

Appendix A

Table 1- GPU1 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate Alkalinity as (mg/L)	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium	Carbonate Alkalinity as (mg/L)	Total Chloride (mg/L)	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity as (mg/L)	Dissolved Pb (mg/L)	Total Pb (mg/L)	Dissolved Magnesium	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium	Dissolved Sodium	SO4 (mg/L)	Total Alkalinity as (mg/L)	Total Hardness as (mg/L)	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)	
14/03/2014	11:00	EB1406752014	8.17	172	0.2	0.14	<0.001	<0.001	68	0.08	<0.05	<0.0001	<0.0001	17	<1	8	<0.001	<0.001	<0.001	<0.001	0.009	0.007	<0.1	<1	0.325	<0.001	8	0.038	0.102	0.003	<0.001	<0.001	4	6	7	68	75	<0.001	<0.001	0.036	0.011
18/03/2014	12:49	EB1406752021	8.2	181	1	0.23	<0.001	<0.001	81	0.08	<0.05	<0.0001	<0.0001	18	<1	8	<0.001	<0.001	<0.001	<0.001	0.003	0.005	<0.1	<1	0.002	0.001	9	0.07	0.21	1	<0.001	<0.001	5	7	7	81	82	<0.001	<0.001	0.035	0.008
26/03/2014	12:30	EB1407372001	8.16	221	<0.001	0.009	<0.001	0.001	94	0.27	<0.05	0.0001	<0.0001	21	<1	7	<0.001	<0.001	0.006	<0.001	0.002	0.008	0.1	<1	<0.001	<0.001	10	0.044	0.273	0.003	0.002	4	7	6	94	94	0.009	<0.001	0.022	0.007	
1/04/2014	14:57	EB1408174006	8.28	197	<0.001	0.004	<0.001	<0.001	98	<0.05	<0.05	<0.0001	<0.0001	22	<1	9	<0.001	<0.001	<0.001	<0.001	0.006	0.003	0.1	<1	0.011	0.003		0.006	0.217	<0.001	<0.001	5	7	6	98	96	<0.001	<0.001	0.02	0.018	
16/04/2014	15:10	EB1409659001	8.27	247	<0.001	0.17	0.001	0.001	104	0.07	<0.05	<0.0001	<0.0001	24	<1	10	<0.001	<0.001	<0.001	<0.001	0.002	0.003	0.2	<1	<0.001	0.001	11	0.008	0.279	<0.001	<0.001	5	7	4	104	105	<0.001	<0.001	0.022	0.01	
23/04/2014	14:50	EB1409983000	8.15	245	<0.001	0.009	0.001	0.001	116	<0.05	<0.05	<0.0001	0.0001	24	<1	10	<0.001	<0.001	<0.001	0.002	0.011	0.012	0.1	<1	0.001	0.006	11	0.021	0.205	0.001	0.002	5	7	5	116	105	<0.001	<0.001	0.03	0.025	
12/05/2014	13:51	EB1411707002	8.38	259	0.01	0.23	<0.001	0.001	120	<0.05	<0.05	<0.0001	<0.0001	24	5	11	<0.001	<0.001	<0.001	<0.001	0.004	0.024	0.1	<1	0.001	0.002	12	0.014	0.279	<0.001	<0.001	6	9	4	125	109	<0.001	<0.001	0.041	0.006	
10/06/2014	12:45	EB1414275003	8.03	318	<0.001	0.13	0.001	0.001	102	<0.05	<0.05	<0.0001	0.0002	27	<1	12	<0.001	<0.001	<0.001	<0.001	0.008	0.004	0.2	<1	<0.001	<0.001	12	0.021	0.312	0.001	0.001	6	8	25	102	117	<0.001	<0.001	0.026	0.015	
9/07/2014	13:00	EB1416720001	8.24	308	<0.001	0.004	<0.001	<0.001	132	<0.05	<0.05	<0.0001	<0.0001	28	<1	12	<0.001	<0.001	<0.001	<0.001	0.003	0.004	0.4	<1	<0.001	0.001	13	0.054	0.183	<0.001	0.001	8	10	3	132	123	<0.001	<0.001	0.024	<0.005	
18/08/2014	10:55	EB1441023001	7.9	333	<0.001	0.005	<0.001	<0.001	147	0.08	<0.05	<0.0001	<0.0001	33	<1	14	<0.001	<0.001	<0.001	<0.001	0.002	1	0.2	<1	1	0.005	15	0.033	0.289	<0.001	<0.001	8	10	3	147	144	<0.001	<0.001	0.022	<0.005	
3/09/2014	12:20	EB1441916000	8.2	340	<0.001	0.009	<0.001	0.001	166	<0.05	<0.05	<0.0001	<0.0001	33	<1	15	<0.001	<0.001	<0.001	<0.001	0.002	0.002	0.4	<1	<0.001	<0.001	15	0.016	0.303	0.001	<0.001	10	13	3	166	144	<0.001	<0.001	0.014	0.008	
15/10/2014	12:25	EB1444542049	8.46	390	<0.001	0.16	0.001	0.002	158	0.05	0.06	<0.0001	<0.0001	28	10	25	<0.001	<0.001	<0.001	0.003	0.002	0.009	0.3	<1	<0.001	<0.001	22	0.017	0.337	<0.001	0.002	13	18	6	168	160	<0.001	<0.001	0.007	<0.005	
9/11/2014	12:15	EB1421576013	8.34	423	0.09	0.34	0.002	0.003	177	0.06	0.06	<0.0001	<0.0001	26	5	22	<0.001	<0.001	0.005	0.013	0.094	0.272	0.3	<1	0.002	<0.001	23	0.077	0.357	0.003	0.006	14	21	6	187	160	<0.001		0.027	<0.005	
1/12/2014	11:30	EB1447824006	6.98	65	0.25	3.16	<0.001	0.001	25	0.09	<0.05	<0.0001	<0.0001	42	<1	3	<0.001		<0.001	0.004	0.01	0.074	<0.1	<1	<0.001	0.01	24	0.009	0.125	<0.001	0.006	5	6	18	20	<0.001	<0.001	0.065	0.045		
4/12/2014	16:24	EB1448526002	7.53	96	0.42	2.52	<0.001	<0.001	39	0.08	<0.05	<0.0001	<0.0001	9	<1	4	<0.001	0.003	<0.001	0.003	0.008	0.019	1	<1	1	0.003	3	0.043	0.164	<0.001	0.004	3	5	4	39	35	<0.001	<0.001	0.043	0.012	
