

	ER/RRES-WQH	DATE RECEIVED	EDD sent	Hard sent	ured anal	SAMPLE ID	Location	Date/Time	gallons		Bromide	Oxalate	Chloride	Fluoride	Nitrite	Ultrate	Phosphate	Sulfite	Sulfate	DATE ICPMS2a	Ag(ppm)	stdev (Ag)	Al ICPMS (ppm)	stdev (Al)	As(ppm)	stdev (As)	Ba ICPMS (ppm)	stdev (Ba)	Be(ppm)	stdev (Be)	Cd(ppm)	stdev (Cd)	Co(ppm)	stdev (Co)	Cr (ppm)	stdev (Cr)	Cs(ppm)
2017-2555		28-Aug-17	31-Oct-17	31-Oct-17	11	TRR-42-17-142336	R-42	8/24/2017 10:15		8/28/2017	87.70	0.00	40.34	0.00	0.00	0.0000	0.00		8696.13																		
2017-2555		28-Aug-17	31-Oct-17	31-Oct-17	12	TRR-42-17-142337	R-42 makeup	8/24/2017 11:09		9/26/2017	0.23	0.00	47.84	0.57	0.00	22.0354	0.00		72.80																		
2017-2555		28-Aug-17	31-Oct-17	31-Oct-17	11	TRR-42-17-142338	R-42	8/24/2017 11:41		8/28/2017	92.91	0.00	39.64	0.00	0.00	3027.1680	0.00		16435.06																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142339	R-42	8/24/2017 13:37		8/28/2017	109.08	0.00	47.92	0.00	0.00	14.6637	0.00		8868.16																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142340	R-42	8/24/2017 14:50		8/28/2017	117.51	0.00	49.73	0.00	0.00	21.4645	0.00		7850.39																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142341	R-42	8/24/2017 15:55		8/28/2017	126.24	0.00	53.07	0.00	0.00	18.2160	0.00		9399.03																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142342	R-42	8/24/2017 16:52		8/28/2017	113.29	0.00	48.40	0.00	0.00	17.6534	0.00		8071.32																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142343	R-42	8/24/2017 17:48		8/30/2017	107.84	0.00	52.55	0.00	0.00	14.4156	0.00		9069.03																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142344	R-42	8/24/2017 18:45		8/30/2017	109.24	0.00	52.70	0.00	0.00	18.9779	0.00		8428.57																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142345	R-42	8/24/2017 20:10		8/30/2017	104.31	0.00	47.88	0.00	0.00	21.9468	0.00		7908.85																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142346	R-42	8/24/2017 21:22		8/30/2017	119.26	0.00	47.02	0.00	0.00	19.2694	0.00		9133.55																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142347	R-42	8/24/2017 21:52		8/30/2017	134.93	0.00	47.85	0.00	0.00	17.7844	0.00		8887.65																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142349	R-42	8/24/2017 23:02		8/30/2017	108.93	0.00	51.28	0.00	0.00	15.6059	0.00		10580.74																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142348	R-42	8/24/2017 23:48		8/30/2017	128.76	0.00	47.57	0.00	0.00	15.5937	0.00		8366.82																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142350	R-42	8/25/2017 0:48		8/30/2017	133.00	0.00	48.01	0.00	0.00	17.0065	0.00		10050.07																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142351	R-42	8/25/2017 1:49		8/30/2017	120.67	0.00	47.77	0.00	0.00	17.5402	0.00		9631.51																		
2017-2570		28-Aug-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142352	R-42 chase	8/25/2017 2:13		8/30/2017	3.03	0.00	11.71	0.57	0.00	0.6638	0.00		199.38																		
2017-2602		30-Aug-17	26-Oct-17	26-Oct-17	11	TRR-42-17-142353	R-42	8/28/2017 16:00	0	8/28/2017	28.55	0.00	15.55	0.97	0.00	4.4713	0.00		2597.10																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144352	R-42	8/28/2017 17:00	186	8/30/2017	37.14	0.00	41.69	1.39	0.00	10.8824	0.00		5465.36																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144353	R-42	8/28/2017 18:00	372	8/30/2017	46.02	0.00	20.33	1.57	0.00	4.5677	0.00		4784.94																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144354	R-42	8/28/2017 19:00	558	8/30/2017	56.26	0.00	24.39	1.64	0.00	7.4544	0.00		7605.02																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144355	R-42	8/28/2017 20:00	744	8/30/2017	56.48	0.00	26.09	1.98	0.00	6.6716	0.00		8021.63																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	8	TRR-42-17-144370	R-42	8/29/2017 11:00		8/30/2017	62.72	0.00	29.56	1.43	0.00	10.6303	0.00		8048.22																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144371	R-42	8/29/2017 12:00		8/30/2017	58.33	0.00	30.90	1.78	0.00	11.9114	0.00		8562.66																		
2017-2601		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144372	R-42	8/29/2017 13:00	860.4	8/30/2017	62.45	0.00	30.34	1.71	0.00	12.6245	0.00		9159.28																		
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144373	R-42	8/29/2017 14:00	976.8	8/30/2017	76.72	0.00	38.00	0.55	0.00	15.1787	0.00		12350.84		7584.1738																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144374	R-42	8/29/2017 15:00	1093.2	9/1/2017	84.95	0.00	40.39	0.74	0.00	18.4911	0.00		13213.57		7526.2927																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144375	R-42	8/29/2017 16:00	1209.6	9/1/2017	89.13	0.00	40.65	0.54	0.00	20.0778	0.00		10732.13		7664.2682																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144376	R-42	8/29/2017 17:00	1326	9/1/2017	92.09	0.00	43.69	1.33	0.00	16.4354	0.00		15263.80		7536.0429																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144377	R-42	8/29/2017 18:00	1442.4	9/1/2017	95.56	0.00	42.94	0.80	0.00	18.0214	0.00		13781.63		7628.1226																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144378	R-42	8/29/2017 19:00	1558.8	9/1/2017	98.43	0.00	47.66	0.95	0.00	19.4356	0.00		13186.53		7574.5005																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144379	R-42	8/29/2017 20:00	1675.2	9/1/2017	91.29	0.00	46.50	0.93	0.00	17.8339	0.00		12346.01		7383.3647																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144380	R-42	8/29/2017 21:00	1791.6	9/1/2017	99.86	0.00	45.81	0.66	0.00	20.6893	0.00		12716.96		7318.5274																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144381	R-42	8/29/2017 22:00	1908	9/1/2017	106.44	0.00	48.66	0.92	0.00	21.8408	0.00		14208.20		6956.3668																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144382	R-42	8/29/2017 23:00	2024.4	9/1/2017	80.23	0.00	43.30	0.72	0.00	15.6127	0.00		17264.87		7093.6321																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144383	R-42	8/30/2017 0:00	2140.8	9/1/2017	101.09	0.00	46.12	1.26	0.00	24.3313	0.00		11023.40		6787.0262																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144384	R-42	8/30/2017 1:00	2257.2	9/1/2017	95.84	0.00	49.60	0.70	0.00	22.4089	0.00		11424.11		6536.9204																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144385	R-42	8/30/2017 2:00	2373.6	9/1/2017	102.74	0.00	50.23	1.27	0.00	20.5347	0.00		10968.80		6352.7949																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144386	R-42	8/30/2017 3:00	2490	9/1/2017	90.66	0.00	46.33	0.90	0.00	22.1566	0.00		13869.24		6361.8778																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144387	R-42	8/30/2017 4:00	2606.4	9/1/2017	105.20	0.00	49.55	0.96	0.00	23.0826	0.00		15790.75		5946.4439																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144388	R-42	8/30/2017 5:00	2722.8	9/1/2017	90.53	0.00	50.79	1.18	0.00	18.8910	0.00		11727.65		6006.9899																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144389	R-42	8/30/2017 6:00	2839.2	9/1/2017	96.75	0.00	50.47	1.32	0.00	21.0496	0.00		10202.93		5613.4203																
2017-2634		30-Aug-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144390	R-42	8/30/2017 7:00	2955.6	9/1/2017	78.23	0.00	41.54	1.16	0.00	22.4929	0.00		12192.47		5788.0019									</							

