322.000	2542.000	11.000	16.530	1524.000
2	14:49:12	1296.000	2580.000	16.960	14.080	1481.000
3	14:49:15	1284.000	2857.000	12.830	18.000	1509.000
x		1301.000	2660.000	13.600	16.200	1505.000
σ		19.650	172.200	3.052	1.984	21.890

37.2512/07/2018 14:51:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	14:51:21	981.200	2381.000	10.080	7.692	2414.000
2	14:51:25	988.200	2072.000	10.540	9.656	2406.000
3	14:51:29	990.000	2245.000	8.250	13.580	2439.000
x		986.500	2233.000	9.625	10.310	2419.000
σ		4.626	154.900	1.213	3.000	17.300

37.2612/07/2018 14:53:32

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:53:35	834.400	2842.000	2.750	6.219	611.900
2	14:53:39	853.600	2655.000	6.875	7.692	571.200
3	14:53:42	871.100	2835.000	5.500	9.656	568.400
x		853.000	2777.000	5.042	7.856	583.800
σ		18.360	105.700	2.100	1.724	24.340

37.2712/07/2018 14:55:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:55:49	2583.000	3419.000	4.583	9.656	832.800
2	14:55:52	2753.000	3413.000	10.080	6.219	805.000
3	14:55:56	2700.000	3558.000	6.417	9.656	793.900
x		2679.000	3463.000	7.028	8.511	810.600
σ		86.860	82.020	2.801	1.984	20.050

37.2812/07/2018 14:58:00

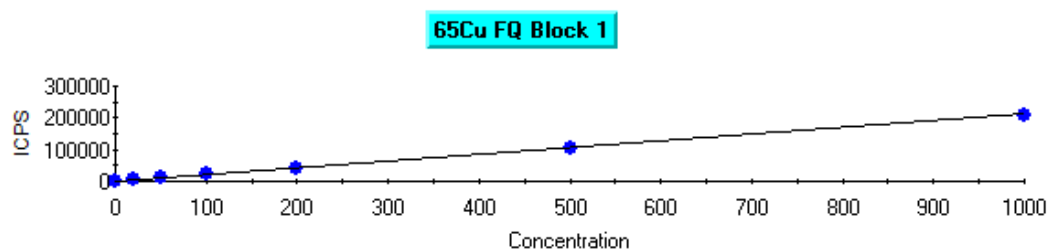
User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:58:04	1492.000	2570.000	5.500	9.656	900.400
2	14:58:07	1494.000	2397.000	8.250	5.237	872.400
3	14:58:11	1434.000	2378.000	10.540	5.728	875.500
x		1473.000	2448.000	8.098	6.874	882.700
σ		33.830	106.000	2.524	2.422	15.350

6.1.9 Batch 37.29 – 39.33 and control soil (digested on ETHOS EZ) without cooling

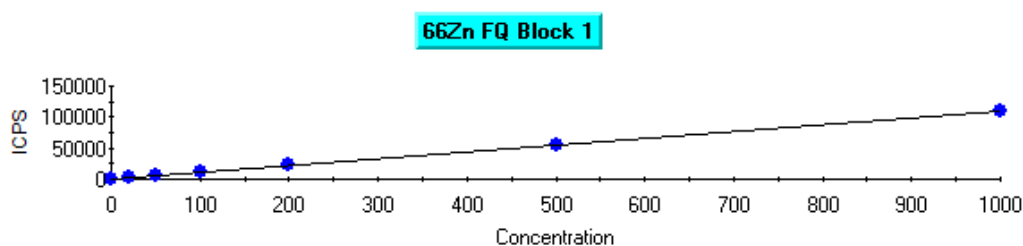
*It was noted that cooling was turned off for the previous noted batches and cooling was not employed for this batch.

Fully Quant Calibration



Intercept CPS=141.334438 Intercept Conc=0.670751
Sensitivity=210.710591 Correlation Coeff=0.999978

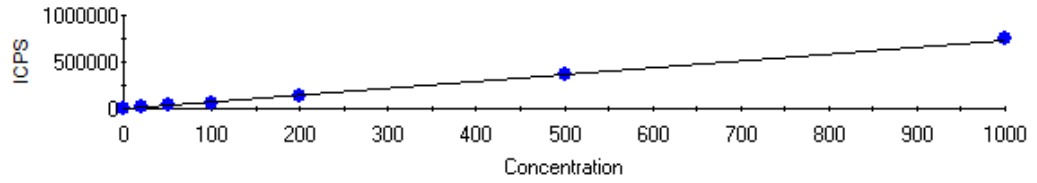
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	141.33	0.00
20ppb	20.000	21.508	1.508	4673.20	7.54
50ppb	50.000	49.462	0.538	10563.47	1.08
100ppb	100.000	98.378	1.622	20870.60	1.62
200ppb	200.000	202.117	2.117	42729.52	1.06
500ppb	500.000	504.635	4.635	106473.33	0.93
1ppm	1000.000	997.418	2.582	210307.86	0.26



Intercept CPS=93.333847 Intercept Conc=0.857654
Sensitivity=108.824537 Correlation Coeff=0.999940

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	93.33	0.00
20ppb	20.000	24.140	4.140	2720.41	20.70
50ppb	50.000	52.113	2.113	5764.49	4.23
100ppb	100.000	105.264	5.264	11548.67	5.26
200ppb	200.000	204.667	4.667	22366.15	2.33
500ppb	500.000	508.406	8.406	55420.43	1.68
1ppm	1000.000	994.148	5.852	108281.08	0.59

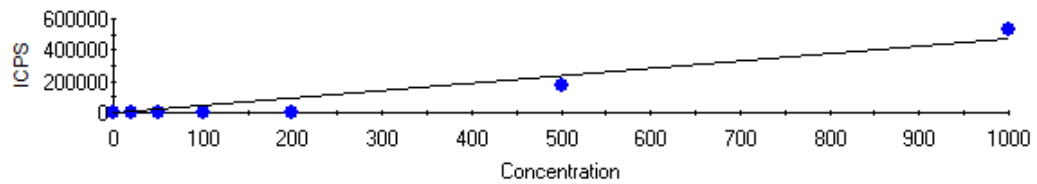
107Ag FQ Block 1



Intercept CPS=4.000003 Intercept Conc=0.005408
Sensitivity=739.688675 Correlation Coeff=0.999833

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	4.00	0.00
20ppb	20.000	15.396	4.604	11392.47	23.02
50ppb	50.000	41.688	8.312	30840.23	16.62
100ppb	100.000	79.170	20.830	58565.39	20.83
200ppb	200.000	192.047	7.953	142058.88	3.98
500ppb	500.000	498.341	1.659	368621.05	0.33
1ppm	1000.000	1005.011	5.011	743399.15	0.50

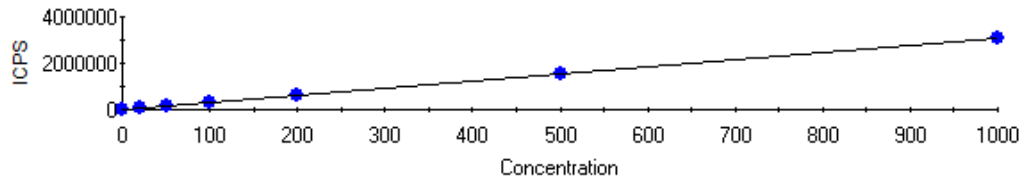
202Hg FQ Block 1



Intercept CPS=9.333338 Intercept Conc=0.019555
Sensitivity=477.293345 Correlation Coeff=0.978081

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	9.33	0.00
20ppb	20.000	0.036	19.964	26.67	99.82
50ppb	50.000	0.134	49.866	73.33	99.73
100ppb	100.000	0.229	99.771	118.67	99.77
200ppb	200.000	9.408	190.592	4499.78	95.30
500ppb	500.000	373.831	126.169	178436.20	25.23
1ppm	1000.000	1114.073	114.073	531748.83	11.41

208Pb FQ Block 1



Intercept CPS=229.336232 Intercept Conc=0.074547
Sensitivity=3076.417851 Correlation Coeff=0.999972

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	229.34	0.00
20ppb	20.000	20.771	0.771	64129.42	3.85
50ppb	50.000	47.281	2.719	145686.25	5.44
100ppb	100.000	95.063	4.937	292682.41	4.94
200ppb	200.000	193.799	6.201	596437.51	3.10
500ppb	500.000	498.815	1.185	1534793.62	0.24
1ppm	1000.000	1002.447	2.447	3084174.22	0.24

Dilution Corrected Concentrations

blank01/08/2018 12:26:29

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:26:29	-0.025	0.061	-0.005	0.006	0.003
2	12:26:33	-0.044	0.245	-0.005	-0.003	-0.004
3	12:26:36	0.070	-0.306	0.011	-0.003	0.001
x		0.000	0.000	0.000	-0.000	-0.000
σ		0.061	0.281	0.009	0.005	0.004

20ppb01/08/2018 12:28:24

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:28:24	22.290	24.690	15.750	0.039	21.040
2	12:28:27	21.030	23.480	15.030	0.022	20.630
3	12:28:31	21.200	24.250	15.420	0.047	20.640
x		21.510	24.140	15.400	0.036	20.770
σ		0.680	0.614	0.361	0.013	0.234

50ppb01/08/2018 12:30:19

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:30:19	50.160	53.490	41.670	0.148	46.770
2	12:30:23	49.250	50.360	41.350	0.148	46.950
3	12:30:26	48.980	52.490	42.040	0.106	48.130
x		49.460	52.110	41.690	0.134	47.280
σ		0.618	1.597	0.345	0.024	0.740

100ppb01/08/2018 12:32:14

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:32:14	97.620	103.000	79.230	0.232	94.060
2	12:32:18	99.150	104.700	78.150	0.249	95.630
3	12:32:21	98.370	108.100	80.130	0.207	95.500
x		98.380	105.300	79.170	0.229	95.060
σ		0.761	2.574	0.992	0.021	0.873

200ppb01/08/2018 12:34:09

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:34:09	203.100	206.400	195.600	9.268	193.700
2	12:34:13	201.800	202.900	191.300	9.444	193.500
3	12:34:16	201.400	204.700	189.200	9.512	194.200
x		202.100	204.700	192.000	9.408	193.800
σ		0.918	1.750	3.270	0.126	0.392

500ppb01/08/2018 12:36:05

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:36:05	496.300	508.400	499.000	384.500	497.400
2	12:36:09	513.000	515.000	499.900	370.300	501.200
3	12:36:12	504.700	501.800	496.100	366.700	497.900
x		504.600	508.400	498.300	373.800	498.800
σ		8.364	6.601	2.015	9.397	2.096

1ppm01/08/2018 12:38:01

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	12:38:01	1005.000	1001.000	1011.000	1156.000	989.700
2	12:38:05	1008.000	996.700	1011.000	1106.000	1012.000
3	12:38:09	979.300	984.600	993.500	1081.000	1005.000
x		997.400	994.100	1005.000	1114.000	1002.000
σ		15.800	8.569	10.010	38.080	11.590

blank01/08/2018 12:40:11

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:40:14	-0.196	-0.012	0.757	6.694	0.715
2	12:40:18	-0.044	0.502	0.860	6.510	0.767
3	12:40:21	-0.044	0.025	0.535	6.225	0.727
x		-0.095	0.172	0.717	6.477	0.736
σ		0.088	0.287	0.166	0.237	0.027

37.2901/08/2018 12:42:25

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:42:29	1091.000	2844.000	37.310	796.900	760.400
2	12:42:32	1129.000	2866.000	47.050	850.500	763.700
3	12:42:36	1013.000	2910.000	41.640	913.400	750.800
x		1078.000	2874.000	42.000	853.600	758.300
σ		59.050	33.700	4.877	58.330	6.711

37.3101/08/2018 12:44:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:44:43	1313.000	2532.000	28.120	547.900	1392.000
2	12:44:47	1359.000	2657.000	28.660	575.600	1365.000
3	12:44:50	1416.000	2701.000	24.880	689.600	1358.000
x		1363.000	2630.000	27.220	604.300	1372.000
σ		51.380	87.730	2.047	75.100	18.170

37.3201/08/2018 12:46:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:46:58	1306.000	2859.000	17.850	217.600	1312.000
2	12:47:01	1241.000	2642.000	19.470	236.100	1322.000

3	12:47:05	1214.000	2631.000	12.980	262.100	1320.000
x		1254.000	2711.000	16.760	238.600	1318.000
σ		46.870	128.600	3.377	22.320	5.506

37.3301/08/2018 12:49:09

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:49:12	1205.000	2907.000	15.140	160.600	977.900
2	12:49:15	1237.000	2782.000	17.300	140.500	981.600
3	12:49:19	1237.000	2587.000	17.300	147.200	984.600
x		1227.000	2758.000	16.580	149.500	981.400
σ		18.640	161.200	1.249	10.240	3.332

37.3401/08/2018 12:51:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:51:25	1042.000	2602.000	14.060	96.100	574.300
2	12:51:28	990.400	2921.000	9.734	78.500	580.300
3	12:51:32	999.900	2638.000	12.440	91.910	577.700
x		1011.000	2720.000	12.080	88.840	577.400
σ		27.280	175.000	2.186	9.194	3.005

37.3501/08/2018 12:53:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:53:37	1059.000	2774.000	16.220	71.800	869.100
2	12:53:41	1118.000	2848.000	10.820	72.630	885.400
3	12:53:44	1091.000	2719.000	16.220	71.800	894.300
x		1089.000	2781.000	14.420	72.070	883.000
σ		29.480	64.560	3.122	0.484	12.770

37.3601/08/2018 12:55:46

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:55:49	984.700	2462.000	21.630	50.000	1008.000
2	12:55:53	880.300	2407.000	25.420	44.140	982.100
3	12:55:56	931.600	2499.000	18.930	52.520	988.600
x		932.200	2456.000	21.990	48.890	992.800

σ 52.220 46.260 3.260 4.301 13.290

37.3801/08/2018 12:57:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	12:58:01	1114.000	2907.000	13.520	47.490	1005.000
2	12:58:05	1118.000	2859.000	11.900	50.840	1022.000
3	12:58:08	1159.000	3017.000	9.734	40.790	1006.000
x		1130.000	2928.000	11.720	46.370	1011.000
σ		25.290	81.090	1.899	5.121	9.841

37.3901/08/2018 13:00:11

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:00:14	1123.000	2671.000	9.734	41.620	1506.000
2	13:00:17	1123.000	2778.000	15.680	42.460	1509.000
3	13:00:21	1110.000	2499.000	14.060	39.950	1525.000
x		1119.000	2649.000	13.160	41.340	1514.000
σ		7.674	141.000	3.075	1.280	10.160

37.4001/08/2018 13:02:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:02:26	1036.000	2774.000	14.600	33.240	1294.000
2	13:02:30	1186.000	2627.000	13.520	29.890	1302.000
3	13:02:33	1165.000	2859.000	11.360	39.110	1284.000
x		1129.000	2754.000	13.160	34.080	1293.000
σ		81.250	117.200	1.652	4.666	9.012

37.4101/08/2018 13:04:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:04:39	1385.000	3138.000	17.300	29.050	1140.000
2	13:04:42	1319.000	2925.000	9.193	29.890	1146.000
3	13:04:46	1421.000	3098.000	14.060	38.270	1165.000
x		1375.000	3054.000	13.520	32.410	1150.000
σ		52.020	113.300	4.083	5.098	12.760

38.2201/08/2018 13:07:47

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:07:51	897.400	1988.000	9.734	29.890	937.500
2	13:07:54	944.900	1840.000	16.760	19.000	929.700
3	13:07:57	946.800	1763.000	8.652	24.860	923.100
x		929.700	1864.000	11.720	24.580	930.100
σ		27.970	113.900	4.404	5.453	7.184

38.2301/08/2018 13:10:01

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:10:04	2179.000	2322.000	15.140	19.830	1774.000
2	13:10:08	2151.000	2090.000	15.140	15.640	1783.000
3	13:10:11	2141.000	2271.000	11.360	29.890	1752.000
x		2157.000	2228.000	13.880	21.790	1770.000
σ		19.770	121.600	2.186	7.322	15.980

38.2401/08/2018 13:12:15

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:12:19	1366.000	2616.000	15.140	18.160	1078.000
2	13:12:22	1395.000	2274.000	8.112	30.730	1078.000
3	13:12:25	1401.000	2624.000	10.820	16.480	1092.000
x		1387.000	2505.000	11.360	21.790	1083.000
σ		18.310	199.600	3.546	7.787	8.100

38.2601/08/2018 13:14:30

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:14:33	910.700	2462.000	7.030	17.320	667.700
2	13:14:37	872.700	2300.000	8.112	28.210	701.900
3	13:14:40	918.300	2451.000	14.060	18.160	669.800
x		900.600	2404.000	9.734	21.230	679.800
σ		24.410	90.390	3.785	6.063	19.140

38.2701/08/2018 13:16:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	13:16:49	2318.000	3433.000	9.734	20.670	2323.000
2	13:16:52	2348.000	3517.000	14.060	19.000	2276.000
3	13:16:56	2286.000	3304.000	13.520	19.830	2226.000
X		2317.000	3418.000	12.440	19.830	2275.000
σ		31.340	107.400	2.357	0.838	48.290

38.2801/08/2018 13:19:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:19:04	2962.000	3558.000	14.600	24.020	2245.000
2	13:19:07	2863.000	3797.000	16.220	22.350	2245.000
3	13:19:11	2871.000	3587.000	15.680	18.160	2226.000
X		2899.000	3647.000	15.500	21.510	2239.000
σ		54.970	130.300	0.826	3.022	11.270

38.3201/08/2018 13:21:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:21:16	1589.000	2907.000	10.820	16.480	1265.000
2	13:21:20	1594.000	2870.000	13.520	18.160	1277.000
3	13:21:23	1568.000	2966.000	9.734	10.620	1283.000
X		1584.000	2914.000	11.360	15.090	1275.000
σ		14.000	48.220	1.950	3.961	8.834

38.3301/08/2018 13:23:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:23:30	1761.000	3936.000	12.980	14.810	1708.000
2	13:23:33	1790.000	4087.000	8.112	13.130	1720.000
3	13:23:37	1822.000	3741.000	11.900	18.160	1753.000
X		1791.000	3922.000	11.000	15.360	1727.000
σ		30.410	173.300	2.556	2.560	23.180

38.3401/08/2018 13:25:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:25:43	1699.000	3580.000	13.520	12.290	1878.000

2	13:25:46	1742.000	3683.000	11.900	11.450	1887.000
3	13:25:49	1761.000	3447.000	14.060	15.640	1883.000
x		1734.000	3570.000	13.160	13.130	1883.000
σ		32.140	118.000	1.126	2.217	4.610

38.3601/08/2018 13:27:53

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:27:56	671.400	3006.000	8.112	11.450	517.600
2	13:27:59	692.300	3039.000	7.571	12.290	511.000
3	13:28:03	713.200	2903.000	8.652	17.320	529.400
x		692.300	2983.000	8.112	13.690	519.300
σ		20.890	70.950	0.541	3.173	9.299

38.3701/08/2018 13:30:06

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:30:10	717.000	1984.000	9.734	13.130	557.600
2	13:30:13	618.300	2322.000	6.489	12.290	546.600
3	13:30:17	737.900	2252.000	11.900	6.425	538.900
x		691.100	2186.000	9.373	10.620	547.700
σ		63.890	178.600	2.722	3.653	9.430

38.3801/08/2018 13:32:21

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:32:25	1070.000	2914.000	62.730	12.290	783.700
2	13:32:28	1106.000	2995.000	47.590	9.777	787.900
3	13:32:31	1129.000	2944.000	42.720	8.939	796.400
x		1102.000	2951.000	51.010	10.340	789.300
σ		29.680	40.950	10.440	1.745	6.444

38.3901/08/2018 13:34:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:34:37	751.200	2852.000	5.948	13.130	568.300
2	13:34:41	859.400	2811.000	12.980	12.290	560.400
3	13:34:44	770.200	2693.000	10.270	9.777	558.800

X	793.600	2785.000	9.734	11.730	562.500
σ	57.790	82.140	3.546	1.745	5.100

38.4001/08/2018 13:36:49

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:36:52	1420.000	2907.000	14.600	4.749	1219.000
2	13:36:55	1351.000	3072.000	12.440	12.290	1220.000
3	13:36:59	1273.000	3013.000	8.112	8.101	1197.000
X		1348.000	2997.000	11.720	8.381	1212.000
σ		73.160	83.880	3.304	3.779	12.890

38.4101/08/2018 13:39:03

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:39:06	1063.000	2157.000	9.734	4.749	1095.000
2	13:39:09	1233.000	2425.000	11.900	8.939	1109.000
3	13:39:13	1167.000	2304.000	11.360	18.160	1099.000
X		1154.000	2295.000	11.000	10.620	1101.000
σ		86.150	134.400	1.126	6.860	7.058

39.2201/08/2018 13:42:17

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:42:20	641.100	1999.000	7.571	8.939	316.700
2	13:42:24	671.400	1829.000	8.652	6.425	312.200
3	13:42:27	730.300	1954.000	8.112	9.777	328.800
X		680.900	1928.000	8.112	8.381	319.300
σ		45.370	87.720	0.541	1.745	8.611

39.2301/08/2018 13:44:32

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:44:36	1148.000	2138.000	9.193	6.425	1148.000
2	13:44:39	1127.000	2252.000	10.820	6.425	1119.000
3	13:44:43	1239.000	2344.000	17.300	12.290	1141.000
X		1171.000	2245.000	12.440	8.381	1136.000
σ		59.580	103.100	4.292	3.387	14.980

39.2701/08/2018 13:46:48

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:46:51	1609.000	2583.000	14.600	6.425	1707.000
2	13:46:54	1613.000	2506.000	11.900	3.911	1683.000
3	13:46:58	1613.000	2690.000	9.734	3.073	1680.000
X		1612.000	2593.000	12.080	4.470	1690.000
σ		2.193	92.310	2.438	1.745	14.450

39.2801/08/2018 13:49:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:49:03	1146.000	1885.000	11.360	8.939	743.100
2	13:49:07	1108.000	1763.000	8.112	6.425	752.700
3	13:49:10	1139.000	1800.000	13.520	5.587	753.500
X		1131.000	1816.000	11.000	6.984	749.800
σ		20.100	62.210	2.722	1.745	5.808

39.2901/08/2018 13:51:12

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:51:16	1987.000	3028.000	8.652	8.939	1567.000
2	13:51:19	1982.000	2793.000	10.270	7.263	1589.000
3	13:51:23	2160.000	3094.000	10.270	6.425	1597.000
X		2043.000	2972.000	9.734	7.543	1584.000
σ		101.500	158.500	0.937	1.280	15.230

39.3001/08/2018 13:53:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:53:31	2058.000	3087.000	14.600	6.425	1656.000
2	13:53:34	2109.000	3028.000	11.900	3.911	1642.000
3	13:53:38	2029.000	3105.000	10.270	8.939	1720.000
X		2065.000	3073.000	12.260	6.425	1673.000
σ		40.420	40.340	2.186	2.514	41.740

39.3101/08/2018 13:55:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:55:43	1739.000	2543.000	10.270	7.263	1270.000
2	13:55:46	1754.000	3032.000	7.030	3.073	1281.000
3	13:55:50	1649.000	2690.000	12.440	6.425	1296.000
X		1714.000	2755.000	9.914	5.587	1282.000
σ		56.430	250.900	2.722	2.217	13.050

39.3201/08/2018 13:57:54

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	13:57:57	2443.000	3955.000	17.850	5.587	1871.000
2	13:58:01	2365.000	3918.000	21.090	6.425	1893.000
3	13:58:04	2335.000	4032.000	16.760	7.263	1891.000
X		2381.000	3968.000	18.570	6.425	1885.000
σ		55.840	58.180	2.251	0.838	12.050

39.3301/08/2018 14:00:09

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:00:12	1845.000	3683.000	11.900	6.425	1376.000
2	14:00:15	1813.000	3495.000	10.820	3.911	1380.000
3	14:00:19	1832.000	3650.000	8.112	6.425	1393.000
X		1830.000	3609.000	10.270	5.587	1383.000
σ		16.230	100.100	1.950	1.452	8.672

Control soil01/08/2018 14:02:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:02:27	198.700	851.600	4.326	6.425	151.100
2	14:02:30	170.200	884.700	2.704	3.073	150.800
3	14:02:34	179.700	895.700	3.245	5.587	146.300
X		182.900	877.300	3.425	5.028	149.400
σ		14.500	22.960	0.826	1.745	2.707

Mass Uncorrected ICPS

blank01/08/2018 12:26:29

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:26:29	136.001	100.001	0.000	12.000	240.003
2	12:26:33	132.001	120.001	0.000	8.000	216.003
3	12:26:36	156.001	60.000	12.000	8.000	232.003
X		141.334	93.334	4.000	9.333	229.336
σ		12.858	30.551	6.928	2.309	12.221

20ppb01/08/2018 12:28:24

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:28:24	4837.287	2780.425	11651.462	28.000	64959.258
2	12:28:27	4573.150	2648.386	11118.795	20.000	63690.326
3	12:28:31	4609.168	2732.411	11407.152	32.000	63738.663
X		4673.202	2720.407	11392.470	26.667	64129.416
σ		143.238	66.833	266.637	6.110	719.070

50ppb01/08/2018 12:30:19

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:30:19	10710.305	5913.923	30828.182	80.000	144101.100
2	12:30:23	10518.081	5573.708	30591.384	80.000	144661.900
3	12:30:26	10462.016	5805.853	31101.109	60.000	148295.750
X		10563.468	5764.495	30840.225	73.334	145686.250
σ		130.218	173.837	255.076	11.547	2277.224

100ppb01/08/2018 12:32:14

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:32:14	20711.566	11307.027	58608.314	120.001	289592.190
2	12:32:18	21032.302	11483.248	57811.235	128.001	294436.110
3	12:32:21	20867.923	11855.726	59276.627	108.001	294018.930
X		20870.597	11548.667	58565.392	118.667	292682.410
σ		160.384	280.138	733.638	10.067	2684.328

200ppb01/08/2018 12:34:09

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:34:09	42945.197	22555.948	144702.540	4433.081	596167.240
2	12:34:13	42671.915	22175.012	141516.980	4517.122	595390.750
3	12:34:16	42571.445	22367.483	139957.110	4549.138	597754.550

X	42729.519	22366.148	142058.880	4499.780	596437.510
σ	193.420	190.471	2418.682	59.941	1204.857

500ppb01/08/2018 12:36:05

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:36:05	104707.550	55416.390	369128.970	183521.910	1530357.500
2	12:36:09	108232.470	56140.815	369791.080	176741.530	1542189.400
3	12:36:12	106479.960	54704.096	366943.100	175045.170	1531834.000
X		106473.330	55420.434	368621.050	178436.200	1534793.600
σ		1762.471	718.368	1490.385	4485.274	6447.319

1 ppm01/08/2018 12:38:01

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:38:01	211880.700	109042.060	747549.900	551610.300	3045102.400
2	12:38:05	212560.290	108560.350	747797.030	527691.240	3114992.500
3	12:38:09	206482.600	107240.820	734850.530	515944.950	3092427.800
X		210307.860	108281.080	743399.150	531748.830	3084174.200
σ		3330.156	932.527	7404.355	18175.594	35668.594

blank01/08/2018 12:40:11

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:40:14	100.001	92.000	564.018	3204.565	2428.324
2	12:40:18	132.001	148.001	640.023	3116.534	2588.368
3	12:40:21	132.001	96.001	400.009	2980.488	2464.334
X		121.334	112.001	534.683	3100.529	2493.676
σ		18.475	31.241	122.666	112.892	83.960

37.29001/08/2018 12:42:25

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:42:29	2440.328	3188.559	280.004	3812.799	23622.652
2	12:42:32	2520.349	3212.568	352.007	4068.910	23722.912
3	12:42:36	2276.285	3260.585	312.005	4369.050	23325.887
X		2412.321	3220.570	314.672	4083.587	23557.150
σ		124.419	36.674	36.075	278.415	206.459

37.3101/08/2018 12:44:40

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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1	12:44:43	2908.465	2848.446	212.002	2624.379	43065.765
2	12:44:47	3004.496	2984.490	216.003	2756.418	42221.820
3	12:44:50	3124.537	3032.506	188.002	3300.599	42008.837
X		3012.500	2955.147	205.336	2893.799	42432.141
σ		108.258	95.474	15.144	358.432	558.973

37.3201/08/2018 12:46:55

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:46:58	2892.460	3204.565	136.001	1048.060	40578.362
2	12:47:01	2756.418	2968.485	148.001	1136.071	40895.779
3	12:47:05	2700.401	2956.481	100.001	1260.087	40839.527
X		2783.093	3043.177	128.001	1148.073	40771.223
σ		98.769	139.895	24.980	106.522	169.374

37.3301/08/2018 12:49:09

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:49:12	2680.395	3256.583	116.001	776.033	30314.459
2	12:49:15	2748.415	3120.536	132.001	680.025	30426.834
3	12:49:19	2748.415	2908.465	132.001	712.028	30519.142
X		2725.742	3095.195	126.668	722.695	30420.145
σ		39.272	175.437	9.238	48.885	102.505

37.3401/08/2018 12:51:21

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:51:25	2336.300	2924.470	108.001	468.012	17897.601
2	12:51:28	2228.273	3272.589	76.000	384.008	18081.965
3	12:51:32	2248.278	2964.483	96.001	448.011	18001.806
X		2270.950	3053.848	93.334	433.344	17993.790
σ		57.472	190.489	16.166	43.881	92.443