5/12/2014	15:00	EB1448526008	7.5	92	0.26	2.37	<0.001	<0.001	39	0.08	<0.05	<0.0001	<0.0001	8	<1	3	<0.001	0.003	<0.001	0.003	0.008	0.042	<0.1	<1	<0.001	0.004	3	0.012	0.149	<0.001	0.004	3	5	<1	39	32	<0.001	<0.001	0.02	0.028	
6/12/2014	13:54	EB1448530002	7.47	106	0.37	5.58	<0.001	<0.001	45	0.36	<0.05	<0.0001	<0.0001	25	<1	3	<0.001	0.007	0.002	0.005	0.026	0.029	<0.1	<1	0.001	0.004	12	0.076	0.278	0.002	0.007	4	9	79	45	112	<0.001	<0.001	0.047	0.016	
7/12/2014	12:42	EB1448530008	7.64	109	0.12	4.45	<0.001	<0.001	47	<0.05	<0.05	<0.0001	0.0002	10	<1	3	<0.001	0.006	<0.001	0.004	0.008	0.023	1	<1	0.005	0.004	4	0.057	0.234	0.001	0.006	4	3	2	47	41	<0.001	<0.001	<0.005	0.016	
9/12/2014	16:05	EB1449028002	7.57	95	0.3	10.7	<0.001	0.001	46	<0.05	<0.05	<0.0001	<0.0001	9	<1	2	<0.001	0.014	<0.001	0.009	0.023	0.047	0.1	<1	<0.001	0.004	3	0.018	0.308	0.001	0.01	3	5	<1	46	35	<0.001	<0.001	0.028	0.03	
11/12/2014	15:52	EB1448532007	7.24	92	0.34	1.89	<0.001	0.001	40	0.12	<0.05	<0.0001	<0.0001	9	<1	3	<0.001	0.002	<0.001	0.002	0.006	0.013	<0.1	<1	<0.001	0.005	4	0.009	0.154	0.001	0.003	3	5	<1	40	39	<0.001	<0.001	0.042	0.008	
20/12/2014	13:29	EB1449158002	7.11	149	0.1	0.98	<0.001	0.001	41	<0.05	<0.05	<0.0001	<0.0001	14	<1	4	<0.001	0.001	<0.001	0.003	0.009	0.01	0.1	<1	<0.001	0.003	6	0.305	0.447	0.001	0.002	4	4	34	41	60	<0.001	<0.001	<0.005	0.007	
25/12/2014	15:00	EB1500007006	7.75	76	0.5	5.85	<0.001	<0.001	30	0.09	<0.05	<0.0001	<0.0001	7	<1	2	<0.001	0.008	<0.001	0.007	0.008	0.032	<0.1	<1	<0.001	0.005	3	0.027	0.235	<0.001	0.01	2	4	<1	30	30	<0.001	<0.001	0.028	0.029	
26/12/2014	15:03	EB1500007017	7.88	94	0.26	4.9	<0.001	<0.001	37	0.08	<0.05	<0.0001	<0.0001	9	<1	3	<0.001	0.006	<0.001	0.004	0.006	0.024	1	<1	1	0.003	3	0.088	0.17	1	0.006	3	5	1	37	35	<0.001	<0.001	0.056	0.02	
31/12/2014	12:13	EB1510624048	7.8	133	0.17	2.19	<0.001	<0.001	57	0.09	<0.05	<0.0001	<0.0001	13	<1	3	<0.001	0.003	<0.001	0.006	0.006	0.022	<0.1	<1	<0.001	0.002	5	0.083	0.224	<0.001	0.004	4	6	4	57	53	<0.001	<0.001	0.049	0.012	
18/02/2015	13:00	EB1504465013	7.88	229	0.02	0.34	<0.001	<0.001	85	<0.05	<0.05	<0.0001	<0.0001	20	<1	8	<0.001	<0.001	<0.001	0.002	0.004	1	<1	<1	<0.001	1	8	0.053	0.333	<0.001	0.001	3	7	4	85	83	<0.001	<0.001	0.03	<0.005	
24/02/2015	11:30	EB1514207009	7.65	197	<0.001	0.12	<0.001	0.001	94	<0.05	<0.05	<0.0001	<0.0001	20	<1	8	<0.001	1	<0.001	1	0.002	0.005	1	<1	1	1	8	0.118	0.255	<0.001	<0.001	4	7	4	94	83	<0.001	<0.001	0.026	<0.005	
28/02/2015	12:50	EB1514208000	7.6	188	<0.001	0.27	<0.001	0.001	89	<0.05	<0.05	<0.0001	<0.0001	17	<1	8	<0.001	1		<0.001	0.002	0.005	<0.1	<1	<0.001	<0.001	8	0.061	0.205	<0.001	<0.001	4	7	4	89	75	<0.001	<0.001	0.027	0.006	
10/03/2015	17:15	EB1414660001	7.83	155.9	0.06	0.25	<0.001	<0.001	56	<0.05	<0.05	<0.0001	<0.0001	12	<1	5	<0.001	<0.001	<0.001	<0.001	0.003	0.003	0.4	<1	<0.001	<0.001	4	0.025	0.162	<0.001	<0.001	4	5	2	56	46	<0.001	<0.001	0.021	<0.005	
15/03/2015	13:30	EB1515041004	7.47	134	0.03	0.22	<0.001	<0.001	61	0.06	<0.05	<0.0001	<0.0001	13	<1	6	<0.001	<0.001	<0.001	<0.001	0.003	0.003	<0.1	<1	<0.001	<0.001	5	0.073	0.238	<0.001	<0.001	4	6	2	61	53	<0.001	<0.001	0.033	<0.005	
19/03/2015	15:58	EB1515399007	8.19	103.7	0.01	0.19	<0.001	0.001	64	0.05																															

6/12/2015	11:0 5	EB153742600 1	8.3 5	436	0.03	0.3 2	0.002	0.002	18 9	0.09	0.1	<0.000 1	<0.000 1	24	<1	29	<0.00 1	<0.00 1	<0.00 1	0.002	0.004	0.006	0.3	<1	<0.00 1	0.001	20	0.07 4	0.36 6	<0.00 1	0.002	20	24	2	18 9	14 2	0.002	0.001	0.006	<0.00 5	
18/12/2015 5	11:3 0	EB153850000 1	6.2 8	82.6	0.38	8.0 2	<0.00 1	0.001	28	0.07	<0.0 5	<0.000 1	<0.000 1	8	<1	3	<0.00 1	0.009	<0.00 1	0.007	0.007	0.04	<0. 1	<1	<0.00 1	0.007	3	0.07 2	0.28 7	0.001	0.007	2	4	3	28	32	<0.00 1	<0.00 1	0.045	0.022	
25/12/2015 5	12:1 7	EB160061200 1	6.6 7	77.1	0.43	1.2 1	<0.00 1	<0.00 1	43	0.06	<0.0 5	<0.000 1	<0.000 1	9	<1	3	<0.00 1	0.001	<0.00 1	0.001	0.004	0.012	<0. 1	<1	<0.00 1	0.002	4	0.10 8	0.16 8	0.002	0.003	2	7	3	43	39	<0.00 1	<0.00 1	0.018	<0.00 5	
