	Spike Level	USGS Hydride	ACZ Hydride	Kennecott Hydride	Agilent ICPMS Collision	Frontier Hydride	USGS Collision Cell
7	GSL	**<1**	**<1**	**0.500**	**0.64**	**0.641**	
8	GSL	**<1**	**<1**	**0.400**	**0.42**	**0.568**	**0.5285**
9	GSL	**<1**	**<1**	**0.420**	**0.48**	**0.660**	**1.0155**
19	GSL	**<1**	**<1**	**0.560**	**0.88**	**0.797**	**1.342**
20	GSL	**<1**	**<1**	**0.600**	**0.95**	**0.784**	**0.164**
21	GSL	**<1**	**<1**	**0.510**	**1.17**	**0.745**	**0.368**

PE ICPMS DRC	Average	
1.4		
1.6		
4.5	0.570	1 meter
3.9		
3		
3.1	0.739	7 meter

Great Salt Lake Statistical Round Robin Design

Graph #	Depth	Spike Level	Spike Value [Se Metal in 1% Nitric Acid]	Sample Number	Kennecott Reported Value (Hydride)	(RV-SV) [Error]	Mean	Std. Dev. [Preci-sion]
1	1 Meter	0.1-1.0	0.53	1	1.00	0.47		
2	1 Meter	0.1-1.0	0.53	58	0.86	0.33		
3	1 Meter	0.1-1.0	0.53	91	0.97	0.44	0.94	0.074
4	1 Meter	10-20	17.00	55	16.60	-0.40		
5	1 Meter	10-20	17.00	62	16.70	-0.30		
6	1 Meter	10-20	17.00	76	17.80	0.80	17.03	0.666
7	1 Meter	1-5	3.00	33	3.20	0.20		
8	1 Meter	1-5	3.00	44	3.30	0.30		
9	1 Meter	1-5	3.00	95	3.33	0.33	3.28	0.068
10	1 Meter	50-100	67.00	10	65.70	-1.30		
11	1 Meter	50-100	67.00	74	64.00	-3.00		
12	1 Meter	50-100	67.00	75	65.50	-1.50	65.07	0.929
13	1 Meter	GSL	-	26	0.50	0.50		
14	1 Meter	GSL	-	52	0.40	0.40		
15	1 Meter	GSL	-	57	0.42	0.42	0.44	0.053
16	1 Meter	173 g/l Na2SO4	-	15	0.40	0.40		
17	1 Meter	173 g/l Na2SO4	-	71	<.05			
18	1 Meter	173 g/l Na2SO4	-	92	<.05			
19	7 Meter	0.1-1.0	0.76	22	1.00	0.24		
20	7 Meter	0.1-1.0	0.76	31	1.10	0.34		
21	7 Meter	0.1-1.0	0.76	67	0.97	0.21	1.02	0.068
22	7 Meter	10-20	16.00	6	10.60	-5.40		
23	7 Meter	10-20	16.00	42	10.60	-5.40		
24	7 Meter	10-20	16.00	46	10.40	-5.60	10.53	0.115
25	7 Meter	1-5	2.00	17	1.70	-0.30		
26	7 Meter	1-5	2.00	32	1.70	-0.30		
27	7 Meter	1-5	2.00	82	1.70	-0.30	1.70	0.000
28	7 Meter	50-100	85.00	9	54.10	-30.90		
29	7 Meter	50-100	85.00	23	57.10	-27.90		
30	7 Meter	50-100	85.00	72	57.20	-27.80	56.13	1.762
31	7 Meter	GSL	-	20	0.56	0.56		
32	7 Meter	GSL	-	37	0.60	0.60		
33	7 Meter	GSL	-	69	0.51	0.51	0.56	0.045
34	7 Meter	249 g/l Na2SO4	-	47	0.11	0.11		
35	7 Meter	249 g/l Na2SO4	-	51	0.09	0.09		
36	7 Meter	249 g/l Na2SO4	-	56	0.13	0.13	0.11	0.020

Average	**0.3454**
1 meter	0.3579
7 meter	0.335

% Recovery [Accuracy (0.5)]	Std Dev / Mean [RSD-CV]	ACZ Reported Value (AA Hydride SM 3114B)	(RV-SV) [Error]	Mean	Std. Dev. [Precision]	% Recovery [Accuracy (0.5)]	Std Dev / Mean [RSD-CV]	ACZ Reported Value (ICP-MS M200.8)	(RV-SV) [Error]
		1.00	0.47					<10	
		<1						12.00	11.47
91.6%	7.8%	<1		1.00		97.1%		14.00	13.47
		22.00	5.00					24.00	7.00
		21.00	4.00					25.00	8.00
97.3%	3.9%	22.00	5.00	21.67	0.577	123.8%	2.7%	25.00	8.00
		4.00	1.00					14.00	11.00
		4.00	1.00					22.00	19.00
93.6%	2.1%	4.00	1.00	4.00	0.000	114.3%	0.0%	9.00	6.00
		59.00	-8.00					70.00	3.00
		59.00	-8.00					57.00	-10.00
96.4%	1.4%	57.00	-10.00	58.33	1.155	86.4%	2.0%	65.00	-2.00
		<1						<10	
		<1						20.00	20.00
	12.0%	<1						9.00	9.00
		<1						10.00	10.00
		<1						9.00	9.00
		<1						10.00	10.00
		1.00	0.24					120.00	119.24
		2.00	1.24					140.00	139.24
81.2%	6.7%	1.00	0.24	1.33	0.577	105.8%	43.3%	140.00	139.24
		12.00	-4.00					40.00	24.00
		12.00	-4.00					190.00	174.00
63.8%	1.1%	11.00	-5.00	11.67	0.577	70.7%	4.9%	180.00	164.00
		2.00	0.00					120.00	118.00
		2.00	0.00					200.00	198.00
68.0%	0.0%	2.00	0.00	2.00	0.000	80.0%	0.0%	440.00	438.00
		45.00	-40.00					90.00	5.00
		43.00	-42.00					140.00	55.00
65.7%	3.1%	45.00	-40.00	44.33	1.155	51.9%	2.6%	170.00	85.00
		<.05						120.00	120.00
		<.06						200.00	200.00
	8.1%	**<.07**						150.00	150.00
		<.08						140.00	140.00
		<.09						150.00	150.00
	18.2%	**<.10**						120.00	120.00
82.2%	**5.9%**		**Average**		**0.5774**	**91.2%**	**7.9%**		**Average**
94.7%	5.5%		1 meter		0.5774	105.4%	1.5%		1 meter
69.7%	6.2%		7 meter		0.5774	77.1%	12.7%		7 meter