37.3501/08/2018 12:53:34

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:53:37	2372.310	3112.533	124.001	352.007	26967.941
2	12:53:41	2496.343	3192.561	84.000	356.007	27469.439
3	12:53:44	2440.328	3052.512	124.001	352.007	27742.265
X		2436.327	3119.202	110.667	353.340	27393.215
σ		62.113	70.262	23.094	2.309	392.750

37.3601/08/2018 12:55:46

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:55:49	2216.270	2772.423	164.001	248.003	31229.549
2	12:55:53	1996.219	2712.405	192.002	220.003	30442.887
3	12:55:56	2104.244	2812.435	144.001	260.004	30643.560
X		2105.578	2765.754	166.668	242.670	30771.998
σ		110.032	50.348	24.111	20.527	408.756

37.3801/08/2018 12:57:58

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	12:58:01	2488.341	3256.583	104.001	236.003	31145.260
2	12:58:05	2496.343	3204.565	92.000	252.003	31683.114
3	12:58:08	2584.367	3376.627	76.000	204.002	31173.356
X		2523.017	3279.258	90.667	230.670	31333.910
σ		53.281	88.244	14.048	24.441	302.746

37.3901/08/2018 13:00:11

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:00:14	2508.346	3000.495	76.000	208.002	46570.982
2	13:00:17	2508.346	3116.534	120.001	212.002	46667.475
3	13:00:21	2480.338	2812.435	108.001	200.002	47153.976
X		2499.010	2976.488	101.334	206.669	46797.478
σ		16.170	153.464	22.745	6.110	312.483

37.4001/08/2018 13:02:23

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:02:26	2324.297	3112.533	112.001	168.002	40027.929
2	13:02:30	2640.383	2952.479	104.001	152.001	40297.115
3	13:02:33	2596.371	3204.565	88.000	196.002	39742.682
X		2520.350	3089.859	101.334	172.002	40022.575
σ		171.207	127.563	12.220	22.271	277.255

37.4101/08/2018 13:04:36

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:04:39	3060.515	3508.677	132.001	148.001	35312.450
2	13:04:42	2920.469	3276.590	72.000	152.001	35477.090

3	13:04:46	3136.541	3464.660	108.001	192.002	36059.374
x		3039.175	3416.643	104.001	164.002	35616.305
σ		109.605	123.269	30.200	24.332	392.440

38.2201/08/2018 13:07:47

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:07:51	2032.227	2256.280	76.000	152.001	29070.406
2	13:07:54	2132.250	2096.242	128.001	100.001	28829.641
3	13:07:57	2136.251	2012.223	68.000	128.001	28629.008
x		2100.243	2121.581	90.667	126.668	28843.018
σ		58.937	123.986	32.578	26.026	221.003

38.2301/08/2018 13:10:01

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:10:04	4733.232	2620.378	116.001	104.001	54800.675
2	13:10:08	4673.201	2368.308	116.001	84.000	55086.394
3	13:10:11	4653.191	2564.362	88.000	152.001	54128.667
x		4686.541	2517.683	106.667	113.334	54671.912
σ		41.655	132.359	16.166	34.948	491.676

38.2401/08/2018 13:12:15

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:12:19	3020.502	2940.476	116.001	96.001	33405.263
2	13:12:22	3080.522	2568.363	64.000	156.001	33401.248
3	13:12:25	3092.526	2948.478	84.000	88.000	33834.847
x		3064.517	2819.105	88.000	113.334	33547.119
σ		38.588	217.186	26.230	37.167	249.188

38.2601/08/2018 13:14:30

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:14:33	2060.233	2772.423	56.000	92.000	20771.703
2	13:14:37	1980.216	2596.371	64.000	144.001	21822.160
3	13:14:40	2076.237	2760.419	108.001	96.001	20835.850
x		2038.895	2709.738	76.000	110.667	21143.238
σ		51.444	98.362	28.000	28.937	588.838

38.2701/08/2018 13:16:45

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:16:49	5025.389	3828.806	76.000	108.001	71689.556
2	13:16:52	5089.424	3920.845	108.001	100.001	70238.294
3	13:16:56	4957.351	3688.748	104.001	104.001	68718.747
X		5024.055	3812.800	96.001	104.001	70215.532
σ		66.047	116.874	17.436	4.000	1485.536

38.2801/08/2018 13:19:00

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:19:04	6382.240	3964.864	112.001	124.001	69307.189
2	13:19:07	6174.096	4224.981	124.001	116.001	69299.127
3	13:19:11	6190.107	3996.878	120.001	96.001	68702.626
X		6248.814	4062.242	118.667	112.001	69102.980
σ		115.827	141.843	6.110	14.422	346.741

38.3201/08/2018 13:21:13

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:21:16	3488.669	3256.583	84.000	88.000	39152.128
2	13:21:20	3500.674	3216.569	104.001	96.001	39505.652
3	13:21:23	3444.653	3320.606	76.000	60.000	39686.437
X		3477.999	3264.586	88.000	81.334	39448.072
σ		29.496	52.478	14.422	18.903	271.769

38.3301/08/2018 13:23:26

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:23:30	3852.816	4377.054	100.001	80.000	52764.683
2	13:23:33	3912.842	4541.134	64.000	72.000	53142.876
3	13:23:37	3980.871	4164.954	92.000	96.001	54144.762
X		3915.510	4361.047	85.334	82.667	53350.774
σ		64.069	188.600	18.903	12.220	713.141

38.3401/08/2018 13:25:39

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:25:43	3720.761	3988.875	104.001	68.000	58000.434
2	13:25:46	3812.799	4100.925	92.000	64.000	58282.228
3	13:25:49	3852.816	3844.813	108.001	84.000	58169.510
X		3795.459	3978.204	101.334	72.000	58150.724

σ 67.714 128.389 8.327 10.583 141.833

38.3601/08/2018 13:27:53

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:27:56	1556.133	3364.622	64.000	64.000	16154.340
2	13:27:59	1600.141	3400.636	60.000	68.000	15949.980
3	13:28:03	1644.149	3252.582	68.000	92.000	16514.987
x		1600.141	3339.280	64.000	74.667	16206.436
σ		44.008	77.212	4.000	15.144	286.084

38.3701/08/2018 13:30:06

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:30:10	1652.150	2252.279	76.000	72.000	17384.606
2	13:30:13	1444.115	2620.378	52.000	68.000	17043.962
3	13:30:17	1696.158	2544.356	92.000	40.000	16807.523
x		1597.474	2472.338	73.334	60.000	17078.697
σ		134.624	194.330	20.133	17.436	290.106

38.3801/08/2018 13:32:21

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:32:25	2396.316	3264.586	468.012	68.000	24340.542
2	13:32:28	2472.336	3352.618	356.007	56.000	24468.886
3	13:32:31	2520.349	3296.598	320.006	52.000	24729.590
x		2463.000	3304.601	381.342	58.667	24513.006
σ		62.542	44.558	77.187	8.327	198.241

38.3901/08/2018 13:34:34

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:34:37	1724.164	3196.562	48.000	72.000	17713.240
2	13:34:41	1952.210	3152.547	100.001	68.000	17468.768
3	13:34:44	1764.171	3024.503	80.000	56.000	17420.675
x		1813.515	3124.537	76.000	65.334	17534.228
σ		121.768	89.384	26.230	8.327	156.883

38.4001/08/2018 13:36:49

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:36:52	3132.540	3256.583	112.001	32.000	37746.200

2	13:36:55	2988.491	3436.650	96.001	68.000	37762.267
3	13:36:59	2824.439	3372.626	64.000	48.000	37067.416
x		2981.823	3355.286	90.667	49.333	37525.294
σ		154.159	91.277	24.441	18.037	396.616

38.4101/08/2018 13:39:03

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:39:06	2380.312	2440.328	76.000	32.000	33923.175
2	13:39:09	2740.413	2732.411	92.000	52.000	34344.754
3	13:39:13	2600.372	2600.372	88.000	96.001	34043.624
x		2573.699	2591.037	85.334	60.000	34103.851
σ		181.526	146.265	8.327	32.742	217.146

39.2201/08/2018 13:42:17

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:42:20	1492.122	2268.283	60.000	52.000	9973.468
2	13:42:24	1556.133	2084.239	68.000	40.000	9833.315
3	13:42:27	1680.155	2220.271	64.000	56.000	10345.884
x		1576.137	2190.931	64.000	49.333	10050.889
σ		95.599	95.466	4.000	8.327	264.910

39.2301/08/2018 13:44:32

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:44:36	2560.361	2420.322	72.000	40.000	35545.355
2	13:44:39	2516.348	2544.356	84.000	40.000	34665.969
3	13:44:43	2752.417	2644.385	132.001	68.000	35344.575
x		2609.708	2536.354	96.001	49.333	35185.300
σ		125.533	112.245	31.749	16.166	460.821

39.2701/08/2018 13:46:48

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:46:51	3532.686	2904.464	112.001	40.000	52728.474
2	13:46:54	3540.689	2820.437	92.000	28.000	52004.320
3	13:46:58	3540.689	3020.502	76.000	24.000	51919.840
x		3538.022	2915.134	93.334	30.667	52217.545
σ		4.621	100.458	18.037	8.327	444.489

39.2801/08/2018 13:49:00

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:49:03	2556.359	2144.253	88.000	52.000	23089.284
2	13:49:07	2476.337	2012.223	64.000	40.000	23386.041
3	13:49:10	2540.355	2052.232	104.001	36.000	23410.103
X		2524.351	2069.569	85.334	42.667	23295.143
σ		42.344	67.701	20.133	8.327	178.684

39.2901/08/2018 13:51:12

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:51:16	4329.030	3388.631	68.000	52.000	48448.757
2	13:51:19	4317.025	3132.540	80.000	44.000	49112.304
3	13:51:23	4693.211	3460.659	80.000	40.000	49353.605
X		4446.422	3327.276	76.000	45.333	48971.555
σ		213.810	172.450	6.928	6.110	468.556

39.3001/08/2018 13:53:27

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:53:31	4477.102	3452.656	112.001	40.000	51187.705
2	13:53:34	4585.156	3388.631	92.000	28.000	50741.213
3	13:53:38	4417.073	3472.663	80.000	52.000	53154.947
X		4493.110	3437.983	94.667	40.000	51694.622
σ		85.177	43.895	16.166	12.000	1284.232

39.3101/08/2018 13:55:40

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:55:43	3804.796	2860.450	80.000	44.000	39292.732
2	13:55:46	3836.810	3392.633	56.000	24.000	39626.175
3	13:55:50	3616.719	3020.502	96.001	40.000	40092.212
X		3752.775	3091.195	77.334	36.000	39670.373
σ		118.910	273.044	20.133	10.583	401.568

39.3201/08/2018 13:57:54

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	13:57:57	5289.538	4397.063	136.001	36.000	57795.133
2	13:58:01	5125.445	4357.044	160.001	40.000	58463.386
3	13:58:04	5061.409	4481.104	128.001	44.000	58407.025

X	5158.797	4411.737	141.334	40.000	58221.848
σ	117.665	63.318	16.654	4.000	370.619

39.3301/08/2018 14:00:09

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:00:12	4028.893	4100.925	92.000	40.000	42575.464
2	14:00:15	3960.863	3896.835	84.000	28.000	42696.027
3	14:00:19	4000.880	4064.909	64.000	40.000	43085.860
X		3996.879	4020.890	80.000	36.000	42785.784
σ		34.191	108.933	14.422	6.928	266.774

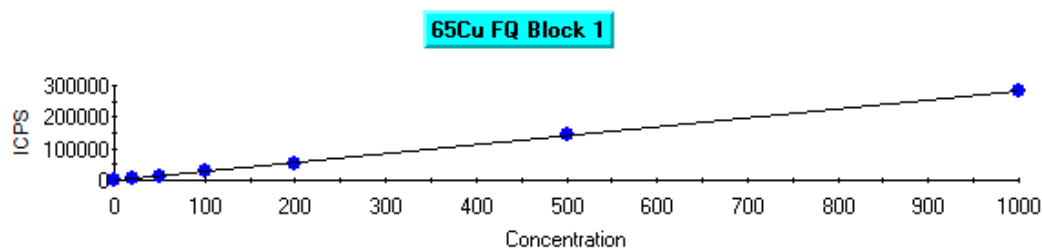
Control soil01/08/2018 14:02:24

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:02:27	560.017	1020.057	36.000	40.000	4877.308
2	14:02:30	500.014	1056.061	24.000	24.000	4869.304
3	14:02:34	520.015	1068.063	28.000	36.000	4729.230
X		526.682	1048.060	29.333	33.333	4825.280
σ		30.552	24.983	6.110	8.327	83.279

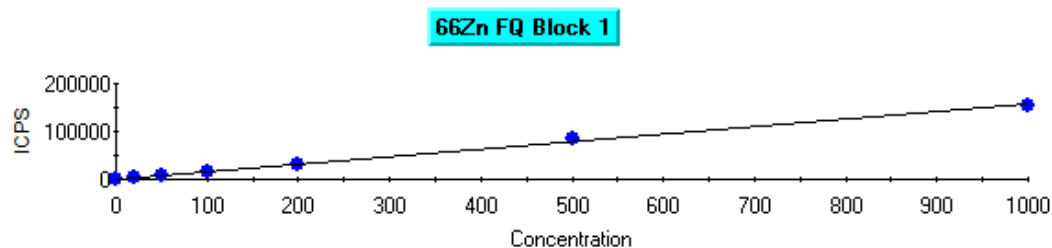
6.1.10 Batch 37.29 – 39.33 and control soil (digested on ETHOS EZ) with cooling

Fully Quant Calibration



Intercept CPS=182.668537 Intercept Conc=0.646954
Sensitivity=282.351591 Correlation Coeff=0.999671

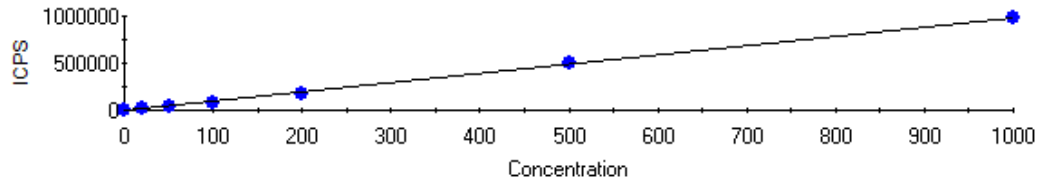
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	182.67	0.00
20ppb	20.000	20.761	0.761	6044.68	3.81
50ppb	50.000	48.573	1.427	13897.29	2.85
100ppb	100.000	97.958	2.042	27841.23	2.04
200ppb	200.000	192.452	7.548	54521.72	3.77
500ppb	500.000	519.953	19.953	146992.18	3.99
1ppm	1000.000	991.794	8.206	280217.16	0.82



Intercept CPS=160.001415 Intercept Conc=1.018318
Sensitivity=157.123217 Correlation Coeff=0.999347

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	160.00	0.00
20ppb	20.000	23.053	3.053	3782.12	15.26
50ppb	50.000	51.559	1.559	8261.09	3.12
100ppb	100.000	102.458	2.458	16258.53	2.46
200ppb	200.000	203.326	3.326	32107.29	1.66
500ppb	500.000	529.781	29.781	83400.85	5.96
1ppm	1000.000	984.060	15.940	154778.61	1.59

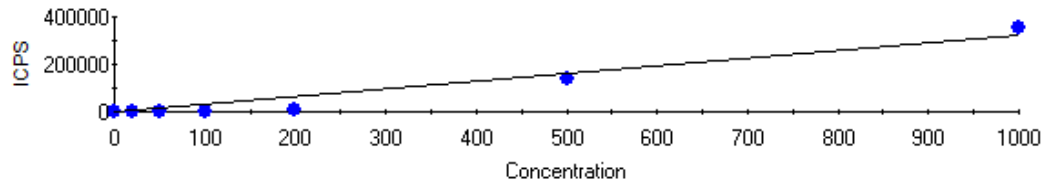
107Ag FQ Block 1



Intercept CPS=9.333342 Intercept Conc=0.009562
Sensitivity=976.107974 Correlation Coeff=0.999553

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	9.33	0.00
20ppb	20.000	15.540	4.460	15178.01	22.30
50ppb	50.000	42.632	7.368	41623.08	14.74
100ppb	100.000	77.390	22.610	75550.11	22.61
200ppb	200.000	183.787	16.213	179405.16	8.11
500ppb	500.000	514.540	14.540	502255.78	2.91
1ppm	1000.000	998.691	1.309	974839.89	0.13

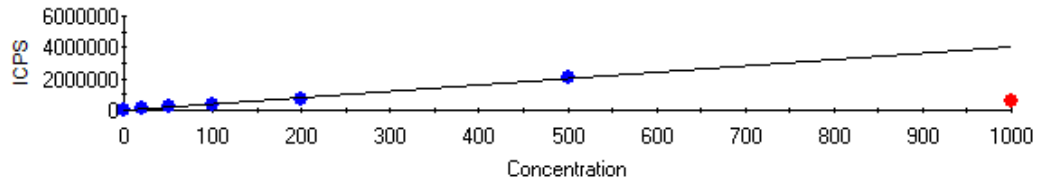
202Hg FQ Block 1



Intercept CPS=58.666860 Intercept Conc=0.180957
Sensitivity=324.203892 Correlation Coeff=0.984269

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	58.67	0.00
20ppb	20.000	0.111	19.889	94.67	99.44
50ppb	50.000	0.181	49.819	117.33	99.64
100ppb	100.000	0.477	99.523	213.34	99.52
200ppb	200.000	19.727	180.273	6454.29	90.14
500ppb	500.000	424.003	75.997	137522.07	15.20
1ppm	1000.000	1086.894	86.894	352433.97	8.69

208Pb FQ Block 1



Intercept CPS=377.341172 Intercept Conc=0.092294
Sensitivity=4088.458251 Correlation Coeff=0.999031

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	377.34	0.00
20ppb	20.000	20.144	0.144	82733.44	0.72
50ppb	50.000	46.250	3.750	189470.13	7.50
100ppb	100.000	91.643	8.357	375054.91	8.36
200ppb	200.000	182.448	17.552	746306.96	8.78
500ppb	500.000	509.062	9.062	2081654.47	1.81
1ppm	1000.000	139.530	860.470	570841.88	86.05

Dilution Corrected Concentrations

blank01/08/2018 14:24:16

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:24:16	0.033	-0.102	-0.010	-0.033	-0.000
2	14:24:20	-0.123	0.051	0.011	0.004	-0.003
3	14:24:23	0.090	0.051	-0.001	0.029	0.004
x		0.000	-0.000	0.000	0.000	0.000
σ		0.110	0.088	0.010	0.031	0.003

20ppb01/08/2018 14:26:11

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:26:11	20.870	22.840	15.880	0.078	20.320
2	14:26:15	21.060	23.550	15.910	0.128	20.050
3	14:26:18	20.350	22.760	14.830	0.128	20.060
x		20.760	23.050	15.540	0.111	20.140
σ		0.366	0.436	0.616	0.028	0.153

50ppb01/08/2018 14:28:06

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:28:06	46.220	51.980	42.690	0.128	46.220
2	14:28:10	49.900	51.240	43.210	0.177	46.550
3	14:28:14	49.600	51.450	41.990	0.239	45.990
x		48.570	51.560	42.630	0.181	46.250
σ		2.041	0.382	0.610	0.056	0.282

100ppb01/08/2018 14:30:03

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:30:03	97.810	102.200	76.080	0.572	92.800
2	14:30:06	98.220	104.200	79.720	0.510	89.940
3	14:30:10	97.850	100.900	76.370	0.350	92.190
x		97.960	102.500	77.390	0.477	91.640
σ		0.227	1.672	2.026	0.115	1.505

200ppb01/08/2018 14:31:59

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:31:59	196.800	209.800	186.600	19.530	183.200
2	14:32:02	189.000	199.600	181.900	20.120	183.400
3	14:32:05	191.600	200.600	182.900	19.530	180.700
x		192.500	203.300	183.800	19.730	182.400
σ		3.948	5.652	2.500	0.342	1.498

500ppb01/08/2018 14:33:55

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:33:55	518.700	532.900	512.300	434.600	510.300
2	14:33:58	519.900	522.400	510.200	415.200	510.300
3	14:34:02	521.300	534.000	521.100	422.300	506.600
x		520.000	529.800	514.500	424.000	509.100
σ		1.303	6.454	5.754	9.812	2.130

1ppm01/08/2018 14:35:51

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb

1	14:35:51	991.700	995.600	1003.000	1112.000	128.200
2	14:35:55	989.000	971.700	987.000	1074.000	117.500
3	14:35:59	994.700	984.900	1006.000	1075.000	172.900
x		991.800	984.100	998.700	1087.000	139.500
σ		2.849	11.950	10.200	21.470	29.390

blank01/08/2018 14:38:02

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:38:06	0.161	0.305	0.699	55.510	0.649
2	14:38:09	0.217	-0.127	0.691	52.870	0.583
3	14:38:13	0.104	0.229	0.712	50.870	0.602
x		0.161	0.136	0.701	53.080	0.611
σ		0.057	0.231	0.010	2.325	0.034

37.2901/08/2018 14:40:16

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:40:20	1014.000	2534.000	42.890	3331.000	712.900
2	14:40:23	1079.000	2493.000	33.880	3369.000	705.400
3	14:40:26	1052.000	2697.000	29.370	3341.000	692.400
x		1048.000	2574.000	35.380	3347.000	703.600
σ		32.760	107.800	6.886	19.880	10.380

37.3101/08/2018 14:42:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:42:34	1229.000	2266.000	18.300	1783.000	1143.000
2	14:42:38	1138.000	2279.000	16.260	1853.000	1135.000
3	14:42:41	1134.000	2157.000	19.940	2018.000	1155.000
x		1167.000	2234.000	18.170	1885.000	1144.000
σ		53.640	67.210	1.848	121.100	10.440

37.3201/08/2018 14:44:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:44:48	1184.000	2523.000	11.340	1057.000	1196.000
2	14:44:52	1195.000	2646.000	15.850	1059.000	1211.000

3	14:44:55	1113.000	2559.000	14.210	1016.000	1192.000
x		1164.000	2576.000	13.800	1044.000	1200.000
σ		44.550	62.870	2.282	24.260	9.839

37.3301/08/2018 14:47:00

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:47:03	1042.000	2399.000	9.698	687.700	866.400
2	14:47:07	975.300	2391.000	12.160	672.900	874.300
3	14:47:10	1133.000	2404.000	15.850	654.400	849.800
x		1050.000	2398.000	12.570	671.700	863.500
σ		78.960	6.409	3.094	16.690	12.530

37.3401/08/2018 14:49:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:49:17	898.800	2488.000	10.520	479.200	511.400
2	14:49:21	887.400	2401.000	9.289	489.000	538.300
3	14:49:24	843.500	2513.000	9.698	510.000	529.000
x		876.600	2467.000	9.835	492.700	526.200
σ		29.190	58.740	0.626	15.750	13.650

37.3501/08/2018 14:51:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:51:30	1025.000	2597.000	10.110	320.000	827.500
2	14:51:33	995.200	2585.000	10.930	345.900	828.100
3	14:51:37	1036.000	2546.000	10.110	301.500	800.300
x		1019.000	2576.000	10.380	322.500	818.600
σ		21.230	26.510	0.473	22.310	15.880

37.3601/08/2018 14:54:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:54:43	786.800	2340.000	24.450	260.800	889.100
2	14:54:46	825.100	2292.000	21.580	222.500	912.300
3	14:54:50	840.700	2119.000	25.680	200.300	917.300
x		817.500	2250.000	23.900	227.900	906.200

σ	27.710	116.500	2.103	30.580	15.100
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37.3801/08/2018 14:56:52

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:56:55	1089.000	2554.000	6.420	170.700	986.200
2	14:56:59	1060.000	2674.000	8.059	179.300	939.000
3	14:57:02	1079.000	2633.000	11.340	169.400	963.200
x		1076.000	2620.000	8.606	173.100	962.800
σ		14.380	60.860	2.504	5.378	23.640

37.3901/08/2018 14:59:06

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	14:59:09	939.900	2442.000	10.930	150.900	1357.000
2	14:59:13	972.500	2396.000	9.698	175.600	1361.000
3	14:59:16	973.900	2307.000	10.520	167.000	1345.000
x		962.100	2382.000	10.380	164.500	1354.000
σ		19.240	68.640	0.626	12.520	8.327

37.4001/08/2018 15:01:20

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:01:23	986.600	2434.000	13.390	143.500	1125.000
2	15:01:26	971.100	2327.000	8.469	146.000	1128.000
3	15:01:30	860.500	2368.000	7.240	138.600	1134.000
x		939.400	2377.000	9.698	142.700	1129.000
σ		68.760	53.990	3.253	3.770	4.487

37.4101/08/2018 15:03:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:03:38	1099.000	2641.000	11.340	118.900	940.000
2	15:03:41	989.500	2513.000	11.750	133.700	956.600
3	15:03:45	1065.000	2480.000	6.010	96.650	947.300
x		1051.000	2545.000	9.698	116.400	948.000
σ		55.840	84.720	3.201	18.630	8.273

38.2201/08/2018 15:05:48

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:05:52	689.100	1627.000	8.059	80.610	810.600
2	15:05:55	785.400	1518.000	10.520	86.780	814.200
3	15:05:59	663.600	1742.000	8.879	74.440	820.700
x		712.700	1629.000	9.152	80.610	815.200
σ		64.270	112.100	1.252	6.169	5.124

38.2301/08/2018 15:08:02

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:08:06	1490.000	1632.000	7.649	152.200	1445.000
2	15:08:09	1569.000	1780.000	7.649	117.600	1448.000
3	15:08:12	1607.000	1790.000	11.750	100.400	1424.000
x		1555.000	1734.000	9.015	123.400	1439.000
σ		60.010	88.360	2.366	26.390	13.150

38.2401/08/2018 15:10:17

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:10:20	1022.000	2012.000	9.289	200.300	862.500
2	15:10:24	989.500	1922.000	10.110	171.900	862.700
3	15:10:27	1107.000	1884.000	6.830	220.000	843.800
x		1040.000	1939.000	8.742	197.400	856.300
σ		60.730	65.340	1.706	24.190	10.890

38.2601/08/2018 15:12:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:12:37	711.700	1907.000	8.469	174.400	535.000
2	15:12:40	731.600	1815.000	3.961	174.400	529.300
3	15:12:44	734.400	1940.000	6.830	196.600	523.500
x		725.900	1888.000	6.420	181.800	529.300
σ		12.350	64.640	2.282	12.820	5.737

38.2701/08/2018 15:14:50

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb
1	15:14:53	1592.000	2304.000	11.340	31.260	1552.000
2	15:14:56	1490.000	2259.000	8.879	13.980	1516.000
3	15:15:00	1478.000	2167.000	6.830	28.790	1538.000
X		1520.000	2243.000	9.015	24.680	1535.000
σ		62.450	70.030	2.257	9.342	17.990

38.2801/08/2018 15:17:04

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:17:07	2223.000	2679.000	7.240	27.550	1772.000
2	15:17:11	2136.000	2880.000	11.340	30.020	1764.000
3	15:17:14	2251.000	2666.000	5.191	31.260	1764.000
X		2203.000	2742.000	7.923	29.610	1767.000
σ		59.820	120.000	3.130	1.885	4.818

38.3201/08/2018 15:19:19

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:19:22	1257.000	2282.000	7.649	16.450	1011.000
2	15:19:26	1225.000	2391.000	7.649	30.020	1043.000
3	15:19:29	1337.000	2399.000	12.570	17.680	1036.000
X		1273.000	2357.000	9.289	21.390	1030.000
σ		57.590	65.550	2.839	7.505	16.870

38.3301/08/2018 15:21:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:21:35	1454.000	3158.000	10.930	17.680	1428.000
2	15:21:38	1422.000	3056.000	7.649	12.750	1421.000
3	15:21:42	1403.000	3252.000	10.110	13.980	1391.000
X		1426.000	3155.000	9.562	14.810	1413.000
σ		25.840	98.090	1.706	2.568	20.020

38.3401/08/2018 15:23:45

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:23:49	1416.000	2628.000	6.420	4.113	1457.000

2	15:23:52	1383.000	2648.000	10.930	16.450	1503.000
3	15:23:56	1321.000	2768.000	6.010	16.450	1477.000
x		1374.000	2681.000	7.786	12.340	1479.000
σ		48.250	75.690	2.729	7.123	22.850

38.3601/08/2018 15:26:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:26:45	560.100	2103.000	6.010	5.346	419.100
2	15:26:49	496.400	2106.000	8.879	13.980	417.200
3	15:26:52	500.600	2195.000	5.600	17.680	406.900
x		519.000	2135.000	6.830	12.340	414.400
σ		35.650	52.210	1.786	6.331	6.582

38.3701/08/2018 15:28:56

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:28:59	513.400	1551.000	5.191	10.280	399.100
2	15:29:03	547.400	1632.000	6.830	9.048	392.900
3	15:29:06	545.900	1640.000	5.191	15.220	412.900
x		535.600	1607.000	5.737	11.520	401.600
σ		19.240	49.400	0.946	3.264	10.280

38.3801/08/2018 15:31:10

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:31:13	803.800	2129.000	35.930	4.113	558.800
2	15:31:16	806.700	2126.000	40.430	-0.823	563.300
3	15:31:20	741.500	2185.000	40.430	11.520	583.700
x		784.000	2147.000	38.930	4.935	568.600
σ		36.840	33.110	2.603	6.210	13.240