2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144437	R-42	9/3/2017 0:00	13315.2
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144438	R-42	9/3/2017 2:00	13548
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144439	R-42	9/3/2017 4:00	13780.8
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144440	R-42	9/3/2017 6:00	14013.6
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144441	R-42	9/3/2017 8:00	14246.4
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144442	R-42	9/3/2017 10:00	14479.2
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144443	R-42	9/3/2017 12:00	14712
2017-2685	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144444	R-42	9/3/2017 14:00	14944.8
2017-2683	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144455	R-42	9/4/2017 12:00	17505.6
2017-2683	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144456	R-42	9/4/2017 14:00	17738.4
2017-2683	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144457	R-42	9/4/2017 16:00	17971.2
2017-2683	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144458	R-42	9/4/2017 18:00	18204
2017-2683	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144459	R-42	9/4/2017 20:00	18436.8
2017-2683	05-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144460	R-42	9/4/2017 22:00	18669.6
2017-2682	05-Sep-17	22-Dec-17	22-Dec-17	11	TRR-42-17-144461	R-42	9/5/2017 0:00	18902.4
2017-2682	05-Sep-17	22-Dec-17	22-Dec-17	11	TRR-42-17-144462	R-42	9/5/2017 2:00	19135.2
2017-2682	05-Sep-17	22-Dec-17	22-Dec-17	11	TRR-42-17-144463	R-42	9/5/2017 4:00	19368
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144466	R-42	9/5/2017 10:00	20066.4
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144467	R-42	9/5/2017 12:00	20299.2
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144468	R-42	9/5/2017 14:00	20532
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144469	R-42	9/5/2017 16:00	20764.8
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144470	R-42	9/5/2017 18:00	20997.6
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144471	R-42	9/5/2017 20:00	21230.4
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144472	R-42	9/5/2017 22:00	21463.2
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144473	R-42	9/6/2017 0:00	21696
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144474	R-42	9/6/2017 2:00	21928.8
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144475	R-42	9/6/2017 4:00	22161.6
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144476	R-42	9/6/2017 6:00	22394.4
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144477	R-42	9/6/2017 8:00	22627.2
2017-2704	06-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144478	R-42	9/6/2017 10:00	22860
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144479	R-42	9/6/2017 12:00	23092.8
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144480	R-42	9/6/2017 14:00	23325.6
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144481	R-42	9/6/2017 16:00	23558.4
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144482	R-42	9/6/2017 18:00	23791.2
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144483	R-42	9/6/2017 20:00	24024
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144484	R-42	9/6/2017 22:00	24256.8
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144485	R-42	9/7/2017 0:00	24489.6
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144486	R-42	9/7/2017 2:00	24722.4
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144487	R-42	9/7/2017 4:00	24955.2
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144488	R-42	9/7/2017 6:00	25188
2017-2720	07-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144489	R-42	9/7/2017 8:00	25420.8
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144490	R-42	9/7/2017 10:00	25653.6
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144491	R-42	9/7/2017 12:00	25886.4
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144492	R-42	9/7/2017 14:00	26119.2
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144493	R-42	9/7/2017 16:00	26352
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144494	R-42	9/7/2017 18:00	26584.8
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144495	R-42	9/7/2017 20:00	26817.6
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144496	R-42	9/7/2017 22:00	27050.4
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144497	R-42	9/8/2017 0:00	27283.2
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144498	R-42	9/8/2017 2:00	27516
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144499	R-42	9/8/2017 4:00	27748.8
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144500	R-42	9/8/2017 6:00	27981.6
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144501	R-42	9/8/2017 8:00	28214.4
2017-2728	08-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144502	R-42	9/8/2017 10:00	28447.2
2017-2740	08-Sep-17	25-Oct-17	25-Oct-17	8	TRR-42-17-144503	R-42 inside trailer	9/8/2017 16:20	29184.4
2017-2746	11-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144505	R-42	9/9/2017 6:45	30862.5
2017-2746	11-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144506	R-42	9/9/2017 18:25	32220.5
2017-2740	11-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144507	R-42	9/10/2017 13:25	34432.1
2017-2745	11-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144509	R-42	9/11/2017 10:51	36926.94
2017-2749	11-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144512	R-42	9/11/2017 16:00	37526.4
2017-2754	12-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144513	R-42	9/12/2017 11:00	39738
2017-2758	13-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144514	R-42	9/12/2017 16:00	40320
2017-2764	19-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144515	R-42	9/13/2017 9:55	42405.5
2017-2772	13-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144516	R-42	9/13/2017 16:00	43113.6
2017-2781	14-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144517	R-42	9/14/2017 10:15	45237.9
2017-2848	14-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144518	R-42	9/14/2017 15:55	45897.5
2017-2814	15-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144519	R-42	9/15/2017 9:30	47944.2
2017-2822	15-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144520	R-42	9/15/2017 14:40	48545.6
2017-2836	18-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144521	R-42	9/16/2017 9:50	50776.6
2017-2836	18-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144522	R-42	9/17/2017 14:10	54074.6
2017-2836	18-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144523	R-42	9/18/2017 10:45	56470.5
2017-2846	19-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144524	R-42	9/18/2017 16:00	57081.6
2017-2846	19-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144525	R-42	9/19/2017 0:00	58012.8
2017-2846	19-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144526	R-42	9/19/2017 8:00	58944
2017-2862	20-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144527	R-42	9/19/2017 16:00	59875.2
2017-2862	20-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144528	R-42	9/20/2017 0:00	60806.4
2017-2862	20-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144529	R-42	9/20/2017 8:00	61737.6
2017-2876	21-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144530	R-42	9/20/2017 16:00	62668.8
2017-2876	21-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144531	R-42	9/21/2017 0:00	63600
2017-2876	21-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144532	R-42	9/21/2017 8:00	64531.2
2017-2885	22-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144533	R-42	9/21/2017 16:00	65462.4
2017-2885	22-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144534	R-42	9/22/2017 9:00	65578.8
2017-2888	22-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144536	R-42	9/22/2017 15:00	66277.2
2017-2894	25-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144537	R-42	9/22/2017 16:00	66393.6
2017-2894	25-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144538	R-42	9/25/2017 9:00	66510
2017-2905	26-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144540	R-42	9/25/2017 9:00	66510
2017-2905	26-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144539	R-42	9/26/2017 16:00	68256
2017-2919	27-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144541	R-42	9/26/2017 16:00	68256
2017-2919	27-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144542	R-42	9/27/2017 9:00	68372.4
2017-2951	28-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144543	R-42	9/27/2017 16:00	69303.6
2017-2951	28-Sep-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144544	R-42	9/27/2017 16:00	69303.6
2017-3005	02-Oct-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144545	R-42	9/28/2017 16:00	70118.4
2017-3005	02-Oct-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144546	R-42	9/29/2017 9:00	70234.8
2017-3005	02-Oct-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144547	R-42	9/29/2017 14:30	70875