3/01/2016 10/01/2016 6	13:1 0 16:2 4	EB160061200 7 EB160112503 0	7.4 7.4 9	65 96.4	0.44 0.3	1 0.6 3	<0.00 1 1	<0.00 1 1	43 52	0.05 0.0 5	<0.0 5 5	<0.000 1 1	<0.000 1 1	7 7	<1	2	<0.00 1 1	<0.00 1 1	<0.00 1 0.003	<0.00 1 1	0.006 0.002	0.014 0.006	<0. 1	<1	<0.00 1 1	0.001 0.001	3 3	0.07 8 1	0.12 1 0.1	0.001 0.001	0.002	2 2	4 3	2 3	43 30	<0.00 1 1	<0.00 1 1	0.01 0.007	<0.00 5 5		
14/01/2016 6	11:5 2	EB160174800 1	6.9 2	116. 3	0.08	0.2 1	<0.00 1	<0.00 1	52	<0.0 5	<0.0 5	<0.000 1	<0.000 1	10	<1	3	<0.00 1	<0.00 1	<0.00 1	<0.00 1	0.003	0.005	<0. 1	<1	<0.00 1	<0.00 1	4	0.02 6	0.13 3	<0.00 1	0.001	2	4	6	52	41	<0.00 1	<0.00 1	0.014	<0.00 5	
20/01/2016 6	13:5 2	EB160174800 6	6.8 2	137	0.08	0.2 1	<0.00 1	<0.00 1	57	<0.0 5	<0.0 5	<0.000 1	<0.000 1	12	<1	3	<0.00 1	<0.00 1	<0.00 1	<0.00 1	0.002	0.002	<0. 1	<1	<0.00 1	<0.00 1	5	0.01 2	0.12 5	<0.00 1	<0.00 1	3	5	2	57	50	<0.00 1	<0.00 1	0.017	0.017	
27/01/2016 6	13:3 0	EB160292300 1	6.7 7	98.4	0.16	0.6 1	<0.00 1	<0.00 1	47	<0.0 5	<0.0 5	<0.000 1	<0.000 1	9	<1	3	<0.00 1	<0.00 1	<0.00 1	<0.00 1	0.004	0.007	1	<1	<0.00 1	0.002	4	0.03 4	0.13 2	<0.00 1	0.001	2	4	2	47	39	<0.00 1	<0.00 1	0.017	<0.00 5	
3/02/2016	11:5 7	EB160292300 6	6.4 9	71	0.24	2.3 6	<0.00 1	<0.00 1	34	<0.0 5	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	<0.00 1	0.003	<0.00 1	0.002	0.004	0.012	<0. 1	<1	<0.00 1	0.003	3	0.02 9	0.11	<0.00 1	0.003	3	2	2	34	27	<0.00 1	<0.00 1	<0.00 5	0.007
10/02/2016 6	12:0 0	EB160360800 1	6.6 6	121. 3	0.12	0.9 2	<0.00 1	<0.00 1	56	<0.0 5	0.05	<0.000 1	<0.000 1	11	<1	3	<0.00 1	<0.00 1	<0.00 1	0.002	0.002	0.005	<0. 1	<1	<0.00 1	<0.00 1	5	0.01 9	0.11 7	<0.00 1	0.002	3	3	4	56	48	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
18/02/2016 6	12:1 5	EB160511700 6	7.5 0	134	0.02	0.3 8	<0.00 1	<0.00 1	63	<0.0 5	<0.0 5	<0.000 1	<0.000 1	12	<1	4	<0.00 1	<0.00 1	<0.00 1	0.001	0.003	0.08	1	<1	<0.00 1	0.004	5	0.05 7	0.16 2	<0.00 1	0.002	3	5	3	63	50	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
24/02/2016 6	7:15 0	EB160511701 1	7.4 0	141	0.01	0.2 8	<0.00 1	<0.00 1	65	<0.0 5	<0.0 5	<0.000 1	<0.000 1	13	<1	4	<0.00 1	<0.00 1	<0.00 1	<0.00 1	0.003	0.005	<0. 1	<1	<0.00 1	<0.00 1	6	0.02 3	0.13 1	<0.00 1	0.002	4	4	3	65	57	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
2/03/2016	11:0 4	EB160597300 1	7.0 2	86.8	0.06	0.4 7	<0.00 1	<0.00 1	38	<0.0 5	<0.0 5	<0.000 1	<0.000 1	8	<1	3	<0.00 1	<0.00 1	<0.00 1	<0.00 1	0.004	0.008	1	<1	<0.00 1	0.002	3	0.04 2	0.11 6	<0.00 1	0.002	4	2	2	38	32	<0.00 1	<0.00 1	<0.00 5	0.025	
10/03/2016 6	7:25 0	EB160698300 1	7.0 0	95	0.1	0.4 6	<0.00 1	<0.00 1	45	<0.0 5	<0.0 5	<0.000 1	<0.000 1	8	<1	3	<0.00 1	0.004	<0.00 1	<0.00 1	0.007	0.006	1	<1	0.002	<0.00 1	3	0.06 4	0.15 4	0.002	0.002	3	3	<1	45	32	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
15/03/2016 6	15:1 0	EB160744800 6	6.9 6	69	0.3	1	<0.00 1	<0.00 1	34	<0.0 5	<0.0 5	<0.000 1	<0.000 1	6	<1	3	<0.00 1	<0.00 1	<0.00 1	0.001	0.006	0.012	<0. 1	<1	<0.00 1	0.002	3	0.01 6	0.07 8	0.001	0.002	3	3	<1	34	27	<0.00 1	<0.00 1	<0.00 5	0.016	
22/03/2016 6	13:1 2	EB160831400 1	7.1 6	126	0.08	1.7 6	<0.00 1	<0.00 1	58	<0.0 5	<0.0 5	<0.000 1	<0.000 1	11	<1	3	<0.00 1	0.002	<0.00 1	0.002	0.002	0.009	0.1	<1	<0.00 1	0.002	5	0.05 9	0.17 9	<0.00 1	0.002	4	4	3	58	48	<0.00 1	<0.00 1	<0.00 5	0.006	
30/03/2016 6	12:0 0	EB160942400 1	7.3 4	139. 4	0.02	0.3 1	<0.00 1	<0.00 1	67	<0.0 5	<0.0 5	<0.000 1	<0.000 1	13	<1	4	<0.00 1	<0.00 1	<0.00 1	0.001	0.003	0.006	<0. 1	<1	<0.00 1	<0.00 1	6	0.02 8	0.16 6	<0.00 1	0.001	3	5	3	67	57	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
6/04/2016 14/04/2016 6	13:0 0 15:0 0	EB160942403 6	7.7 2 7.9 3	143. 9 154. 3	0.02 0.01	0.3 8 0.4 9	<0.00 1 1	<0.00 1 1	70 73	<0.0 5 5	<0.0 5 5	<0.000 1 1	<0.000 1 1	14 14	<1 1	4 5	<0.00 1 1	<0.00 1 0.001	<0.00 1 1	<0.00 1 0.001	0.001 0.001	0.006 0.004	<0. 1 1	<1 1	<0.00 1 1	<0.00 1 1	7 6	0.02 5	0.10 9	<0.00 1 1	0.001 0.002	4 4	5 5	4 3	70 73	64 60	<0.00 1 1	<0.00 1 1	<0.00 5 5	0.006 5	
3/05/2016	13:2 1		8.0 5	167. 8	0.02	0.2 9	<0.00 1	<0.00 1	78	<0.0 5	<0.0 5	<0.000 1	<0.000 1	16	<1	4	<0.00 1	<0.00 1	<0.00 1	<0.00 1	<0.00 1	0.003	<0. 1	<1	<0.00 1	<0.00 1	7	0.00 4	0.12 7	<0.00 1	0.001	4	5	1	78	69	<0.00 1	<0.00 1	<0.00 5	<0.00 5	