38.3901/08/2018 15:33:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:33:27	628.100	2159.000	6.010	6.580	450.900
2	15:33:30	580.000	1841.000	9.698	12.750	437.800
3	15:33:33	614.000	2052.000	5.191	9.048	450.700

X	607.400	2017.000	6.966	9.459	446.500
σ	24.760	162.000	2.401	3.105	7.472

38.4001/08/2018 15:35:39

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:35:42	1106.000	2447.000	12.160	9.048	993.000
2	15:35:46	1046.000	2289.000	8.059	11.520	1004.000
3	15:35:49	1056.000	2264.000	11.750	10.280	999.600
X		1069.000	2333.000	10.650	10.280	998.900
σ		31.890	99.340	2.257	1.234	5.631

38.4101/08/2018 15:37:55

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:37:58	981.000	1894.000	9.289	11.520	934.100
2	15:38:02	952.600	1836.000	9.289	12.750	961.900
3	15:38:06	915.800	1928.000	8.469	9.048	936.100
X		949.800	1886.000	9.015	11.100	944.000
σ		32.690	46.430	0.473	1.885	15.490

39.2201/08/2018 15:40:13

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:40:16	513.400	1444.000	4.371	11.520	247.200
2	15:40:20	557.300	1586.000	7.240	6.580	254.700
3	15:40:23	536.000	1512.000	6.420	6.580	250.900
X		535.600	1514.000	6.010	8.225	250.900
σ		21.970	71.320	1.478	2.849	3.771

39.2301/08/2018 15:42:29

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:42:33	966.800	1838.000	8.879	-4.524	965.800
2	15:42:36	1005.000	1754.000	11.340	5.346	989.700
3	15:42:40	941.300	1734.000	13.390	5.346	959.700
X		971.100	1776.000	11.200	2.056	971.700
σ		32.100	55.350	2.257	5.699	15.840

39.2701/08/2018 15:44:44

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:44:48	1444.000	2167.000	13.390	9.048	1464.000
2	15:44:51	1359.000	2126.000	12.570	4.113	1428.000
3	15:44:54	1323.000	2040.000	10.110	2.879	1416.000
X		1375.000	2111.000	12.020	5.346	1436.000
σ		62.510	65.030	1.706	3.264	25.060

39.2801/08/2018 15:46:58

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:47:02	904.500	1441.000	9.698	1.645	652.700
2	15:47:05	870.400	1474.000	6.420	1.645	645.300
3	15:47:09	888.900	1383.000	7.649	2.879	653.400
X		887.900	1433.000	7.923	2.056	650.500
σ		17.020	46.420	1.656	0.712	4.517

39.2901/08/2018 15:49:12

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:49:15	1566.000	2381.000	11.340	2.879	1354.000
2	15:49:19	1630.000	2475.000	8.059	6.580	1378.000
3	15:49:22	1579.000	2414.000	11.340	5.346	1371.000
X		1592.000	2423.000	10.240	4.935	1368.000
σ		33.750	47.810	1.893	1.885	12.350

39.3001/08/2018 15:51:24

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:51:28	1671.000	2411.000	11.340	-2.056	1379.000
2	15:51:31	1596.000	2190.000	13.390	4.113	1375.000
3	15:51:35	1563.000	2355.000	11.750	-5.758	1400.000
X		1610.000	2319.000	12.160	-1.234	1385.000
σ		55.240	115.200	1.084	4.986	13.560

39.3101/08/2018 15:53:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:53:42	1264.000	2231.000	9.698	-3.290	1080.000
2	15:53:45	1297.000	2085.000	8.469	-3.290	1023.000
3	15:53:48	1314.000	2144.000	6.420	-2.056	1039.000
X		1292.000	2153.000	8.196	-2.879	1047.000
σ		25.210	73.030	1.656	0.712	29.370

39.3201/08/2018 15:56:42

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:56:45	1874.000	3112.000	12.570	-0.823	1527.000
2	15:56:49	1867.000	3074.000	16.260	21.390	1507.000
3	15:56:53	1868.000	2987.000	9.698	-3.290	1498.000
X		1870.000	3057.000	12.840	5.758	1511.000
σ		3.750	63.950	3.287	13.590	15.080

39.3301/08/2018 15:58:57

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	15:59:00	1467.000	2974.000	6.830	0.411	1174.000
2	15:59:04	1483.000	2806.000	10.520	-5.758	1152.000
3	15:59:07	1532.000	2783.000	9.289	-3.290	1190.000
X		1494.000	2855.000	8.879	-2.879	1172.000
σ		34.050	104.300	1.878	3.105	18.720

Control soil01/08/2018 16:01:12

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb
1	16:01:16	166.200	600.800	2.732	-8.225	129.200
2	16:01:19	193.100	748.500	0.273	-3.290	129.100
3	16:01:22	135.100	738.300	2.732	-6.992	130.000
X		164.800	695.900	1.912	-6.169	129.400
σ		29.070	82.480	1.420	2.568	0.539

Mass Uncorrected ICPS

blank01/08/2018 14:24:16

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:24:16	192.002	144.001	0.000	48.000	376.008
2	14:24:20	148.001	168.002	20.000	60.000	364.007
3	14:24:23	208.002	168.002	8.000	68.000	392.008
X		182.669	160.001	9.333	58.667	377.341
σ		31.070	13.857	10.066	10.067	14.048

20ppb01/08/2018 14:26:11

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:26:11	6074.029	3748.773	15509.218	84.000	83453.295
2	14:26:15	6130.066	3860.820	15541.273	100.001	82363.423
3	14:26:18	5929.933	3736.768	14483.528	100.001	82383.604
X		6044.676	3782.120	15178.006	94.667	82733.441
σ		103.245	68.420	601.649	9.238	623.494

50ppb01/08/2018 14:28:06

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:28:06	13233.625	8327.813	41683.344	100.001	189327.140
2	14:28:10	14271.193	8211.707	42185.653	116.001	190687.130
3	14:28:14	14187.061	8243.736	41000.248	136.001	188396.100
X		13897.293	8261.085	41623.082	117.334	189470.130
σ		576.291	59.966	594.996	18.037	1152.188

100ppb01/08/2018 14:30:03

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:30:03	27798.437	16218.454	74270.149	244.003	379786.770
2	14:30:06	27914.792	16539.031	77827.724	224.003	368096.340
3	14:30:10	27810.473	16018.099	74552.445	172.002	377281.630
X		27841.234	16258.528	75550.106	213.336	375054.910
σ		63.987	262.768	1977.519	37.167	6155.098

200ppb01/08/2018 14:31:59

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:31:59	55738.350	33128.252	182167.060	6390.245	749314.680
2	14:32:02	53549.251	31514.530	177540.880	6582.382	750346.830
3	14:32:05	54277.551	31679.100	178507.530	6390.245	739259.370

X	54521.717	32107.294	179405.160	6454.291	746306.960
σ	1114.788	887.996	2440.224	110.930	6125.174

500ppb01/08/2018 14:33:55

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:33:55	146624.980	83897.354	500061.230	140948.250	2086838.600
2	14:33:58	146990.820	82234.261	498068.160	134662.030	2086525.400
3	14:34:02	147360.730	84070.947	508637.960	136955.920	2071599.300
X		146992.180	83400.854	502255.780	137522.070	2081654.500
σ		367.879	1014.020	5616.247	3181.120	8709.399

1 ppm01/08/2018 14:35:51

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:35:51	280192.400	156585.020	979307.510	360471.760	524561.690
2	14:35:55	279425.320	152838.060	963429.850	348352.760	480689.080
3	14:35:59	281033.780	154912.740	981782.300	348477.400	707274.890
X		280217.160	154778.610	974839.890	352433.970	570841.880
σ		804.515	1877.079	9958.554	6961.205	120173.520

blank01/08/2018 14:38:02

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:38:06	228.003	208.002	692.026	18053.909	3032.506
2	14:38:09	244.003	140.001	684.026	17200.256	2760.419
3	14:38:13	212.002	196.002	704.027	16551.053	2836.442
X		228.003	181.335	693.360	17268.406	2876.456
σ		16.000	36.296	10.067	753.742	140.387

37.2901/08/2018 14:40:16

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:40:20	3044.510	4140.943	428.010	10858.481	29523.863
2	14:40:23	3228.573	4076.914	340.006	10982.630	29218.881
3	14:40:26	3152.547	4397.063	296.005	10890.519	28685.185
X		3141.877	4204.973	354.674	10910.543	29142.643
σ		92.494	169.407	67.214	64.451	424.505

37.3101/08/2018 14:42:31

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
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1	14:42:34	3652.734	3720.761	188.002	5837.874	47105.727
2	14:42:38	3396.634	3740.770	168.002	6066.023	46763.969
3	14:42:41	3384.630	3548.693	204.002	6602.397	47612.356
X		3477.999	3670.074	186.669	6168.765	47160.684
σ		151.443	105.595	18.037	392.480	426.855

37.3201/08/2018 14:44:45

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:44:48	3524.683	4124.936	120.001	3484.668	49281.214
2	14:44:52	3556.696	4317.025	164.001	3492.671	49872.425
3	14:44:55	3324.608	4180.961	148.001	3352.618	49104.260
X		3468.662	4207.641	144.001	3443.319	49419.300
σ		125.777	98.785	22.271	78.651	402.269

37.3301/08/2018 14:47:00

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:47:03	3124.537	3928.849	104.001	2288.288	35798.345
2	14:47:07	2936.474	3916.844	128.001	2240.276	36123.628
3	14:47:10	3380.629	3936.852	164.001	2180.261	35119.706
X		3147.213	3927.515	132.001	2236.275	35680.560
σ		222.944	10.071	30.200	54.124	512.221

37.3401/08/2018 14:49:14

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:49:17	2720.407	4068.910	112.001	1612.143	21284.888
2	14:49:21	2688.398	3932.851	100.001	1644.149	22383.522
3	14:49:24	2564.362	4108.928	104.001	1712.161	22006.604
X		2657.722	4036.896	105.334	1656.151	21891.672
σ		82.421	92.301	6.110	51.078	558.262

37.3501/08/2018 14:51:26

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:51:30	3076.521	4240.989	108.001	1096.066	34208.240
2	14:51:33	2992.492	4220.980	116.001	1180.077	34232.331
3	14:51:37	3108.531	4160.952	108.001	1036.059	33096.135
X		3059.181	4207.640	110.667	1104.067	33845.569
σ		59.931	41.653	4.619	72.341	649.140

37.3601/08/2018 14:54:40

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:54:43	2404.318	3836.810	248.003	904.045	36726.035
2	14:54:46	2512.347	3760.778	220.003	780.033	37677.918
3	14:54:50	2556.359	3488.669	260.004	708.028	37882.767
X		2491.008	3695.419	242.670	797.369	37428.906
σ		78.235	183.042	20.527	99.152	617.262

37.3801/08/2018 14:56:52

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:56:55	3256.583	4172.958	72.000	612.021	40698.899
2	14:56:59	3176.555	4361.046	88.000	640.023	38766.480
3	14:57:02	3228.573	4297.015	120.001	608.020	39758.752
X		3220.570	4277.006	93.334	620.021	39741.377
σ		40.610	95.627	24.441	17.437	966.326

37.3901/08/2018 14:59:06

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	14:59:09	2836.442	3996.878	116.001	548.017	55847.014
2	14:59:13	2928.472	3924.847	104.001	628.022	56032.148
3	14:59:16	2932.473	3784.788	112.001	600.020	55372.122
X		2899.129	3902.171	110.667	592.019	55750.428
σ		54.325	107.848	6.110	40.598	340.448

37.4001/08/2018 15:01:20

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:01:23	2968.485	3984.873	140.001	524.015	46382.020
2	15:01:26	2924.470	3816.801	92.000	532.016	46490.572
3	15:01:30	2612.375	3880.828	80.000	508.014	46739.846
X		2835.110	3894.168	104.001	521.348	46537.479
σ		194.145	84.826	31.749	12.221	183.467

37.4101/08/2018 15:03:35

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:03:38	3284.593	4309.021	120.001	444.011	38810.668
2	15:03:41	2976.487	4108.928	124.001	492.013	39485.565

3	15:03:45	3188.559	4056.905	68.000	372.008	39107.938
x		3149.880	4158.285	104.001	436.011	39134.724
σ		157.653	133.108	31.241	60.402	338.245

38.2201/08/2018 15:05:48

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:05:52	2128.249	2716.406	88.000	320.006	33517.675
2	15:05:55	2400.317	2544.356	112.001	340.006	33666.223
3	15:05:59	2056.233	2896.461	96.001	300.005	33931.205
x		2194.933	2719.074	98.667	320.006	33705.034
σ		181.476	176.068	12.220	20.001	209.479

38.2301/08/2018 15:08:02

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:08:06	4389.059	2724.408	84.000	552.017	59469.883
2	15:08:09	4613.170	2956.481	84.000	440.011	59582.617
3	15:08:12	4721.226	2972.486	124.001	384.008	58600.263
x		4574.485	2884.458	97.334	458.679	59217.587
σ		169.429	138.838	23.094	85.546	537.582

38.2401/08/2018 15:10:17

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:10:20	3068.518	3320.606	100.001	708.028	35641.732
2	15:10:24	2976.487	3180.556	108.001	616.021	35649.763
3	15:10:27	3308.602	3120.536	76.000	772.033	34874.766
x		3117.869	3207.233	94.667	698.694	35388.753
σ		171.469	102.668	16.653	78.424	445.145

38.2601/08/2018 15:12:34

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:12:37	2192.264	3156.548	92.000	624.021	22251.198
2	15:12:40	2248.278	3012.499	48.000	624.021	22018.633
3	15:12:44	2256.280	3208.566	76.000	696.027	21782.064
x		2232.274	3125.871	72.000	648.023	22017.298
σ		34.880	101.570	22.271	41.572	234.570

38.2701/08/2018 15:14:50

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:14:53	4677.203	3780.786	120.001	160.001	63827.282
2	15:14:56	4389.059	3708.756	96.001	104.001	62369.214
3	15:15:00	4357.044	3564.699	76.000	152.001	63267.389
X		4474.435	3684.747	97.334	138.668	63154.628
σ		176.330	110.026	22.031	30.288	735.545

38.2801/08/2018 15:17:04

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:17:07	6458.293	4369.050	80.000	148.001	72842.668
2	15:17:11	6214.123	4685.207	120.001	156.001	72512.041
3	15:17:14	6538.350	4349.040	60.000	160.001	72491.881
X		6403.589	4467.766	86.667	154.668	72615.530
σ		168.894	188.575	30.551	6.110	196.966

38.3201/08/2018 15:19:19

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:19:22	3732.766	3744.771	84.000	112.001	41723.528
2	15:19:26	3640.729	3916.844	84.000	156.001	43037.633
3	15:19:29	3956.861	3928.849	132.001	116.001	42744.253
X		3776.785	3863.488	100.001	128.001	42501.804
σ		162.598	102.987	27.713	24.331	689.785

38.3301/08/2018 15:21:31

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:21:35	4289.012	5121.442	116.001	116.001	58777.401
2	15:21:38	4196.969	4961.354	84.000	100.001	58459.360
3	15:21:42	4144.945	5269.527	108.001	104.001	57227.559
X		4210.308	5117.441	102.667	106.667	58154.773
σ		72.954	154.126	16.654	8.327	818.585

38.3401/08/2018 15:23:45

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:23:49	4180.961	4289.012	72.000	72.000	59949.014
2	15:23:52	4088.919	4321.027	116.001	112.001	61813.438
3	15:23:56	3912.842	4509.118	68.000	112.001	60770.441
X		4060.908	4373.052	85.334	98.667	60844.297

σ 136.237 118.919 26.634 23.094 934.403

38.3601/08/2018 15:26:42

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:26:45	1764.171	3464.660	68.000	76.000	17512.852
2	15:26:49	1584.138	3468.662	96.001	104.001	17432.698
3	15:26:52	1596.140	3608.716	64.000	116.001	17011.902
x		1648.150	3514.013	76.000	98.667	17319.151
σ		100.657	82.040	17.436	20.527	269.086

38.3701/08/2018 15:28:56

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:28:59	1632.147	2596.371	60.000	92.000	16695.316
2	15:29:03	1728.164	2724.408	76.000	88.000	16438.850
3	15:29:06	1724.164	2736.412	60.000	108.001	17260.370
x		1694.825	2685.730	65.334	96.001	16798.179
σ		54.318	77.620	9.238	10.583	420.309

38.3801/08/2018 15:31:10

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:31:13	2452.331	3504.675	360.007	72.000	23225.631
2	15:31:16	2460.333	3500.674	404.009	56.000	23406.093
3	15:31:20	2276.285	3592.710	404.009	96.001	24240.274
x		2396.316	3532.686	389.342	74.667	23623.999
σ		104.027	52.020	25.404	20.133	541.284

38.3901/08/2018 15:33:23

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:33:27	1956.210	3552.694	68.000	80.000	18811.443
2	15:33:30	1820.182	3052.512	104.001	100.001	18278.357
3	15:33:33	1916.202	3384.630	60.000	88.000	18803.426
x		1897.532	3329.946	77.334	89.334	18631.075
σ		69.910	254.535	23.438	10.067	305.489

38.4001/08/2018 15:35:39

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:35:42	3304.601	4004.882	128.001	88.000	40976.140

2	15:35:46	3136.541	3756.776	88.000	96.001	41434.209
3	15:35:49	3164.551	3716.760	124.001	92.000	41245.353
x		3201.897	3826.139	113.334	92.000	41218.567
σ		90.039	156.083	22.031	4.000	230.206

38.4101/08/2018 15:37:55

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:37:58	2952.479	3136.541	100.001	96.001	38565.629
2	15:38:02	2872.454	3044.510	100.001	100.001	39702.507
3	15:38:06	2768.421	3188.559	92.000	88.000	38649.986
x		2864.452	3123.203	97.334	94.667	38972.707
σ		92.290	72.945	4.619	6.110	633.431

39.2201/08/2018 15:40:13

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:40:16	1632.147	2428.324	52.000	96.001	10482.040
2	15:40:20	1756.170	2652.387	80.000	80.000	10790.400
3	15:40:23	1696.158	2536.354	72.000	80.000	10634.216
x		1694.825	2539.022	68.000	85.334	10635.552
σ		62.022	112.055	14.422	9.238	154.185

39.2301/08/2018 15:42:29

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:42:33	2912.467	3048.511	96.001	44.000	39863.208
2	15:42:36	3020.502	2916.468	120.001	76.000	40839.527
3	15:42:40	2840.444	2884.458	140.001	76.000	39614.123
x		2924.471	2949.812	118.667	65.334	40105.619
σ		90.627	86.961	22.031	18.475	647.670

39.2701/08/2018 15:44:44

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:44:48	4260.998	3564.699	140.001	88.000	60242.948
2	15:44:51	4020.889	3500.674	132.001	72.000	58765.323
3	15:44:54	3916.844	3364.622	108.001	68.000	58274.177
x		4066.244	3476.665	126.668	76.000	59094.149
σ		176.503	102.176	16.654	10.583	1024.749

39.2801/08/2018 15:46:58

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:47:02	2736.412	2424.323	104.001	64.000	27064.226
2	15:47:05	2640.383	2476.337	72.000	64.000	26759.326
3	15:47:09	2692.399	2332.299	84.000	68.000	27092.310
x		2689.731	2410.987	86.667	65.334	26971.954
σ		48.070	72.939	16.166	2.309	184.676

39.2901/08/2018 15:49:12

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:49:15	4605.166	3900.837	120.001	68.000	55742.374
2	15:49:19	4785.259	4048.901	88.000	80.000	56728.446
3	15:49:22	4641.184	3952.859	120.001	76.000	56422.551
x		4677.203	3967.533	109.334	74.667	56297.790
σ		95.296	75.115	18.475	6.110	504.736

39.3001/08/2018 15:51:24

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:51:28	4901.321	3948.858	120.001	52.000	56752.596
2	15:51:31	4689.209	3600.713	140.001	72.000	56591.597
3	15:51:35	4597.162	3860.820	124.001	40.000	57622.040
x		4729.231	3803.463	128.001	54.667	56988.744
σ		155.979	181.021	10.583	16.166	554.326

39.3101/08/2018 15:53:38

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:53:42	3752.774	3664.739	104.001	48.000	44536.828
2	15:53:45	3844.813	3436.650	92.000	48.000	42213.783
3	15:53:48	3892.833	3528.685	72.000	52.000	42848.743
x		3830.140	3543.358	89.334	49.333	43199.785
σ		71.173	114.750	16.166	2.309	1200.648

39.3201/08/2018 15:56:42

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:56:45	5473.647	5049.402	132.001	56.000	62828.360
2	15:56:49	5453.635	4989.369	168.002	128.001	61982.583
3	15:56:53	5457.638	4853.295	104.001	48.000	61628.186

X	5461.640	4964.022	134.668	77.334	62146.376
σ	10.589	100.480	32.084	44.061	616.624

39.3301/08/2018 15:58:57

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	15:59:00	4325.029	4833.285	76.000	60.000	48372.352
2	15:59:04	4369.050	4569.148	112.001	40.000	47487.706
3	15:59:07	4509.118	4533.130	100.001	48.000	49011.763
X		4401.065	4645.188	96.001	49.333	48290.607
σ		96.130	163.889	18.330	10.067	765.310

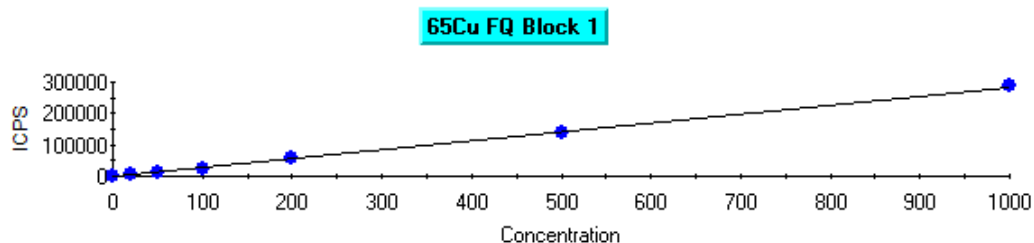
Control soil01/08/2018 16:01:12

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	202Hg	208Pb
1	16:01:16	652.023	1104.067	36.000	32.000	5657.760
2	16:01:19	728.029	1336.098	12.000	48.000	5653.758
3	16:01:22	564.018	1320.096	36.000	36.000	5693.783
X		648.023	1253.420	28.000	38.667	5668.433
σ		82.079	129.591	13.856	8.327	22.044

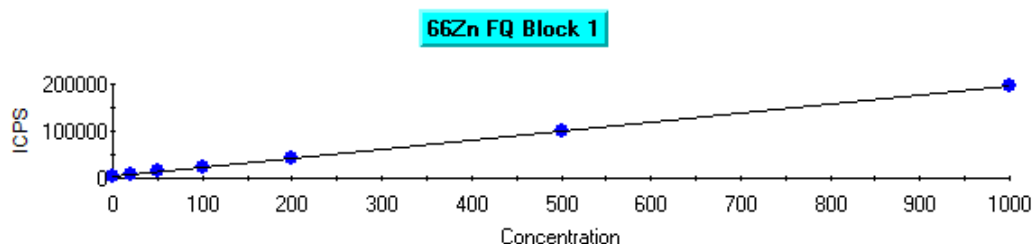
6.1.11 Batch where mercury was stabilised with the addition of 200ppb of gold solution, samples were chosen as they showed high amounts of mercury in previous runs. Also shows the carryover of mercury from the standards to the sample (digested on ETHOS EZ, mass uncorrected counts are also included)

Fully Quant Calibration



Intercept CPS=496.560624 Intercept Conc=1.745320
Sensitivity=284.509845 Correlation Coeff=0.999844

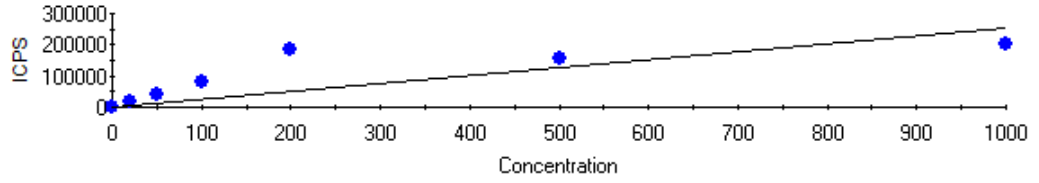
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	496.56	0.00
20ppb	20.000	17.278	2.722	5412.27	13.61
50ppb	50.000	44.669	5.331	13205.44	10.66
100ppb	100.000	88.542	11.458	25687.55	11.46
200ppb	200.000	193.363	6.637	55510.23	3.32
500ppb	500.000	487.141	12.859	139092.89	2.57
1ppm	1000.000	1009.224	9.224	287630.69	0.92



Intercept CPS=4315.221399 Intercept Conc=22.614688
Sensitivity=190.814991 Correlation Coeff=0.999968

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	4315.22	0.00
20ppb	20.000	19.433	0.567	8023.36	2.83
50ppb	50.000	47.960	2.040	13466.65	4.08
100ppb	100.000	92.427	7.573	21951.67	7.57
200ppb	200.000	197.231	2.769	41949.85	1.38
500ppb	500.000	496.356	3.644	99027.45	0.73
1ppm	1000.000	1003.246	3.246	195749.65	0.32

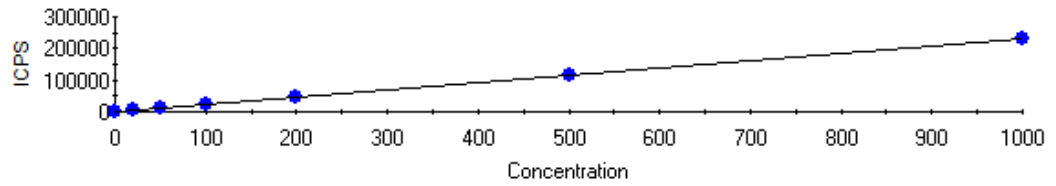
107Ag FQ Block 1



Intercept CPS=590.370932 Intercept Conc=2.347038
Sensitivity=251.538760 Correlation Coeff=0.802766

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	590.37	0.00
20ppb	20.000	61.602	41.602	16085.66	208.01
50ppb	50.000	165.034	115.034	42102.92	230.07
100ppb	100.000	327.766	227.766	83036.12	227.77
200ppb	200.000	720.373	520.373	181792.06	260.19
500ppb	500.000	627.659	127.659	158470.91	25.53
1ppm	1000.000	802.736	197.264	202509.50	19.73

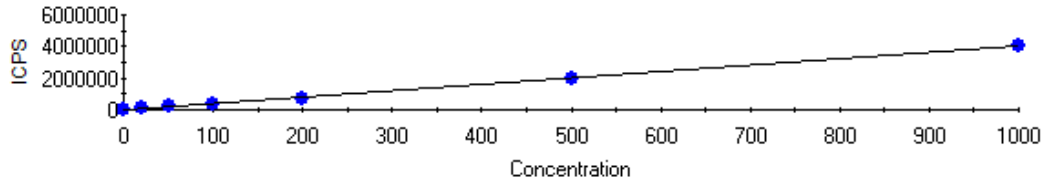
202Hg FQ Block 1



Intercept CPS=289.695230 Intercept Conc=1.268464
Sensitivity=228.382762 Correlation Coeff=0.999956

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	289.70	0.00
20ppb	20.000	17.746	2.254	4342.48	11.27
50ppb	50.000	47.959	2.041	11242.62	4.08
100ppb	100.000	93.056	6.944	21542.04	6.94
200ppb	200.000	194.330	5.670	44671.42	2.83
500ppb	500.000	504.406	4.406	115487.44	0.88
1ppm	1000.000	999.772	0.228	228620.44	0.02

208Pb FQ Block 1



Intercept CPS=463.574718 Intercept Conc=0.115706
Sensitivity=4006.482977 Correlation Coeff=0.999596

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	463.57	0.00
20ppb	20.000	16.438	3.562	66321.90	17.81
50ppb	50.000	43.896	6.104	176333.00	12.21
100ppb	100.000	85.692	14.308	343785.21	14.31
200ppb	200.000	185.521	14.479	743748.83	7.24
500ppb	500.000	479.294	20.706	1920746.24	4.14
1ppm	1000.000	1015.056	15.056	4067269.06	1.51

Dilution Corrected Concentrations

blank25/07/2018 14:32:15

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:32:15	0.115	0.279	0.251	96.715%	0.090	-0.006
2	14:32:19	-0.114	-0.021	0.029	101.713%	-0.235	0.016
3	14:32:22	-0.001	-0.258	-0.280	101.572%	0.145	-0.010
x		0.000	-0.000	0.000	100.000%	0.000	0.000
σ		0.115	0.269	0.267	2.846%	0.206	0.014

20ppb25/07/2018 14:34:10

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:34:10	17.020	19.180	61.240	92.781%	17.650	16.560
2	14:34:13	16.660	17.410	60.930	95.735%	16.480	16.320
3	14:34:17	18.150	21.710	62.640	92.867%	19.100	16.440
x		17.280	19.430	61.600	93.794%	17.750	16.440
σ		0.779	2.165	0.912	1.681%	1.314	0.122