9/7/2017	13.99	0.00	45.96	0.75	0.00	21.4911	0.00	1592.11
9/7/2017	13.71	0.00	47.03	0.84	0.00	21.7701	0.00	1208.34
9/7/2017	12.73	0.00	45.64	0.88	0.00	20.9514	0.00	1474.50
9/7/2017	12.15	0.00	45.61	0.81	0.00	20.9575	0.00	1517.99
9/7/2017	11.63	0.00	45.41	0.80	0.00	20.5443	0.00	1629.77
9/7/2017	10.68	0.00	43.37	0.72	0.00	19.6298	0.00	1923.89
9/7/2017	11.50	0.00	47.22	0.83	0.00	21.4529	0.00	1490.47
9/5/2017	11.27	0.00	46.93	0.75	0.00	21.9136	0.00	1471.17
9/5/2017	8.93	0.00	50.34	0.57	0.00	23.7574	0.00	1118.84
9/5/2017	9.32	0.00	55.96	0.55	0.00	25.1524	0.00	1138.41
9/5/2017	8.50	0.00	51.31	0.67	0.00	23.4206	0.00	1114.81
9/5/2017	8.74	0.00	52.97	0.71	0.00	23.4480	0.00	1087.99
9/5/2017	7.38	0.00	46.96	0.56	0.00	21.0516	0.00	948.97
9/5/2017	7.73	0.00	50.87	0.63	0.00	23.1243	0.00	910.99
9/5/2017	7.38	0.00	53.94	0.89	0.00	22.8331	0.00	816.80
9/5/2017	7.79	0.00	49.19	0.49	0.00	22.4641	0.00	749.35
9/5/2017	7.20	0.00	52.03	0.72	0.00	22.3931	0.00	741.84
9/7/2017	6.39	0.00	45.04	0.46	0.00	20.4596	0.00	902.37
9/7/2017	6.16	0.00	49.29	0.81	0.00	21.0633	0.00	923.35
9/7/2017	6.14	0.00	48.65	0.90	0.00	20.5524	0.00	834.44
9/7/2017	6.10	0.00	47.57	0.88	0.00	20.2002	0.00	847.90
9/7/2017	5.86	0.00	48.72	0.86	0.00	20.4435	0.00	861.46
9/7/2017	5.75	0.00	50.38	0.78	0.00	20.4461	0.00	842.70
9/7/2017	5.58	0.00	50.46	1.08	0.00	20.4452	0.00	817.82
9/7/2017	5.56	0.00	51.15	0.95	0.00	20.2084	0.00	857.01
9/7/2017	5.54	0.00	48.15	0.83	0.00	20.1400	0.00	829.68
9/7/2017	5.52	0.00	51.14	0.77	0.00	21.2615	0.00	846.69
9/7/2017	5.33	0.00	51.40	0.88	0.00	20.4945	0.00	802.91
9/7/2017	5.18	0.00	47.34	0.81	0.00	19.8248	0.00	803.40
9/7/2017	5.36	0.00	49.29	0.86	0.00	21.1688	0.00	822.16
9/7/2017	5.11	0.00	46.84	0.75	0.00	21.3303	0.00	710.32
9/7/2017	5.03	0.00	46.90	0.84	0.00	21.1291	0.00	770.57
9/7/2017	4.91	0.00	46.32	0.75	0.00	21.0517	0.00	689.74
9/7/2017	4.79	0.00	49.28	0.87	0.00	20.9628	0.00	736.19
9/7/2017	4.85	0.00	45.21	0.66	0.00	20.6663	0.00	695.44
9/7/2017	4.71	0.00	45.91	0.80	0.00	21.1690	0.00	689.91
9/7/2017	4.78	0.00	46.11	0.78	0.00	20.8625	0.00	702.92
9/7/2017	4.60	0.00	47.41	0.85	0.00	21.3135	0.00	726.63
9/7/2017	4.67	0.00	48.04	0.98	0.00	21.4093	0.00	708.90
9/7/2017	4.49	0.00	47.36	0.92	0.00	21.0340	0.00	719.96
9/7/2017	4.55	0.00	47.69	0.73	0.00	21.2357	0.00	708.27
9/12/2017	5.97	0.00	51.52	0.11	0.00	24.7354	0.00	811.47
9/12/2017	4.81	0.00	51.85	1.03	0.00	21.5137	0.00	1038.90
9/12/2017	4.69	0.00	48.20	0.12	0.00	22.1431	0.00	908.33
9/12/2017	6.92	0.00	52.99	0.01	0.00	27.7017	0.00	895.27
9/12/2017	3.21	0.00	50.58	0.04	0.00	21.2847	0.00	785.49
9/12/2017	3.45	0.00	52.30	0.32	0.00	30.2879	0.00	774.41
9/12/2017	10.31	0.00	50.80	0.16	0.00	25.8438	0.00	937.82
9/12/2017	5.37	0.00	50.79	0.19	0.00	29.6821	0.00	799.55
9/12/2017	3.85	0.00	50.96	0.26	0.00	20.3592	0.00	889.70
9/12/2017	16.61	0.00	50.78	0.19	0.00	22.1332	0.00	855.68
9/12/2017	7.70	0.00	49.64	0.11	0.00	37.2797	0.00	791.71
9/12/2017	9.20	0.00	49.87	0.64	0.00	22.8498	0.00	761.42
9/12/2017	3.36	0.00	50.73	0.06	0.00	25.2835	0.00	833.94
9/12/2017	11.52	0.00	49.47	0.09	0.00	23.4998	0.00	761.90
9/12/2017	9.59	0.00	52.13	0.08	0.00	26.3315	0.00	713.04
9/12/2017	7.94	0.00	51.17	0.18	0.00	28.8807	0.00	717.39
9/12/2017	6.57	0.00	49.31	0.08	0.00	31.6353	0.00	557.40
9/12/2017	2.18	0.00	52.86	0.14	0.00	26.7162	0.00	680.11
9/12/2017	6.30	0.00	50.13	0.03	0.00	30.6324	0.00	501.53
9/12/2017	34.85	0.00	44.54	0.19	0.00	33.8258	0.00	899.10
9/14/2017	0.84	0.00	49.55	2.27	0.00	27.4393	0.00	547.49
9/14/2017	3.97	0.00	50.27	1.63	0.00	21.2459	0.00	521.64
9/14/2017	1.07	0.00	51.79	3.02	0.00	20.3304	0.00	506.41
9/14/2017	2.74	0.00	49.11	2.52	0.00	24.3976	0.00	365.43
9/14/2017	1.33	0.00	48.53	1.28	0.00	24.2061	0.00	373.30
9/14/2017	0.59	0.00	45.63	1.50	0.00	21.3489	0.00	299.27
9/18/2017	2.98	0.00	45.83	1.28	0.00	27.4734	0.00	421.54
9/18/2017	1.24	0.00	48.43	1.03	0.00	25.3796	0.00	393.26
9/18/2017	3.04	0.00	46.86	1.52	0.00	24.1299	0.00	338.86
9/18/2017	3.26	0.00	47.76	0.94	0.00	22.2931	0.00	336.46
9/20/2017	1.29	0.00	47.89	1.42	0.00	22.8077	0.00	362.34
9/20/2017	2.83	0.00	47.08	1.18	0.00	22.4897	0.00	374.60
9/20/2017	1.53	0.00	47.89	1.01	0.00	21.6638	0.00	368.45
9/20/2017	1.56	0.00	47.37	0.82	0.00	23.4288	0.00	362.97
9/20/2017	2.00	0.00	49.08	1.26	0.00	23.2411	0.00	337.78
9/20/2017	1.22	0.00	48.16	1.36	0.00	22.3390	0.00	307.37
9/20/2017	1.13	0.00	47.03	0.81	0.00	24.1556	0.00	310.85
9/20/2017	1.32	0.00	46.66	0.87	0.00	21.9734	0.00	297.63
9/20/2017	0.71	0.00	45.40	1.02	0.00	22.1724	0.00	319.74
9/20/2017	1.09	0.00	52.46	0.53	0.00	24.9702	0.00	405.24
9/25/2017	1.05	0.00	49.03	1.10	0.00	22.2595	0.00	338.17
9/25/2017	1.38	0.00	48.63	0.63	0.00	22.7851	0.00	351.65
9/25/2017	0.91	0.00	48.17	0.47	0.00	23.7027	0.00	370.24
9/25/2017	1.78	0.00	49.28	0.68	0.00	21.7165	0.00	352.31
9/26/2017	1.57	0.00	50.83	0.83	0.00	23.2753	0.00	344.12
9/26/2017	0.97	0.00	48.96	0.71	0.00	28.6716	0.00	425.09
9/26/2017	1.02	0.00	50.05	0.75	0.00	23.2843	0.00	305.58
9/26/2017	1.48	0.00	49.20	0.96	0.00	21.8342	0.00	329.67
9/26/2017	1.01	0.00	49.74	0.86	0.00	23.8587	0.00	371.14
9/26/2017	1.68	0.00	51.38	0.91	0.00	21.1038	0.00	336.14
10/2/2017	0.98	0.00	46.94	0.74	0.00	22.0929	0.00	357.02
10/2/2017	1.20	0.00	46.07	0.84	0.00	20.9113	0.00	311.27
10/2/2017	1.00	0.00	46.01	0.75	0.00	22.1778	0.00	298.38