Mean	Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]	Std Dev / Mean [RSD-CV]	AWAL Reported Value (ICP-MS) 94	(RV-SV) [Error]	Mean	Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]	Std Dev / Mean [RSD-CV]
				27.00	26.47				
				9.20	8.67				
13.00	1.414	1262.1%	10.9%	6.20	5.67	14.13	11.243	1372.2%	79.6%
				21.00	4.00				
				18.00	1.00				
24.67	0.577	141.0%	2.3%	26.00	9.00	21.67	4.041	123.8%	18.7%
				9.10	6.10				
				9.30	6.30				
15.00	6.557	428.6%	43.7%	13.00	10.00	10.47	2.196	299.0%	21.0%
				87.00	20.00				
				75.00	8.00				
64.00	6.557	94.8%	10.2%	80.00	13.00	80.67	6.028	119.5%	7.5%
				7.10	7.10				
				8.10	8.10				
14.50	7.778		53.6%	7.20	7.20	7.47	0.551		7.4%
				<1					
				<1					
				2.50	2.50				
				14.00	13.24				
				25.00	24.24				
133.33	11.547	10582.0%	8.7%	15.00	14.24	18.00	6.083	1428.6%	33.8%
				35.00	19.00				
				18.00	2.00				
136.67	83.865	828.3%	61.4%	31.00	15.00	28.00	8.888	169.7%	31.7%
				32.00	30.00				
				20.00	18.00				
253.33	166.533	10133.3%	65.7%	16.00	14.00	22.67	8.327	906.7%	36.7%
				40.00	-45.00				
				34.00	-51.00				
133.33	40.415	155.9%	30.3%	40.00	-45.00	38.00	3.464	44.4%	9.1%
				20.00	20.00				
				36.00	36.00				
156.67	40.415		25.8%	16.00	16.00	24.00	10.583		44.1%
				1.40	1.40				
				1.40	1.40				
136.67	15.275		11.2%	1.40	1.40	1.40	0.000		0.0%
	34.6304	**2953.3%**	**29.4%**		**Average**		**5.5822**	**558.0%**	**26.3%**
	4.57692	481.6%	24.2%		1 meter		4.8119	478.6%	26.8%
	59.6749	5424.9%	33.8%		7 meter		6.2241	637.3%	25.9%

AWAL Reported Value (ICP-MS) 96	(RV-SV) [Error]	Mean	Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]	Std Dev / Mean [RSD-CV]
25.7	25.17				
12.8	12.27				
13.3	12.77	17.27	7.308	1676.4%	42.3%
31.9	14.90				
19.3	2.30				
44.6	27.60	31.93	12.650	182.5%	39.6%
19.7	16.70				
19.4	16.40				
17.9	14.90	19.00	0.964	542.9%	5.1%
91.8	24.80				
73.4	6.40				
82.4	15.40	82.53	9.201	122.3%	11.1%
11.4	11.40				
10.4	10.40				
17	17.00	12.93	3.557		27.5%
4.4	4.40	10.60	6.302		59.5%
0.2	0.20	7.20	8.743		121.4%
2.5	2.50				
28.6	27.84				
34.6	33.84				
22	21.24	28.40	6.302	2254.0%	22.2%
34.8	18.80				
35.6	19.60				
35.7	19.70	35.37	0.493	214.3%	1.4%
36.9	34.90				
26.8	24.80				
26.5	24.50	30.07	5.920	1202.7%	19.7%
53.1	-31.90				
44.8	-40.20				
42.7	-42.30	46.87	5.499	54.8%	11.7%
30.1	30.10				
27.4	27.40				
17.6	17.60	25.03	6.577		26.3%
4.1	4.10				
6.1	6.10				
3.6	3.60	4.60	1.323		28.8%
	Average		**5.757**	**781.2%**	**32.0%**
	1 meter		6.9608	631.0%	43.8%
	7 meter		4.3525	931.4%	18.3%

AWAL Reported Value (GFAA EPA 7740)	(RV-SV) [Error]	Mean
30	29.47	
37	36.47	
56	55.47	41.00
53	36.00	
51	34.00	
72	55.00	58.67
33	30.00	
44	41.00	
54	51.00	43.67
79	12.00	
97	30.00	
97	30.00	91.00
44	44.00	
40	40.00	
40	40.00	41.33
120	120.00	
150	150.00	
160	160.00	143.33
78	77.24	
66	65.24	
76	75.24	73.33
77	61.00	
69	53.00	
69	53.00	71.67
77	75.00	
68	66.00	
100	98.00	81.67
83	-2.00	
54	-31.00	
79	-6.00	72.00
75	75.00	
64	64.00	
76	76.00	71.67
150	150.00	
170	170.00	
160	160.00	160.00
Average		
1 meter		
7 meter		