50ppb25/07/2018 14:36:04

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:36:04	44.220	48.130	166.700	86.429%	46.860	44.240
2	14:36:08	44.940	49.360	163.000	86.152%	49.050	43.390
3	14:36:12	44.850	46.390	165.400	85.509%	47.960	44.060
X		44.670	47.960	165.000	86.030%	47.960	43.900
σ		0.392	1.492	1.872	0.472%	1.095	0.448

100ppb25/07/2018 14:37:59

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:37:59	88.430	89.060	330.100	84.854%	92.970	85.860
2	14:38:03	90.520	95.870	330.100	85.314%	93.860	87.070
3	14:38:06	86.670	92.350	323.200	86.174%	92.340	84.150
X		88.540	92.430	327.800	85.447%	93.060	85.690
σ		1.927	3.405	3.992	0.670%	0.764	1.469

200ppb25/07/2018 14:39:55

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:39:55	191.600	196.800	721.500	78.329%	191.700	184.100
2	14:39:59	193.300	194.700	723.800	77.551%	195.000	186.900
3	14:40:02	195.200	200.100	715.800	78.571%	196.300	185.600
X		193.400	197.200	720.400	78.150%	194.300	185.500
σ		1.762	2.736	4.100	0.533%	2.352	1.378

500ppb25/07/2018 14:41:50

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:41:50	508.000	504.100	594.400	72.410%	516.400	493.900
2	14:41:54	484.900	495.800	620.800	77.192%	494.100	471.100
3	14:41:58	468.600	489.200	667.800	76.518%	502.700	472.900
X		487.100	496.400	627.700	75.373%	504.400	479.300
σ		19.790	7.459	37.170	2.588%	11.280	12.690

1ppm25/07/2018 14:43:46

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb	ppb
1	14:43:46	988.000	991.400	767.000	68.872%	996.300	1021.000
2	14:43:50	1022.000	1014.000	840.000	68.112%	1009.000	1025.000
3	14:43:54	1018.000	1004.000	801.200	68.622%	994.500	999.500
x		1009.000	1003.000	802.700	68.535%	999.800	1015.000
σ		18.510	11.430	36.520	0.387%	7.664	13.610

blank25/07/2018 14:45:44

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:45:44	-1.417	-22.020	38.840	60.027%	14.550	0.102
2	14:45:47	-1.278	-22.090	41.500	60.158%	15.240	0.107
3	14:45:51	-1.155	-21.910	43.450	59.568%	14.170	0.084
x		-1.284	-22.010	41.260	59.918%	14.650	0.098
σ		0.131	0.091	2.318	0.310%	0.543	0.012

blank25/07/2018 14:47:40

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:40	-1.476	-22.110	28.860	62.703%	7.307	-0.035
2	14:47:44	-1.356	-22.030	33.120	61.403%	8.202	-0.052
3	14:47:48	-1.335	-21.970	33.900	61.694%	7.504	-0.051
x		-1.389	-22.040	31.960	61.934%	7.671	-0.046
σ		0.076	0.072	2.717	0.682%	0.470	0.010

blank25/07/2018 14:49:37

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:37	-1.241	-21.990	26.080	64.176%	4.081	0.035
2	14:49:41	-1.427	-22.110	29.210	66.180%	4.898	0.017
3	14:49:44	-1.441	-22.100	32.650	64.580%	5.539	0.008
x		-1.370	-22.070	29.320	64.979%	4.839	0.020
σ		0.111	0.062	3.288	1.060%	0.731	0.014

15.3125/07/2018 14:51:35

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:35	1843.000	1706.000	3974.000	44.818%	545.300	2549.000

2	14:51:39	1805.000	2017.000	4195.000	46.606%	436.900	2401.000
3	14:51:43	1788.000	2199.000	4242.000	44.419%	417.300	2521.000
x		1812.000	1974.000	4137.000	45.281%	466.500	2491.000
σ		28.050	249.600	142.700	1.165%	68.970	78.540

15.3525/07/2018 14:53:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:34	1156.000	-219.300	3681.000	43.630%	403.100	4073.000
2	14:53:37	1307.000	-413.600	3567.000	45.267%	376.200	3915.000
3	14:53:41	1305.000	-112.300	3622.000	44.092%	373.700	3997.000
x		1256.000	-248.400	3623.000	44.330%	384.300	3995.000
σ		86.420	152.700	56.780	0.844%	16.300	78.670

15.3625/07/2018 14:55:30

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:55:30	1493.000	24.670	3097.000	42.918%	285.300	1898.000
2	14:55:34	1447.000	-227.800	3242.000	43.090%	291.800	1906.000
3	14:55:37	1611.000	117.400	3661.000	40.627%	338.800	2067.000
x		1517.000	-28.560	3333.000	42.212%	305.300	1957.000
σ		84.660	178.600	292.700	1.375%	29.150	95.050

16.3425/07/2018 14:57:26

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:57:26	1140.000	-233.600	2864.000	43.421%	272.500	1626.000
2	14:57:30	971.100	-329.100	3045.000	43.938%	243.900	1614.000
3	14:57:34	1037.000	-135.700	3141.000	43.394%	268.700	1633.000
x		1050.000	-232.800	3017.000	43.584%	261.700	1624.000
σ		85.200	96.680	140.600	0.307%	15.550	9.731

16.3625/07/2018 14:59:22

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:22	1041.000	-156.300	2337.000	42.922%	203.700	795.700
2	14:59:26	1346.000	181.500	2597.000	41.793%	195.800	810.400
3	14:59:30	1184.000	175.700	2771.000	41.806%	258.600	822.000

x	1190.000	66.970	2568.000	42.174%	219.400	809.400
σ	152.800	193.400	218.400	0.648%	34.190	13.190

15.3125/07/2018 15:01:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:18	1820.000	1918.000	2237.000	43.494%	187.300	2538.000
2	15:01:22	2130.000	2526.000	2288.000	41.865%	136.700	2656.000
3	15:01:26	2180.000	2678.000	2783.000	40.795%	147.900	2715.000
x		2043.000	2374.000	2436.000	42.051%	157.300	2636.000
σ		194.700	402.100	301.500	1.359%	26.540	90.140

15.3525/07/2018 15:03:14

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:14	1219.000	-214.200	2093.000	40.859%	104.600	4066.000
2	15:03:18	1144.000	-246.100	1906.000	42.859%	126.500	4035.000
3	15:03:22	1247.000	-111.100	1994.000	41.239%	221.400	4173.000
x		1204.000	-190.500	1998.000	41.652%	150.900	4092.000
σ		53.210	70.580	93.330	1.062%	62.080	72.410

15.3625/07/2018 15:05:44

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:05:44	2087.000	506.800	1769.000	37.866%	118.300	2378.000
2	15:05:47	2108.000	461.000	1968.000	36.964%	185.900	2538.000
3	15:05:51	2053.000	569.800	2144.000	37.172%	198.300	2466.000
x		2083.000	512.500	1960.000	37.334%	167.500	2461.000
σ		27.450	54.630	187.800	0.472%	43.040	80.130

16.3425/07/2018 15:07:40

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:40	940.300	-323.100	1461.000	41.747%	120.700	1509.000
2	15:07:44	1020.000	-226.100	1625.000	41.303%	114.900	1579.000
3	15:07:48	1134.000	-356.400	1627.000	40.827%	100.500	1592.000
x		1032.000	-301.800	1571.000	41.292%	112.000	1560.000
σ		97.440	67.710	95.660	0.460%	10.380	44.990

16.3625/07/2018 15:09:37

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:37	1365.000	438.600	1240.000	39.911%	79.410	834.800
2	15:09:41	1253.000	307.800	1416.000	39.494%	77.150	798.200
3	15:09:45	1135.000	-122.300	1341.000	40.573%	84.680	807.000
x		1251.000	208.000	1332.000	39.992%	80.410	813.300
σ		114.800	293.400	88.650	0.544%	3.861	19.130

15.3125/07/2018 15:11:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:11:36	2951.000	4440.000	1740.000	36.796%	168.300	3710.000
2	15:11:40	2992.000	4150.000	1796.000	35.876%	180.700	3745.000
3	15:11:44	3042.000	4503.000	1842.000	35.151%	172.100	3843.000
x		2995.000	4364.000	1793.000	35.941%	173.700	3766.000
σ		45.220	188.300	50.810	0.825%	6.375	69.070

15.3525/07/2018 15:13:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:13:36	1269.000	-76.640	783.300	39.054%	115.300	4318.000
2	15:13:40	1316.000	-325.700	888.200	38.664%	104.200	4399.000
3	15:13:44	1246.000	225.900	976.500	37.422%	93.130	4450.000
x		1277.000	-58.810	882.700	38.380%	104.200	4389.000
σ		36.040	276.300	96.690	0.852%	11.100	66.520

15.3625/07/2018 15:15:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:36	1722.000	92.770	873.600	38.025%	57.400	2100.000
2	15:15:40	1924.000	175.000	996.000	36.053%	52.900	2209.000
3	15:15:44	1963.000	238.200	958.700	35.980%	58.130	2206.000
x		1870.000	168.700	942.800	36.686%	56.140	2171.000
σ		129.100	72.920	62.720	1.160%	2.832	61.660

16.3425/07/2018 15:17:38

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:38	1088.000	-221.000	669.200	38.528%	95.910	1667.000
2	15:17:41	1144.000	134.900	755.700	38.056%	38.840	1697.000
3	15:17:45	1213.000	74.220	849.400	37.698%	77.580	1734.000
x		1149.000	-3.954	758.100	38.094%	70.770	1699.000
σ		62.480	190.400	90.130	0.416%	29.140	33.520

16.3625/07/2018 15:19:36

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:19:36	1478.000	71.860	587.800	36.928%	91.330	882.900
2	15:19:40	1409.000	363.400	697.900	36.660%	83.370	884.000
3	15:19:43	1378.000	321.700	649.900	35.953%	9.556	942.200
x		1422.000	252.300	645.200	36.514%	87.350	903.000
σ		51.090	157.700	55.210	0.504%	5.631	33.920

Mass Uncorrected ICPS

blank25/07/2018 14:32:15

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:32:15	512.014	4224.981	632.022	85649.580	300.005	424.010
2	14:32:19	472.012	4385.057	608.020	90076.053	240.003	536.016
3	14:32:22	504.014	4333.032	528.015	89950.823	328.006	432.010
x		496.014	4314.357	589.353	88558.819	289.338	464.012
σ		21.167	81.656	54.458	2520.253	44.961	62.485

20ppb25/07/2018 14:34:10

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:34:10	4953.349	7399.010	14840.103	82165.645	4008.884	61990.638
2	14:34:13	5013.382	7310.939	15236.758	84781.500	3880.828	63029.746
3	14:34:17	5257.520	7855.392	15180.664	82242.334	4321.027	61583.887
x		5074.750	7521.780	15085.842	83063.160	4070.246	62201.424
σ		161.104	292.253	214.656	1488.620	226.424	745.621

50ppb25/07/2018 14:36:04

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:36:04	11303.022	11667.482	36746.115	76540.867	9500.962	153586.520

2	14:36:08	11443.198	11831.694	35830.471	76294.812	9901.389	150162.020
3	14:36:12	11335.062	11258.968	36087.485	75726.086	9613.080	151349.470
x		11360.427	11586.048	36221.357	76187.255	9671.810	151699.330
σ		73.449	294.920	472.274	417.903	206.573	1738.852

100ppb25/07/2018 14:37:59

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:37:59	21770.035	18081.965	70947.771	75145.297	18262.325	292284.320
2	14:38:03	22395.552	19288.441	71338.813	75552.652	18534.876	298005.640
3	14:38:06	21677.815	18903.634	70556.746	76314.980	18422.648	290917.510
x		21947.801	18758.013	70947.777	75670.976	18406.616	293735.820
σ		390.496	616.279	391.034	593.751	136.981	3760.392

200ppb25/07/2018 14:39:55

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:39:55	43093.898	32799.061	142609.860	69367.647	34525.436	578162.340
2	14:39:59	43037.633	32160.787	141655.110	68678.444	34754.306	580973.330
3	14:40:02	44014.292	33397.233	141939.490	69581.270	35452.996	584552.170
x		43381.941	32785.694	142068.150	69209.120	34910.912	581229.280
σ		548.354	618.331	490.208	471.828	483.204	3202.595

500ppb25/07/2018 14:41:50

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:41:50	105006.970	72774.123	108689.880	64125.369	85613.240	1433203.300
2	14:41:54	106872.520	76355.316	120995.880	68360.058	87321.372	1457301.600
3	14:41:58	102389.370	74729.893	128980.530	67763.617	88076.605	1450056.600
x		104756.290	74619.778	119555.430	66749.681	87003.739	1446853.900
σ		2252.067	1793.134	10221.732	2292.204	1262.026	12364.280

1ppm25/07/2018 14:43:46

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:43:46	193930.670	133257.560	133285.970	60991.917	156906.500	2817247.700
2	14:43:50	198352.550	134751.340	144320.540	60319.452	157085.550	2796864.100
3	14:43:54	199067.940	134446.880	138693.970	60770.441	156051.970	2748277.300
x		197117.050	134151.930	138766.830	60693.937	156681.340	2787463.000
σ		2782.575	789.361	5517.645	342.698	552.350	35433.257

blank25/07/2018 14:45:44

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:45:44	56.000	68.000	6218.126	53158.970	2168.258	524.015
2	14:45:47	80.000	60.000	6634.420	53275.650	2268.283	536.016
3	14:45:51	100.001	80.000	6862.589	52752.613	2100.243	476.012
X		78.667	69.334	6571.712	53062.411	2178.928	512.014
σ		22.030	10.067	326.776	274.563	84.527	31.751

blank25/07/2018 14:47:40

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:47:40	48.000	60.000	4921.332	55529.075	1228.083	204.002
2	14:47:44	68.000	68.000	5477.650	54378.149	1328.097	156.001
3	14:47:48	72.000	76.000	5625.740	54635.686	1236.084	160.001
X		62.667	68.000	5341.574	54847.637	1264.088	173.335
σ		12.858	8.000	371.396	604.028	55.578	26.634

blank25/07/2018 14:49:37

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:49:37	92.000	76.000	4589.158	56833.096	784.034	388.008
2	14:49:41	60.000	64.000	5253.517	58608.314	932.048	352.007
3	14:49:44	56.000	64.000	5685.778	57191.333	1004.055	320.006
X		69.334	68.000	5176.151	57544.248	906.712	353.340
σ		19.732	6.928	552.388	938.755	112.178	34.021

15.3125/07/2018 14:51:35

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:51:35	2572.364	3392.633	4745.238	39690.455	688.026	45984.006
2	14:51:39	2624.379	3804.796	5193.483	41273.480	600.020	45055.373
3	14:51:43	2480.338	3780.786	5001.375	39336.923	552.017	45071.453
X		2559.027	3659.405	4980.032	40100.286	613.354	45370.277
σ		72.940	231.343	224.883	1031.278	68.978	531.565

15.3525/07/2018 14:53:34

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:53:34	1652.150	1700.159	4297.015	38637.935	528.015	71391.222
2	14:53:37	1908.200	1596.140	4329.030	40088.194	520.015	71217.871
3	14:53:41	1856.190	1808.180	4277.006	39047.680	504.014	70810.709

X	1805.513	1701.493	4301.017	39257.936	517.348	71139.934
σ	135.338	106.026	26.242	747.642	12.221	298.001

15.3625/07/2018 14:55:30

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:55:30	2036.228	1872.193	3596.711	38007.285	404.009	32835.191
2	14:55:34	1988.217	1672.154	3768.781	38159.922	412.009	33108.179
3	14:55:37	2064.234	1844.187	3980.871	35979.056	432.010	33826.817
X		2029.560	1796.178	3782.121	37382.088	416.010	33256.729
σ		38.445	108.317	192.427	1217.455	14.423	512.231

16.3425/07/2018 14:57:26

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:57:26	1624.145	1680.155	3384.630	38453.154	396.009	28484.556
2	14:57:30	1432.113	1620.144	3624.722	38911.096	372.008	28608.945
3	14:57:34	1496.123	1760.170	3684.747	38429.052	392.008	28588.882
X		1517.460	1686.823	3564.700	38597.767	386.675	28560.794
σ		97.778	70.251	158.807	271.618	12.859	66.782

16.3625/07/2018 14:59:22

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:59:22	1484.121	1724.164	2776.424	38011.301	324.006	13882.592
2	14:59:26	1808.180	1948.209	2976.487	37011.187	308.005	13762.409
3	14:59:30	1616.144	1944.208	3160.549	37023.236	368.007	13962.714
X		1636.148	1872.193	2971.153	37348.575	333.339	13869.239
σ		162.953	128.213	192.118	573.969	31.071	100.818

15.3125/07/2018 15:01:18

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:01:18	2468.335	3468.662	2704.402	38517.425	312.005	44428.298
2	15:01:22	2744.414	3824.804	2656.388	37075.449	252.003	44745.850
3	15:01:26	2732.411	3844.813	3096.527	36127.644	256.004	44564.965
X		2648.387	3712.760	2819.106	37240.173	273.337	44579.704
σ		156.045	211.632	241.450	1203.376	33.547	159.288

15.3525/07/2018 15:03:14

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
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1	15:03:14	1620.144	1596.140	2392.315	36183.867	216.003	66756.205
2	15:03:18	1608.142	1648.149	2308.293	37955.067	248.003	69484.535
3	15:03:22	1668.153	1692.158	2312.294	36521.212	328.006	69141.937
x		1632.147	1645.482	2337.634	36886.715	264.004	68460.892
σ		31.755	48.064	47.397	940.469	57.691	1486.207

15.3625/07/2018 15:05:44

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:05:44	2436.326	2000.220	1908.200	33533.734	212.002	36256.154
2	15:05:47	2400.317	1920.203	2048.231	32734.830	264.004	37762.267
3	15:05:51	2356.305	2008.222	2224.272	32919.495	276.004	36894.715
x		2397.650	1976.215	2060.234	33062.687	250.670	36971.045
σ		40.077	48.673	158.377	418.258	34.021	755.952

16.3425/07/2018 15:07:40

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:07:40	1324.096	1544.131	1780.174	36971.025	236.003	25427.511
2	15:07:44	1404.108	1604.142	1932.205	36577.437	228.003	26326.063
3	15:07:48	1520.127	1484.121	1912.201	36155.755	212.002	26233.797
x		1416.111	1544.131	1874.860	36568.072	225.336	25995.790
σ		98.565	60.010	82.608	407.715	12.221	494.302

16.3625/07/2018 15:09:37

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:09:37	1748.168	2056.233	1480.121	35344.575	188.002	13534.067
2	15:09:41	1604.142	1936.206	1640.148	34975.150	184.002	12813.023
3	15:09:45	1512.126	1656.151	1608.142	35930.866	196.002	13305.730
x		1621.478	1882.863	1576.137	35416.864	189.335	13217.607
σ		118.972	205.306	84.679	481.942	6.110	368.511

15.3125/07/2018 15:11:36

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:11:36	3272.589	4705.217	1828.184	32586.298	248.003	54869.086
2	15:11:40	3232.575	4389.059	1832.185	31771.421	252.003	53991.857
3	15:11:44	3216.569	4537.132	1836.185	31129.205	240.003	54289.622
x		3240.577	4543.803	1832.185	31828.975	246.670	54383.522
σ		28.855	158.185	4.001	730.249	6.110	446.089

15.3525/07/2018 15:13:36

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:13:36	1604.142	1628.146	1000.055	34585.664	216.003	67739.438
2	15:13:40	1640.148	1428.112	1092.066	34240.361	204.002	68323.786
3	15:13:44	1512.126	1776.174	1140.072	33140.295	188.002	66885.147
X		1585.472	1610.811	1077.397	33988.774	202.669	67649.457
σ		66.022	174.677	71.151	754.815	14.048	723.528

15.3625/07/2018 15:15:36

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:15:36	2052.232	1708.161	1060.062	33674.252	160.001	32172.829
2	15:15:40	2152.255	1676.155	1116.069	31927.968	148.001	32068.462
3	15:15:44	2188.263	1716.162	1080.064	31863.744	152.001	31960.081
X		2130.917	1700.159	1085.398	32488.655	153.335	32067.124
σ		70.482	21.170	28.382	1027.259	6.110	106.381

16.3425/07/2018 15:17:38

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:17:38	1384.105	1500.124	876.042	34119.909	196.002	25904.856
2	15:17:41	1428.112	1740.167	948.049	33702.356	144.001	26053.279
3	15:17:45	1488.122	1680.155	1028.058	33385.189	176.002	26358.156
X		1433.446	1640.149	950.717	33735.818	172.002	26105.430
σ		52.213	124.922	76.043	368.501	26.230	231.106

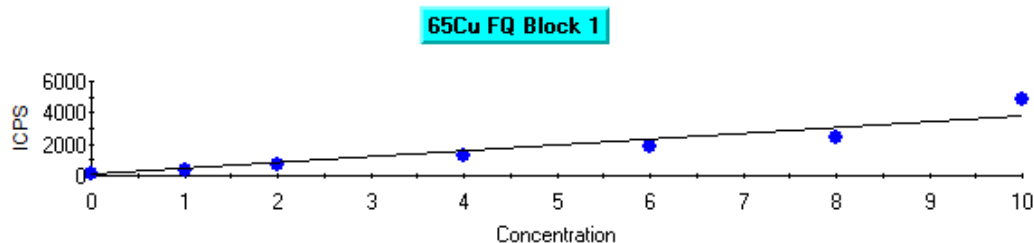
16.3625/07/2018 15:19:36

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:19:36	1736.166	1644.149	764.032	32702.715	184.002	13233.625
2	15:19:40	1652.150	1836.185	860.041	32465.868	176.002	13153.509
3	15:19:43	1588.139	1772.173	800.035	31839.660	112.001	13738.373
X		1658.818	1750.836	808.036	32336.081	180.002	13375.169
σ		74.238	97.780	48.502	445.926	5.657	317.084

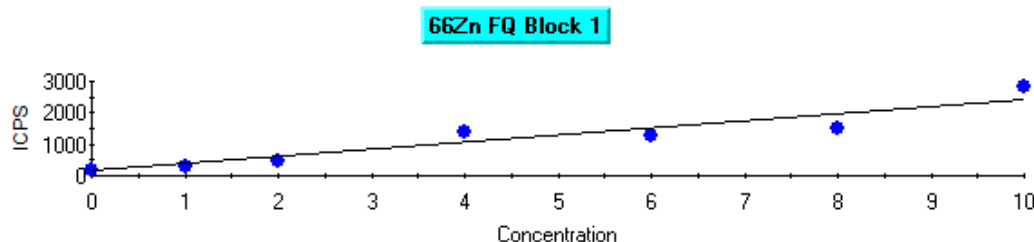
6.1.12 Batch using the same samples from 6.1.11 and method with a reduced concentration range to reduce carryover (digested on ETHOS EZ, mass uncorrected counts are also included)

Fully Quant Calibration



Intercept CPS=113.567440 Intercept Conc=0.307053
Sensitivity=369.862941 Correlation Coeff=0.949731

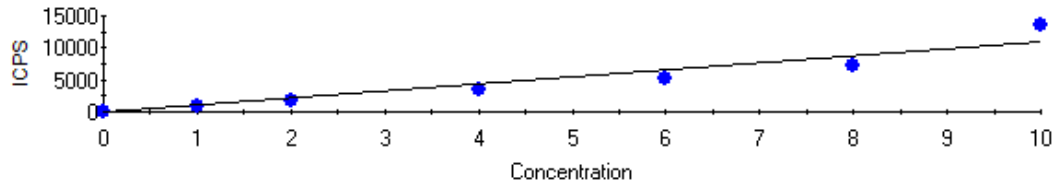
Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	113.57	0.00
1ppb	1.000	0.711	0.289	376.52	28.91
2ppb	2.000	1.513	0.487	673.04	24.37
4ppb	4.000	3.086	0.914	1254.95	22.85
6ppb	6.000	4.598	1.402	1814.12	23.37
8ppb	8.000	6.353	1.647	2463.28	20.59
10ppb	10.000	12.651	2.651	4792.69	26.51



Intercept CPS=185.791481 Intercept Conc=0.833260
Sensitivity=222.969425 Correlation Coeff=0.943086

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	185.79	0.00
1ppb	1.000	0.568	0.432	312.42	43.21
2ppb	2.000	1.365	0.635	490.05	31.77
4ppb	4.000	5.410	1.410	1392.00	35.24
6ppb	6.000	4.750	1.250	1244.84	20.84
8ppb	8.000	6.022	1.978	1528.41	24.73
10ppb	10.000	11.939	1.939	2847.90	19.39

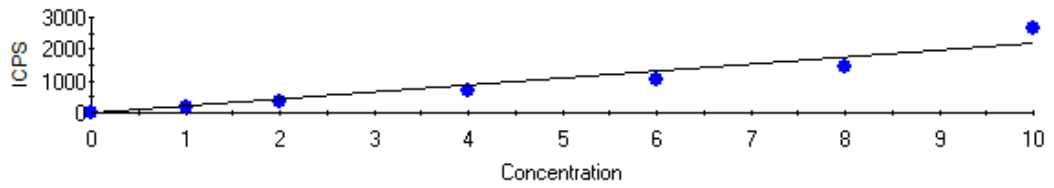
107Ag FQ Block 1



Intercept CPS=22.514819 Intercept Conc=0.020471
Sensitivity=1099.829446 Correlation Coeff=0.957628

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	22.51	0.00
1ppb	1.000	0.806	0.194	908.55	19.44
2ppb	2.000	1.552	0.448	1729.59	22.39
4ppb	4.000	3.083	0.917	3412.91	22.93
6ppb	6.000	4.748	1.252	5244.52	20.87
8ppb	8.000	6.546	1.454	7222.03	18.17
10ppb	10.000	12.390	2.390	13649.76	23.90

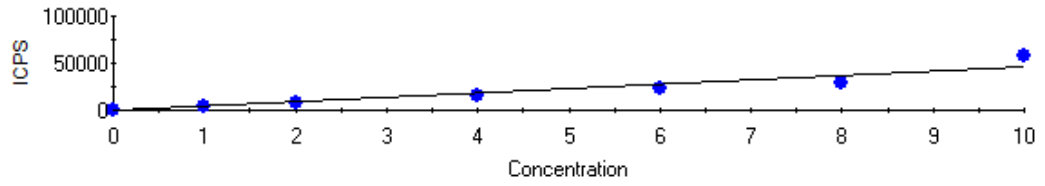
202Hg FQ Block 1



Intercept CPS=23.786746 Intercept Conc=0.110632
Sensitivity=215.007498 Correlation Coeff=0.960967

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	-0.000	0.000	23.79	0.00
1ppb	1.000	0.719	0.281	178.34	28.12
2ppb	2.000	1.488	0.512	343.61	25.62
4ppb	4.000	3.048	0.952	679.15	23.80
6ppb	6.000	4.674	1.326	1028.64	22.11
8ppb	8.000	6.727	1.273	1470.07	15.92
10ppb	10.000	12.326	2.326	2673.95	23.26

208Pb FQ Block 1



Intercept CPS=268.056628 Intercept Conc=0.058108
Sensitivity=4613.036851 Correlation Coeff=0.953393

Label	Defined	Measured	Error	Mean CPS	% Error
blank	0.000	0.000	0.000	268.06	0.00
1ppb	1.000	0.760	0.240	3774.84	23.98
2ppb	2.000	1.544	0.456	7388.69	22.82
4ppb	4.000	3.222	0.778	15130.53	19.45
6ppb	6.000	4.821	1.179	22508.43	19.65
8ppb	8.000	6.293	1.707	29297.23	21.34
10ppb	10.000	12.500	2.500	57928.82	25.00

Dilution Corrected Concentrations

blank31/07/2018 14:46:02

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:46:02	-0.083	0.088	0.001	101.235%	0.073	-0.001
2	14:46:06	0.033	-0.216	0.008	101.649%	-0.001	-0.000
3	14:46:10	0.049	0.127	-0.009	97.115%	-0.072	0.001
x		-0.000	-0.000	-0.000	100.000%	-0.000	0.000
σ		0.072	0.188	0.009	2.507%	0.073	0.001

1ppb31/07/2018 14:47:57

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:47:57	0.787	0.504	0.843	93.912%	0.642	0.770
2	14:48:01	0.620	0.570	0.814	93.328%	0.727	0.771
3	14:48:05	0.726	0.630	0.760	93.187%	0.788	0.740
x		0.711	0.568	0.806	93.476%	0.719	0.760
σ		0.084	0.063	0.042	0.385%	0.073	0.018

2ppb31/07/2018 14:49:53

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:49:53	1.316	1.152	1.661	81.317%	1.628	1.616
2	14:49:56	1.501	1.387	1.395	89.702%	1.072	1.517
3	14:50:00	1.721	1.555	1.600	86.394%	1.763	1.498
X		1.513	1.365	1.552	85.805%	1.488	1.544
σ		0.203	0.202	0.140	4.224%	0.366	0.063

4ppb31/07/2018 14:51:49

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:51:49	2.796	5.110	3.051	85.733%	2.993	3.089
2	14:51:53	3.214	6.120	3.197	82.314%	3.325	3.380
3	14:51:57	3.247	5.000	3.000	85.504%	2.827	3.197
X		3.086	5.410	3.083	84.517%	3.048	3.222
σ		0.251	0.617	0.102	1.911%	0.254	0.147

6ppb31/07/2018 14:53:46

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:53:46	4.678	4.979	4.797	83.962%	4.720	4.845
2	14:53:49	4.302	4.484	4.764	87.051%	5.019	4.716
3	14:53:54	4.813	4.786	4.682	85.558%	4.282	4.902
X		4.598	4.750	4.748	85.524%	4.674	4.821
σ		0.265	0.249	0.059	1.545%	0.371	0.095