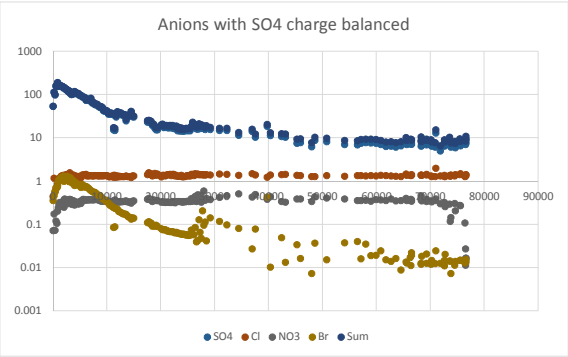
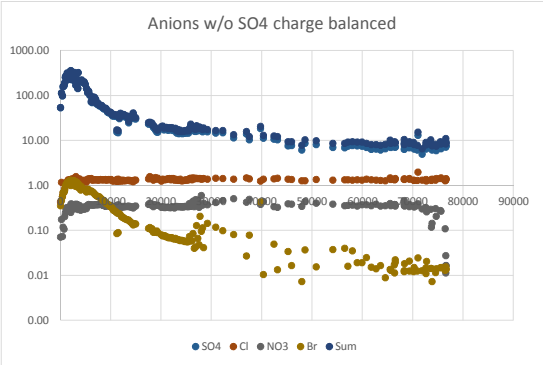
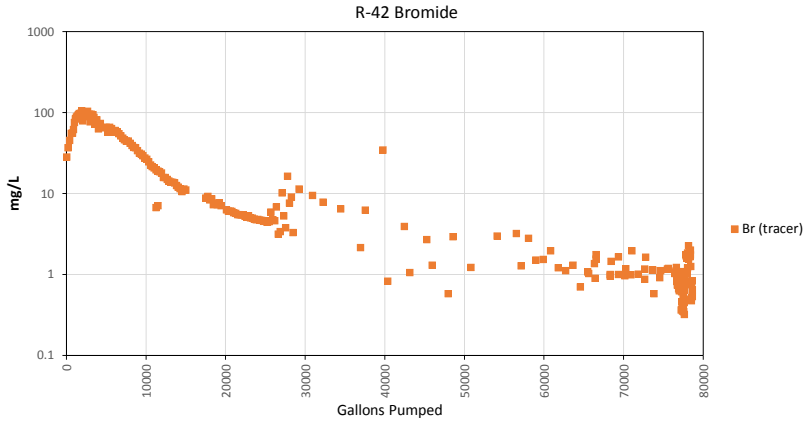
2018-53	02-Oct-17	31-Oct-17	31-Oct-17	11	TRR-42-17-144548	R-42	10/2/2017 9:00	70991.4	10/2/2017	1.99	0.00	70.99	1.03	0.00	24.4163	0.00		631.57
2018-101	03-Oct-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144550	R-42	10/3/2017 9:00	71806.2	10/2/2017	1.02	0.00	47.08	0.65	0.00	18.9315	0.00		240.67
2018-101	03-Oct-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144549	R-42	10/3/2017 16:00	72621	10/2/2017	0.89	0.00	45.60	0.73	0.00	20.0333	0.00		310.74
2018-175	04-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-144551	R-42	10/3/2017 16:00	72621	10/4/2017	1.19	0.00	48.67	1.15	0.00	18.9147	0.00		359.55
2018-174	04-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142354	R-42	10/4/2017 9:00	72737.4	10/4/2017	1.66	0.00	45.59	0.82	0.00	16.1940	0.00		340.15
2018-221	05-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142355	R-42	10/4/2017 16:00	73552.2	10/4/2017	1.15	0.00	47.78	0.71	0.00	18.4307	0.00		421.30
2018-221	05-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142356	R-42	10/5/2017 9:00	73668.6	10/4/2017	1.14	0.00	46.31	0.69	0.00	7.3906	0.00		326.21
2018-302	10-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142359	R-42	10/10/2017 9:45	73785	10/10/2017	0.59	0.00	49.74	0.50	0.00	8.9779	0.00		295.78
2018-370	11-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142360	R-42	10/10/2017 16:00	74512.5	10/10/2017	0.93	0.00	47.30	0.51	0.00	19.2460	0.00		323.20
2018-370	11-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142361	R-42	10/11/2017 9:00	74628.9	10/10/2017	1.13	0.00	50.79	0.57	0.00	12.8361	0.00		285.84
2018-424	12-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142362	R-42	10/11/2017 16:10	75463.1	10/12/2017	1.19	0.00	50.95	0.79	0.00	17.3313	0.00		376.47
2018-424	12-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142363	R-42	10/12/2017 9:00	75579.5	10/12/2017	1.21	0.00	53.17	0.94	0.00	16.8991	0.00		318.80
2018-463	16-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142364	R-42	10/12/2017 16:00	76394.3	10/17/2017	1.04	0.00	45.67	0.61	0.00	6.8067	0.00		369.89
2018-463	16-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142365	R-42	10/13/2017 14:45	76510.7	10/17/2017	1.09	0.00	47.15	0.86	0.00	1.7109	0.00		342.78
2018-480	16-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142366	R-42	10/16/2017 11:35	76540.7	10/17/2017	1.12	0.00	47.54	0.68	0.00	0.7105	0.00		362.94
2018-491	17-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142367	R-42	10/17/2017 9:30	76570.7	10/17/2017	1.25	0.00	50.44	0.68	0.00	1.0354	0.00		463.54
2018-504	18-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142383	R-42	10/18/2017 9:55	76600.7	10/18/2017	1.09	0.00	50.00	0.54	0.00	1.0399	0.00		368.10
2018-532	19-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142384	R-42	10/19/2017 10:20	76630.7	10/19/2017	0.83	0.00	51.10	0.51	0.00	1.6096	0.00		379.11
2018-542	20-Oct-17	30-Nov-17	30-Nov-17	11	TRR-42-17-142385	R-42	10/20/2017 9:45	76660.7	10/23/2017	0.94	0.00	48.91	0.59	0.00	1.9877	0.00		370.60
2018-553	23-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142386	R-42	10/23/2017 10:00	76690.7	10/23/2017	0.75	0.00	49.36	0.49	0.00	1.4974	0.00		338.10
2018-562	24-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142387	R-42	10/24/2017 10:15	76720.7	10/23/2017	0.85	0.00	90.38	0.47	0.00	1.8275	0.00		369.12
2018-572	25-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142388	R-42	10/25/2017 10:40	76750.7	10/23/2017	1.05	0.00	53.99	0.48	0.00	2.3056	0.00		366.93
2018-590	26-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142389	R-42	10/26/2017 10:42	76780.7	10/26/2017	1.07	0.00	51.98	0.73	0.00	1.7904	0.00		523.70
2018-600	27-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142390	R-42	10/27/2017 10:20	76810.7	10/26/2017	0.89	0.00	46.37	0.43	0.00	1.4541	0.00		545.53
2018-627	30-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142391	R-42	10/30/2017 10:32	76840.7	11/13/2017	0.81	0.00	48.34	0.30	0.00	1.3031	0.00		473.36
2018-645	31-Oct-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142392	R-42	10/31/2017 10:15	76870.7	11/13/2017	0.67	0.00	50.37	0.30	0.00	2.6198	0.17		415.32
2018-669	01-Nov-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142393	R-42	11/1/2017 10:10	76900.7	11/13/2017	0.75	0.00	50.29	0.28	0.00	2.3207	0.00		416.77
2018-694	02-Nov-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142394	R-42	11/2/2017 10:40	76930.7	11/3/2017	0.64	0.00	51.00	0.28	0.00	1.8669	0.00		381.17
2018-705	03-Nov-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142395	R-42	11/3/2017 10:20	76960.7	11/9/2017	0.86	0.00	49.76	0.39	0.00	2.2401	0.00		408.19
2018-717	06-Nov-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142369	R-42	11/6/2017 9:40	76990.7	11/9/2017	0.93	0.00	50.22	0.28	0.00	1.6666	0.00		299.45
2018-755	07-Nov-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142370	R-42	11/7/2017 9:50	77020.7	11/9/2017	0.83	0.00	50.66	0.34	0.00	1.5960	0.00		356.04
2018-802	08-Nov-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142371	R-42	11/8/2017 10:45	77050.7	11/9/2017	0.00	0.00	58.02	0.51	0.00	3.5764	0.00		350.25
2018-836	09-Nov-17	31-Jan-18	31-Jan-18	11	TRR-42-17-142372	R-42	11/9/2017 8:55	77080.7	11/9/2017	1.04	0.00	50.84	0.49	0.00	1.6270	0.00		373.20
2018-866	13-Nov-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142373	R-42	11/13/2017 10:00	77110.7	11/13/2017	1.02	0.00	49.28	0.37	0.00	1.5261	0.00		319.18
2018-899	14-Nov-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142374	R-42	11/14/2017 10:10	77140.7	11/13/2017	0.67	0.00	52.59	0.40	0.00	0.7711	0.00		349.08
2018-910	15-Nov-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142375	R-42	11/15/2017 10:35	77170.7	11/13/2017	0.37	0.00	51.37	0.57	8.72	1.5785	0.00		307.15
2018-939	16-Nov-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142376	R-42	11/16/2017 9:40	77200.7	11/16/2017	1.10	0.00	51.54	0.54	0.00	2.5865	0.00		299.64
2018-954	17-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142377	R-42	11/17/2017 10:40	77230.7	11/20/2017	0.62	0.00	52.18	0.58	0.00	1.4696	0.00		348.54
2018-1058	21-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142378	R-42	11/20/2017 11:40	77260.7	11/21/2017	0.47	0.00	52.15	0.69	0.00	1.2945	0.00		310.77
2018-1070	21-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142379	R-42	11/21/2017 10:45	77290.7	11/21/2017	0.46	0.00	51.52	0.91	0.00	1.3417	0.00		323.26
2018-1028	22-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142380	R-42	11/22/2017 9:55	77320.7	11/21/2017	0.71	0.00	52.87	0.47	0.00	1.3807	0.00		335.00
2018-1043	27-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142381	R-42	11/27/2017 13:30	77350.7	11/27/2017	0.36	0.00	51.07	0.64	0.00	1.1034	0.00		220.04
2018-1066	28-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142382	R-42	11/28/2017 10:35	77380.7	11/28/2017	0.72	0.00	55.78	0.61	0.00	2.3157	0.00		315.78
2018-1134	30-Nov-17	16-Jan-18	16-Jan-18	11	TRR-42-17-142396	R-42	11/30/2017 10:40	77410.7	11/30/2017	0.58	0.00	55.33	0.63	0.00	1.6882	0.00		292.31
2018-1155	04-Dec-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142397	R-42	12/4/2017 14:15	77440.7	12/4/2017	0.41	0.00	51.75	0.40	0.00	2.7027	0.00		276.30
2018-1215	11-Dec-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142398	R-42	12/8/2017 14:10	77470.7	12/11/2017	0.35	0.00	52.63	0.40	0.00	4.2331	0.00		282.44
2018-1236	11-Dec-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142399	R-42	12/11/2017 13:40	77500.7	12/11/2017	0.35	0.00	52.14	0.43	0.00	3.7825	0.00		282.07
2018-1285	15-Dec-17	29-Jan-18	29-Jan-18	11	TRR-42-17-142400	R-42	12/14/2017 14:00	77530.7	12/14/2017	0.45	0.00	57.68	0.55	0.00	6.3616	0.00		353.19
2018-1303	18-Dec-17	24-Jan-18	24-Jan-18	11	TRR-42-17-142401	R-42	12/18/2017 14:40	77560.7	12/18/2017	0.95	0.00	53.07	0.50	0.00	4.6822	0.00		264.80
2018-1355	21-Dec-17	29-Jan-18	29-Jan-18	11	TRR-42-18-149198	R-42	12/21/2017 13:50	77590.7	12/21/2017	0.33	0.00	53.30	0.49	0.00	4.9771	0.00		256.61
2018-1390	05-Jan-18	29-Jan-18	29-Jan-18	11	TRR-42-18-149199	R-42	1/5/2018 12:00	77620.7	1/8/2018	0.65	0.00	53.54	0.50	0.00	4.6557	0.00		290.66
2018-1398	08-Jan-18			11	TRR-42-18-149200	R-42	1/8/2018 14:00	77650.7	1/8/2018	0.84	0.00	53.18	0.44	0.00	3.0806	0.00		298.04
2018-1435	11-Jan-18			11	TRR-42-18-149201	R-42	1/11/2018 13:10	77680.7	1/16/2018	0.99	0.00	51.97	0.54	0.00	2.5275	0.00		311.84
2018-1475	17-Jan-18	24-Jan-18	24-Jan-18	16	TRR-42-18-150952	R-42	1/16/2018 15:45	77710.7	1/18/2018	0.50	0.00	9.15	0.56	0.00	1.6702	0.00		37.41
2018-1475	17-Jan-18	24-Jan-18	24-Jan-18	16	TRR-42-18-150953	R-42	1/16/2018 16:10	77740.7	1/18/2018	0.50	0.00	14.27	0.58	0.00	1.5555	0.00		74.35
2018-1475	17-Jan-18	24-Jan-18	24-Jan-18	16	TRR-42-18-150954	R-42	1/16/2018 16:40	77770.7	1/18/2018	0.76	0.00	15.99	0.56	0.00	1.3363	0.00		84.45
2018-1481	17-Jan-18	24-Jan-18	24-Jan-18	16	TRR-42-18-150955	R-42	1/17/2018 9:15	77800.7	1/18/2018	1.76	0.00	36.55	0.70	0.00	3.9231	0.00		300.83
2018-1481	17-Jan-18	24-Jan-18	24-Jan-18	16	TRR-42-18-150956	R-42	1/17/2018 10:15	77830.7	1/18/2018	1.70	0.00	37.35	0.61	0.00	3.0148	0.00		308.88
2018-1481	17-Jan																	