Table 2- GPU2 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate Alkalinity	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium	Carbonate Alkalinity	Total Chloride	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity	Dissolved Pb (mg/L)	Total Pb (Mg/L)	Dissolved Magnesium	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium	Dissolved Sodium	SO4 (mg/L)	Total Alkalinity	Total Hardness	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)
1/03/2014	15:40	EB1405445008	7.69	79	0.17	3.56	<0.001	0.002	24	<0.05	<0.05	<0.0001	<0.0001	7	<1	4	<0.001	0.004	0.001	0.007	0.006	0.026	<0.1	<1	<0.001	0.009	3	0.052	0.34	0.001	0.006	3	3	8	24	30	<0.001	<0.001	0.034	0.057
2/03/2014	7:37	EB1405457005	7.43	71	0.18	6.01	<0.001	0.001	23	<0.05	<0.05	<0.0001	<0.0001	6	<1	3	<0.001	0.008	<0.001	0.009	0.005	0.035	<0.1	<1	<0.001	0.007	3	0.047	0.333	<0.001	0.009	3	2	6	23	27	<0.001	<0.001	0.01	0.033
3/03/2014	7:30	EB1405457010	7.61	92	0.12	3.21	<0.001	<0.001	27	<0.05	<0.05	<0.0001	<0.0001	7	<1	4	<0.001	0.004	<0.001	0.004	0.009	0.026	<0.1	<1	0.001	0.003	4	0.006	0.174	<0.001	0.005	3	3	5	27	34	<0.001	<0.001	0.008	0.016
14/03/2014	11:45	EB1406752015	8.2	232	0.02	0.26	<0.001	<0.001	63	<0.05	<0.05	<0.0001	<0.0001	18	<1	9	<0.001	<0.001	0.004	0.012	0.006	0.008	<0.1	<1	0.005	0.001	12	0.207	0.358	0.003	0.004	5	7	36	63	94	<0.001	<0.001	0.016	0.011
18/03/2014	13:15	EB1406752023	8.25	261	<0.01	0.19	<0.001	<0.001	77	<0.05	<0.05	<0.0001	<0.0001	21	<1	9	<0.001	<0.001	0.004	0.016	0.006	0.006	<0.1	<1	<0.001	0.002	15	0.153	0.423	0.004	0.006	5	7	44	77	114	<0.001	<0.001	0.03	0.04
26/03/2014	14:00	EB1407372002	8.13	474	0.03	0.08	<0.001	<0.001	87	0.25	<0.05	0.0003	<0.0001	34	<1	10	<0.001	<0.001	0.006	0.021	0.007	0.008	0.1	<1	<0.001	<0.001	31	0.777	1.16	0.011	0.012	5	11	135	87	212	<0.001	<0.001	0.032	0.006
1/04/2014	15:45	EB1408174008	8.22	529	<0.01	0.03	<0.001	<0.001	88	0.05	<0.05	<0.0001	<0.0001	36	<1	14	<0.001	<0.001	0.003	0.009	0.006	0.008	0.1	<1	<0.001	0.002		0.578	0.853	0.009	0.012	5	11	146	88	234	<0.001	<0.001	0.011	0.018
16/04/2014	15:30	EB1409659002	8.11	689	<0.01	0.09	<0.001	<0.001	93	0.08	<0.05	<0.0001	<0.0001	47	<1	16	<0.001	<0.001	0.014	0.037	0.007	0.011	0.2	<1	<0.001	<0.001	49	0.805	1.33	0.017	0.021	6	13	237	93	319	<0.001	<0.001	0.072	0.028
23/04/2014	15:25	EB1409983006	8.06	746	<0.01	0.09	<0.001	0.001	101	<0.05	<0.05	<0.0001	<0.0001	52	<1	16	<0.001	<0.001	0.004	0.06	0.007	0.009	0.2	<1	<0.001	0.015	52	0.384	0.799	0.014	0.016	6	15	242	1	344	<0.001	<0.001	0.028	0.015
12/05/2014	14:22	EB1411707003	8.25	1020	<0.01	0.17	<0.001	<0.001	105	<0.05	<0.05	<0.0001	<0.0001	72	<1	19	<0.001	<0.001	0.021	0.046	0.014	0.016	0.2	<1	<0.001	<0.001	81	0.575	1.14	0.022	0.025	9	20	444	5	513	<0.001	<0.001	0.046	0.012
10/06/2014	13:15	EB1414275003	8.11	1530	<0.01	0.08	<0.001	0.002	94	0.05	<0.05	<0.0001	0.0003	99	<1	26	<0.001	<0.001	0.043	0.058	0.011	0.029	0.2	<1	<0.001	0.002	120	0.937	1.19	0.033	0.035	9	27	637	94	741	<0.001	<0.001	0.041	0.018
9/07/2014	14:05	EB1416720003	8.02	1820	<0.01	0.05	<0.001	<0.001	96	0.06	<0.05	<0.0001	<0.0001	136	<1	33	<0.001	<0.001	0.064	0.076	0.014	0.023	0.2	<1	<0.001	<0.001	177	0.957	1.22	0.04	0.047	14	36	878	96	1070	<0.001	<0.001	0.024	0.016
18/08/2014	11:18	EB1441023003	7.71	2300	<0.01	0.02	<0.001	<0.001	87	0.06	<0.05	0.0001	<0.0001	200	<1	38	<0.001	<0.001	0.142	0.156	0.025	0.026	0.2	<1	<0.001	<0.001	253	1.99	2.22	0.072	0.074	17	50	1350	87	1540	<0.001	<0.001	0.049	0.025
3/09/2014	13:00	EB1441916003	7.81	2490	<0.01	0.08	<0.001	<0.001	101	<0.05	<0.05	0.0001	0.0001	194	<1	40	<0.001	<0.001	0.111	0.128	0.015	0.023	0.3	<1	0.001	0.001	229	1.72	2.04	0.064	0.066	19	50	1470	10	1430	<0.001	0.001	0.023	0.065
15/10/2014	13:17	EB1444542051	8.07	2960	<0.01	0.08	0.001	0.001	94	0.07	0.06	<0.0001	<0.0001	241	<1	44	<0.001	0.002	0.086	0.119	0.013	0.026	0.4	<1	<0.001	<0.001	335	1.77	2.22	0.052	0.059	21	58	1770	94	1980	0.001	0.001	0.033	0.016