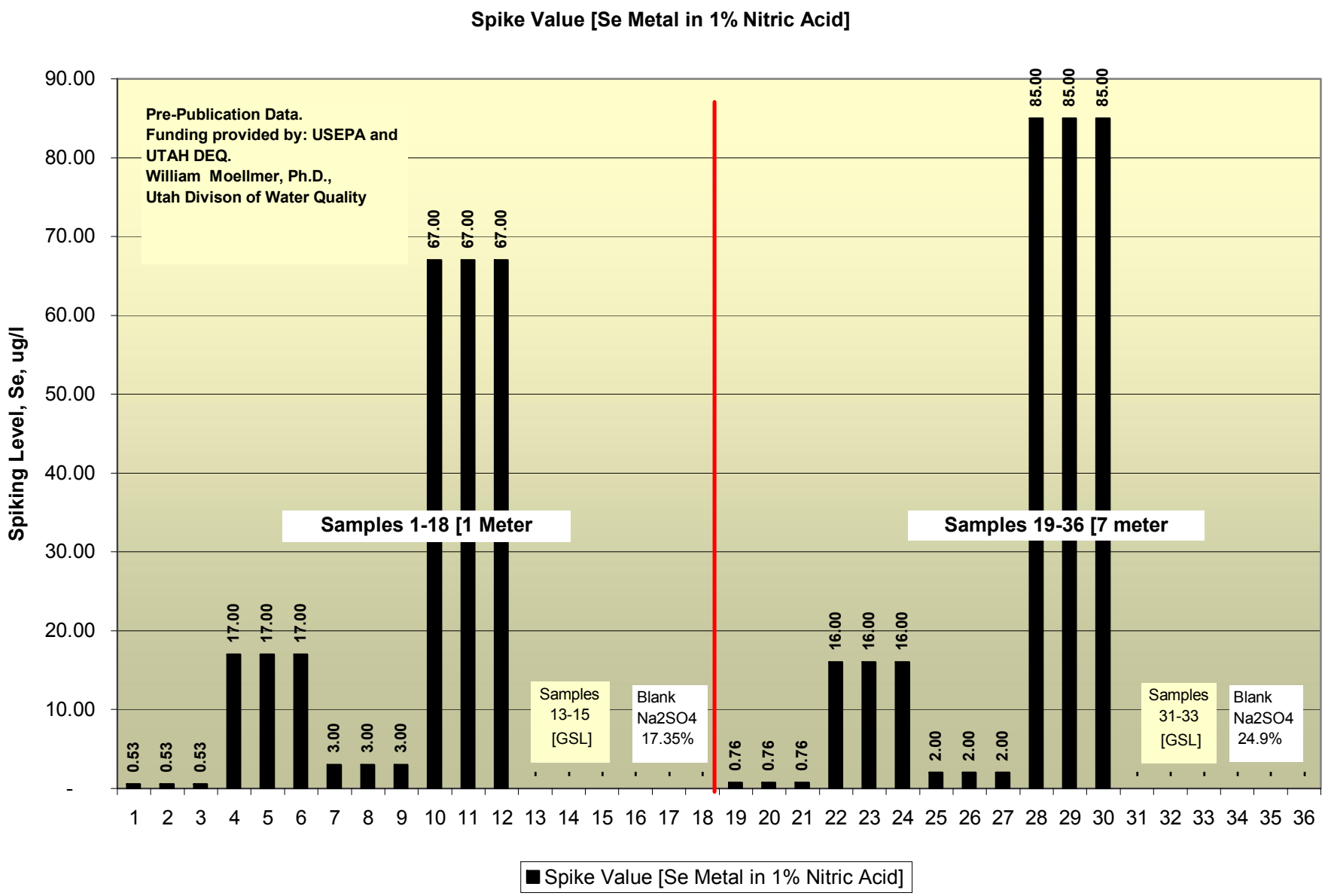
Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]	Std Dev / Mean [RSD-CV]	Frontier GeoSciences, Inc. Seattle	(RV-SV) [Error]	Mean	Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]
			1.09	0.56			
			1.11	0.58			
13.454	3980.6%	32.8%	1.12	0.59	1.11	0.015	107.4%
			16.4	-0.60			
			14.7	-2.30			
11.590	335.2%	19.8%	15.7	-1.30	15.60	0.854	89.1%
			3.32	0.32			
			3.4	0.40			
10.504	1247.6%	24.1%	3.36	0.36	3.36	0.040	96.0%
			63.7	-3.30			
			59.7	-7.30			
10.392	134.8%	11.4%	60.6	-6.40	61.33	2.098	90.9%
			0.641	0.64			
			0.568	0.57			
2.309	8266.7%	5.6%	0.66	0.66	0.62	0.049	124.6%
			0.326	0.33			
			0.336	0.34			
20.817	28666.7%	14.5%	0.293	0.29	0.32	0.023	63.7%
			1	0.24			
			1.06	0.30			
6.429	5820.1%	8.8%	1.09	0.33	1.05	0.046	83.3%
			8.57	-7.43			
			5.15	-10.85			
4.619	434.3%	6.4%	7.49	-8.51	7.07	1.748	42.8%
			1.53	-0.47			
			1.47	-0.53			
16.503	3266.7%	20.2%	1.6	-0.40	1.53	0.065	61.3%
			43.6	-41.40			
			42.6	-42.40			
15.716	84.2%	21.8%	41.7	-43.30	42.63	0.950	49.9%
			0.797	0.80			
			0.784	0.78			
6.658	14333.3%	9.3%	0.745	0.75	0.78	0.027	155.1%
			0.455	0.46			
			0.405	0.41			
10.000	32000.0%	6.3%	0.423	0.42	0.43	0.025	85.5%
10.7492644	**8214.2%**	**15.1%**		**Average**		**0.49509416**	**87.5%**
11.5110305	7105.3%	18.0%		1 meter		0.51319319	95.3%
9.98749825	9323.1%	12.1%		7 meter		0.47699514	79.7%