FRACK TANK SAMPLES							
2017-2740	08-Sep-17	25-Oct-17	25-Oct-17	8	TRR-42-17-144504	R-42 1st Frac Tank	9/8/2017 16:30
2017-2740	11-Sep-17	25-Oct-17	25-Oct-17	11	TRR-42-17-144508	R-42 2nd Frac Tank	9/10/2017 13:30
2017-2745	11-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144510	R-42 Frac Tank 1	9/11/2017 11:50
2017-2745	11-Sep-17	26-Oct-17	26-Oct-17	11	TRR-42-17-144511	R-42 Frac Tank 2	9/11/2017 11:50
2017-2885	22-Sep-17	12-Oct-17	12-Oct-17	11	TRR-42-17-144535	R-42 Frack Tank #3	9/22/2017 9:45
2018-220	05-Oct-17	31-Oct-17	31-Oct-17	11	TRR-42-17-142357	R-42 (Top Frack Tank)	10/5/2017 10:00
2018-220	05-Oct-17	31-Oct-17	31-Oct-17	11	TRR-42-17-142358	R-42 (Bottom Frack Tank)	10/5/2017 10:00

9/12/2017	52.10	0.00	47.11	0.09	0.00	26.6931	0.00		2237.14
9/12/2017	13.63	0.00	51.56	0.06	0.00	30.9757	0.00		1096.06
9/12/2017	47.70	0.00	53.31	0.00	0.00	24.7777	0.00		3451.52
9/12/2017	8.52	0.00	53.61	0.02	0.00	14.6776	0.00		1240.87
9/20/2017	2.56	0.00	47.32	0.32	0.00	21.5900	0.00		368.82
10/4/2017	1.31	0.00	46.76	0.58	0.00	0.4521	0.44		335.21
10/4/2017	1.41	0.00	46.76	0.65	0.00	0.4828	0.00		348.83

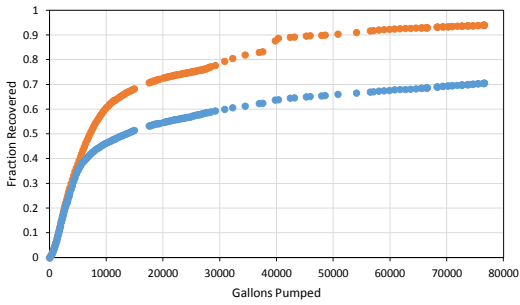
stdev (Cs)	Cu(ppm)	stdev (Cu)	Li ICPMS (ppm)	stdev (Li)	Mn ICPMS (ppm)	stdev (Mn)	Ni(ppm)	stdev (Ni)	Pb(ppm)	stdev (Pb)	Rb(ppm)	stdev (Rb)	Se(ppm)	stdev (Se)	Sr ICPMS (ppm)	stdev (Sr)	Tl(ppm)	stdev (Tl)	U(ppm)	stdev (U)	V(ppm)	stdev (V)	Zn ICPMS (ppm)	stdev (Zn)
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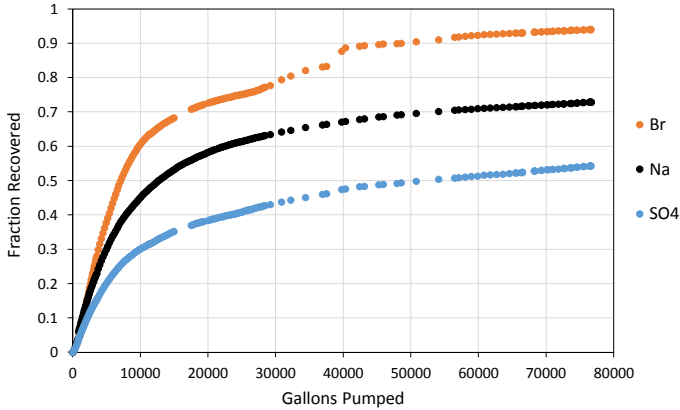