9/11/2014	13:00	EB1421576015	7.88	3320	<0.01	0.07	0.001	0.001	104	0.05	0.06	<0.0001	<0.0001	278	<1	50	<0.001	<0.001	0.062	0.089	0.013	0.038	0.4	<1	<0.001	0.002	374	1.44	1.83	0.045	0.053	23	66	1970	10	2230	0.001		0.026	0.01
30/11/2014	18:45	EB1447824001	6.7	76	0.19	3.1	<0.001	0.001	26	0.12	<0.05	<0.0001	0.0002	6	<1	3	<0.001	0.002	0.004	0.002	0.012	0.05	<0.1	<1	0.003	0.016	3	0.077	0.604	0.001	0.008	5	2	<1	26	27	<0.001	<0.001	0.077	0.05
1/12/2014	13:00	EB1447824009	6.7	74	0.24	3.1	<0.001	0.001	25	0.08	<0.05	<0.0001	0.0002	6	<1	3	<0.001	0.004	0.001	0.005	0.009	0.028	<0.1	<1	<0.001	0.007	3	0.049	0.175	0.001	0.007	5	2	5	25	27	<0.001	<0.001	0.057	0.016

2/12/2014	12:3 0	EB144782401 2	7.2	77	0.24	2.4 4	<0.00 1	<0.00 1	30	0.1	<0.0 5	<0.000 1	<0.000 1	6	<1	3	<0.00 1	0.003	<0.00 1	0.00 4	0.015	0.03	<0. 1	<1	0.002	0.005	3	0.01 8	0.14	<0.00 1	0.00 4	5	2	<1	30	27	<0.00 1	<0.00 1	0.062	<0.00 5	
3/12/2014	11:2 0	EB144782401 7	6.9 1	55	0.28	2.9 3	<0.00 1	0.002	22	0.09	<0.0 5	<0.000 1	0.0001	4	<1	2	<0.00 1	0.002	0.001 9	0.007	0.02 5	<0. 1	<1	0.002	0.015	2	0.02 2	0.32 3	<0.00 1	0.00 6	4	1	<1	22	18	<0.00 1	<0.00 1	0.046	0.026		
4/12/2014	17:0 0	EB144852600 3	7.3 5	107	0.38	2.2 8	<0.00 1	<0.00 1	36	0.08	<0.0 5	0.0002	<0.000 1	8	<1	6	<0.00 1	0.003	<0.00 1	0.00 3	0.007	0.02 6	<0. 1	<1	<0.00 1	0.004	4	0.04 1	0.14 9	<0.00 1	0.00 4	3	5	4	36	36	<0.00 1	<0.00 1	0.045	0.022	
5/12/2014	15:4 0	EB144852600 9	7.4 4	110	0.41	1.7 1	<0.00 1	<0.00 1	42	0.1	<0.0 5	<0.000 1	<0.000 1	9	<1	4	<0.00 1	0.002	0.001	0.00 4	0.009	0.02 5	<0. 1	<1	<0.00 1	0.003	4	0.08 8	0.17 6	0.001	0.00 3	3	6	8	42	39	<0.00 1	<0.00 1	0.033	0.015	
6/12/2014	14:2 5	EB144853000 3	7.4 5	116	0.46	7.0 4	<0.00 1	<0.00 1	45	0.26	<0.0 5	<0.000 1	<0.000 1	11	<1	4	<0.00 1	0.009	0.002	0.00 7	0.013	0.03 2	<0. 1	<1	0.002	0.004	5	0.09 5	0.34 4	0.002	0.00 9	3	7	8	45	48	<0.00 1	<0.00 1	0.04	0.019	
7/12/2014	13:1 5	EB144853000 9	7.5 9	123	0.08	5.1 1	<0.00 1	0.001	50	<0.0 5	<0.0 5	<0.000 1	<0.000 1	11	<1	4	<0.00 1	0.007	<0.00 1	0.00 9	0.007	0.02 8	<0. 1	<1	<0.00 1	0.004	5	0.10 6	0.41	0.001	0.00 7	4	3	9	50	48	<0.00 1	<0.00 1	<0.00 5	0.014	
8/12/2014	14:5 9	EB144853200 2	6.0 4	136	0.14	4.5 3	<0.00 1	0.002	12	<0.0 5	<0.0 5	<0.000 1	0.0003	11	<1	4	<0.00 1	0.006	0.001	0.00 6	0.021	0.02 5	<0. 1	<1	<0.00 1	0.004	4	0.09 7	0.37 9	0.002	0.00 7	4	4	36	12	44	<0.00 1	<0.00 1	0.017	0.017	
9/12/2014	16:3 0	EB144902800 3	7.5 6	115	0.29	7.3 2	<0.00 1	<0.00 1	45	<0.0 5	<0.0 5	<0.000 1	<0.000 1	11	<1	3	<0.00 1	0.009	0.001	0.00 9	0.018	0.03 7	<0. 1	<1	<0.00 1	0.007	5	0.07 2	0.32 2	0.001	0.00 8	3	6	7	45	48	<0.00 1	<0.00 1	0.037	0.024	
11/12/201 4	15:2 5	EB144853200 8	7.3 4	106	0.2	2.7 1	<0.00 1	<0.00 1	48	0.12	<0.0 5	<0.000 1	<0.000 1	10	<1	4	<0.00 1	0.003	<0.00 1	0.00 4	0.019	0.01 7	<0. 1	<1	<0.00 1	0.004	4	0.01 7	0.26 9	0.001	0.00 4	2	6	1	48	41	<0.00 1	<0.00 1	0.027	0.011	
20/12/201 4	14:0 8	EB144915800 3	7.7 3	248	0.1	1.8 6	<0.00 1	0.001	57	<0.0 5	<0.0 5	<0.000 1	0.0001	20	<1	5	<0.00 1	0.002	0.004	0.02 8	0.005	0.01 8	<0. 1	<1	<0.00 1	0.004	12	0.43 2	1.15	0.003	0.01 5	5	5	59	57	99	<0.00 1	<0.00 1	<0.00 5	0.015	
24/12/201 4	20:2 0	EB150000700 2	7.8 4	151	0.09	8.9 6	<0.00 1	0.002	59	<0.0 5	<0.0 5	<0.000 1	0.0001	13	<1	5	<0.00 1	0.012	0.002	0.02 6	0.006	0.08 6	0.1	<1	<0.00 1	0.016	5	0.48 3	1.18	0.001	0.01 7	4	4	7	59	53	<0.00 1	<0.00 1	<0.00 5	0.059	
25/12/201 4	16:2 0	EB150000700 8	7.5 5	88	0.33	9.4 8	<0.00 1	<0.00 1	22	0.09	<0.0 5	<0.000 1	<0.000 1	7	<1	2	<0.00 1	0.012	1	0.01	0.006	0.04 2	<0. 1	<1	<0.00 1	0.005	3	0.02 4	0.31 5	<0.00 1	0.01 3	2	5	14	22	30	<0.00 1	<0.00 1	0.021	0.036	
26/12/201 4	15:3 8	EB150000701 3	7.8 102	0.26	4.6 6	<0.00 1	<0.00 1	1	36	0.07	<0.0 5	<0.000 1	<0.000 1	9	<1	3	<0.00 1	0.006	0.002	0.00 6	0.011	0.02 3	0.1	<1	0.001	0.003	4	0.08 2	0.21 4	0.002	0.00 6	2	5	7	36	39	<0.00 1	<0.00 1	0.078	0.018	
27/12/201 4		EB150000701 9	7.8 5	198	0.22	2.1 6	<0.00 1	0.001	40	0.05	<0.0 5	<0.000 1	<0.000 1	16	<1	4	<0.00 1	0.003	0.003	0.01 2	0.008	0.01 6	<0. 1	<1	<0.00 1	0.002	9	0.36 1	0.64 1	0.002	0.00 6	3	5	39	40	77	<0.00 1	<0.00 1	0.028	0.019	