8ppb31/07/2018 14:55:43

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:55:43	6.518	6.606	6.551	83.204%	6.128	6.372
2	14:55:47	6.242	6.316	6.562	84.565%	7.194	6.349
3	14:55:51	6.300	5.142	6.525	86.769%	6.858	6.157
X		6.353	6.022	6.546	84.846%	6.727	6.293
σ		0.146	0.775	0.019	1.799%	0.545	0.118

10ppb31/07/2018 14:57:40

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
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		ppb	ppb	ppb	ppb	ppb	ppb
1	14:57:40	11.920	11.880	11.830	58.140%	11.700	11.520
2	14:57:43	12.600	12.500	13.100	52.732%	12.170	12.890
3	14:57:47	13.440	11.430	12.240	51.922%	13.110	13.090
x		12.650	11.940	12.390	54.264%	12.330	12.500
σ		0.765	0.538	0.645	3.381%	0.720	0.854

blank31/07/2018 14:59:37

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	14:59:37	0.015	-0.107	0.049	83.987%	0.177	0.159
2	14:59:40	0.075	0.012	0.014	84.906%	0.152	0.141
3	14:59:44	-0.042	-0.226	0.022	85.606%	0.237	0.138
x		0.016	-0.107	0.028	84.833%	0.189	0.146
σ		0.058	0.119	0.018	0.812%	0.044	0.011

10 ppb from stock (test)31/07/2018 15:01:35

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:01:35	126.900	121.200	139.400	47.079%	168.800	138.800
2	15:01:39	122.400	119.900	138.200	48.266%	162.500	132.200
3	15:01:43	127.200	123.100	144.500	46.298%	167.900	137.000
x		125.500	121.400	140.700	47.214%	166.400	136.000
σ		2.721	1.608	3.327	0.991%	3.383	3.384

blank31/07/2018 15:03:34

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:03:34	0.030	-0.253	0.097	86.633%	0.834	0.602
2	15:03:38	0.019	-0.189	0.098	86.282%	0.860	0.594
3	15:03:42	0.022	-0.025	0.090	88.773%	0.874	0.517
x		0.024	-0.156	0.095	87.229%	0.856	0.571
σ		0.006	0.118	0.004	1.348%	0.020	0.047

15.3131/07/2018 15:05:33

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:05:33	1286.000	3092.000	90.570	60.867%	40.900	1954.000

2	15:05:37	1244.000	3028.000	90.810	59.926%	57.240	1939.000
3	15:05:41	1218.000	3140.000	76.340	62.177%	36.810	1906.000
x		1249.000	3087.000	85.910	60.990%	44.980	1933.000
σ		34.250	56.420	8.290	1.131%	10.810	24.580

15.3531/07/2018 15:07:34

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:07:34	1121.000	1708.000	15.130	59.285%	39.150	4049.000
2	15:07:37	1087.000	1749.000	22.590	59.038%	36.210	4064.000
3	15:07:41	1015.000	1720.000	25.580	56.602%	61.250	4257.000
x		1074.000	1726.000	21.100	58.308%	45.530	4124.000
σ		54.150	21.050	5.384	1.483%	13.690	116.100

15.3631/07/2018 15:09:31

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:09:31	1228.000	1752.000	21.940	59.144%	39.270	1788.000
2	15:09:35	1291.000	1947.000	25.180	57.441%	34.280	1795.000
3	15:09:39	1446.000	1912.000	28.050	55.579%	12.370	1866.000
x		1322.000	1870.000	25.060	57.388%	28.640	1816.000
σ		112.600	103.900	3.062	1.783%	14.310	42.900

16.3431/07/2018 15:11:27

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:11:27	855.500	1513.000	11.730	58.096%	43.380	1335.000
2	15:11:30	818.500	1412.000	10.480	58.082%	33.780	1331.000
3	15:11:34	864.200	1552.000	11.920	57.286%	8.422	1382.000
x		846.100	1492.000	11.370	57.821%	28.530	1349.000
σ		24.300	72.250	0.783	0.464%	18.060	28.560

16.3631/07/2018 15:13:23

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:13:23	777.200	1507.000	10.160	59.571%	26.410	611.800
2	15:13:26	832.200	1682.000	12.830	58.659%	14.310	602.600
3	15:13:30	880.900	1519.000	8.004	57.897%	11.430	639.700

x	830.100	1569.000	10.330	58.709%	17.380	618.000
σ	51.880	97.570	2.419	0.838%	7.951	19.330

blank31/07/2018 15:15:21

User Pre-dilution: 1.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:15:21	-0.028	0.007	0.009	85.412%	0.042	0.045
2	15:15:25	0.095	-0.228	0.013	85.976%	0.236	0.034
3	15:15:29	0.057	-0.229	-0.003	83.184%	0.001	0.043
x		0.041	-0.150	0.007	84.857%	0.093	0.041
σ		0.063	0.136	0.009	1.476%	0.125	0.006

Control31/07/2018 15:17:18

User Pre-dilution: 100.000

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb
1	15:17:18	426.400	1666.000	4.151	29.339%	33.320	484.100
2	15:17:22	355.200	1725.000	7.060	31.947%	47.170	431.100
3	15:17:26	448.700	1928.000	3.282	27.297%	63.910	496.300
x		410.100	1773.000	4.831	29.528%	48.130	470.500
σ		48.820	137.500	1.979	2.331%	15.310	34.670

Mass Uncorrected ICPS

blank31/07/2018 14:46:02

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:46:02	84.000	208.002	24.000	83905.428	40.000	268.004
2	14:46:06	128.001	140.001	32.000	84248.580	24.000	272.004
3	14:46:10	128.001	208.002	12.000	80490.761	8.000	264.004
x		113.334	185.335	22.667	82881.590	24.000	268.004
σ		25.404	39.261	10.066	2077.615	16.000	4.000

1ppb31/07/2018 14:47:57

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:47:57	380.008	280.004	892.044	77835.792	152.001	3588.708
2	14:48:01	320.006	292.005	856.040	77351.686	168.002	3568.700
3	14:48:05	356.007	304.005	800.035	77234.698	180.002	3428.646

X	352.007	292.005	849.373	77474.059	166.668	3528.685
σ	30.200	12.000	46.365	318.684	14.048	87.212

2ppb31/07/2018 14:49:53

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:49:53	488.013	360.007	1504.124	67396.906	304.005	6278.167
2	14:49:56	600.020	444.011	1396.107	74346.771	228.003	6518.336
3	14:50:00	648.023	460.012	1540.130	71604.893	348.007	6202.115
X		578.685	421.343	1480.121	71116.190	293.338	6332.873
σ		82.111	53.718	74.952	3500.611	60.709	165.056

4ppb31/07/2018 14:51:49

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:51:49	984.053	1136.071	2896.461	71056.616	572.018	12444.512
2	14:51:53	1072.063	1276.090	2912.467	68223.034	608.020	13053.365
3	14:51:57	1124.070	1112.068	2840.444	70867.146	540.016	12841.063
X		1060.062	1174.743	2883.124	70048.932	573.351	12779.646
σ		70.775	88.586	37.818	1584.109	34.022	309.038

6ppb31/07/2018 14:53:46

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:53:46	1548.132	1088.065	4449.088	69589.332	872.042	18991.817
2	14:53:49	1484.121	1032.059	4581.154	72149.171	960.051	19172.195
3	14:53:54	1620.144	1072.063	4425.077	70911.490	808.036	19577.057
X		1550.799	1064.062	4485.106	70883.331	880.043	19247.023
σ		68.051	28.848	84.042	1280.152	76.323	299.709

8ppb31/07/2018 14:55:43

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:55:43	2100.243	1380.105	6013.989	68960.568	1116.069	24681.459
2	14:55:47	2048.231	1348.100	6122.061	70089.149	1328.097	24994.312
3	14:55:51	2120.247	1156.074	6246.145	71915.329	1300.093	24877.994
X		2089.574	1294.759	6127.398	70321.682	1248.086	24851.255
σ		37.175	121.167	116.170	1491.043	115.185	158.131

10ppb31/07/2018 14:57:40

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
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1	14:57:40	2628.380	1648.149	7579.158	48187.374	1476.120	31052.945
2	14:57:43	2516.348	1568.135	7607.182	43704.804	1392.107	31490.446
3	14:57:47	2640.383	1420.111	7002.696	43033.614	1476.120	31494.460
x		2595.037	1545.465	7396.345	44975.264	1448.115	31345.951
σ		68.410	115.697	341.198	2801.939	48.505	253.758

blank31/07/2018 14:59:37

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	14:59:37	100.001	136.001	64.000	69609.485	52.000	840.039
2	14:59:40	120.001	160.001	32.000	70371.317	48.000	780.033
3	14:59:44	84.000	116.001	40.000	70951.802	64.000	776.033
x		101.334	137.334	45.333	70310.868	54.667	798.702
σ		18.037	22.031	16.653	673.197	8.327	35.855

10 ppb from stock (test)31/07/2018 15:01:35

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:01:35	22154.963	12805.012	72181.426	39019.560	17096.060	301543.480
2	15:01:39	21902.352	12993.279	73382.988	40003.824	16879.656	294568.290
3	15:01:43	21842.208	12792.995	73576.543	38372.815	16727.375	292717.940
x		21966.508	12863.762	73046.985	39132.066	16901.030	296276.570
σ		165.955	112.326	755.818	821.304	185.269	4654.158

blank31/07/2018 15:03:34

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:03:34	108.001	112.001	112.001	71802.442	176.002	2636.382
2	15:03:38	104.001	124.001	112.001	71512.168	180.002	2596.371
3	15:03:42	108.001	160.001	108.001	73576.543	188.002	2356.305
x		106.667	132.001	110.667	72297.051	181.335	2529.686
σ		2.309	24.980	2.309	1117.537	6.110	151.479

15.3131/07/2018 15:05:33

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:05:33	2964.483	4309.021	620.021	50447.585	68.000	55017.982
2	15:05:37	2824.439	4156.950	612.021	49667.307	88.000	53754.456
3	15:05:41	2872.454	4469.098	536.016	51533.652	64.000	54824.820
x		2887.125	4311.690	589.353	50549.515	73.334	54532.419
σ		71.166	156.091	46.364	937.338	12.858	680.623

15.3531/07/2018 15:07:34

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:07:34	2524.350	2368.308	112.001	49136.433	64.000	110900.340
2	15:07:37	2440.328	2412.320	160.001	48931.332	60.000	110843.650
3	15:07:41	2188.263	2276.285	172.002	46912.733	88.000	111317.390
x		2384.314	2352.305	148.001	48326.833	70.667	111020.460
σ		174.905	69.415	31.750	1228.933	15.144	258.705

15.3631/07/2018 15:09:31

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:09:31	2752.417	2420.322	156.001	49019.806	64.000	48931.332
2	15:09:35	2808.434	2600.372	172.002	47608.335	56.000	47728.965
3	15:09:39	3036.507	2472.336	184.002	46064.411	28.000	47978.272
x		2865.786	2497.677	170.668	47564.184	49.333	48212.856
σ		150.479	92.661	14.048	1478.192	18.903	634.582

16.3431/07/2018 15:11:27

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:11:27	1904.199	2068.235	88.000	48151.183	68.000	35934.882
2	15:11:30	1824.183	1936.206	80.000	48139.119	56.000	35806.377
3	15:11:34	1896.198	2088.240	88.000	47479.665	24.000	36677.841
x		1874.860	2030.894	85.334	47923.322	49.333	36139.700
σ		44.070	82.610	4.619	384.266	22.745	470.452

16.3631/07/2018 15:13:23

User Pre-dilution: 100.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:13:23	1780.174	2112.245	80.000	49373.714	48.000	16971.828
2	15:13:26	1872.193	2308.293	96.001	48617.656	32.000	16462.893
3	15:13:30	1952.210	2068.235	64.000	47986.314	28.000	17240.332
x		1868.192	2162.925	80.000	48659.228	36.000	16891.684
σ		86.087	127.801	16.000	694.633	10.583	394.867

blank31/07/2018 15:15:21

User Pre-dilution: 1.00

Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:15:21	88.000	160.001	28.000	70790.553	28.000	408.009
2	15:15:25	128.001	116.001	32.000	71258.185	64.000	364.007

3	15:15:29	112.001	112.001	16.000	68944.446	20.000	388.008
X		109.334	129.334	25.333	70331.061	37.333	386.675
σ		20.133	26.634	8.327	1223.395	23.438	22.031

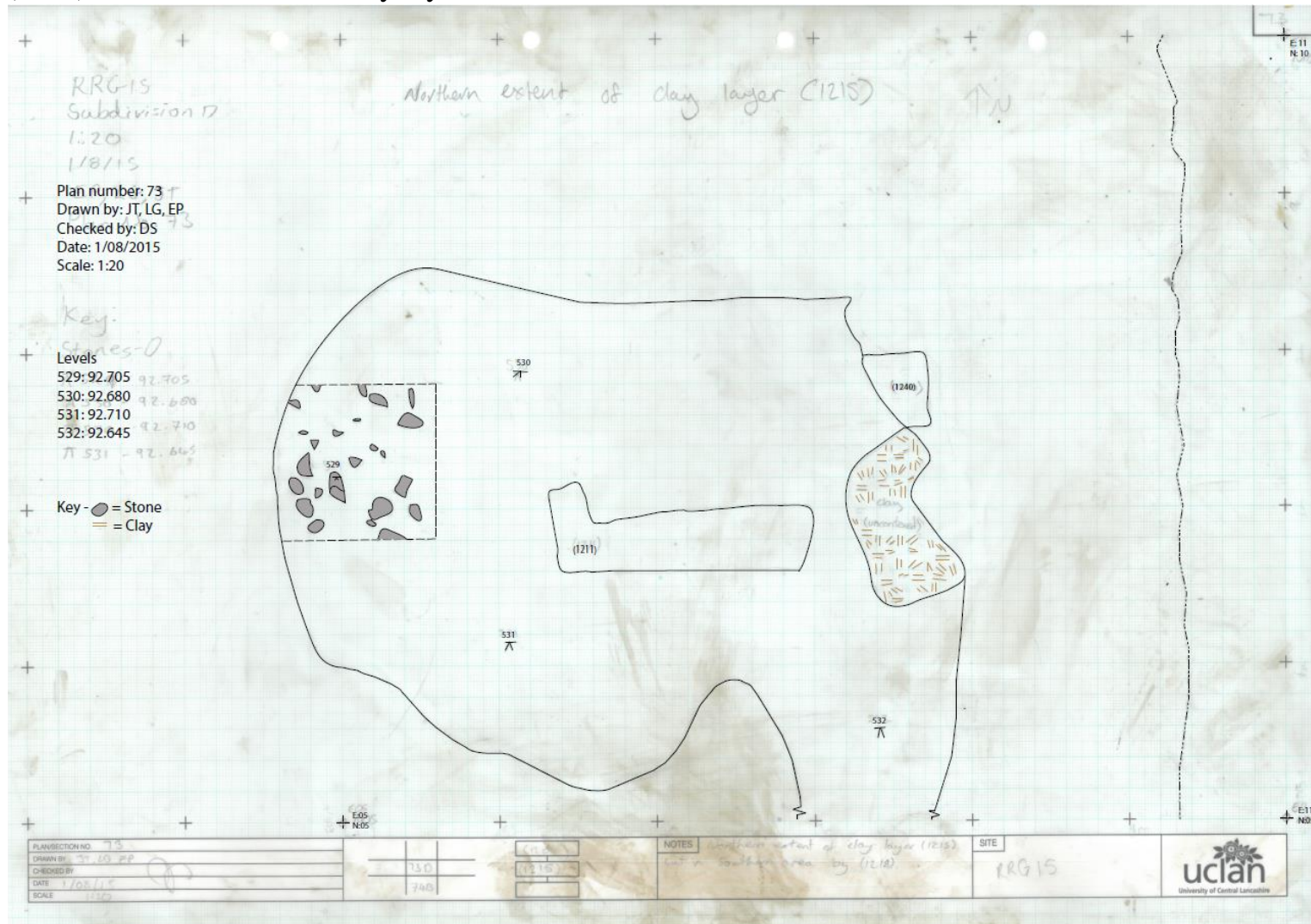
Control31/07/2018 15:17:18

User Pre-dilution: 100.00

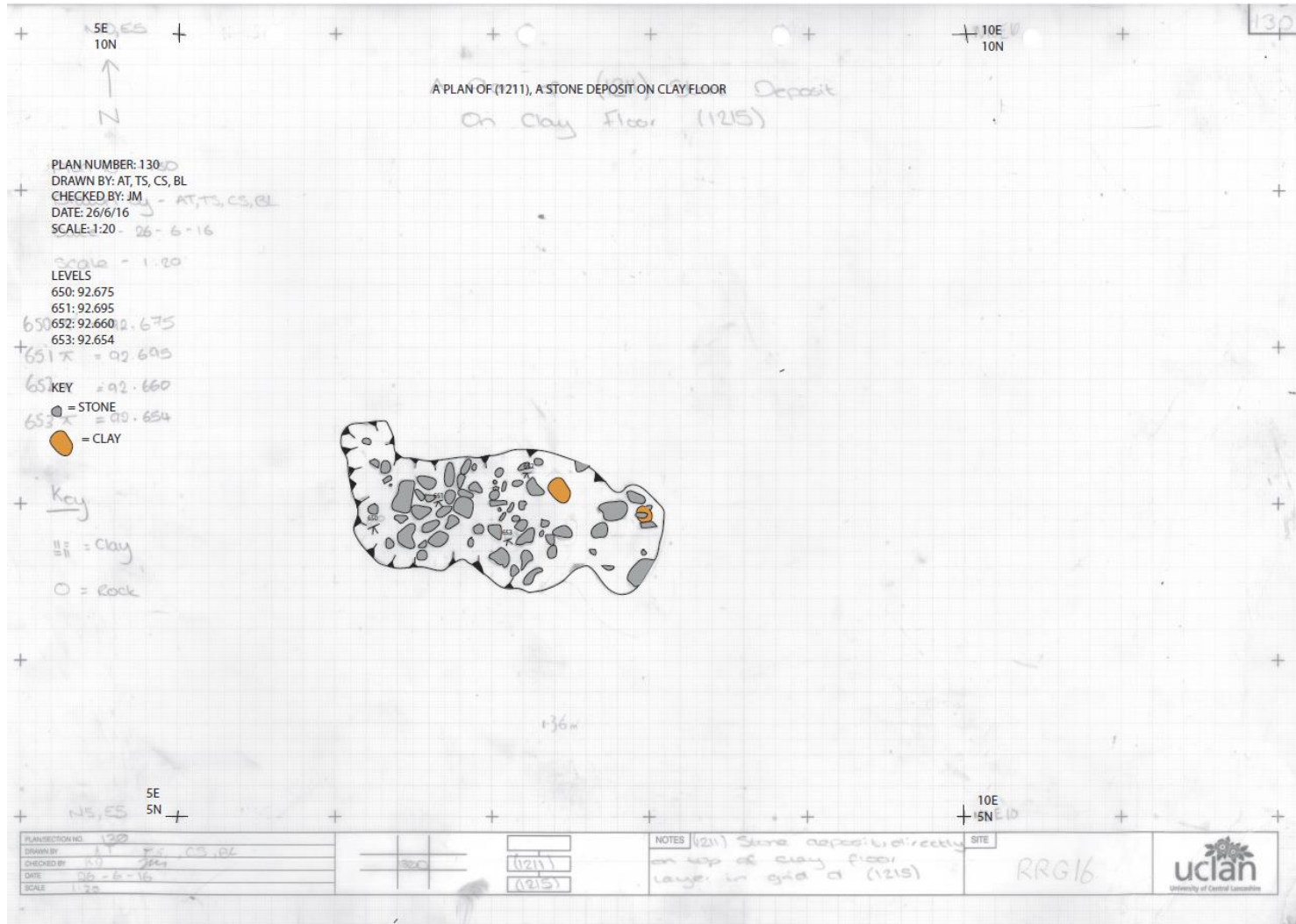
Run	Time	65Cu	66Zn	107Ag	197Au	202Hg	208Pb
1	15:17:18	496.014	1144.072	20.000	24316.478	28.000	6630.417
2	15:17:22	456.011	1288.091	32.000	26478.505	40.000	6438.279
3	15:17:26	484.013	1224.082	16.000	22624.117	44.000	6322.198
X		478.679	1218.749	22.667	24473.033	37.333	6463.631
σ		20.527	72.158	8.327	1931.957	8.327	155.666

6.2 Context numbers and their respective descriptions

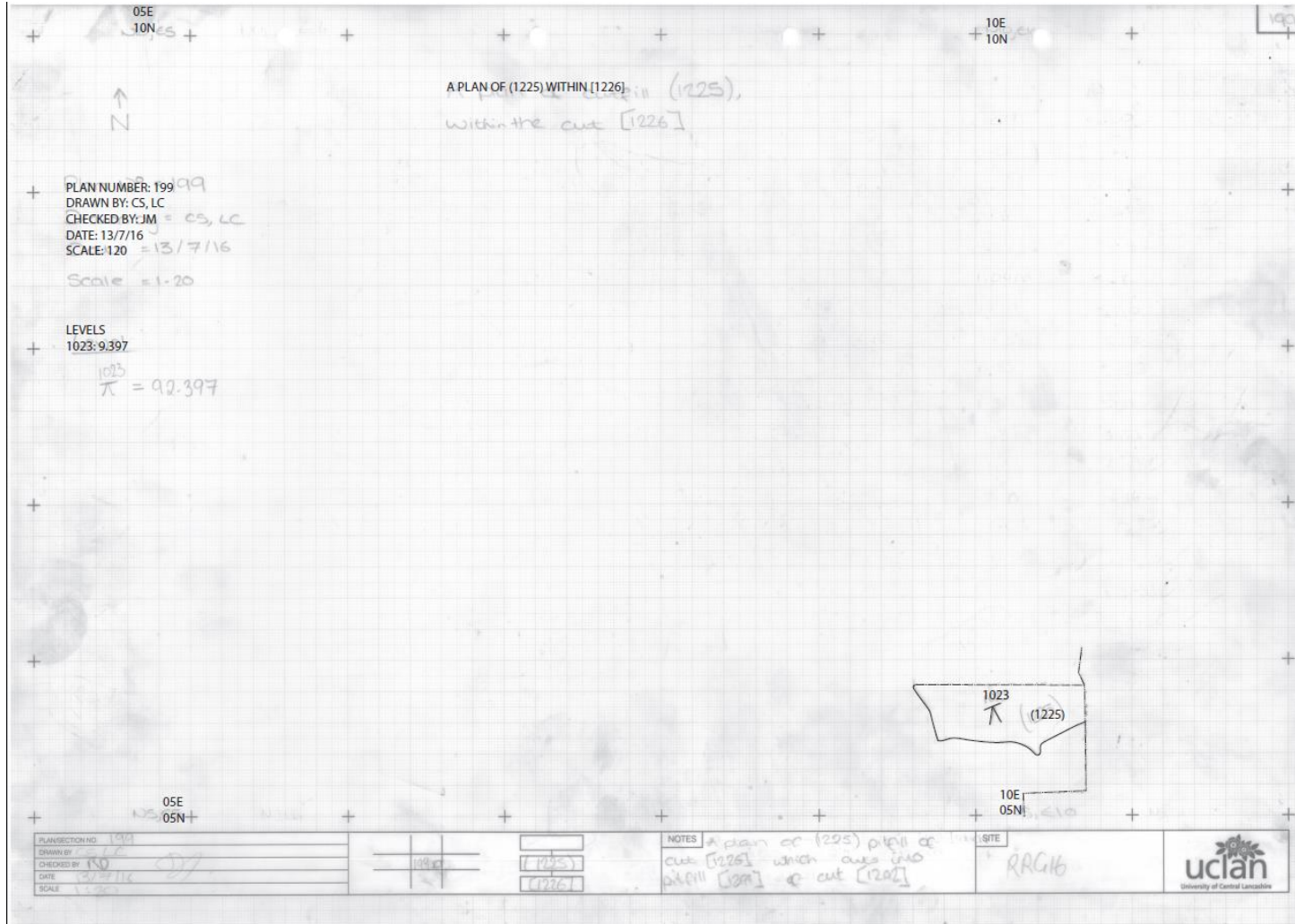
6.2.1 Context (1215) Northern extent of clay layer



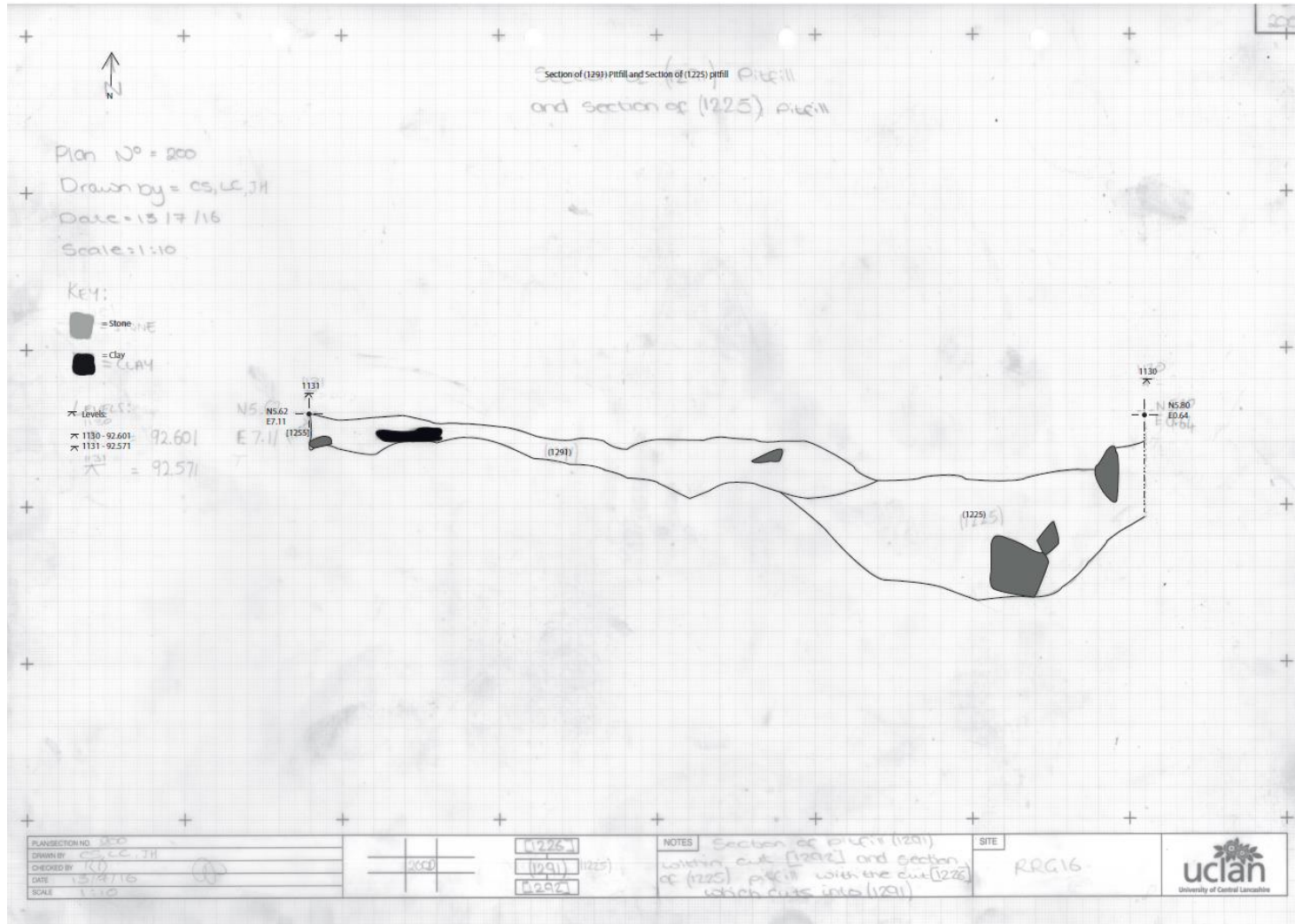
6.2.2 Context (1211) A stone deposit on clay floor