	R-42 Br	R-42 Br	R-42 SO4	R-42 SO4a	Br Rec	SO4 Rec	SO4 Reca	SO4	Cl	NO3	Br	Sum	SO4(2)	Sum (2)
	0	0	0	0	0	0	0	54.11	0.438633	0.072118	0.357283	54.97	54.10616	54.97
186	26.14974	26.00893	3791.349	3791.349	0.006699	0.006682	0.006682	113.86	1.176051	0.175522	0.464881	115.68	113.8617	115.68
372	58.54547	58.26387	7103.673	7103.673	0.015007	0.012521	0.012521	99.69	0.573499	0.073672	0.57592	100.91	99.68624	100.91
558	98.15174	97.72933	12401.37	12401.37	0.025172	0.021858	0.021858	158.44	0.687881	0.120232	0.704106	159.95	158.438	159.95
744	137.9147	137.3515	17992.35	17992.35	0.035378	0.031712	0.031712	167.12	0.735831	0.107606	0.706893	168.67	167.1173	168.67
860.4	165.4276	164.7763	21992.45	21992.45	0.042442	0.038763	0.038763	190.82	0.855813	0.203621	0.781576	192.66	190.8184	192.66
976.8	199.2271	195.3444	27398.66	25298.59	0.050315	0.048291	0.04459	257.31	1.071978	0.244817	0.96016	259.59	158.0036	160.28
1093.2	236.6527	230.8688	33184.97	28579.24	0.059465	0.05849	0.050372	275.28	1.139423	0.298243	1.06317	277.78	156.7978	159.30
1209.6	275.9221	269.1282	37878.03	31920.67	0.06932	0.066762	0.056262	223.59	1.146723	0.323836	1.11555	226.17	159.6723	162.26
1326	316.4933	308.9604	44567.61	35205.61	0.07958	0.078553	0.062052	318.00	1.232557	0.265086	1.152529	320.65	157.0009	159.65
1442.4	358.5928	350.2076	50604.19	38531.11	0.090204	0.089192	0.067913	287.12	1.211362	0.290667	1.195947	289.82	158.9192	161.62
1558.8	401.959	392.8524	56378.59	41832.99	0.101188	0.09937	0.073733	274.72	1.344556	0.313478	1.231927	277.61	157.8021	160.69
1675.2	442.1793	434.5574	61782.68	45050.67	0.11193	0.108895	0.079404	257.21	1.311605	0.287643	1.142561	259.95	153.8201	156.56
1791.6	486.1758	476.5777	67350.19	48239.77	0.122753	0.118708	0.085025	264.94	1.292297	0.333698	1.249835	267.81	152.4693	155.35
1908	533.0705	521.9353	73574.71	51269.32	0.134436	0.129679	0.090365	296.00	1.37253	0.352271	1.332167	299.06	144.9243	147.98
2024.4	568.4186	562.9686	81145.92	54359.35	0.145005	0.143024	0.095811	359.68	1.22142	0.251818	1.004153	362.16	147.784	150.26
2140.8	612.9547	602.8225	85967.29	57314.29	0.155271	0.151522	0.101019	229.65	1.301089	0.392441	1.265165	232.61	141.3964	144.36
2257.2	655.1804	646.1153	90965.21	60159.04	0.166422	0.160331	0.106033	238.00	1.399258	0.361434	1.199529	240.96	136.1858	139.15
2373.6	700.4458	689.7727	95762.53	62922.67	0.177667	0.168786	0.110904	228.52	1.416881	0.331205	1.28588	231.55	132.3499	135.38
2490	740.3901	732.2895	101837.7	65690.3	0.188618	0.179494	0.115782	288.94	1.306843	0.357365	1.134722	291.74	132.5391	135.34
2606.4	786.7403	775.3486	108759.5	68274.9	0.199709	0.191694	0.120338	328.97	1.397668	0.3723	1.316698	332.06	123.8842	126.97
2722.8	826.6235	818.3772	113891.1	70886.18	0.210792	0.200739	0.12494	244.33	1.432732	0.304693	1.132983	247.20	125.1456	128.02
2839.2	869.2474	859.5426	118351	73324.06	0.221395	0.208599	0.129237	212.56	1.423835	0.33951	1.210843	215.54	116.9463	119.92
2955.6	903.7135	897.9995	123687.4	75838.86	0.2313	0.218005	0.13367	254.01	1.171883	0.362789	0.9791	256.52	120.5834	123.10
3072	946.6212	936.5983	127241.3	78142.61	0.241242	0.224269	0.13773	169.71	1.58355	0.388003	1.218903	172.91	110.6038	113.79
3188.4	985.937	977.6219	133574.5	80519.81	0.251809	0.235432	0.14192	301.15	1.356211	0.372404	1.116868	303.99	114.0767	116.92
3304.8	1027.847	1018.147	138325.2	82801.3	0.262247	0.243805	0.145941	226.31	1.452291	0.379964	1.19056	229.33	109.551	112.57
3421.2	1066.677	1058.428	141319.3	84899.58	0.272622	0.249082	0.14964	143.25	1.318076	0.346955	1.103057	146.02	100.8877	103.66
3537.6	1098.951	1093.892	148181.9	87053.15	0.281757	0.261178	0.153435	326.18	1.104326	0.295111	0.916827	328.49	103.5019	105.82
3770.4	975.398	1162.327	156685.8	91360.28	0.299384	0.276166	0.161027	202.73	1.414516	0.36116	1.032245	205.53	103.5019	106.31
4003.2	946.6258	1226.527	165268.3	96230.5	0.31592	0.291294	0.169611	204.59	1.219603	0.284225	0.796521	206.89	116.8152	119.12
4236	771.7859	1287.336	174522.8	100863.3	0.331582	0.307605	0.177777	220.47	1.326433	0.334505	0.93592	223.07	111.2014	113.80
4468.8	649.9358	1349.238	182824.1	105226.3	0.347527	0.322237	0.185467	197.94	1.24886	0.309492	0.827575	200.32	104.8238	107.21
4701.6	508.3178	1407.231	191285.6	109589.4	0.362464	0.33715	0.193157	201.73	1.217653	0.299533	0.824881	204.07	104.8238	107.17
4934.4	1450.646	1465.4	198845.1	113579.1	0.377447	0.350474	0.200189	180.40	1.320719	0.341013	0.832569	182.89	95.99717	98.49
5167.2	1501.947	1520.182	204928	117535.1	0.391557	0.361196	0.207161	145.49	1.205347	0.310343	0.728659	147.73	95.20114	97.45
5400	1560.879	1575.122	209793.4	121228.1	0.405708	0.369771	0.213671	116.70	1.400963	0.371102	0.837068	119.31	88.98137	91.59
5632.8	1617.733	1632.839	214961.6	124837.7	0.420575	0.37888	0.220033	123.86	1.407881	0.382107	0.807539	126.46	87.01023	89.61
5865.6	1669.257	1686.852	219159.7	128337.9	0.434487	0.38628	0.226202	100.92	1.417457	0.368032	0.731832	103.44	84.42175	86.94
6098.4	1722.902	1739.26	222143.6	131401	0.447986	0.391539	0.231601	72.22	1.442907	0.374217	0.761964	74.80	74.0893	76.67
6331.2	1774.811	1791.861	225045.8	134587.7	0.461534	0.396654	0.237217	70.28	1.338841	0.369801	0.737306	72.73	77.01123	79.46
6564	1563.484	1842.143	228860.5	137789.3	0.474486	0.403378	0.24286	91.86	1.343381	0.371156	0.696088	94.27	77.36347	79.77
6796.8	1496.601	1889.386	232537.5	140810	0.486654	0.409859	0.248185	88.60	1.359816	0.376671	0.650977	90.99	73.08616	75.47
7029.6	1290.844	1933.752	235892.9	143696.7	0.498082	0.415773	0.253273	81.00	1.35676	0.373952	0.614383	83.34	80.99911	83.34
7262.4	1147.139	1975.92	238542.8	146428.4	0.508943	0.420443	0.258087	64.32	1.344254	0.376967	0.588515	66.63	64.32015	66.63
7495.2	984.6019	2016.306	241226.5	149003.8	0.519345	0.425174	0.262627	65.12	1.335008	0.375222	0.563753	67.39	65.1175	67.39
7728	1024.277	2055.813	243663.8	151505.1	0.529521	0.429469	0.267035	59.29	1.357903	0.381725	0.563537	61.60	59.29278	61.60
7960.8	1061.587	2094.129	246079.5	153862.2	0.53939	0.433727	0.27119	58.78	1.363665	0.382209	0.529941	61.06	58.78321	61.06
8193.6	1096.562	2130.095	248474.6	156152.3	0.548654	0.437949	0.275226	58.29	1.355187	0.383589	0.496784	60.53	58.29391	60.53
8426.4	1129.818	2164.035	250665.1	158356.1	0.557396	0.44181	0.27911	53.46	1.343114	0.364486	0.472359	55.64	53.45754	55.64
8659.2	1162.811	2196.983	252744.8	160435.9	0.565883	0.445475	0.282776	50.84	1.342048	0.369312	0.46863	53.02	50.83942	53.02
8892	1193.173	2228.484	254836.3	162527.3	0.573996	0.449162	0.286462	51.12	1.362457	0.347531	0.431245	53.26	51.11585	53.26
9124.8	1221.249	2257.527	256853.4	164544.4	0.581477	0.452717	0.290018	49.36	1.337315	0.349577	0.398791	51.44	49.35774	51.44
9357.6	1248.555	2285.041	258603.3	166294.3	0.588564	0.455801	0.293102	43.04	1.358846	0.355052	0.387847	45.14	43.04085	45.14
9590.4	1274.681	2311.581	260290.2	167981.2	0.5954	0.458774	0.296075	41.55	1.367782	0.355063	0.371091	43.64	41.55062	43.64
9823.2	1299.14	2336.698	261979.9	169670.9	0.601869	0.461752	0.299053	40.16	1.360541	0.356611	0.347411	43.68	41.6154	43.68
10056	1322.928	2360.645	263607.1	171298.1	0.608038	0.46462	0.301921	40.14	1.367816	0.363303	0.337875	42.21	40.1396	42.21
10288.8	1345.034	2383.415	265047.5	172738.5	0.613903	0.467159	0.30446	35.72	1.281754	0.342918	0.313991	37.66	35.72305	37.66
10521.6	1365.145	2404.348	266478	174169	0.619294	0.469681	0.306981	35.49	1.260477	0.329161	0.285655	37.36	35.48832	37.36
10754.4	1384.434	2423.872	267937.1	175628.1	0.624323	0.472252	0.309553	36.17	1.308	0.334112	0.273977	38.08	36.1654	38.08
10987.2	1402.906	2442.576	269342.8	177033.8	0.629141	0.47473	0.312031	34.90	1.283066	0.331917	0.262371	36.78	34.90092	36.78
11210	1420.388													

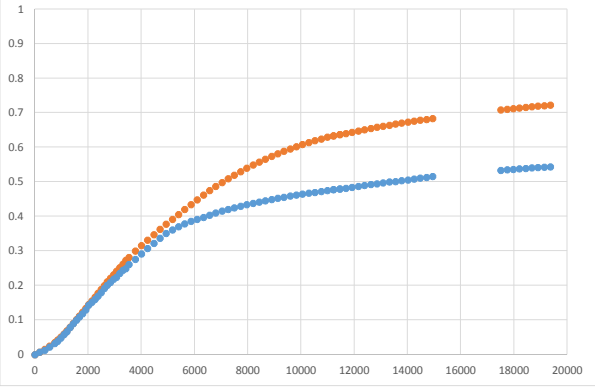
R-42 Br and SO4 Recoveries (w/o Charge Balance)



Br, Na,SO4 Recoveries (w/ Charge Balance)