31/12/201 4	12:5 3	EB151062404 9	7.8 2	134	0.18	1.5 9	<0.00 1	<0.00 1	52	0.06	<0.0 5	<0.000 1	<0.000 1	12	<1	3	<0.00 1	0.002	0.001	0.00 4	0.008	0.01 2	<0. 1	<1	<0.00 1	0.002	6	0.08 2	0.16 3	0.001	0.00 3	4	5	6	52	55	<0.00 1	<0.00 1	0.05	0.008	
3/01/2015	15:4 5	EB151062405 6	7.5 7	81	0.6	5.5 1	<0.00 1	0.002	32	0.1	<0.0 5	<0.000 1	<0.000 1	7	<1	2	<0.00 1	0.007	<0.00 1	0.00 8	0.007	0.03 9	<0. 1	<1	0.001	0.018	3	0.02 6	0.36 3	0.001	0.00 8	3	6	5	32	30	<0.00 1	<0.00 1	0.026	0.028	
4/01/2015	13:1 1	EB151062406 1	7.3 55	0.69	3.9	<0.00 1	<0.00 1	1	24	0.07	<0.0 5	<0.000 1	0.0002	5	<1	1	<0.00 1	0.005	<0.00 1	0.00 5	0.009	0.02	0.1	<1	<0.00 1	0.004	2	0.00 9	0.16 5	<0.00 1	0.00 5	2	5	<1	24	21	<0.00 1	<0.00 1	0.03	0.014	
5/01/2015	15:3 0	EB151062406 6	7.7 1	75	0.38	2.8 1	<0.00 1	<0.00 1	28	0.08	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	0.004	1	0.00 3	0.008	0.01 4	<0. 1	<1	<0.00 1	0.002	3	0.02	<0.00 1	0.00 4	3	6	6	28	27	<0.00 1	<0.00 1	0.026	0.014		
6/01/2015	13:4 5	EB151062407 1	7.3 141	0.37	5.3 3	<0.00 1	0.002	15	0.06	<0.0 5	<0.000 1	<0.000 1	8	<1	4	<0.00 1	0.005	0.045	0.11 3	0.112	0.85	<0. 1	<1	0.005	0.012	5	0.20 6	0.73 2	0.011	0.02 7	4	5	38	15	40	<0.00 1	<0.00 1	0.032	0.043		
7/01/2015	18:4 0	EB151062407 7	4.5 9	444	0.48	13. 6	<0.00 1	0.003	<1	0.1	<0.0 5	<0.000 1	0.0002	5	<1	4	<0.00 1	0.013	0.091	0.90 9	0.218	7.62	0.4	<1	0.002	0.012	5	0.31 4	2.74	0.02	0.19 7	2	6	32	<1	33	<0.00 1	0.005	0.024	0.189	
8/01/2015	17:1 0	EB151062404 7	7.2 3	77	0.45	3.3 9	<0.00 1	<0.00 1	20	0.07	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	0.004	0.003	0.01 5	0.006	0.05 5	<0. 1	<1	0.003	0.003	4	0.07 5	0.17	0.002	0.00 7	3	3	10	20	31	<0.00 1	<0.00 1	0.039	0.016	
9/01/2015	19:0 0	EB151062401 2	7.6 3	118	0.1	1.2 8	<0.00 1	0.004	38	0.05	<0.0 5	<0.000 1	<0.000 1	8	<1	3	<0.00 1	0.002	0.002	0.00 6	0.015	0.06 8	<0. 1	<1	0.003	0.003	4	0.12 6	0.19 3	0.002	0.01	3	4	11	38	36	<0.00 1	<0.00 1	0.045	0.04	
18/01/201 5	7:54	EB151133600 3	6.5 1	81	0.39	5.5 4	<0.00 1	<0.00 1	4	0.07	<0.0 5	<0.000 1	<0.000 1	6	<1	3	<0.00 1	0.004	<0.00 1	0.00 8	0.005	0.03 3	0.1	<1	<0.00 1	0.008	3	0.01 8	0.28 8	0.001	0.00 7	2	5	38	4	27	<0.00 1	<0.00 1	0.025	0.022	
24/01/201 5	11:2 7	EB150232500 1	7.5 9	154	0.08	0.3 6	<0.00 1	<0.00 1	54	0.06	<0.0 5	<0.000 1	<0.000 1	12	<1	6	<0.00 1	0.002	0.001	0.00 3	0.004	0.05 2	<0. 1	<1	<0.00 1	0.004	6	0.06 9	0.13 6	0.001	0.00 3	3	6	12	54	55	<0.00 1	<0.00 1	0.032	0.032	
31/01/201 5	14:2 0	EB150232501 7	7.5 3	181	0.03	0.1 7	<0.00 1	<0.00 1	58	<0.0 5	<0.0 5	<0.000 1	<0.000 1	15	<1	6	<0.00 1	<0.00 1	0.00 5	0.004	0.00 7	<0. 1	<1	<0.00 1	<0.00 1	9	0.19 1	0.34 1	0.002	0.00 2	3	7	18	58	74	<0.00 1	<0.00 1	0.03	0.009		
6/02/2015	11:1 7	ES150335004 9	7.7 4	214	0.02	0.0 9	<0.00 1	<0.00 1	65	<0.0 5	<0.0 5	<0.000 1	<0.000 1	16	<1	7	<0.00 1	<0.00 1	<0.00 2	0.003	0.04 1	<0. 1	<1	<0.00 1	<0.00 1	7	0.19 1	0.16 3	0.002	0.00 2	2	7	29	65	69	<0.00 1	<0.00 1	0.03	<0.00 5		
11/02/201 5	13:5 0	EB151272000 3	7.9 338	<0.0 1	0.1 7	<0.00 1	<0.00 1	0.001	77	0.05	<0.0 5	<0.000 1	<0.000 1	23	<1	9	<0.00 1	<0.00 1	0.004	0.01 4	0.002	0.02	0.1	<1	<0.00 1	<0.00 1	20	0.54	0.91	0.005	0.00 8	4	10	73	77	140	<0.00 1	<0.00 1	0.024	0.012	
16/02/201 5	7:55	ES150446500 1	7.7 468	<0.0 1	0.1 1	<0.00 1	<0.00 1	1	77	<0.0 5	<0.0 5	<0.000 1	<0.000 1	28	<1	11	<0.00 1	<0.00 1	0.006	0.01 3	0.004	0.00 7	<0. 1	<1	<0.00 1	<0.00 1	25	0.96 6	0.97	1	0.008	0.01	4	9	113	77	173	<0.00 1	<0.00 1	0.038	<0.00 5
17/02/201 5	7:45	ES150446500 5	7.7 3	468	<0.0 1	0.1 1	<0.00 1	<0.00 1	78	<0.0 5	<																														

6/12/2015	12:2 6	EB153742600 4	7.8 1	3310	<0.0 1	0.0 4	0.001	0.001	12 1	<0.0 5	0.08	<0.000 1	<0.000 1	30 9	<1	54	<0.00 1	<0.00 1	0.046	0.05 3	0.011	0.01 6	0.4	<1	<0.00 1	<0.00 1	37 9	1.75	1.84	0.037	0.04 2	25	71	229 0	12 1	233 0	0.002	0.001	0.032	0.011
18/12/2015	12:4 0	EB153850000 2	6.7 3	57.5	0.57	7.3 6	<0.00 1	<0.00 1	22	0.07 5	<0.000 1	<0.000 1	<0.000 1	5	<1	2	<0.00 1	0.008 1	7	0.008 6	0.03 6	0.4 1	<1	0.001	0.076	2	0.01 1	0.20 2	0.001	0.00 8	1	5	4	22	21	<0.00 1	<0.00 1	0.022	0.023	