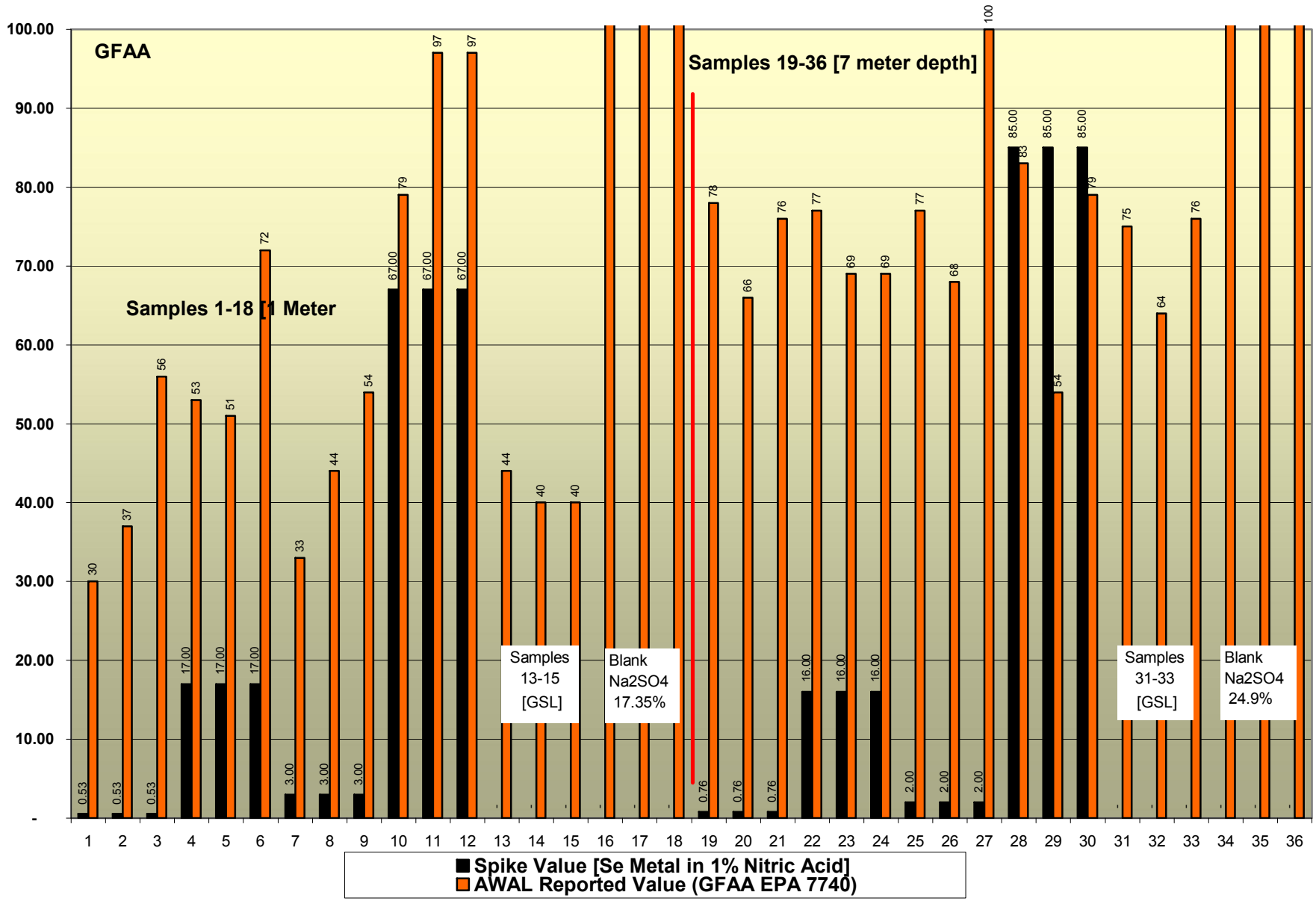
Std Dev / Mean [RSD-CV]	Agilent 7500 Octopol. H2 Carrier Gas. ICP/MS w/ Collison Cell	(RV-SV) [Error]	Mean	Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]	Std Dev / Mean [RSD-CV]	P&E O2 Carrier Gas. ICP/MS w/ DRC
	0.89	0.36					0.2
	0.91	0.38					0.78
1.4%	**0.93**	0.40	0.91	0.022	88.1%	2.4%	0.8
	17.24	0.24					18.1
	15.31	-1.69					17.1
5.5%	**16.36**	-0.64	16.30	0.966	93.2%	5.9%	17.7
	2.59	-0.41					3.5
	2.57	-0.43					4.1
1.2%	**2.60**	-0.40	2.59	0.014	73.9%	0.5%	3.7
	73.86	6.86					81.1
	65.88	-1.12					70.9
3.4%	**70.30**	3.30	70.01	3.998	103.7%	5.7%	71.9
	0.64	0.64					1.4
	0.42	0.42					1.6
7.8%	**0.48**	0.48	0.51	0.112	102.7%	21.8%	4.5
	1.02	1.02					2.8
	0.35	0.35					0.75
7.1%	**0.27**	0.27	0.55	0.411	109.0%	75.3%	3.9
	1.25	0.49					6.4
	1.05	0.29					3
4.4%	**1.34**	0.58	1.21	0.150	96.2%	12.4%	4.5
	9.88	-6.12					12.5
	8.67	-7.33					11.7
24.7%	**8.18**	-7.82	8.91	0.878	54.0%	9.9%	9.3
	1.18	-0.82					2.1
	1.58	-0.42					6.8
4.2%	**1.93**	-0.07	1.56	0.375	62.6%	24.0%	0.55
	90.35	5.35					43.1
	43.08	-41.92					33.5
2.2%	**51.22**	-33.78	61.55	25.271	72.0%	41.1%	33.8
	0.88	0.88					3.9
	0.95	0.95					3
3.5%	**1.17**	1.17	1.00	0.150	200.2%	15.0%	3.1
	0.39	0.39					4.6
	0.36	0.36					0.4
5.9%	**0.51**	0.51	0.42	0.078	83.8%	18.5%	10.6
5.9%		**Average**		**2.70204**	**94.9%**	**19.4%**	
4.4%		1 meter		0.92028	95.1%	18.6%	
7.5%		7 meter		4.4838	94.8%	20.1%	