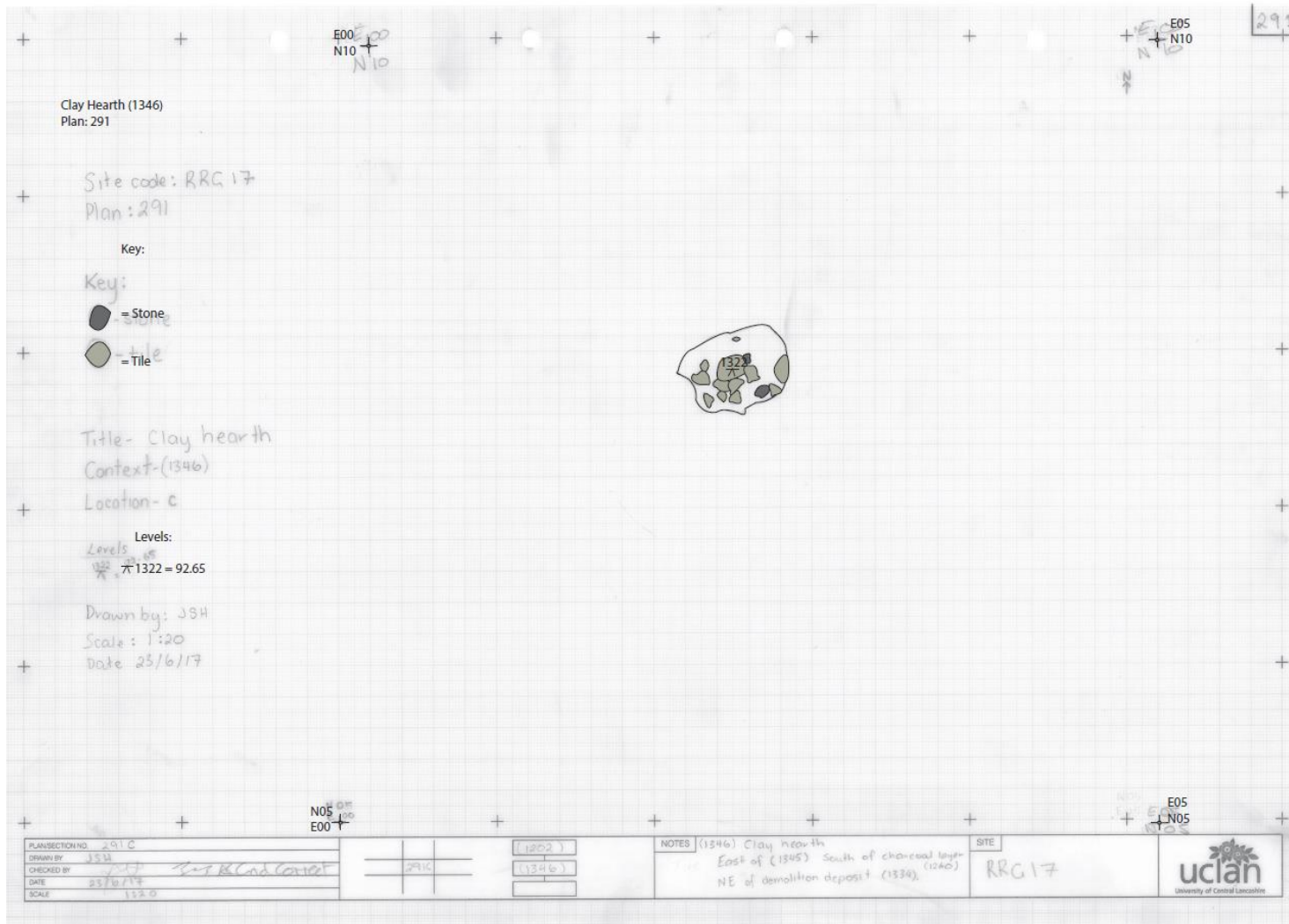
6.2.3 Context (1225) A plan of (1225) within [1226]



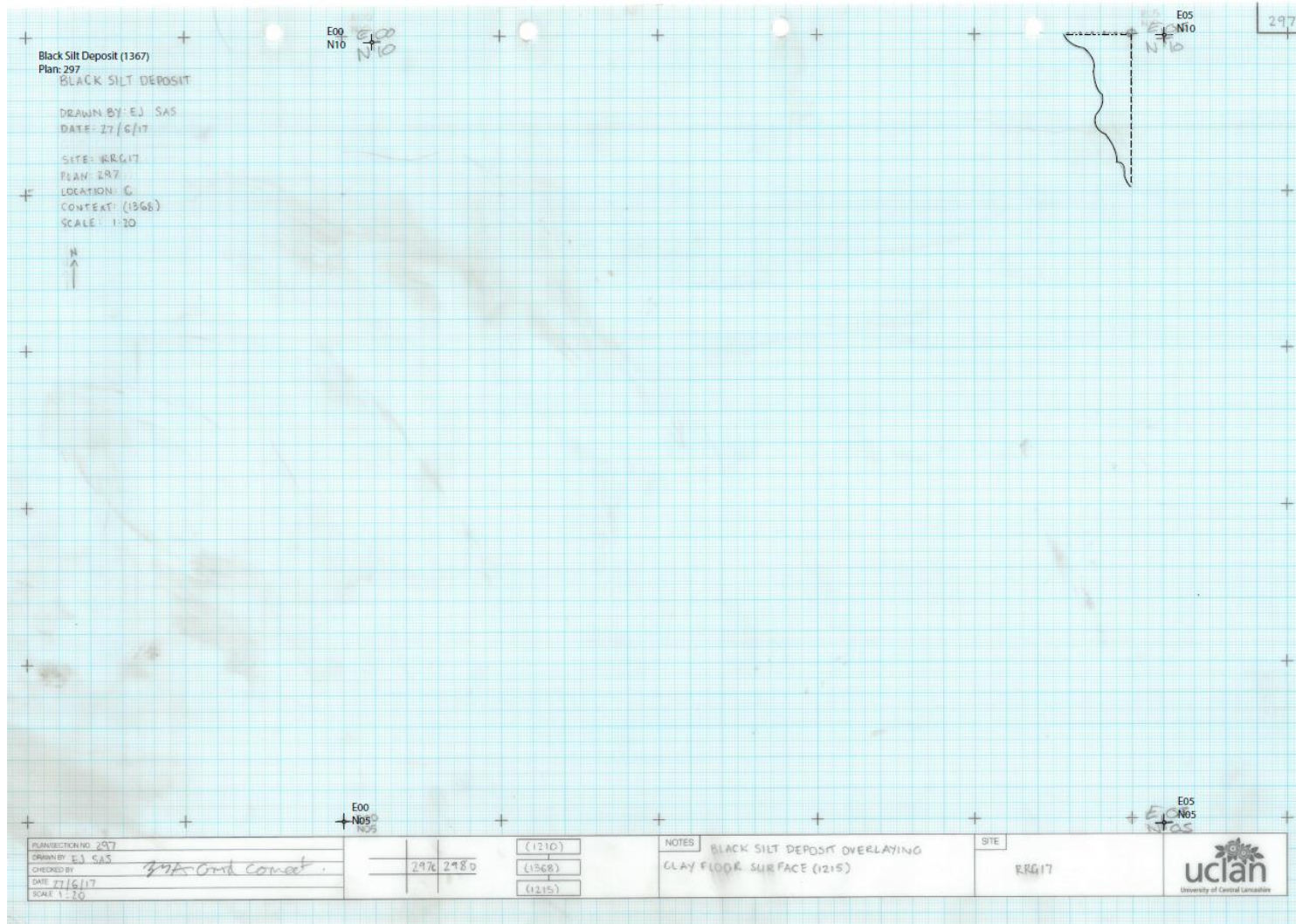
6.2.4 Context (1225) Section of (1291) pitfill and section of (1225) pitfill



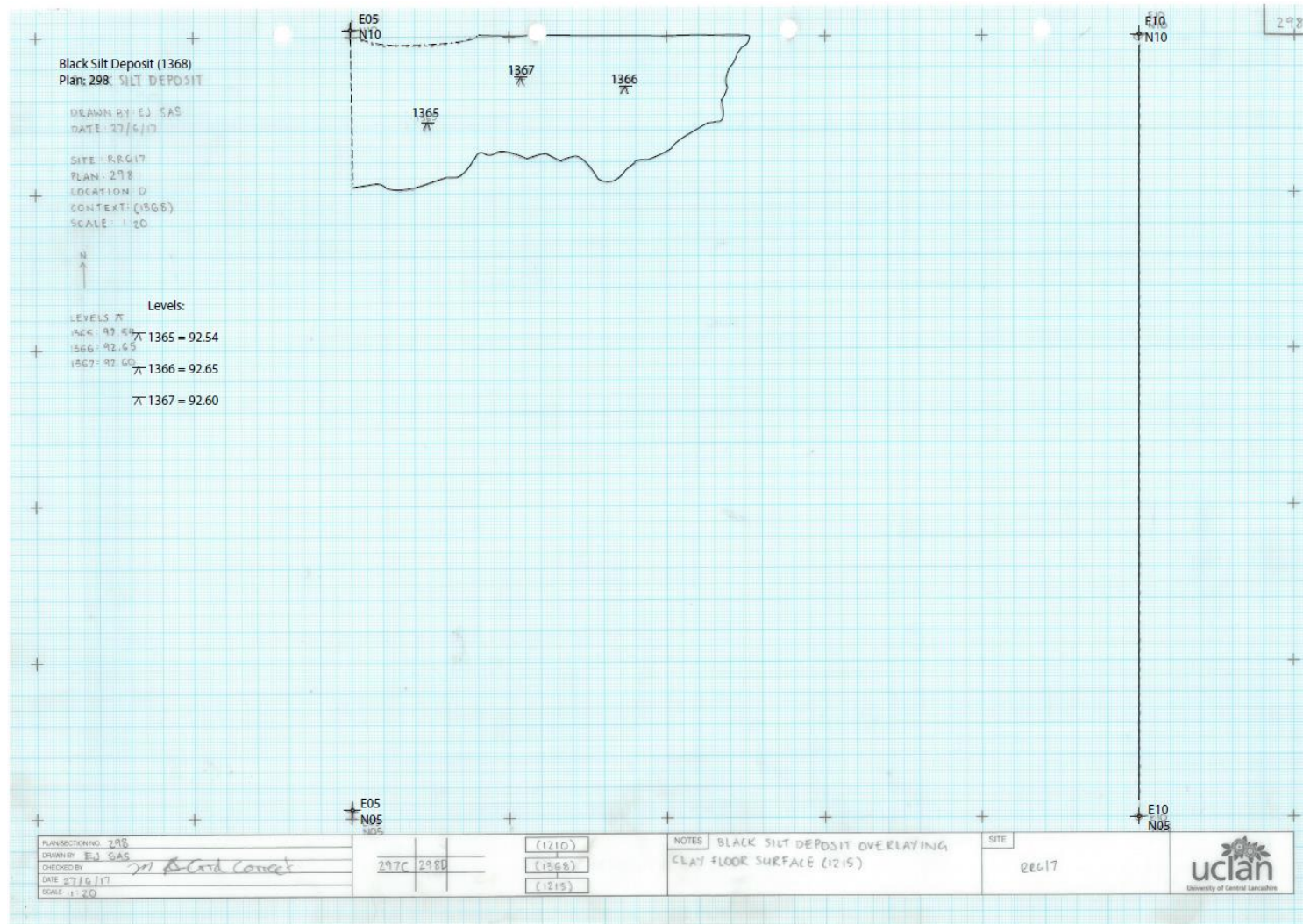
6.2.5 Context (1346) Clay Hearth



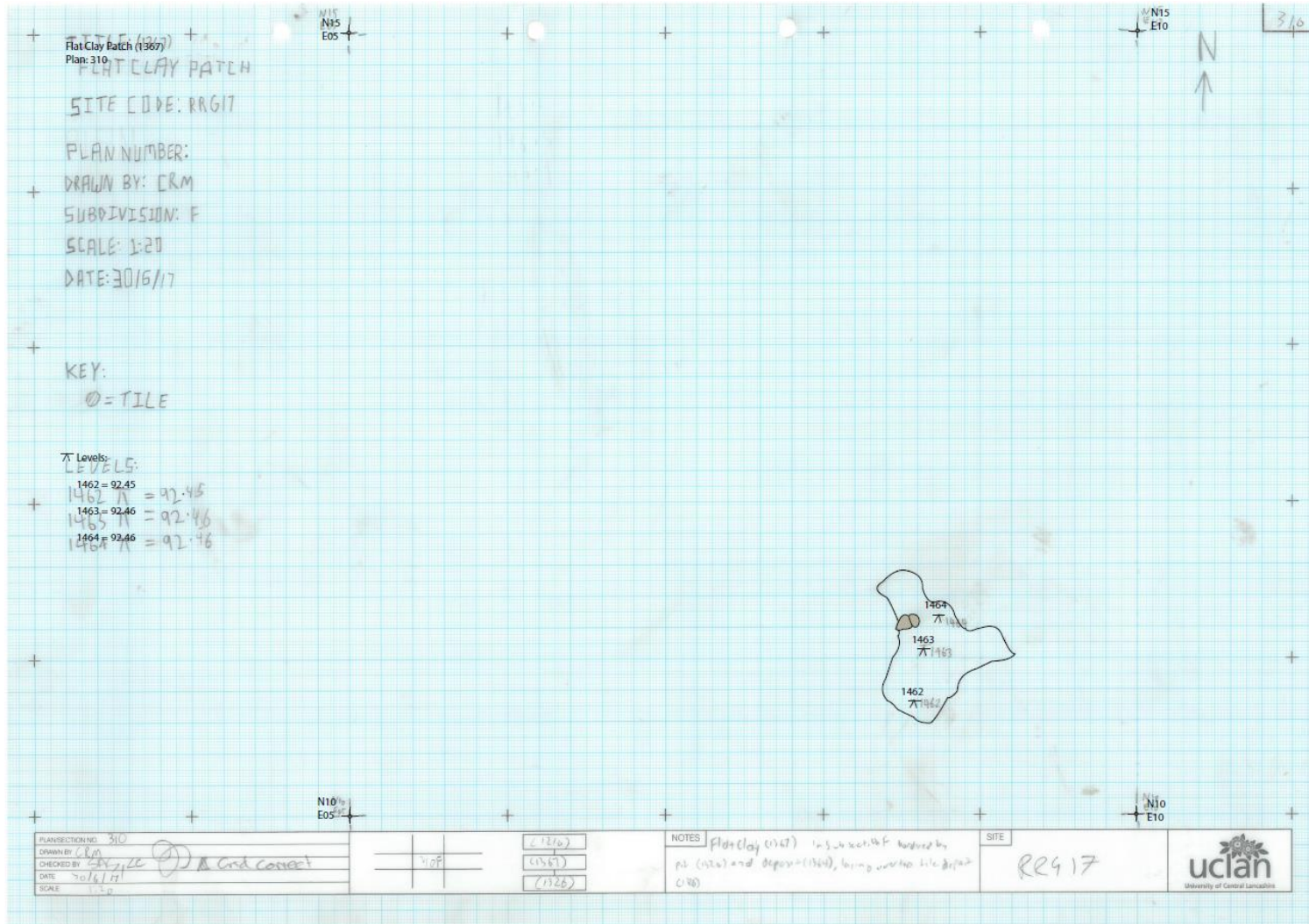
6.2.6 Context (1368) Black silt deposit, plan: 297



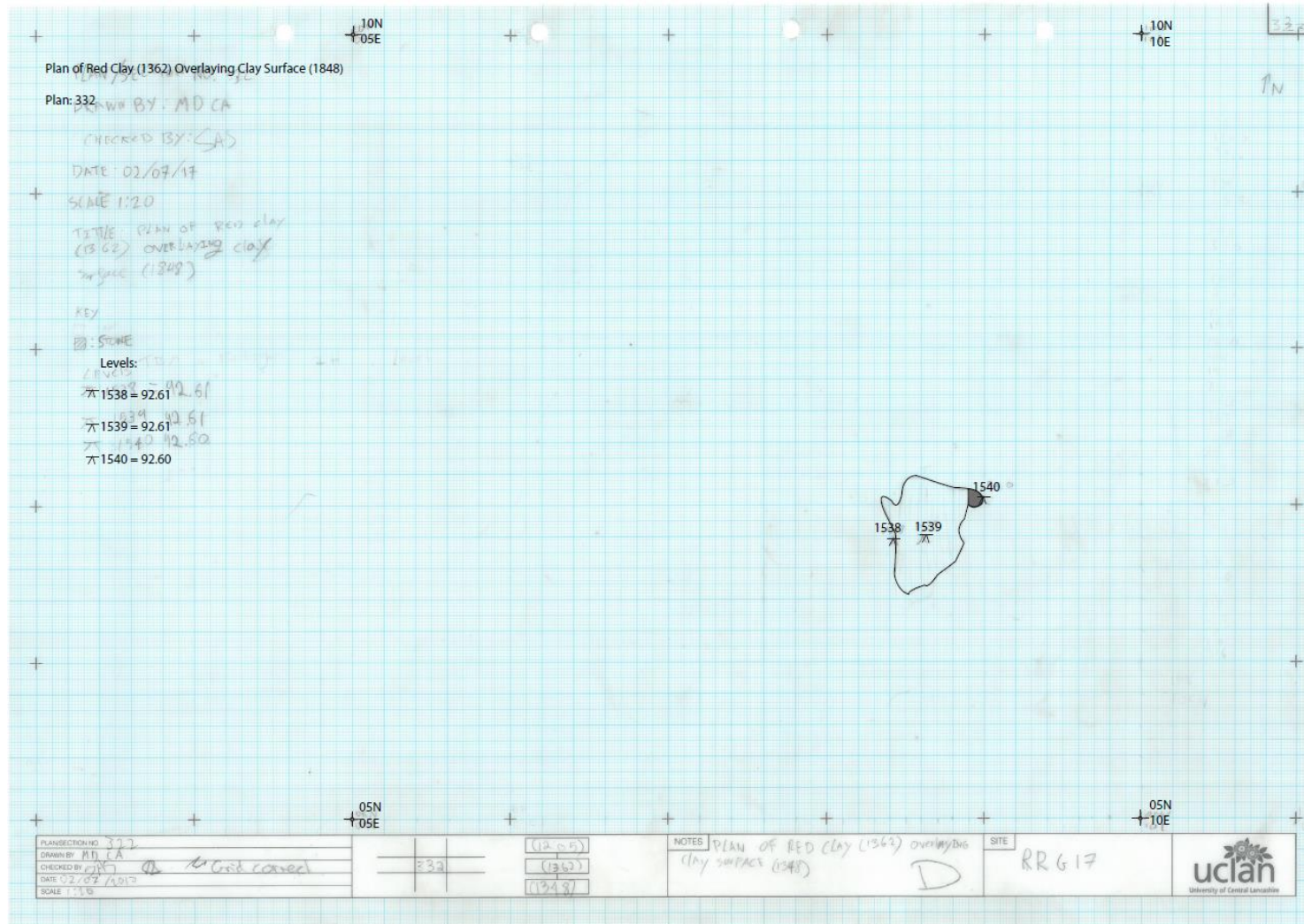
6.2.7 Context (1368) Black silt deposit, plan: 298



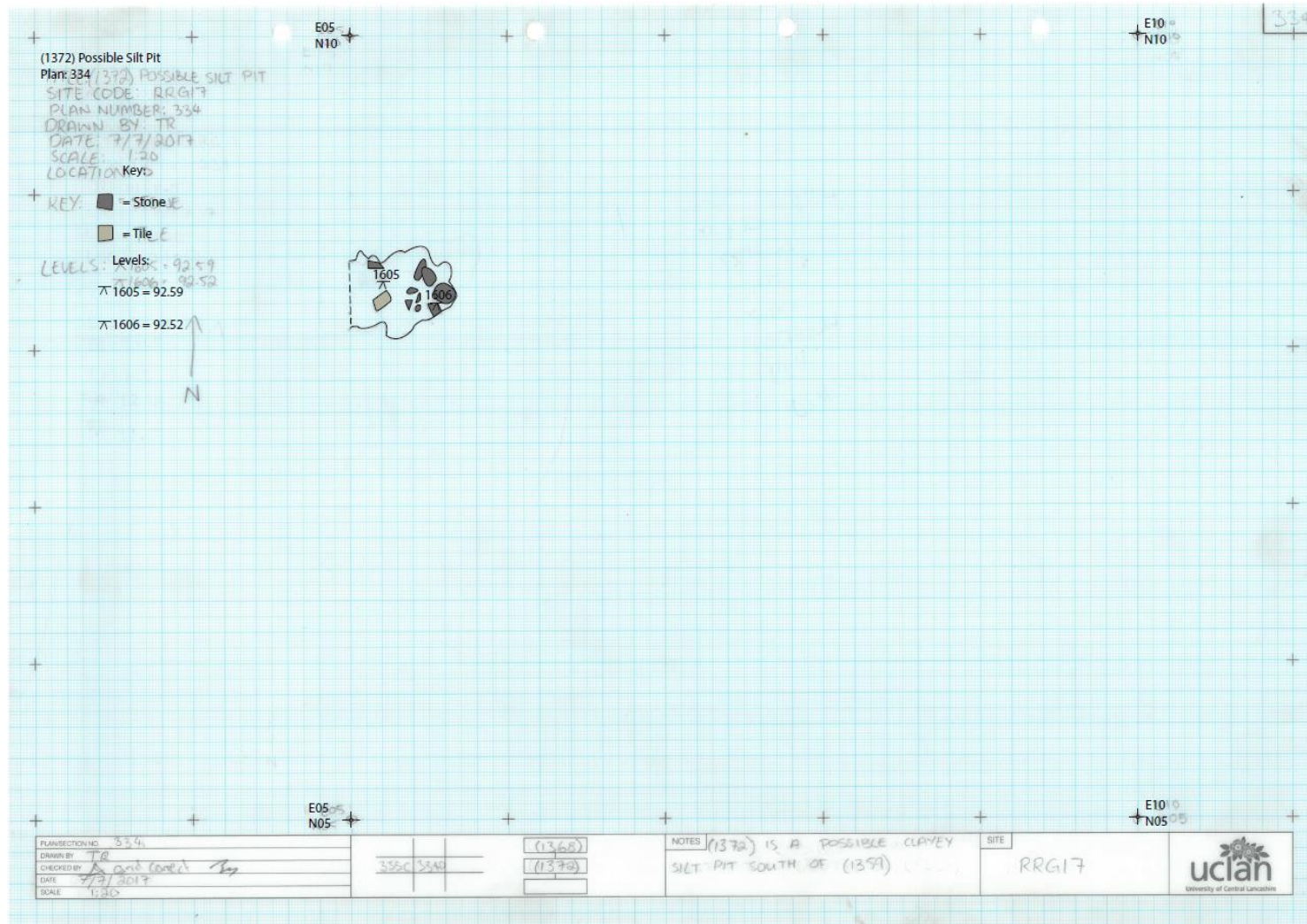
6.2.8 Context (1367) Flat clay patch



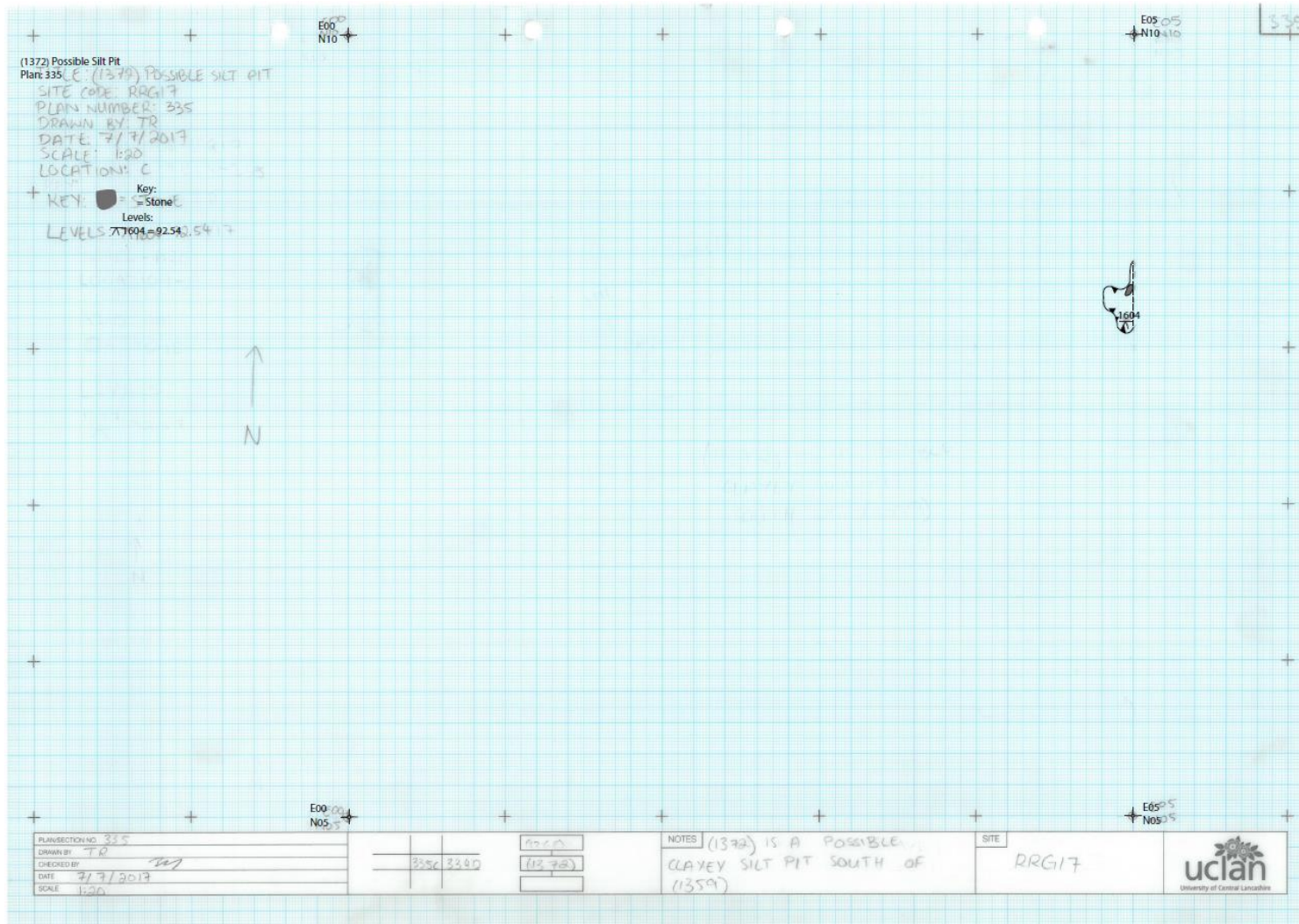
6.2.9 Context (1362) Plan of red clay overlaying clay surface (1848)



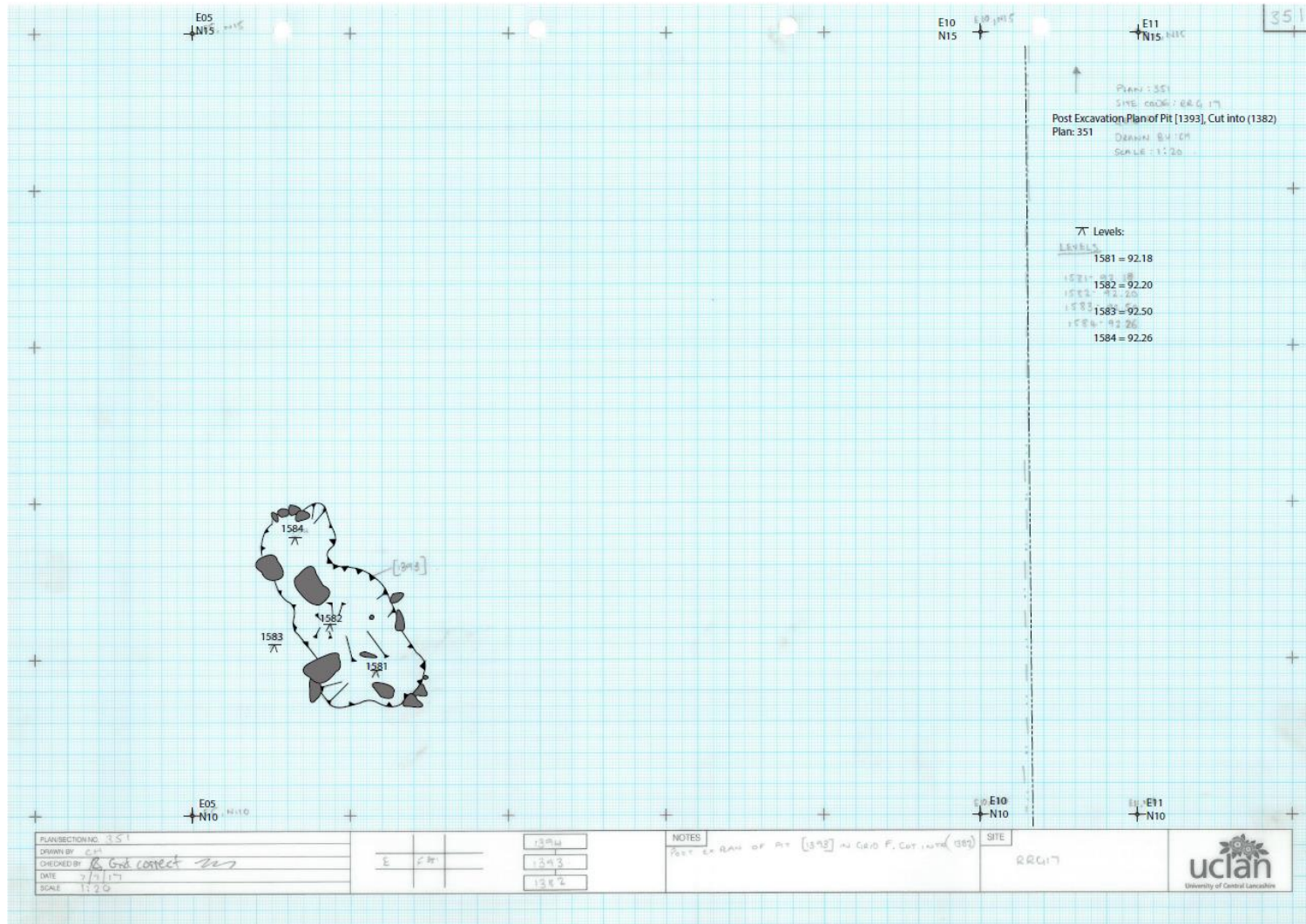
6.2.10 Context (1372) Possible silt pit, plan: 334