25/12/2015	13:1 5	EB160061200 3	6.8 9	135. 4	0.34	0.6 5	<0.00 1	<0.00 1	49	<0.0 5	<0.0 5	<0.000 1	<0.000 1	11	<1	3	<0.00 1	<0.00 1	0.006 5	0.006 5	0.01 1	<0. 1	<1	<0.00 1	0.002	6	0.30 9	0.29 4	0.005	0.00 5	3	6	19	49	52	<0.00 1	<0.00 1	0.018	0.006	
3/01/2016	16:1 5	EB160061201 4	7.2 9	85.9	0.46	0.9 9	<0.00 1	<0.00 1	45	<0.0 5	<0.0 5	<0.000 1	<0.000 1	9	<1	2	<0.00 1	<0.00 1	<0.00 1	0.00 3	0.003 6	<0. 1	<1	<0.00 1	0.001	4	0.08 3	0.14 1	0.002	0.00 3	3	2	8	45	39	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
10/01/2016	17:0 8	EB160112503 2	7.8 6	132. 4	0.23	0.4 5	<0.00 1	<0.00 1		<0.0 5	<0.0 5	<0.000 1	<0.000 1	8			<0.00 1	<0.00 1	0.001	0.00 4	0.006	0.00 9			<0.00 1	<0.00 1	5	0.14 2	0.22 6	0.002	0.00 2	2	3			40	<0.00 1	<0.00 1	0.021	<0.00 5
14/01/2016	12:2 5	EB160174800 2	6.9 6	222. 2	0.05	0.1 2	<0.00 1	<0.00 1	49	<0.0 5	<0.0 5	<0.000 1	<0.000 1	14	<1	4	<0.00 1	<0.00 1	0.004	0.01 4	0.003	0.00 5	<0. 1	<1	<0.00 1	<0.00 1	10	0.37 6	0.63 6	0.005	0.00 6	3	5	36	49	76	<0.00 1	<0.00 1	0.019	<0.00 5
20/01/2016	14:4 4	EB160174800 7	6.9 3	133	0.16	0.6 6	<0.00 1	<0.00 1	51	<0.0 5	<0.0 5	<0.000 1	<0.000 1	10	<1	3	<0.00 1	<0.00 1	<0.00 1	0.00 3	0.002	0.00 4	<0. 1	<1	<0.00 1	0.002	5	0.06 5	0.19 3	<0.00 1	0.00 2	3	4	8	51	46	<0.00 1	<0.00 1	0.019	<0.00 5
27/01/2016	13:5 5	EB160292300 2	7.2 2	113. 4	0.14	0.2 6	<0.00 1	<0.00 1	45	<0.0 5	<0.0 5	<0.000 1	<0.000 1	9	<1	3	<0.00 1	<0.00 1	<0.00 1	0.00 2	0.004	0.00 4	<0. 1	<1	<0.00 1	<0.00 1	5	0.08 2	0.18 6	0.001	0.00 2	2	4	9	45	43	<0.00 1	<0.00 1	0.006	<0.00 5
3/02/2016	12:3 0	EB160292300 7	6.8 8	83	0.21	1.5	<0.00 1	<0.00 1	30	<0.0 5	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	0.002	0.001	0.00 4	0.004	0.01 1	<0. 1	<1	0.003	0.002	4	0.10 6	0.20 6	<0.00 1	0.00 3	3	2	8	30	31	<0.00 1	<0.00 1	<0.00 5	0.006
10/02/2016	13:5 5	EB160360800 3	7.4 3	124. 1	0.14	0.5 6	<0.00 1	<0.00 1	54	<0.0 5	<0.0 5	<0.000 1	<0.000 1	11	<1	3	<0.00 1	<0.00 1	<0.00 1	0.00 2	0.003	0.00 4	<0. 1	<1	<0.00 1	<0.00 1	5	0.03 2	0.10 2	<0.00 1	0.00 1	3	3	6	54	48	<0.00 1	<0.00 1	<0.00 5	<0.00 5
18/02/2016	12:5 0	EB160511700 7	7.6 1	201	0.03	0.2	<0.00 1	<0.00 1	61	<0.0 5	<0.0 5	<0.000 1	<0.000 1	15	<1	5	<0.00 1	<0.00 1	0.004	0.01 5	0.004	0.01 1	<0. 1	<1	0.002	<0.00 1	10	0.23 9	0.46 4	0.004	0.00 6	4	5	31	61	79	<0.00 1	<0.00 1	<0.00 5	0.008
24/02/2016	7:40 6	EB160511701 2	7.2 2	262	1	0.1 3	<0.00 1	<0.00 1	66	<0.0 5	<0.0 5	<0.000 1	<0.000 1	19	<1	5	<0.00 1	<0.00 1	0.002	0.01 2	0.003	0.00 6	<0. 1	<1	<0.00 1	<0.00 1	15	0.29 6	0.52 5	0.005	0.00 8	4	6	56	66	109	<0.00 1	<0.00 1	<0.00 5	<0.00 5
2/03/2016	11:5 9	EB160597300 3	7.3 9	125. 2	0.04	0.8	<0.00 1	<0.00 1	42	<0.0 5	<0.0 5	<0.000 1	<0.000 1	11	<1	3	<0.00 1	0.001	0.001	0.00 6	0.004	0.01 1	<0. 1	<1	<0.00 1	0.002	6	0.12 3	0.32 8	0.002	0.00 4	4	3	19	42	52	<0.00 1	<0.00 1	<0.00 5	0.024
10/03/2016	7:45 6	EB160698300 2	7.0 6	265	0.03	0.2 6	<0.00 1	<0.00 1	47	<0.0 5	<0.0 5	<0.000 1	<0.000 1	16	<1	4	<0.00 1	<0.00 1	0.011	0.01 9	0.005	0.00 8	<0. 1	<1	<0.00 1	<0.00 1	17	0.61 7	0.83 8	0.01	0.01 1	4	5	73	47	110	<0.00 1	<0.00 1	<0.00 5	<0.00 5
14/03/2016	15:5 0	EB160744800 4	6.9 3	83	0.24	2.3 3	<0.00 1	<0.00 1	34	<0.0 5	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	0.003	<0.00 1	0.00 2	0.006	0.01 7	<0. 1	<1	<0.00 1	0.003	3	0.01 9	0.09 5	0.001	0.00 3	3	2	2	34	27	<0.00 1	<0.00 1	<0.00 5	0.016
15/03/2016	17:2 0	EB160744800 7	7.0 7	108	0.26	1.5	<0.00 1	<0.00 1	39	<0.0 5	<0.0 5	<0.000 1	<0.000 1	8	<1	3	<0.00 1	0.002	0.001	0.00 4	0.005	0.01 1	<0. 1	<1	0.044	0.002	5	0.11 2	0.23 2	0.001	0.00 2	3	3	15	39	40	<0.00 1	<0.00 1	0.008	0.009
22/03/2016	13:4 1	EB160831400 2	7.5 2	144	0.08	1.0 7	<0.00 1	<0.00 1	60	<0.0 5	<0.0 5	<0.000 1	<0.000 1	12	<1	4	<0.00 1	0.002	0.002	0.00 7	0.003	0.00 6	<0. 1	<1	<0.00 1	<0.00 1	7	0.11 5	0.24 7	0.002	0.00 2	4	4	12	60	59	<0.00 1	<0.00 1	<0.00 5	<0.00 5
30/03/2016	12:3 0	EB160942400 2	7.4 4	194. 5	0.02	0.3	<0.00 1	<0.00 1	64	<0.0 5	<0.0 5	<0.000 1	<0.000 1	16	<1	4	<0.00 1	<0.00 1	0.003	0.01 2	0.003	0.00 7	<0. 1	<1	<0.00 1	<0.00 1	10	0.20 5	0.41 1	0.003	0.00 6	4	5	28	64	81	<0.00 1	<0.00 1	<0.00 5	<0.00 5