Early Br and SO4 Recovery



13315.2	1549.009	2578.953	283403.9	191094.9	0.664268	0.499513	0.336814
13548	1561.094	2590.982	284398.1	192089.1	0.667366	0.501266	0.338567
13780.8	1572.31	2602.456	285626.8	193317.9	0.670321	0.503431	0.340732
14013.6	1583.012	2613.238	286893.9	194584.9	0.673099	0.505665	0.342966
14246.4	1593.258	2623.536	288259.5	195950.5	0.675751	0.508072	0.345372
14479.2	1602.671	2633.19	289884.2	197575.3	0.678238	0.510935	0.348236
14712	1612.805	2642.787	291127.1	198818.1	0.68071	0.513126	0.350427
14944.8	1622.733	2652.642	292352.9	200043.9	0.683248	0.515286	0.352587
17505.6	1709.302	2748.596	302422	210113	0.707963	0.533034	0.370335
17738.4	1717.512	2756.459	303354.6	211045.6	0.709988	0.534677	0.371978
17971.2	1725.001	2764.132	304266.4	211957.4	0.711965	0.536285	0.373585
18204	1732.702	2771.551	305154.6	212845.6	0.713876	0.53785	0.375151
18436.8	1739.201	2778.475	305920.3	213611.3	0.715659	0.5392	0.3765
18669.6	1746.013	2784.954	306652.5	214343.5	0.717328	0.54049	0.377791
18902.4	1752.519	2791.437	307301.8	214992.8	0.718998	0.541635	0.378935
19135.2	1759.384	2797.946	307891.6	215582.6	0.720674	0.542674	0.379975
19368	1765.729	2804.375	308474.7	216165.8	0.72233	0.543702	0.381003
20066.4	1782.617	2821.807	310648.6	218339.7	0.72682	0.547534	0.384834
20299.2	1788.042	2827.158	311391.8	219082.8	0.728199	0.548843	0.386144
20532	1793.45	2832.399	312056.5	219747.5	0.729548	0.550015	0.387316
20764.8	1798.826	2837.615	312733.2	220424.2	0.730892	0.551208	0.388508
20997.6	1803.99	2842.708	313421.8	221112.8	0.732204	0.552421	0.389722
21230.4	1809.058	2847.648	314093.8	221784.8	0.733476	0.553606	0.390907
21463.2	1813.977	2852.465	314743.9	222434.9	0.734717	0.554752	0.392053
21696	1818.877	2857.198	315428.6	223119.6	0.735936	0.555958	0.393259
21928.8	1823.754	2861.911	316089.2	223780.2	0.73715	0.557123	0.394424
22161.6	1828.615	2866.603	316766.5	224457.5	0.738359	0.558317	0.395617
22394.4	1833.308	2871.204	317403.5	225094.5	0.739544	0.559439	0.39674
22627.2	1837.874	2875.657	318040.9	225731.9	0.740691	0.560563	0.397864
22860	1842.597	2880.126	318694.9	226385.9	0.741842	0.561715	0.399016
23092.8	1847.096	2884.561	319250.3	226941.3	0.742984	0.562694	0.399995
23325.6	1851.527	2888.85	319858.8	227549.8	0.744089	0.563767	0.401068
23558.4	1855.856	2893.054	320396	228087.1	0.745171	0.564714	0.402015
23791.2	1860.081	2897.154	320974.2	228665.3	0.746228	0.565733	0.403034
24024	1864.351	2901.225	321516.5	229207.6	0.747276	0.566689	0.40399
24256.8	1868.567	2905.292	322054	229745	0.748324	0.567636	0.404937
24489.6	1872.717	2909.299	322602.8	230293.9	0.749356	0.568603	0.405904
24722.4	1876.767	2913.222	323172.6	230863.6	0.750366	0.569608	0.406909
24955.2	1880.885	2917.13	323726.8	231417.8	0.751373	0.570584	0.407885
25188	1897.701	2920.99	325217.5	232908.5	0.752367	0.573212	0.410513
25420.8	1894.625	2924.795	326179.4	233870.4	0.753347	0.574907	0.412208
25653.6	1899.886	2929.254	326823.9	234514.9	0.754496	0.576043	0.413344
25886.4	1904.124	2933.827	327668.8	235359.8	0.755674	0.577532	0.414833
26119.2	1908.257	2937.836	328398.7	236089.7	0.756706	0.578819	0.41612
26352	1917.47	2942.775	328037	235728	0.757978	0.578181	0.415482
26584.8	1914.671	2947.062	328947.4	236638.4	0.759082	0.579786	0.417087
26817.6	1917.382	2949.821	330234.4	237925.4	0.759793	0.582054	0.419355
27050.4	1926.467	2955.708	330990.2	238681.2	0.761309	0.583387	0.420687
27283.2	1931.2	2962.441	331624.2	239315.3	0.763044	0.584504	0.421805
27516	1934.59	2966.326	332337.7	240028.7	0.764044	0.585762	0.423062
27748.8	1949.223	2975.161	333021.4	240712.4	0.76632	0.586967	0.424267
27981.6	1956.007	2985.693	333648.5	241339.5	0.769033	0.588072	0.425373
28214.4	1964.116	2992.964	334248.9	241939.9	0.770906	0.58913	0.426431
28447.2	1967.077	2998.322	334913.3	242604.3	0.772286	0.590301	0.427602
29184.4	1999.208	3018.519	336816	244507	0.777488	0.593655	0.430956
30862.5	2060.117	3084.272	340836.8	248527.8	0.794424	0.600742	0.438042
32220.5	2100.928	3128.295	344113	251804	0.805763	0.606516	0.443817
34432.1	2155.897	3187.338	348109.3	255800.3	0.820971	0.61356	0.450861
36926.94	2176.523	3226.766	353776.1	261467.1	0.831127	0.623548	0.460849
37526.4	2190.815	3235.937	354732.5	262423.5	0.833489	0.625234	0.462534
39738	2482.548	3406.494	361589.2	269280.2	0.87742	0.637319	0.47462
40320	2516.067	3445.361	362358	270049	0.887431	0.638674	0.475975
42405.5	2522.668	3462.766	366048.2	273739.2	0.891914	0.645178	0.482479
43113.6	2527.403	3468.991	366866.7	274557.8	0.893517	0.646621	0.483922
45237.9	2549.425	3482.704	369161.8	276852.8	0.897049	0.650666	0.487967
45897.5	2552.74	3487.281	369894	277585	0.898228	0.651956	0.489257
47944.2	2557.303	3493.156	371592.7	279283.7	0.899742	0.65495	0.492251
48545.6	2564.076	3496.758	372370.1	280061.1	0.900669	0.656321	0.493622
50776.6	2574.55	3512.869	375015.2	282706.2	0.904819	0.660983	0.498284
54074.6	2612.46	3537.069	378246.5	285937.5	0.911052	0.666678	0.503979
56470.5	2642	3563.796	380572.3	288263.3	0.917936	0.670777	0.508078
57081.6	2644.993	3568.597	381225.3	288916.3	0.919173	0.671928	0.509229
58012.8	2654.983	3575.168	382263.6	289954.7	0.920865	0.673759	0.511059
58944	2660.387	3582.16	383280.3	290971.3	0.922666	0.67555	0.512851
59875.2	2667.801	3586.899	383902.8	291593.8	0.923887	0.676648	0.513948
60806.4	2674.452	3592.452	385094.7	292785.7	0.925317	0.678748	0.516049
61737.6	2678.77	3597.422	385897.5	293588.5	0.926598	0.680163	0.517464
62668.8	2679.757	3600.869	386343.7	294034.7	0.927485	0.68095	0.518251
63600	2684.424	3604.49	387110.8	294801.8	0.928418	0.682302	0.519603
64531.2	2686.933	3607.373	387955.8	295646.8	0.929161	0.683791	0.521092
65462.4	2692.682	3609.846	388748	296439	0.929797	0.685188	0.522488
65578.8	2693.143	3610.229	388861.7	296552.7	0.929896	0.685388	0.522689
66277.2	2696.047	3612.908	389751	297442	0.930586	0.686955	0.524256
66393.6	2695.956	3613.324	389756.8	297447.9	0.930693	0.686966	0.524267
66510	2696.739	3613.829	389876.8	297567.8	0.930823	0.687177	0.524478
66510	2696.739	3613.829	389876.8	297567.8	0.930823	0.687177	0.524478
68256	2703.166	3620.924	392157.4	299848.4	0.932651	0.691197	0.528498
68256	2703.166	3620.924	392157.4	299848.4	0.932651	0.691197	0.528498
68372.4	2703.817	3621.386	392265.6	299956.6	0.93277	0.691387	0.528688
69303.6	2707.393	3625.075	393291.8	300982.8	0.93372	0.693196	0.530497
69303.6	2707.393	3625.075	393291.8	300982.8	0.93372	0.693196	0.530497
70118.4	2710.411	3628.558	394146.1	301837.1	0.934617	0.694702	0.532003
70234.8	2710.94	3628.949	394248	301939	0.934718	0.694882	0.532182
70875	2713.369	3631.133	394777.2	302468.2	0.93528	0.695814	0.533115