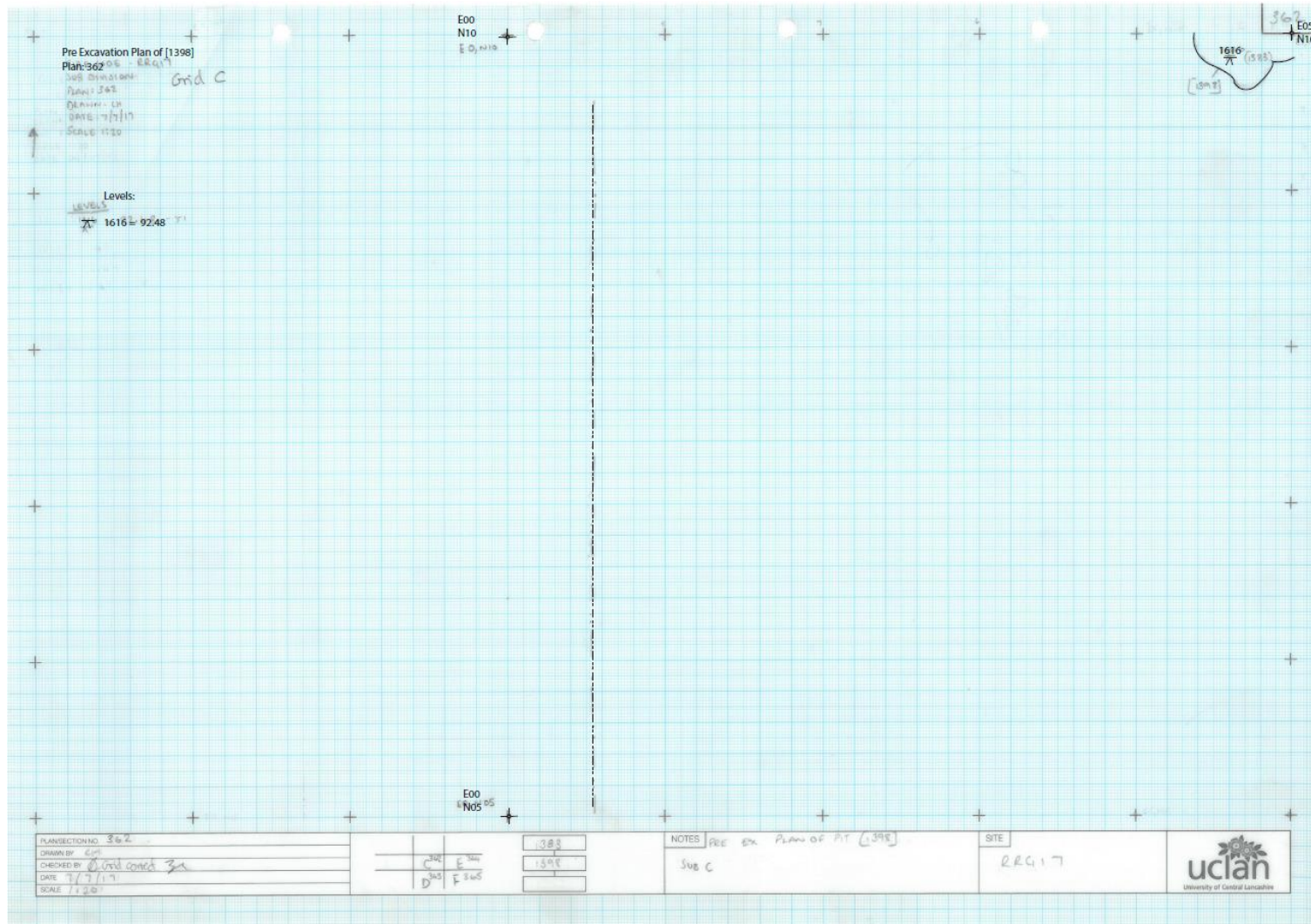
6.2.11 Context (1372) Possible silt pit, plan 335



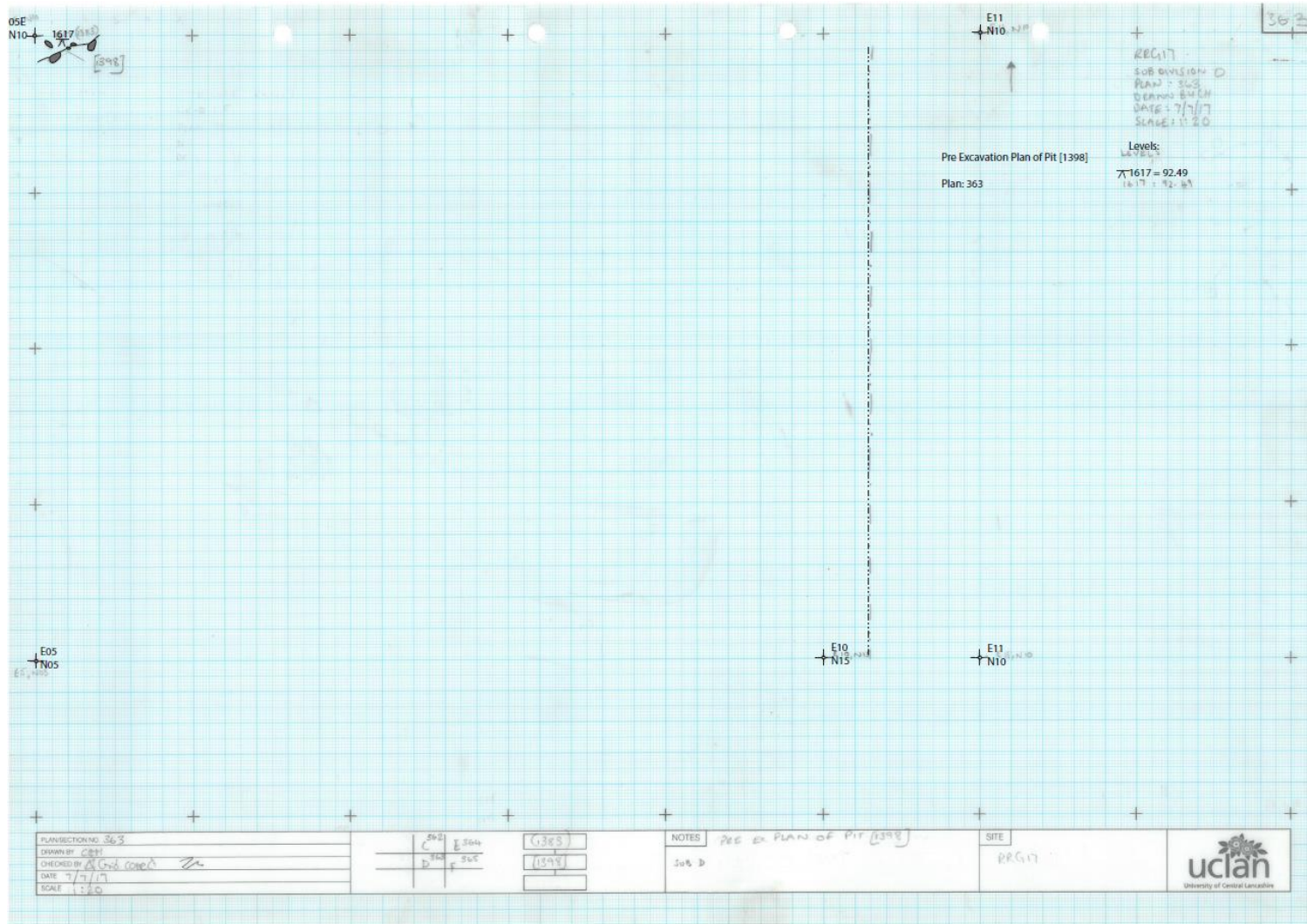
6.2.12 Context (1394) Post excavation plan of pit [1393], cut into (1382)



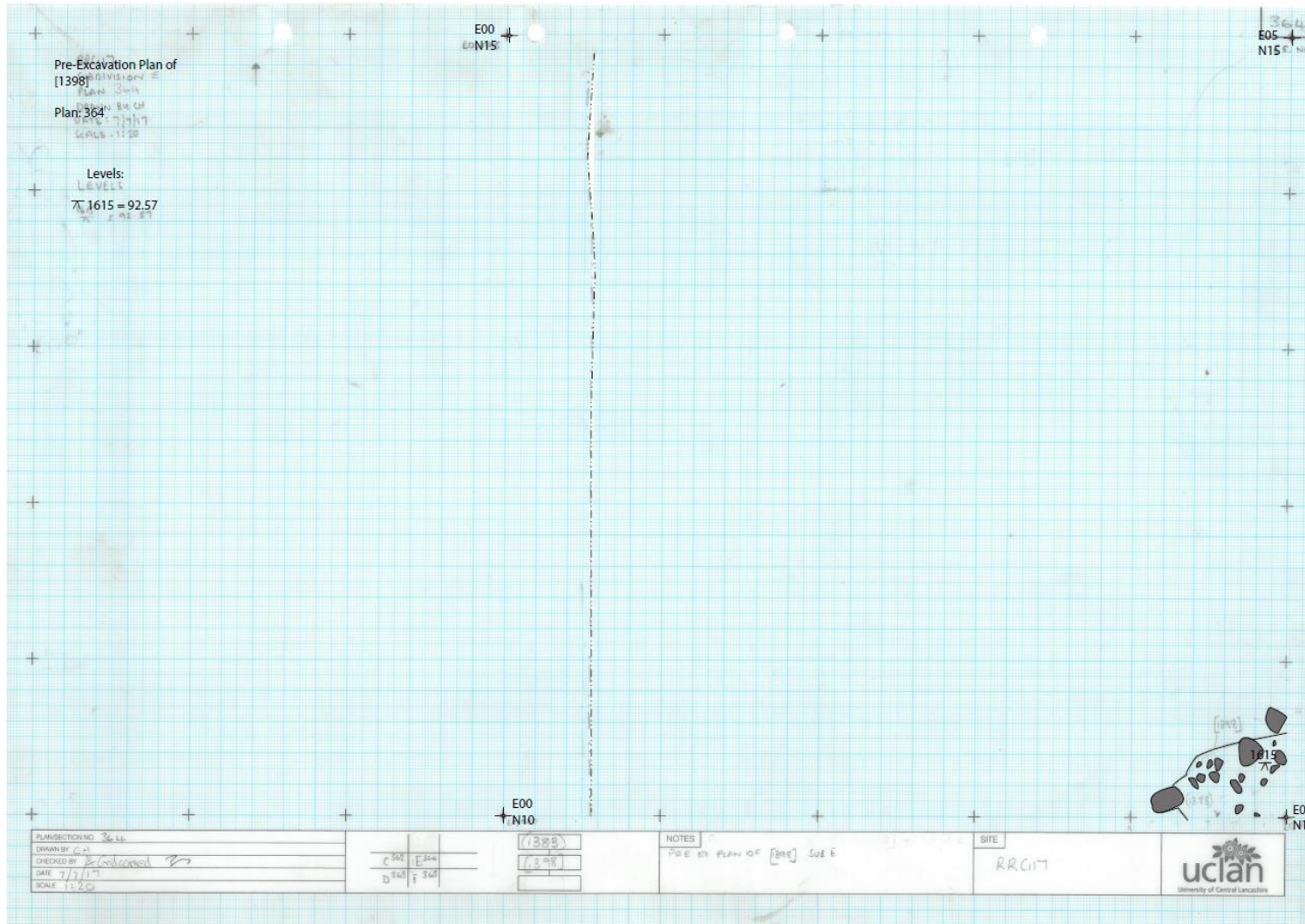
6.2.13 Context (1383) Pre excavation plan of [1398], plan: 362



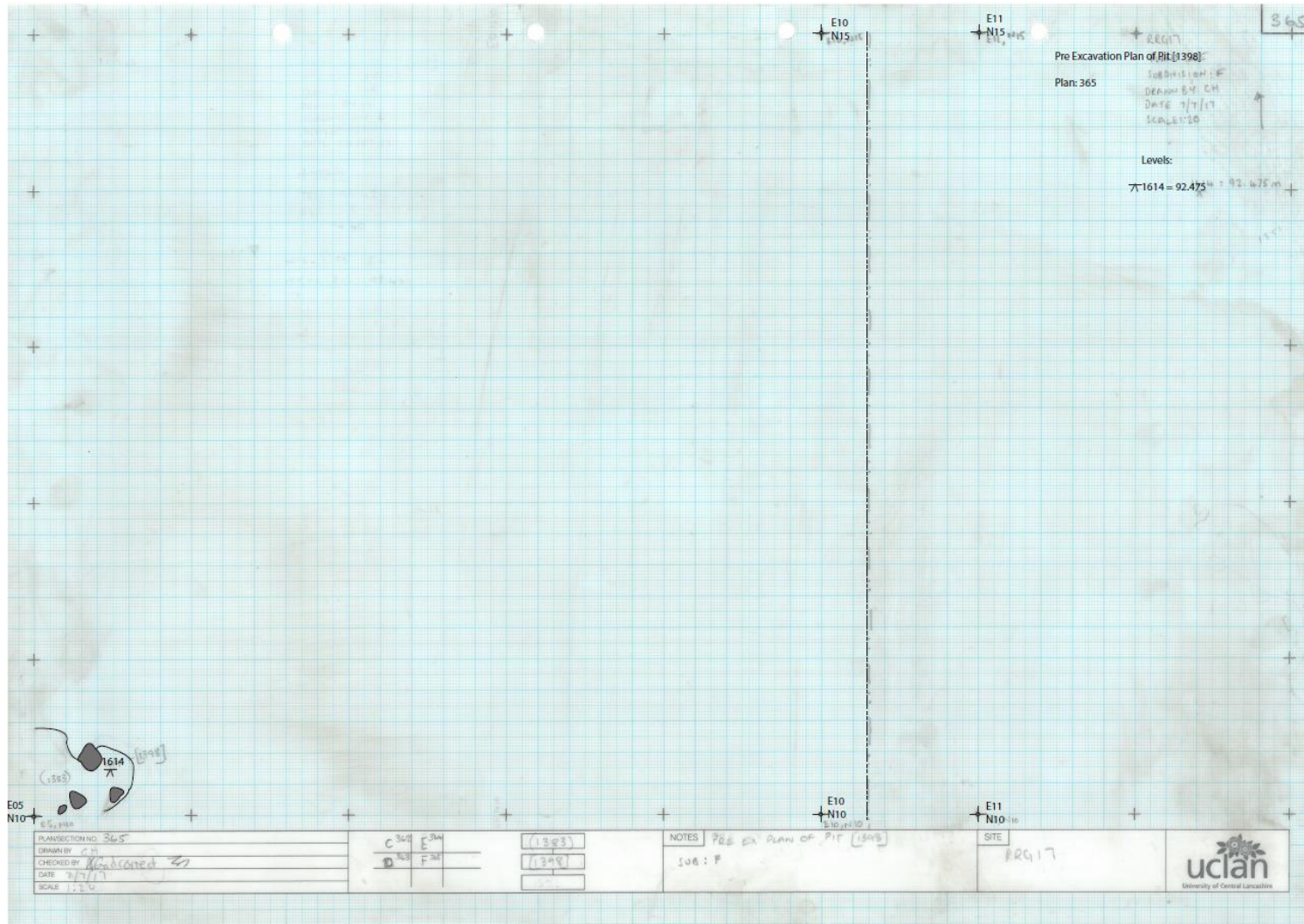
6.2.14 Context (1383) Pre excavation plan of pit [1398], plan: 363



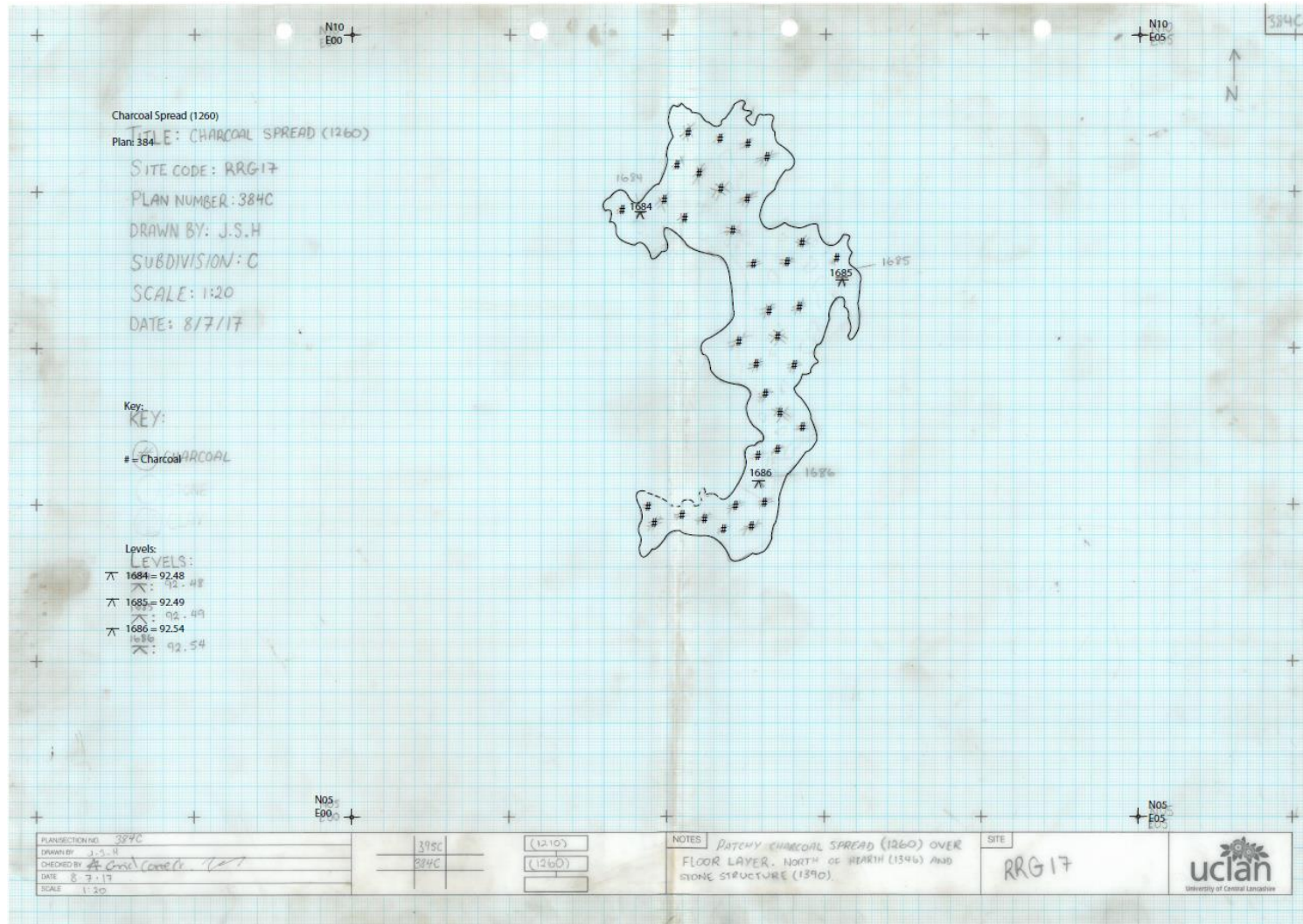
6.2.15 Context (1383) Pre excavation plan of [1398], plan: 364



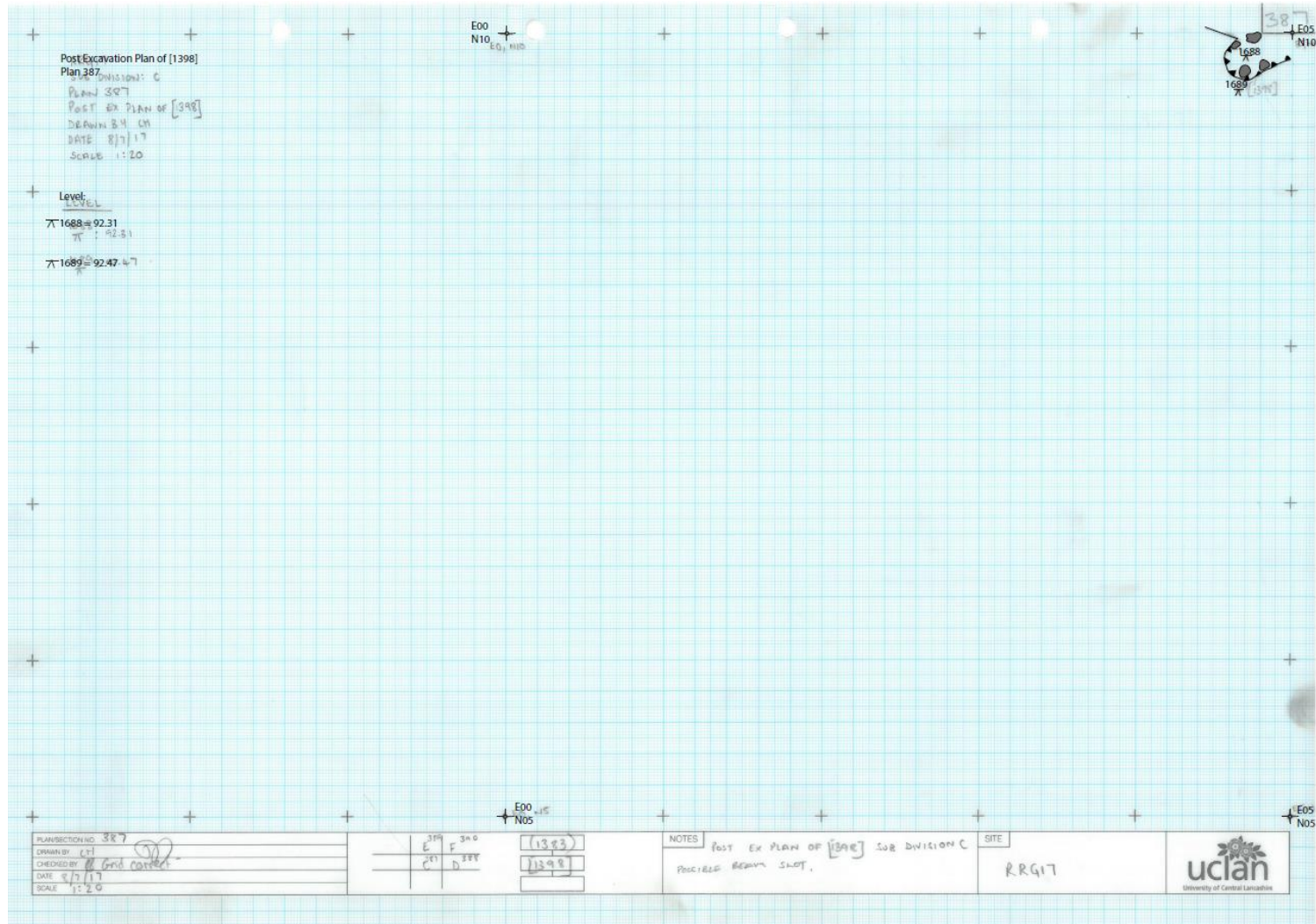
6.2.16 Context (1383) Pre excavation of pit [1398], plan 365



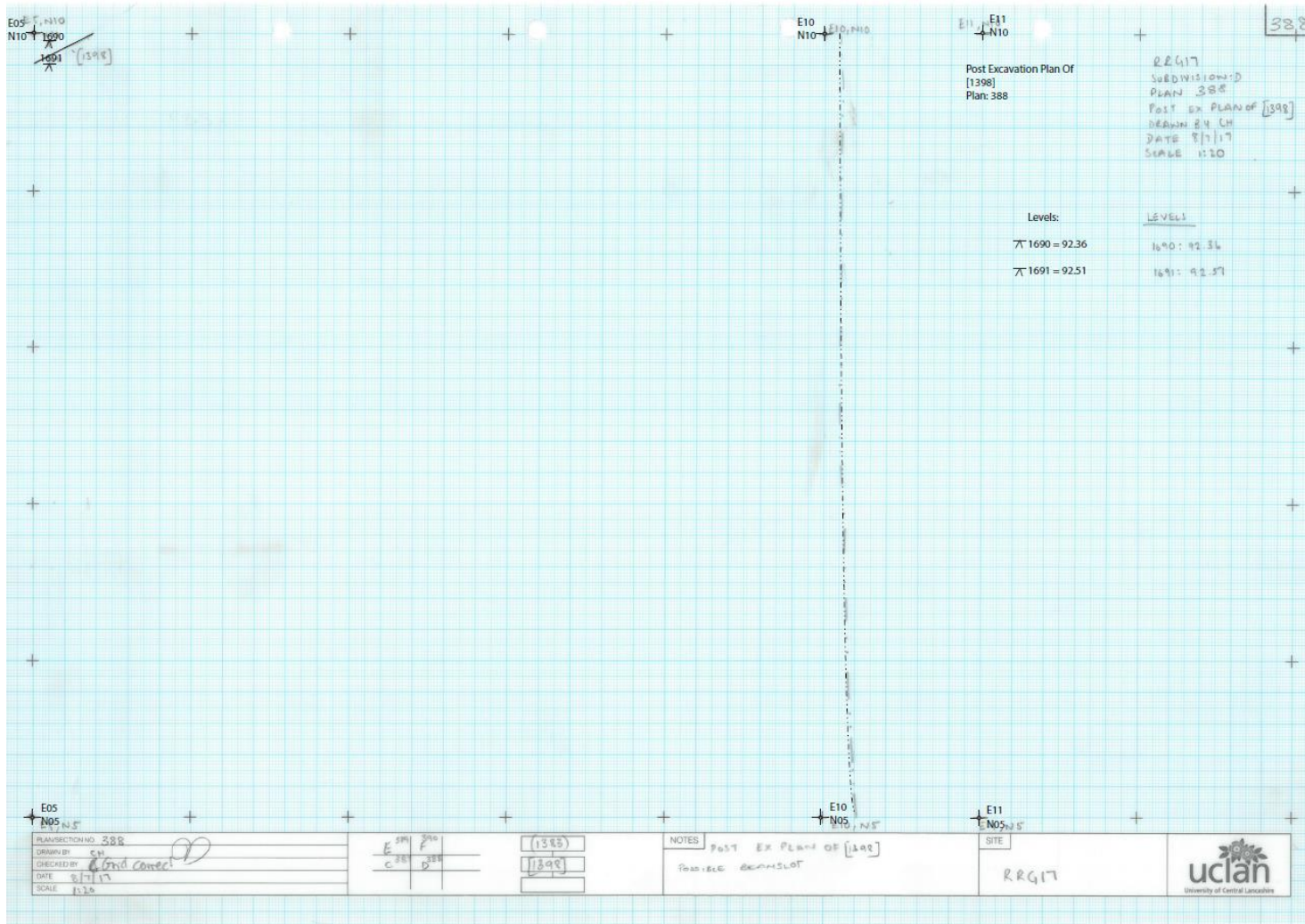
6.2.17 Context (1260) Charcoal spread



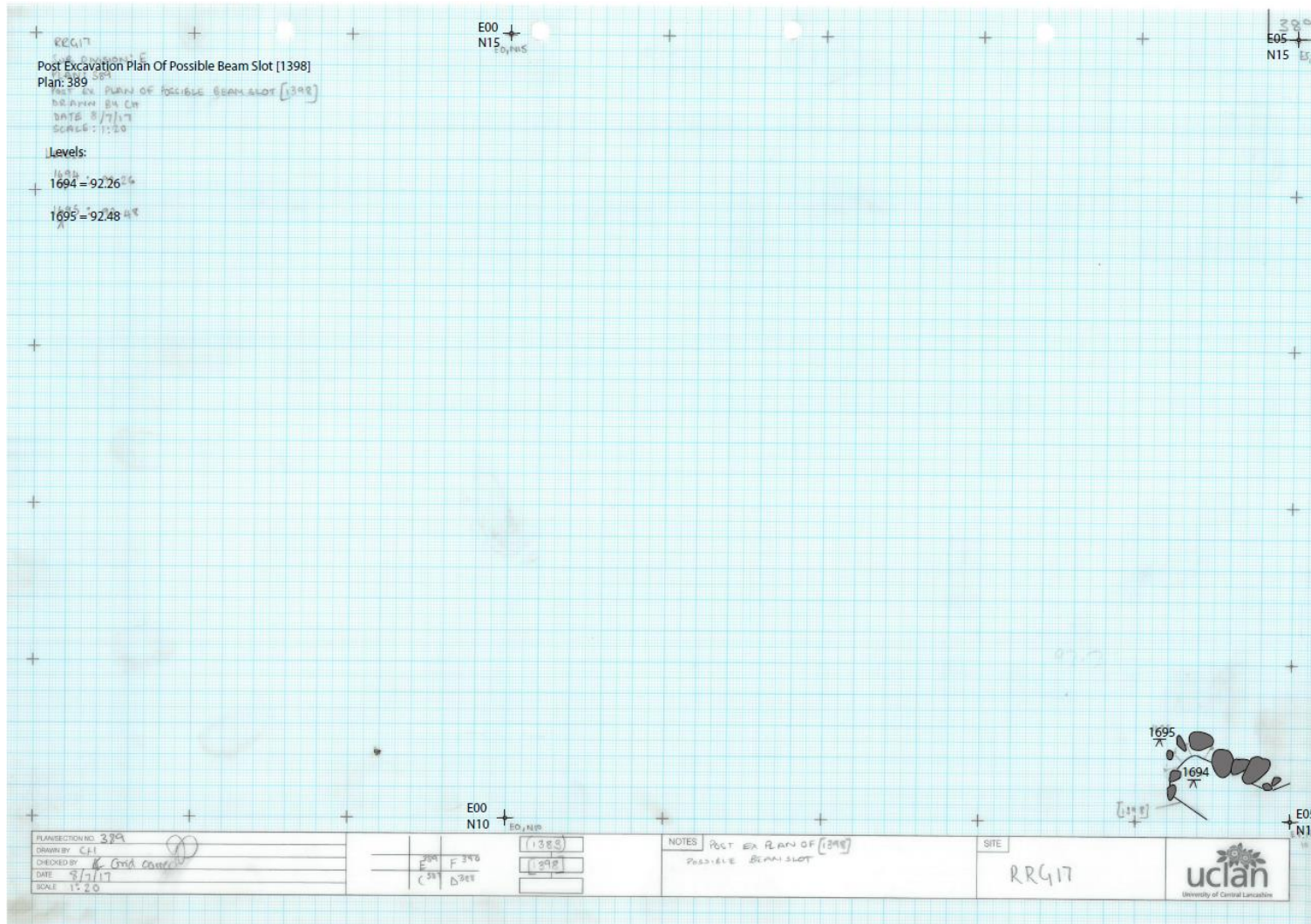
6.2.18 Context (1383) Post excavation plan of [1398], plan 387