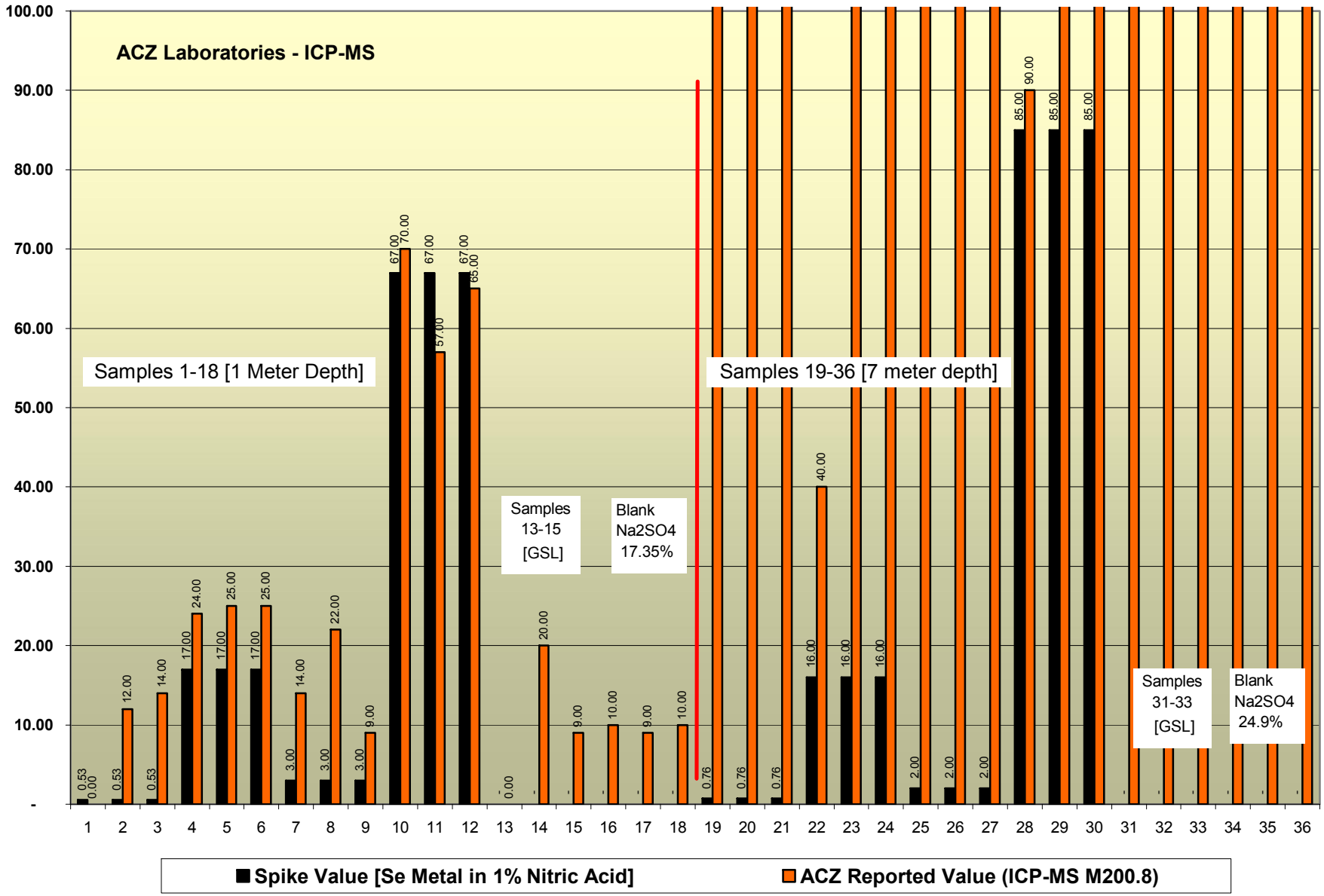
(RV-SV) [Error]	Mean	Std. Dev. [Precision]	% Recovery [Accuracy (0.5)]	Std Dev / Mean [RSD-CV]	USGS Hydride Generation	(RV-SV) [Error]	Mean
-0.33					<1		
0.25					<1		
0.27	0.59	0.341	57.6%	57.4%	1.1	0.57	1.10
1.10					15	-2.00	
0.10					17	0.00	
0.70	17.63	0.503	100.8%	2.9%	16	-1.00	16.00
0.50					3	0.00	
1.10					3.5	0.50	
0.70	3.77	0.306	107.6%	8.1%	3.4	0.40	3.30
14.10					59	-8.00	
3.90					63	-4.00	
4.90	74.63	5.623	110.6%	7.5%	63	-4.00	61.67
1.40					<1		
1.60					<1		
4.50	2.50	1.735	500.0%	69.4%	<1		
2.80					<1		
0.75					<1		
3.90	2.48	1.599	496.7%	64.4%	<1		
5.64					<1		
2.24					1.2	0.44	
3.74	4.63	1.704	367.7%	36.8%	2.2	1.44	1.70
-3.50					9.2	-6.80	
-4.30					8.6	-7.40	
-6.70	11.17	1.665	67.7%	14.9%	8	-8.00	8.60
0.10					1.7	-0.30	
4.80					1.3	-0.70	
-1.45	3.15	3.255	126.0%	103.3%	1.6	-0.40	1.53
-41.90					44	-41.00	
-51.50					43	-42.00	
-51.20	36.80	5.458	43.0%	14.8%	40	-45.00	42.33
3.90					<1		
3.00					<1		
3.10	3.33	0.493	666.7%	14.8%	<1		
4.60					<1		
0.40					<1		
10.60	5.20	5.126	1040.0%	98.6%	<1		
Average		**2.496964**	**329.7%**	**39.6%**		**Average**	
1 meter		1.911492	280.6%	31.5%		1 meter	
7 meter		3.199531	388.7%	49.3%		7 meter	

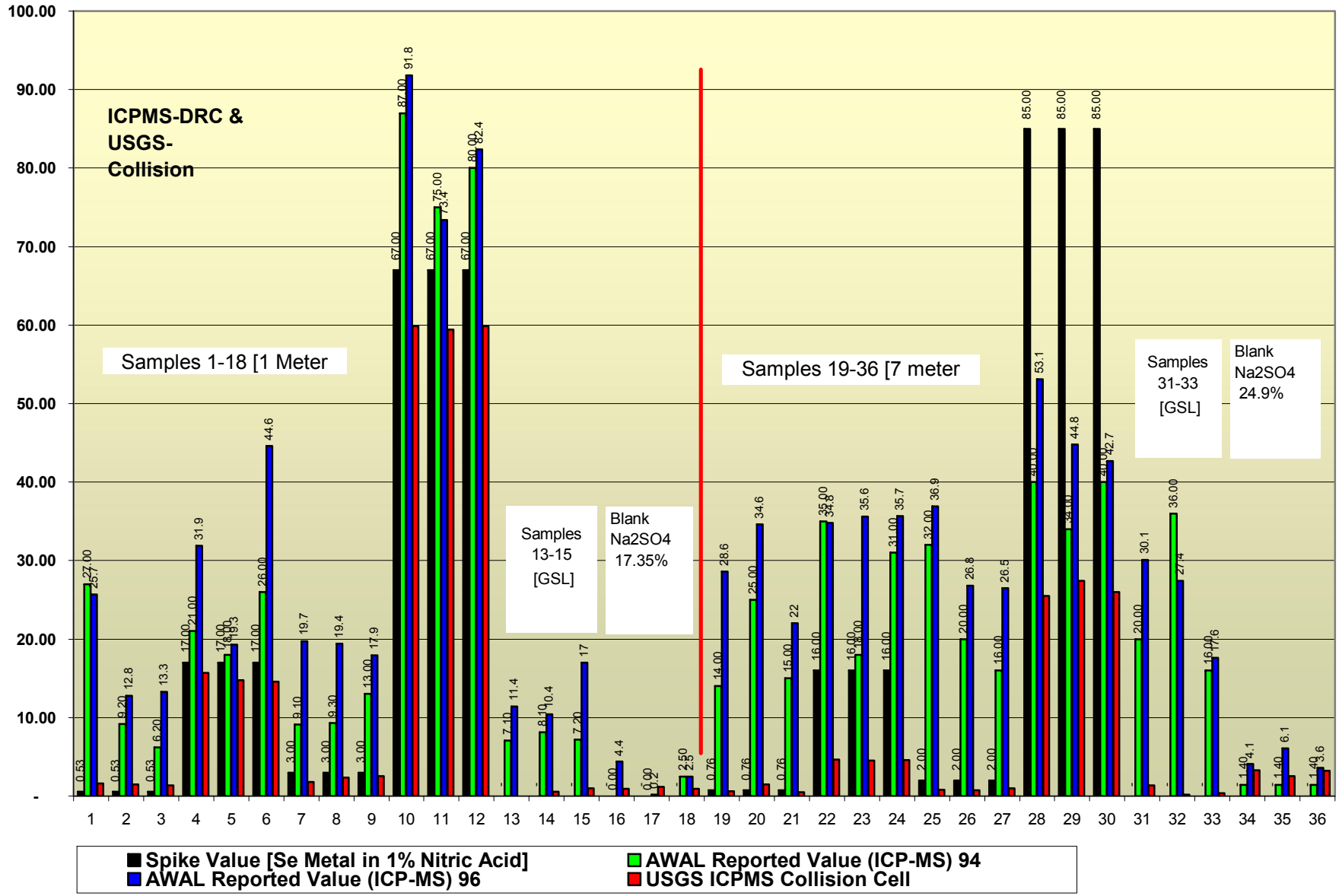
Std. Dev. [Preci-sion]	% Recov-ery [Accu-racy (0.5)]	Std Dev / Mean [RSD- CV]	USGS ICPMS Collision Cell	(RV-SV) [Error]	Mean	Std. Dev. [Preci-sion]	% Recov-ery [Accu racy (0.5)]
			1.6165	1.09			
			1.4755	0.95			
	106.8%		1.3425	0.81	1.48	0.137	143.5%
			15.695	-1.31			
			14.765	-2.24			
1.000	91.4%	6.3%	14.55	-2.45	15.00	0.609	85.7%
			1.815	-1.19			
			2.361	-0.64			
0.265	94.3%	8.0%	2.5655	-0.43	2.25	0.388	64.2%
			59.85	-7.15			
			59.4	-7.60			
2.309	91.4%	3.7%	59.85	-7.15	59.70	0.260	88.4%
			<0.02	#VALUE!			
			0.5285	0.53			
			1.0155	1.02	0.77	0.344	154.4%
			0.961	0.96			
			1.1825	1.18			
			0.9445	0.94	1.03	0.133	205.9%
			0.6265	-0.13			
			1.502	0.74			
0.707	134.9%	41.6%	0.467	-0.29	0.87	0.557	68.7%
			4.674	-11.33			
			4.501	-11.50			
0.600	52.1%	7.0%	4.5965	-11.40	4.59	0.087	27.8%
			0.7855	-1.21			
			0.7675	-1.23			
0.208	61.3%	13.6%	0.973	-1.03	0.84	0.114	33.7%
			25.515	-59.49			
			27.395	-57.61			
2.082	49.5%	4.9%	26.005	-59.00	26.31	0.975	30.8%
			1.342	1.34			
			0.164	0.16			
			0.368	0.37	0.62	0.630	124.9%
			3.28	3.28			
			2.549	2.55			
			3.2085	3.21	3.01	0.403	602.5%
1.024416513	**82.1%**	**12.2%**		**Average**		**0.409011**	**135.2%**
1.070270747	103.0%	14.9%		1 meter		0.381813	111.2%
0.963277533	54.3%	8.5%		7 meter		0.441649	163.9%