33.17	1.296424	0.346631	0.175059	34.99	33.16906	34.99
25.17	1.326638	0.351131	0.171645	27.02	25.17373	27.02
30.72	1.287371	0.337926	0.159308	32.50	30.71885	32.50
31.62	1.286721	0.338024	0.152009	33.40	31.6247	33.40
33.95	1.280958	0.331359	0.145538	35.71	33.95353	35.71
40.08	1.223493	0.316609	0.133696	41.75	40.081	41.75
31.05	1.332028	0.346015	0.143942	32.87	31.05147	32.87
30.65	1.323814	0.353445	0.141025	32.47	30.64936	32.47
23.31	1.420108	0.383184	0.111782	25.22	23.30916	25.22
23.72	1.578537	0.405683	0.116605	25.82	23.71689	25.82
23.23	1.447315	0.377751	0.106377	25.16	23.22525	25.16
22.67	1.494188	0.378193	0.10938	24.65	22.66642	24.65
19.77	1.324542	0.339541	0.09232	21.53	19.77013	21.53
18.98	1.43511	0.372972	0.096749	20.88	18.97905	20.88
17.02	1.521591	0.368275	0.092406	19.00	17.01672	19.00
15.61	1.387448	0.362324	0.097518	17.46	15.61146	17.46
15.46	1.467697	0.361179	0.090118	17.37	15.45506	17.37
18.80	1.270642	0.329994	0.079958	20.48	18.79947	20.48
19.24	1.390369	0.33973	0.077057	21.04	19.23647	21.04
17.38	1.372444	0.33149	0.076821	19.16	17.3842	19.16
17.66	1.341976	0.32581	0.076319	19.41	17.66459	19.41
17.95	1.374375	0.329734	0.073344	19.72	17.94719	19.72
17.56	1.421032	0.329776	0.07199	19.38	17.55623	19.38
17.04	1.423417	0.329762	0.069862	18.86	17.03783	18.86
17.85	1.442786	0.325942	0.069592	19.69	17.85438	19.69
17.29	1.358173	0.324839	0.069278	19.04	17.2851	19.04
16.78	1.442571	0.342927	0.069038	19.54	17.68106	19.54
16.63	1.450057	0.330557	0.066669	18.57	16.72738	18.57
16.74	1.335338	0.319755	0.064844	18.46	16.73755	18.46
16.13	1.390376	0.341432	0.067091	18.93	17.12833	18.93
14.80	1.321336	0.344036	0.063909	16.53	14.7983	16.53
14.05	1.323043	0.340791	0.062937	17.78	16.0536	17.78
16.37	1.306675	0.339544	0.061487	16.08	14.36948	16.08
15.34	1.390182	0.338109	0.060001	17.13	15.33731	17.13
15.49	1.275448	0.333327	0.060656	16.16	14.48836	16.16
14.37	1.295139	0.341112	0.059885	16.07	14.37315	16.07
14.64	1.300635	0.336493	0.058936	16.34	14.64421	16.34
15.14	1.337423	0.343766	0.05753	16.88	15.13812	16.88
14.77	1.355167	0.345312	0.058487	16.53	14.76786	16.53
15.00	1.335963	0.339257	0.05616	16.73	14.99913	16.73
16.76	1.345323	0.342511	0.056946	16.50	14.95757	16.50
14.91	1.535327	0.398958	0.074721	16.83	16.70572	16.83
21.64	1.462727	0.346995	0.0602	20.51	21.64366	20.51
18.92	1.35979	0.357147	0.058697	23.75	18.92932	23.75
18.65	1.494777	0.446802	0.086609	20.68	18.65137	20.68
16.36	1.426903	0.343301	0.040174	18.17	16.36442	18.17
16.13	1.475238	0.488515	0.043205	18.14	16.13364	18.14
16.46	1.342889	0.348783	0.129039	21.52	19.53787	21.52
19.56	1.432771	0.478743	0.067232	18.64	19.65727	18.64
18.54	1.437521	0.328375	0.048148	20.35	18.53547	20.35
17.83	1.423413	0.356987	0.070843	19.83	17.83092	19.83
16.49	1.400309	0.601285	0.096363	18.59	16.49401	18.59
15.86	1.406902	0.368545	0.115172	17.25	15.86283	17.25
17.37	1.31132	0.407799	0.042064	19.25	17.37369	19.25
15.87	1.395446	0.379029	0.144118	17.79	15.87287	17.79
14.85	1.470582	0.427402	0.120019	16.87	14.85493	16.87
15.95	1.443341	0.465818	0.099374	16.95	14.94567	16.95
14.61	1.390937	0.510247	0.082186	13.60	11.61255	13.60
14.17	1.491723	0.430906	0.027337	16.12	14.16898	16.12
10.45	1.414186	0.49407	0.078838	12.44	10.44856	12.44
10.73	1.256348	0.384287	0.436181	20.81	18.73128	20.81
11.41	1.397828	0.424569	0.049472	12.68	11.40609	12.68
10.87	1.418105	0.342676	0.094732	13.26	10.86751	13.26
10.55	1.468826	0.327909	0.013418	12.35	10.55023	12.35
7.61	1.385245	0.39351	0.034279	9.43	7.763218	9.43
7.78	1.369029	0.39042	0.016618	9.55	7.776999	9.55
6.23	1.287301	0.344337	0.007372	7.86	6.234927	7.86
8.78	1.292885	0.443119	0.037239	10.57	8.781992	10.57
9.19	1.366041	0.409348	0.155525	9.98	9.192406	9.98
7.06	1.321977	0.389193	0.038009	8.81	7.059635	8.81
7.01	1.347182	0.359567	0.040769	7.76	7.00967	7.76
7.55	1.350876	0.362705	0.016194	9.28	7.540497	9.28
7.80	1.328206	0.367898	0.035475	9.54	7.808697	9.54
7.68	1.350829	0.349415	0.019188	9.40	7.676014	9.40
7.56	1.336363	0.377885	0.019474	9.30	7.561801	9.30
7.03	1.38437	0.374856	0.024973	8.81	7.028837	8.81
6.41	1.358459	0.360306	0.015331	8.15	6.411865	8.15
6.48	1.326525	0.389607	0.014151	8.21	6.476043	8.21
6.20	1.316295	0.35441	0.016573	7.89	6.200711	7.89
6.66	1.280758	0.35762	0.008909	8.31	6.661184	8.31
8.44	1.479759	0.402745	0.13656	10.34	8.442466	10.34
7.05	1.383013	0.359024	0.013114	8.80	7.055303	8.80
7.33	1.371929	0.367502	0.017259	9.08	7.326115	9.08
7.71	1.358842	0.382302	0.011413	9.47	7.713345	9.47
7.34	1.390264	0.350266	0.022256	9.10	7.339751	9.10
7.17	1.337777	0.375408	0.019711	9.00	7.169171	9.00
8.86	1.381077	0.462445	0.012171	10.71	8.855982	10.71
6.45	1.41198	0.375553	0.012738	8.25	6.449488	8.25
6.78	1.387903	0.352165	0.018508	8.54	6.784727	8.54
7.73	1.403027	0.384817	0.012698	9.53	7.732152	9.53
7.00	1.449402	0.340383	0.021024	8.81	7.002913	8.81
7.44	1.324029	0.356338	0.012248	9.13	7.4379	9.13
6.48	1.299518	0.337729	0.015012	7.14	6.484784	7.14
6.22	1.279796	0.357706	0.012549	7.88	6.216282	7.88

70991.4	2714.246	3631.704	395020.2	302711.2	0.935428	0.696243	0.533543	13.16	2.002623	0.393811	0.024908	15.58	13.15778	15.58
71806.2	2717.404	3635.735	395515.7	303206.7	0.936466	0.697116	0.534417	5.01	1.328028	0.305347	0.012815	6.66	5.013925	6.66
72621	2720.15	3638.07	396227.3	303918.3	0.937067	0.69837	0.535671	6.47	1.286213	0.323117	0.011143	8.09	6.473763	8.09
72621	2720.15	3638.07	396227.3	303918.3	0.937067	0.69837	0.535671	7.49	1.37291	0.305075	0.014862	9.18	7.490647	9.18
72737.4	2720.88	3638.608	396341.9	304032.9	0.937206	0.698572	0.535873	7.09	1.286076	0.261194	0.020745	8.65	7.086518	8.65
73552.2	2724.426	3642.321	397394.5	305085.5	0.938162	0.700427	0.537728	8.78	1.347828	0.297269	0.014392	10.44	8.777098	10.44
73668.6	2724.93	3642.738	397502.9	305194	0.93827	0.700619	0.537919	6.80	1.306455	0.119203	0.014299	8.24	6.795957	8.24
73785	2725.19	3643.031	397598	305289	0.938345	0.700786	0.538087	6.16	1.403092	0.144805	0.007389	7.72	6.162099	7.72
74512.5	2727.742	3644.569	398267.7	305958.7	0.938741	0.701966	0.539267	6.73	1.334171	0.310419	0.011601	8.39	6.733366	8.39
74628.9	2728.241	3644.935	398358.4	306049.4	0.938836	0.702126	0.539427	5.96	1.432764	0.207033	0.014182	7.61	5.955015	7.61
75463.1	2731.997	3647.97	399294.5	306985.5	0.939617	0.703776	0.541077	7.84	1.437214	0.279537	0.014885	9.57	7.843176	9.57
75579.5	2732.528	3648.41	399399.7	307090.7	0.93973	0.703962	0.541262	6.64	1.499972	0.272566	0.015088	8.43	6.641588	8.43
76394.3	2735.75	3651.263	400293.7	307984.7	0.940465	0.705537	0.542838	7.71	1.28841	0.109786	0.013076	9.12	7.706046	9.12
76510.7	2736.229	3651.644	400409.5	308100.5	0.940564	0.705741	0.543042	7.14	1.330116	0.027596	0.013601	8.51	7.140905	8.51
76540.7	2736.356	3651.747	400441.6	308132.6	0.94059	0.705798	0.543099	7.56	1.340964	0.011459	0.014064	8.93	7.561339	8.93
76570.7	2736.498	3651.859	400485.1	308176.2	0.940619	0.705875	0.543176	9.66	1.422888	0.0167	0.015597	11.11	9.657136	11.11
76600.7	2736.622	3651.969	400517.9	308208.9	0.940647	0.705932	0.543233	7.67	1.410391	0.016772	0.013677	9.11	7.668664	9.11

3882.41	3882.41	4172.061	3210.509	
0.704877	0.940645			748.7568
		5910	5910	553.8456
		0.705932	0.543233	
		567360		
		163.6364		
		0.083659	moles Fe/mole Dithionite	
		0.011154		