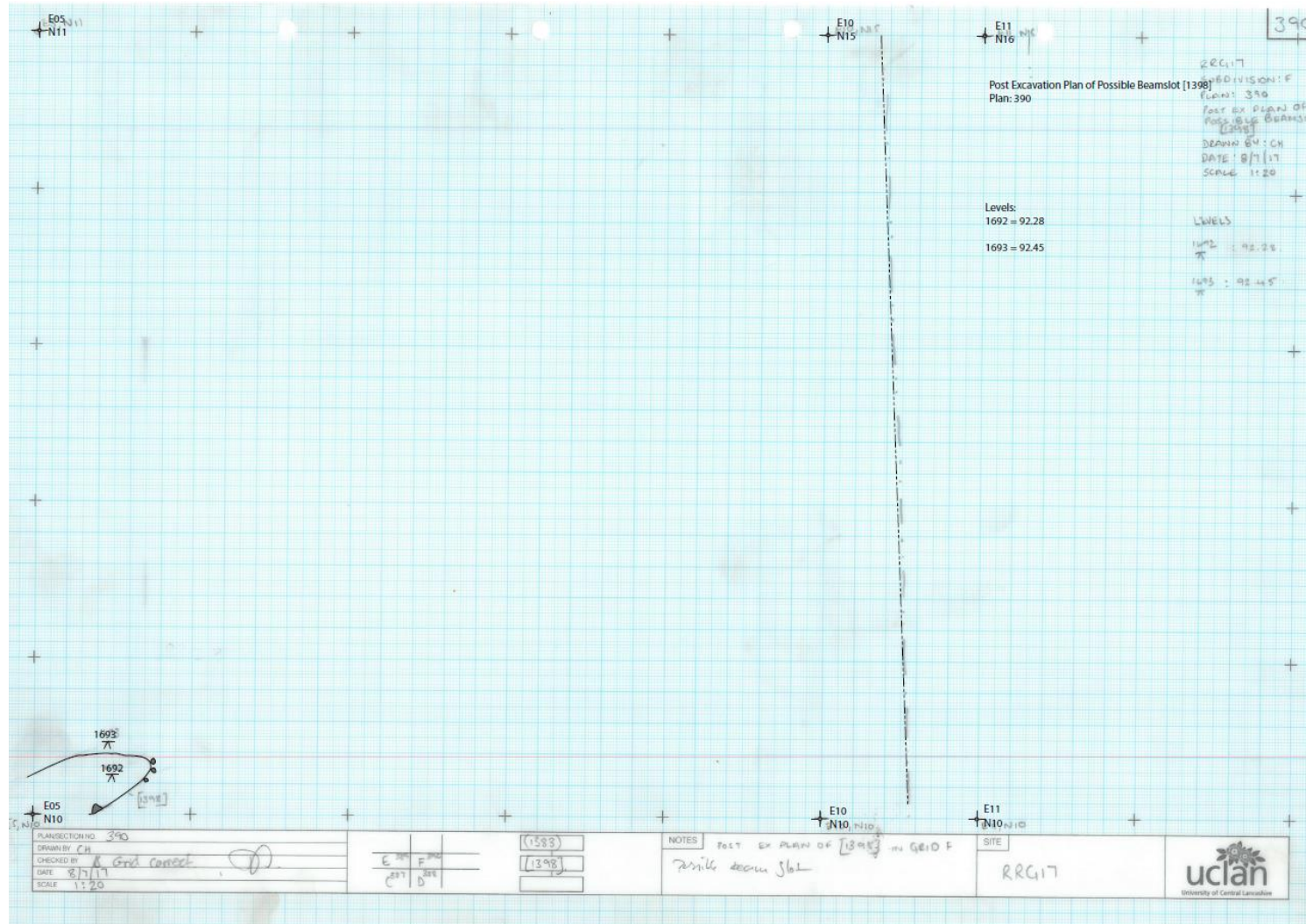
6.2.19 Context (1383) Post excavation plan of [1398], plan 388



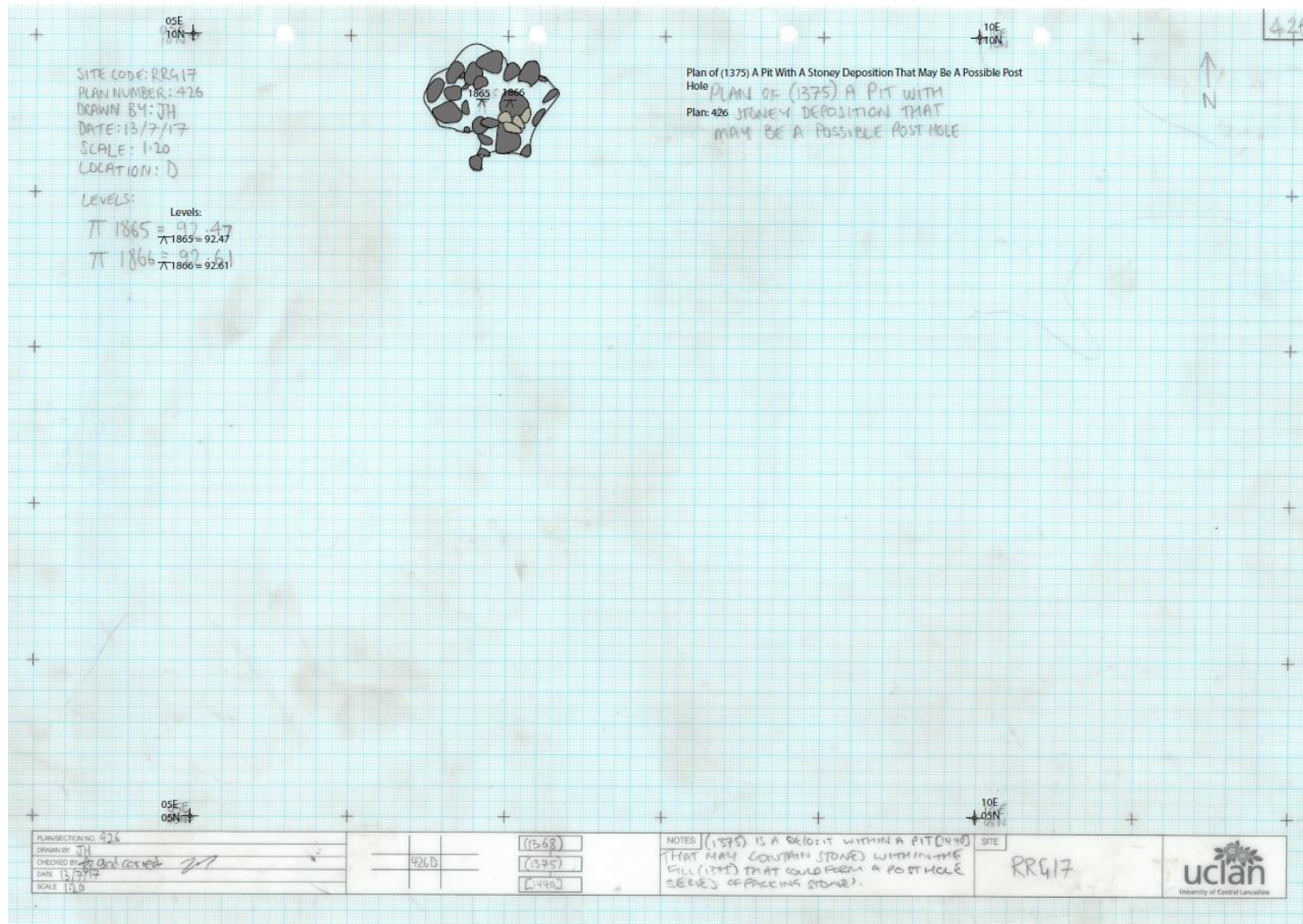
6.2.20 Context (1383) Post excavation plan of possible beam slot [1398], plan 389



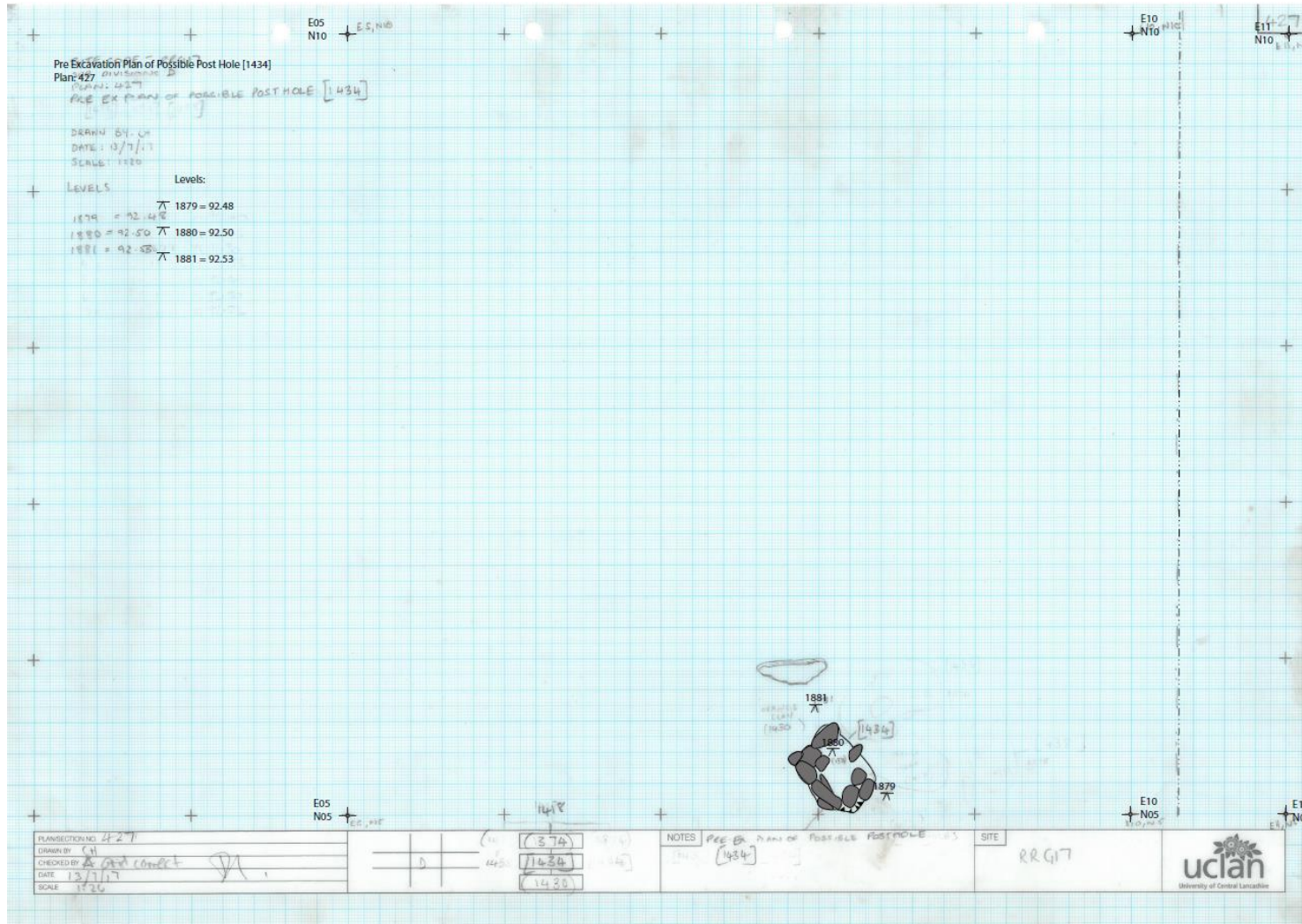
6.2.21 Context (1383) Post excavation plan of possible beam slot [1398], plan: 390



6.2.22 (1375) A pit with a stoney deposition that may be a possible post hole



6.2.23 (1374) Pre excavation plan of possible post hole [1434]



6.3 Excavation grid systems

Below are scans of the excavation grid system from the Ribchester site, the sections used are grid C and D. The grid offers northings and eastings for georeferencing purposes and are separated into lines. Each sample taken is given a label with a reference such as 10.28, which indicates it is the 28th spot along line 10. The context of each sample is offered in parentheses and relates to the contexts presented in appendix 6.2.X. These describe the quality of the surroundings where each sample would come from.

SAMPLING GRID SOUTH END OF TRENCH 1

NORTH																					
10.00	C	1.41	2.41	3.41	4.41	5.41	6.41	7.41	8.41	9.41	10.41	11.41	12.41	13.41	14.41	15.41	16.41	17.41	18.41		
9.75	C	1.40	2.40	3.40	4.40	5.40	6.40	7.40	8.40	9.40	10.40	11.40	12.40	13.40	14.40	15.40	16.40	17.40	18.40		
9.50	C	1.39	2.39	3.39	4.39	5.39	6.39	7.39	8.39	9.39	10.39	11.39	12.39	13.39	14.39	15.39	16.39	17.39	18.39		
9.25	C	1.38	2.38	3.38	4.38	5.38	6.38	7.38	8.38	9.38	10.38	11.38	12.38	13.38	14.38	15.38	16.38	17.38	18.38		
9.00	C	1.37	2.37	3.37	4.37	5.37	6.37	7.37	8.37	9.37	10.37	11.37	12.37	13.37	14.37	15.37	16.37	17.37	18.37		
8.75	C	1.36	2.36	3.36	4.36	5.36	6.36	7.36	8.36	9.36	10.36	11.36	12.36	13.36	14.36	15.36	16.36	17.36	18.36		
8.50	C	1.35	2.35	3.35	4.35	5.35	6.35	7.35	8.35	9.35	10.35	11.35	12.35	13.35	14.35	15.35	16.35	17.35	18.35		
8.25	C	1.34	2.34	3.34	4.34	5.34	6.34	7.34	8.34	9.34	10.34	11.34	12.34	13.34	14.34	15.34	16.34	17.34	18.34		
8.00	C	1.33	2.33	3.33	4.33	5.33	6.33	7.33	8.33	9.33	10.33	11.33	12.33	13.33	14.33	15.33	16.33	17.33	18.33		
7.75	C	1.32	2.32	3.32	4.32	5.32	6.32	7.32	8.32	9.32	10.32	11.32	12.32	13.32	14.32	15.32	16.32	17.32	18.32		
7.50	C	1.31	2.31	3.31	4.31	5.31	6.31	7.31	8.31	9.31	10.31	11.31	12.31	13.31	14.31	15.31	16.31	17.31	18.31		
7.25	C	1.30	2.30	3.30	4.30	5.30	6.30	7.30	8.30	9.30	10.30	11.30	12.30	13.30	14.30	15.30	16.30	17.30	18.30		
7.00	C	1.29	2.29	3.29	4.29	5.29	6.29	7.29	8.29	9.29	10.29	11.29	12.29	13.29	14.29	15.29	16.29	17.29	18.29		
6.75	C	1.28	2.28	3.28	4.28	5.28	6.28	7.28	8.28	9.28	10.28	11.28	12.28	13.28	14.28	15.28	16.28	17.28	18.28		
6.50	C	1.27	2.27	3.27	4.27	5.27	6.27	7.27	8.27	9.27	10.27	11.27	12.27	13.27	14.27	15.27	16.27	17.27	18.27		
6.25	C	1.26	2.26	3.26	4.26	5.26	6.26	7.26	8.26	9.26	10.26	11.26	12.26	13.26	14.26	15.26	16.26	17.26	18.26		
6.00	C	1.25	2.25	3.25	4.25	5.25	6.25	7.25	8.25	9.25	10.25	11.25	12.25	13.25	14.25	15.25	16.25	17.25	18.25		
5.75	C	1.24	2.24	3.24	4.24	5.24	6.24	7.24	8.24	9.24	10.24	11.24	12.24	13.24	14.24	15.24	16.24	17.24	18.24		
5.50	C	1.23	2.23	3.23	4.23	5.23	6.23	7.23	8.23	9.23	10.23	11.23	12.23	13.23	14.23	15.23	16.23	17.23	18.23		
5.25	C	1.22	2.22	3.22	4.22	5.22	6.22	7.22	8.22	9.22	10.22	11.22	12.22	13.22	14.22	15.22	16.22	17.22	18.22		
EAST		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75

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Appendix 6.3.1 Scan of grid C (front)

15.38 (1260) 20.37 (1336)
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Appendix 6.3.2 Scan of grid C (back)

26.24 (1215) 28.25 (1215) 29.26 (1215) 26.28 (1211) 27.30 (1211) 26.31 (1215) 28.34 (1215) 26.36 (1215) 26.39 (1215)
 27.24 (1215) 29.25 (1215) 26.27 (1215) 27.28 (1211) 28.30 (1211) 27.33 (1215) 29.34 (1215) 28.36 (1215) 27.39 (1215)
 26.24 26.26 (1215) 27.27 (1215) 29.28 (1211) 29.30 (1211) 28.33 (1215) 26.35 (1215) 27.37 (1215) 29.39 (1215)
 27.25 (1215) 27.26 (1215) 28.27 (1211) 27.29 (1211) 28.31 (1215) 29.33 (1215) 28.35 (1215) 29.37 (1215) 26.40 (1215)
 29.27 (1211) 28.29 (1211) 29.31 (1215) 26.34 (1215) 29.35 (1215) 27.38 (1215) 26.38 (1215) 28.58 (1215) TURN OVER →

SAMPLING GRID SOUTH END OF TRENCH
 NORTH

10.00	21.41	22.41	23.41	24.41	25.41	26.41	27.41	28.41	29.41	30.41	31.41	32.41	33.41	34.41	35.41	36.41	37.41	38.41	39.41	40.41	41.41	42.41	43.41	44.41	45.41	D
9.75	21.40	22.40	23.40	24.40	25.40	26.40	27.40	28.40	29.40	30.40	31.40	32.40	33.40	34.40	35.40	36.40	37.40	38.40	39.40	40.40	41.40	42.40	43.40	44.40	45.40	D
9.50	21.39	22.39	23.39	24.39	25.39	26.39	27.39	28.39	29.39	30.39	31.39	32.39	33.39	34.39	35.39	36.39	37.39	38.39	39.39	40.39	41.39	42.39	43.39	44.39	45.39	D
9.25	21.38	22.38	23.38	24.38	25.38	26.38	27.38	28.38	29.38	30.38	31.38	32.38	33.38	34.38	35.38	36.38	37.38	38.38	39.38	40.38	41.38	42.38	43.38	44.38	45.38	D
9.00	21.37	22.37	23.37	24.37	25.37	26.37	27.37	28.37	29.37	30.37	31.37	32.37	33.37	34.37	35.37	36.37	37.37	38.37	39.37	40.37	41.37	42.37	43.37	44.37	45.37	D
8.75	21.36	22.36	23.36	24.36	25.36	26.36	27.36	28.36	29.36	30.36	31.36	32.36	33.36	34.36	35.36	36.36	37.36	38.36	39.36	40.36	41.36	42.36	43.36	44.36	45.36	D
8.50	21.35	22.35	23.35	24.35	25.35	26.35	27.35	28.35	29.35	30.35	31.35	32.35	33.35	34.35	35.35	36.35	37.35	38.35	39.35	40.35	41.35	42.35	43.35	44.35	45.35	D
8.25	21.34	22.34	23.34	24.34	25.34	26.34	27.34	28.34	29.34	30.34	31.34	32.34	33.34	34.34	35.34	36.34	37.34	38.34	39.34	40.34	41.34	42.34	43.34	44.34	45.34	D
8.00	21.33	22.33	23.33	24.33	25.33	26.33	27.33	28.33	29.33	30.33	31.33	32.33	33.33	34.33	35.33	36.33	37.33	38.33	39.33	40.33	41.33	42.33	43.33	44.33	45.33	D
7.75	21.32	22.32	23.32	24.32	25.32	26.32	27.32	28.32	29.32	30.32	31.32	32.32	33.32	34.32	35.32	36.32	37.32	38.32	39.32	40.32	41.32	42.32	43.32	44.32	45.32	D
7.50	21.31	22.31	23.31	24.31	25.31	26.31	27.31	28.31	29.31	30.31	31.31	32.31	33.31	34.31	35.31	36.31	37.31	38.31	39.31	40.31	41.31	42.31	43.31	44.31	45.31	D
7.25	21.30	22.30	23.30	24.30	25.30	26.30	27.30	28.30	29.30	30.30	31.30	32.30	33.30	34.30	35.30	36.30	37.30	38.30	39.30	40.30	41.30	42.30	43.30	44.30	45.30	D
7.00	21.29	22.29	23.29	24.29	25.29	26.29	27.29	28.29	29.29	30.29	31.29	32.29	33.29	34.29	35.29	36.29	37.29	38.29	39.29	40.29	41.29	42.29	43.29	44.29	45.29	D
6.75	21.28	22.28	23.28	24.28	25.28	26.28	27.28	28.28	29.28	30.28	31.28	32.28	33.28	34.28	35.28	36.28	37.28	38.28	39.28	40.28	41.28	42.28	43.28	44.28	45.28	D
6.50	21.27	22.27	23.27	24.27	25.27	26.27	27.27	28.27	29.27	30.27	31.27	32.27	33.27	34.27	35.27	36.27	37.27	38.27	39.27	40.27	41.27	42.27	43.27	44.27	45.27	D
6.25	21.26	22.26	23.26	24.26	25.26	26.26	27.26	28.26	29.26	30.26	31.26	32.26	33.26	34.26	35.26	36.26	37.26	38.26	39.26	40.26	41.26	42.26	43.26	44.26	45.26	D
6.00	21.25	22.25	23.25	24.25	25.25	26.25	27.25	28.25	29.25	30.25	31.25	32.25	33.25	34.25	35.25	36.25	37.25	38.25	39.25	40.25	41.25	42.25	43.25	44.25	45.25	D
5.75	21.24	22.24	23.24	24.24	25.24	26.24	27.24	28.24	29.24	30.24	31.24	32.24	33.24	34.24	35.24	36.24	37.24	38.24	39.24	40.24	41.24	42.24	43.24	44.24	45.24	D
5.50	21.23	22.23	23.23	24.23	25.23	26.23	27.23	28.23	29.23	30.23	31.23	32.23	33.23	34.23	35.23	36.23	37.23	38.23	39.23	40.23	41.23	42.23	43.23	44.23	45.23	D
5.25	21.22	22.22	23.22	24.22	25.22	26.22	27.22	28.22	29.22	30.22	31.22	32.22	33.22	34.22	35.22	36.22	37.22	38.22	39.22	40.22	41.22	42.22	43.22	44.22	45.22	D
5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00	9.25	9.50	9.75	10.00	10.25	10.50	10.75	11.00	EAST	

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to be sampled.

22.22 (1215)	21.24 (1215)	24.26 (1215)	22.29 (1215)	21.32 (1215)	22.35 (1372)	21.38 (1215)	23.41 (1215)
25.22 (1215)	22.24 (1215)	25.26 (1215)	24.29 (1215)	24.32 (1215)	24.35 (1372)	22.38 (1373)	24.41 (1215)
21.23 (1215)	24.24 (1215)	21.27 (1215)	25.29 (1215)	25.32 (1215)	25.35 (1215)	24.38 (1215)	26.22 (1215)
22.23 (1215)	25.24 (1215)	24.27 (1215)	23.30 (1215)	21.33 (1215)	22.36 (1374)	21.39 (1215)	27.22 (1215)
24.23 (1215)	21.25 (1215)	25.27 (1215)	24.30 (1215)	23.33 (1215)	23.36 (1374)	25.39 (1215)	28.22 (1215)
25.23 (1215)	24.25 (1215)	21.28 (1215)	25.30 (1215)	25.33 (1215)	24.36 (1374)	21.40 (1215)	29.22 (1215)
	24.25 (1215)	23.28 (1215)	21.31 (1215)	21.34 (1372)	25.36 (1215)	23.40 (1215)	26.23 (1215)
	25.25 (1215)	25.28 (1215)	22.31 (1215)	22.34 (1372)	23.37 (1373)	24.40 (1215)	27.23 (1215)
	21.26 (1215)	21.29 (1215)	23.31 (1215)	24.34 (1215)	24.37 (1373)	25.40 (1215)	28.23 (1215)
	23.26 (1215)	21.29 (1215)	24.31 (1215)	25.34 (1215)	25.37 (1373)	22.41 (1215)	29.23 (1215)

Appendix 6.3.3 Scan of grid D (front)

30.22 (1215)	31.37 (1215)	35.28 (1341)	34.40 (1215)	39.30 (1215)	
32.22 (1215)	33.37 (1215)	36.28 (1341)	36.40 (1215)	40.30 (1215)	
30.23 (1215)	30.38 (1375)	37.28 (1341)	37.40 (1215)	39.31 (1215)	
31.23 (1215)	31.38 (1375)	34.29 (1341)	34.41 (1364)	40.31 (1215)	40.39 (1215)
32.23 (1215)	32.38 (1375)	35.29 (1341)	36.41 (1364)	41.31 (1215)	38.40 (1215)
30.24 (1215)	33.38 (1215)	37.29 (1341)	37.41 (1364)	38.32 (1215)	40.40 (1215)
33.24 (1215)	30.39 (1375)	35.30 (1341)	38.22 (1215)	39.32 (1215)	41.40 (1215)
35.25 (1215)	31.39 (1375)	36.31 (1215)	39.22 (1215)	40.32 (1215)	38.41 (1215)
32.26 (1215)	33.39 (1215)	37.31 (1215)	40.22 (1225)	41.32 (1215)	39.41 (1215)
33.26 (1215)	32.40 (1215)	35.32 (1215)	41.22 (1225)	38.33 (1236)	40.41 (1215)
31.27 (1287)	33.40 (1215)	37.32 (1215)	38.23 (1215)	39.33 (1236)	
32.27 (1287)	30.41 (1375)	34.33 (1215)	39.23 (1215)	40.33 (1215)	
32.28 (1287)	33.41 (1215)	35.33 (1215)	40.23 (1225)	41.33 (1215)	
33.28 (1287)	35.22 (1236)	37.33 (1215)	41.23 (1225)	38.34 (1236)	
30.29 (1211)	36.22 (1236)	34.34 (1215)	38.24 (1215)	39.34 (1236)	
31.29 (1287)	37.22 (1215)	35.34 (1215)	40.24 (1215)	40.34 (1215)	
32.29 (1287)	34.23 (1236)	37.34 (1215)	40.24 (1215)	41.34 (1215)	
33.29 (1287)	35.23 (1236)	34.35 (1374)	41.24 (1225)	39.35 (1215) (1236)	
31.30 (1287)	36.23 (1215)	35.35 (1215)	40.25 (1225)	40.35 (1236)	
33.30 (1287)	34.24 (1236)	36.35 (1215)	41.25 (1225)	41.35 (1215)	
31.32 (1215)	36.24 (1215)	37.35 (1215)	38.26 (1215)	39.36 (1215)	
32.32 (1215)	37.24 (1215)	34.36 (1215)	40.26 (1215)	40.36 (1215)	
30.33 (1215)	34.25 (1215)	35.36 (1215)	38.27 (1215)	41.36 (1215)	
31.33 (1215)	35.25 (1215)	36.36 (1215)	39.27 (1215)	38.37 (1215)	
32.33 (1215)	36.25 (1215)	37.36 (1215)	40.27 (1215)	39.37 (1215)	
30.34 (1215)	37.25 (1215)	34.37 (1215)	41.27 (1215)	40.37 (1215)	
31.34 (1215)	34.26 (1215)	35.37 (1215)	38.28 (1215)	39.38 (1215)	
30.35 (1215)	35.26 (1341)	36.37 (1215)	40.28 (1215)	40.38 (1215)	
31.35 (1215)	36.26 (1341)	34.38 (1215)	41.28 (1215)	41.38 (1215)	
33.35 (1215)	34.27 (1341)	35.38 (1215)	39.29 (1215)	38.39 (1215)	
30.36 (1215)	35.27 (1341)	36.38 (1215)	40.29 (1215)		
32.36 (1215)	36.27 (1341)	37.38 (1215)	41.29 (1215)		
33.36 (1374)	37.27 (1341)	34.38 (1215)			
30.37 (1215)	34.28 (1341)	36.39 (1215)			
		37.39 (1215)			

Appendix 6.3.4 Scan of grid D (back)