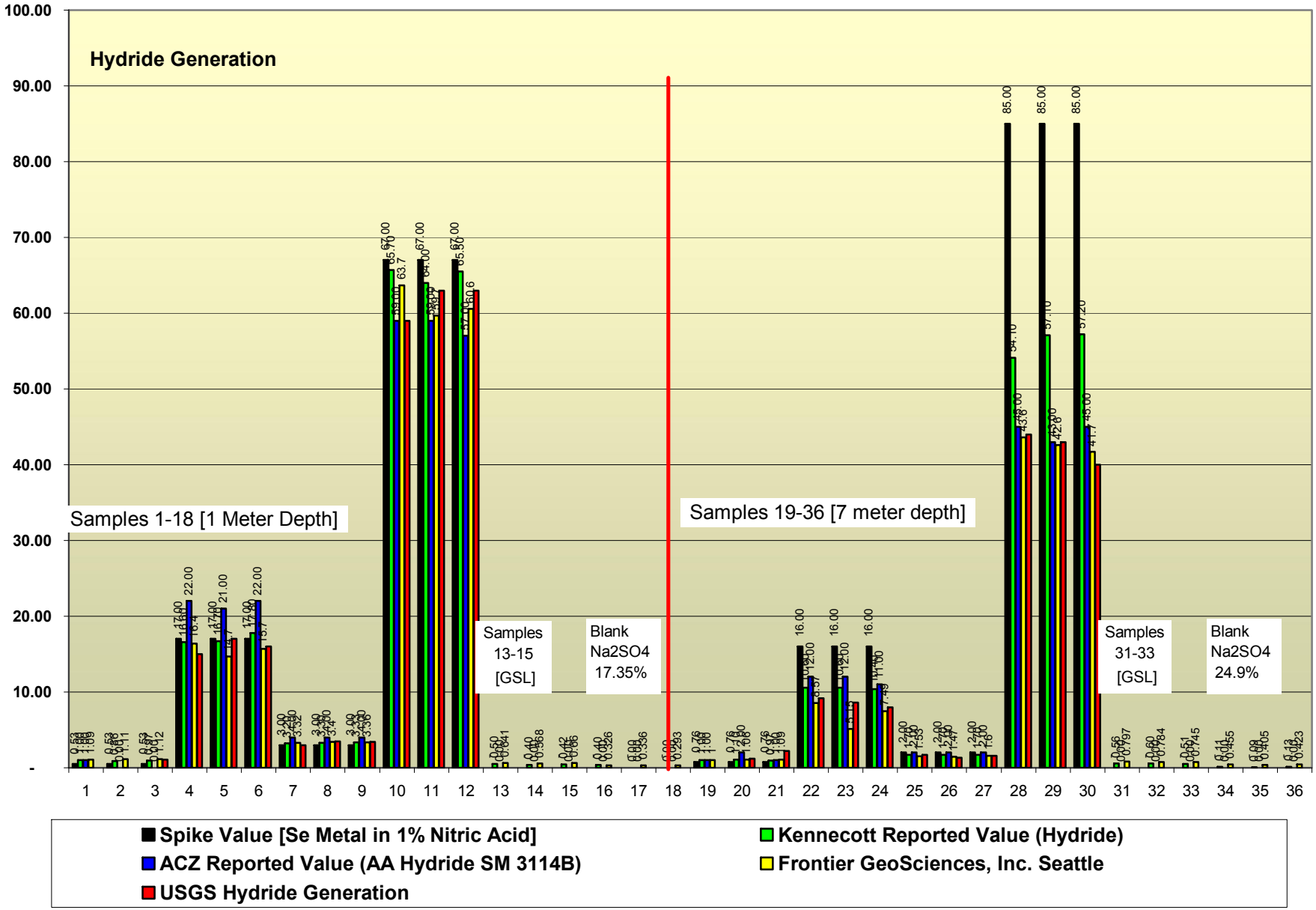
Std Dev / Mean [RSD- CV]
9.3%
4.1%
17.3%
0.4%
44.6%
12.9%
64.4%
1.9%
13.5%
3.7%
100.8%
13.4%
25.2%
23.9%
26.7%

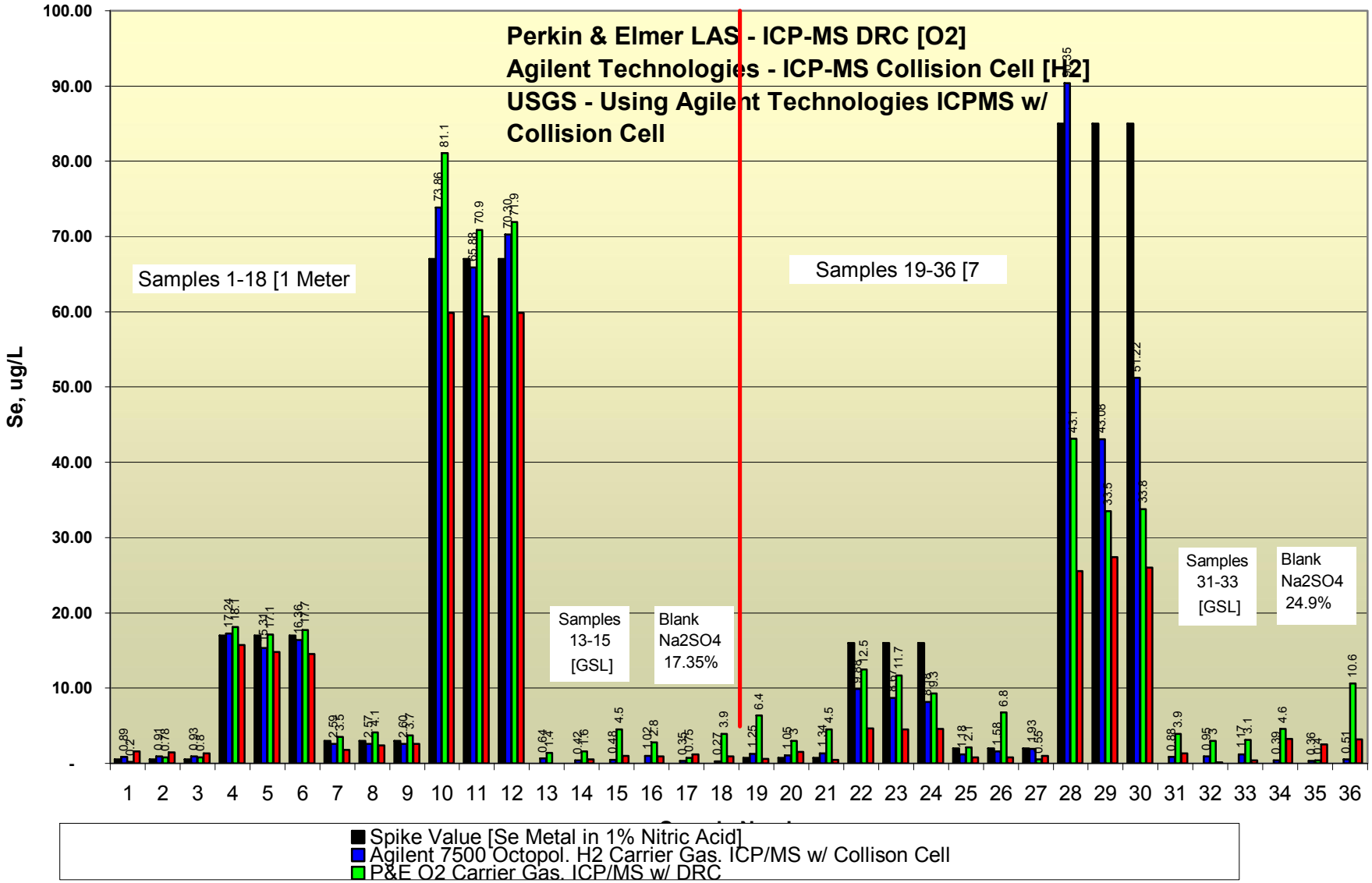

Spike Value [Se Metal in 1% Nitric Acid]
Pre-Publication Data.
Funding provided by: USEPA and UTAH DEQ.
William Moellmer, Ph.D.,
Utah Divison of Water Quality
Spiking Level, Se, ug/l
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
-
0.53
0.53
0.53
17.00
17.00
17.00
3.00
3.00
3.00
67.00
67.00
67.00
Samples 1-18 [1 Meter
Samples 13-15 [GSL]
Blank Na2SO4 17.35%
0.76
0.76
0.76
16.00
16.00
16.00
2.00
2.00
2.00
85.00
85.00
85.00
Samples 19-36 [7 meter
Samples 31-33 [GSL]
Blank Na2SO4 24.9%
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
Spike Value [Se Metal in 1% Nitric Acid]


GFAA
Samples 1-18 [1 Meter
Samples 19-36 [7 meter depth]
Samples 13-15 [GSL]
Blank Na2SO4 17.35%
Samples 31-33 [GSL]
Blank Na2SO4 24.9%
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
Spike Value [Se Metal in 1% Nitric Acid]
AWAL Reported Value (GFAA EPA 7740)


ACZ Laboratories - ICP-MS
Samples 1-18 [1 Meter Depth]
Samples 19-36 [7 meter depth]
Samples 13-15 [GSL]
Blank Na2SO4 17.35%
Samples 31-33 [GSL]
Blank Na2SO4 24.9%
Spike Value [Se Metal in 1% Nitric Acid]
ACZ Reported Value (ICP-MS M200.8)


ICPMS-DRC & USGS-Collision
Samples 1-18 [1 Meter
Samples 13-15 [GSL]
Blank Na2SO4 17.35%
Samples 19-36 [7 meter
Samples 31-33 [GSL]
Blank Na2SO4 24.9%
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
Spike Value [Se Metal in 1% Nitric Acid]
AWAL Reported Value (ICP-MS) 94
AWAL Reported Value (ICP-MS) 96
USGS ICPMS Collision Cell


Hydride Generation
Samples 1-18 [1 Meter Depth]
Samples 19-36 [7 meter depth]
Samples 13-15 [GSL]
Blank Na2SO4 17.35%
Samples 31-33 [GSL]
Blank Na2SO4 24.9%
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
Spike Value [Se Metal in 1% Nitric Acid]
Kennecott Reported Value (Hydride)
ACZ Reported Value (AA Hydride SM 3114B)
Frontier GeoSciences, Inc. Seattle
USGS Hydride Generation

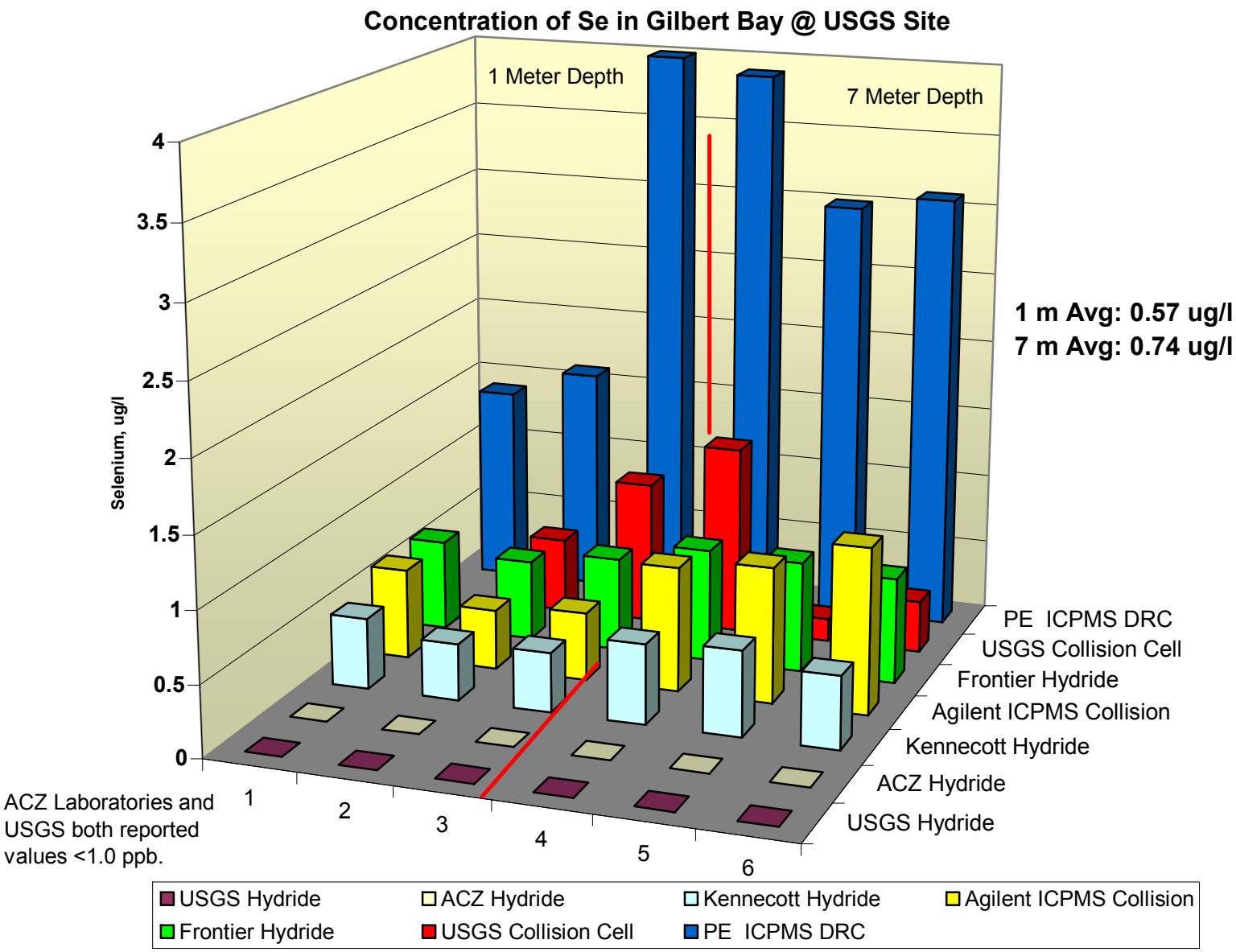

Perkin & Elmer LAS - ICP-MS DRC [O2]
Agilent Technologies - ICP-MS Collision Cell [H2]
USGS - Using Agilent Technologies ICPMS w/ Collision Cell
Se, ug/L
Samples 1-18 [1 Meter
Samples 19-36 [7
Samples 13-15 [GSL]
Blank Na2SO4 17.35%
Samples 31-33 [GSL]
Blank Na2SO4 24.9%
Spike Value [Se Metal in 1% Nitric Acid]
Agilent 7500 Octopol. H2 Carrier Gas. ICP/MS w/ Collison Cell
P&E O2 Carrier Gas. ICP/MS w/ DRC

Round Robin Summary Statistics

Pre-Publication Data.
Funding provided by: USEPA and UTAH DWQ. William Moellmer, Ph.D.

		% Recovery [Accuracy] Accuracy
Agilent 7500 Octopol. H2 Carrier Gas. ICP/MS w/ Collison Cell	**Average**	**94.9%**
	1 meter	95.1%
	7 meter	94.8%
ACZ Reported Value (AA Hydride SM 3114B)	**Average**	**91.2%**
	1 meter	105.4%
	7 meter	77.1%
Frontier GeoSciences, Inc. Seattle	**Average**	**87.5%**
	1 meter	95.3%
	7 meter	79.7%
Kennecott Reported Value (Hydride)	**Average**	**82.2%**
	1 meter	94.7%
	7 meter	69.7%
ACZ Reported Value (ICP-MS M200.8)	**Average**	**2953.3%**
	1 meter	481.6%
	7 meter	5424.9%
AWAL Reported Value (ICP-MS) 94	**Average**	**558.0%**
	1 meter	478.6%
	7 meter	637.3%
AWAL Reported Value (ICP-MS) 96	**Average**	**781.2%**
	1 meter	631.0%
	7 meter	931.4%
AWAL Reported Value (GFAA EPA 7740)	**Average**	**8214.2%**
	1 meter	7105.3%
	7 meter	9323.1%
Perkin Elmer O2 Carrier Gas. ICP/MS w/ DRC	**Average**	**249.7%**

Std Dev / Mean [CV] Precision
19.4%
18.6%
20.1%
7.9%
1.5%
12.7%
5.9%
4.4%
7.5%
5.9%
5.5%
6.2%
29.4%
24.2%
33.8%
26.3%
26.8%
25.9%
32.0%
43.8%
18.3%
15.1%
18.0%
12.1%
329.7%


Concentration of Se in Gilbert Bay @ USGS Site
1 Meter Depth
7 Meter Depth
Selenium, ug/l
4
3.5
3
2.5
2
1.5
1
0.5
0
1 m Avg: 0.57 ug/l
7 m Avg: 0.74 ug/l
PE ICPMS DRC
USGS Collision Cell
Frontier Hydride
Agilent ICPMS Collision
Kennecott Hydride
ACZ Hydride
USGS Hydride
1
2
3
4
5
6
ACZ Laboratories and USGS both reported values <1.0 ppb.
USGS Hydride
ACZ Hydride
Kennecott Hydride
Agilent ICPMS Collision
Frontier Hydride
USGS Collision Cell
PE ICPMS DRC