6/04/2016	13:5 0	EB160942403 8	7.4 4	281	<0.0 1	0.1	<0.00 1	<0.00 1	69	<0.0 5	<0.0 5	<0.000 1	<0.000 1	21	<1	5	<0.00 1	<0.00 1	<0.00 1	0.00 4	0.002	0.00 4	<0. 1	<1	<0.00 1	<0.00 1	18	0.09 6	0.25 5	0.004	0.00 6	4	7	64	69	126	<0.00 1	<0.00 1	<0.00 5	0.008
14/04/2016	15:4 0		7.6 1	401	<0.0 1	0.0 4	<0.00 1	<0.00 1	71	<0.0 5	<0.0 5	<0.000 1	<0.000 1	28	<1	8	<0.00 1	0.001	0.006	0.00 5	<0.00 1	0.00 4	<0. 1	<1	<0.00 1	<0.00 1	26	0.53 1	0.50 3	0.007	0.00 9	4	8	118	71	177	<0.00 1	<0.00 1	<0.00 5	<0.00 5
26/04/2016	11:2 8		7.5 6	534	<0.0 1	0.2 2	<0.00 1	<0.00 1	75	<0.0 5	<0.0 5	<0.000 1	<0.000 1	37	<1	9	<0.00 1	<0.00 1	0.004	0.01 3	0.005	0.00 8	<0. 1	<1	<0.00 1	<0.00 1	37	0.18 2	0.45 1	0.007	0.00 9	5	10	182	75	245	<0.00 1	<0.00 1	<0.00 5	<0.00 5
3/05/2016	14:5 5		7.6 6	647	<0.0 1	0.1 7	<0.00 1	<0.00 1	75	<0.0 5	<0.0 5	<0.000 1	<0.000 1	44	<1	9	<0.00 1	<0.00 1	0.004	0.01 4	0.003	0.00 5	0.1	<1	<0.00 1	<0.00 1	45	0.2	0.44 7	0.007	0.01	6	11	239	75	295	<0.00 1	<0.00 1	<0.00 5	<0.00 5

Table 3- GPU5 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity (µS/cm)	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate Alkalinity (mg/L)	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium (mg/L)	Carbonate Alkalinity (mg/L)	Total Chloride (mg/L)	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity (mg/L)	Dissolved Pb (mg/L)	Total Pb (mg/L)	Dissolved Magnesium (mg/L)	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	SO4 (mg/L)	Total Alkalinity as CaCO3 (mg/L)	Total Hardness as CaCO3 (mg/L)	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)
1/03/2014	16:10	EB1405445009	7.66	71	0.26	3.74	<0.001	0.002	22	<0.05	<0.05	<0.0001	<0.0001	7	<1	4	<0.001	0.004	<0.001	0.006	0.006	0.03	<0.1	<1	<0.001	0.009	3	0.015	0.273	<0.001	0.005	3	2	6	22	30	<0.001	<0.001	0.006	0.021
3/03/2014	10:30	EB1405457011	7.58	371	0.02	3.58	<0.001	0.001	34	<0.05	<0.05	<0.0001	<0.0001	32	<1	5	<0.001	0.005	0.004	0.014	0.028	0.112	<0.1	<1	<0.001	0.007	20	0.129	0.317	0.002	0.008	4	5	135	34	162	<0.001	<0.001	0.035	0.026
14/03/2014	11:30	EB1406752016	8.2	215	0.02	0.29	<0.001	<0.001	63	<0.05	<0.05	<0.0001	<0.0001	18	<1	9	<0.001	0.008	<0.001	0.007	0.004	0.007	<0.1	<1	<0.001	0.001	12	0.032	0.217	0.002	0.004	4	7	30	63	94	<0.001	<0.001	<0.005	0.013
18/03/2014	13:49	EB1406752001	8.25	227	<0.01	0.25	<0.001	<0.001	66	0.06	0.06	<0.0001	<0.0001	18	<1	9	<0.001	<0.001	<0.001	0.005	0.005	0.008	<0.1	<1	<0.001	<0.001	12	0.012	0.166	0.002	0.002	5	7	30	66	94	<0.001	<0.001	0.006	<0.005
26/03/2014	14:21	EB1407372003	8.25	358	0.01	0.15	<0.001	<0.001	84	0.22	<0.05	<0.0001	<0.0001	28	<1	9	<0.001	<0.001	0.002	0.005	0.006	0.017	0.1	<1	<0.001	0.001	23	0.033	0.209	0.001	0.006	5	10	90	84	165	0.008	<0.001	0.007	0.009
1/04/2014	15:31	EB1408174010	8.34	421	<0.01	0.23	<0.001	<0.001	82	<0.05	<0.05	<0.0001	<0.0001	30	3	12	<0.001	<0.001	<0.001	0.006	0.008	0.041	0.1	<1	<0.001	0.001		0.008	0.213	0.003	0.005	5	10	108	86	194	<0.001	<0.001	<0.005	0.008
16/04/2014	15:40	EB1409659003	8.44	710	<0.01	0.23	<0.001	0.001	88	0.07	<0.05	<0.0001	<0.0001	49	8	17	<0.001	<0.001	<0.001	0.008	0.008	0.016	0.2	<1	<0.001	0.002	50	0.006	0.312	0.004	0.007	6	14	230	95	328	<0.001	<0.001	0.029	0.008
23/04/2014	15:37	EB1409983003	8.58	710	<0.01	0.18	<0.001	0.001	88	0.07	<0.05	<0.0001	<0.0001	50	16	21	<0.001	<0.001	<0.001	0.006	0.009	0.016	0.2	<1	<0.001	<0.001	50	0.008	0.203	0.004	0.006	6	15	220	104	331	<0.001	<0.001	0.006	0.012
12/05/2014	15:00	EB1411707005	8.7	866	0.02	0.22	<0.001	<0.001	86	<0.05	<0.05	<0.0001	<0.0001	57	18	18	<0.001	<0.001	<0.001	0.005	0.013	0.014	0.2	<1	<0.001	<0.001	67	0.006	0.139	0.003	0.005	8	17	322	104	418	<0.001	<0.001	0.037	0.008
10/06/2014	14:00	EB1414275005	8.4	1300	<0.01	0.04	<0.001	<0.001	75	0.06	<0.05	<0.0001	<0.0001	76	7	25	<0.001	<0.001	<0.001	0.002	0.012	0.017	0.2	<1	<0.001	<0.001	100	0.004	0.061	0.004	0.005	9	25	517	82	602	<0.001	<0.001	<0.005	<0.005
9/07/2014	14:45	EB1416720005	8.67	1560	<0.01	<0.01	<0.001	<0.001	50	<0.05	<0.05	<0.0001	<0.0001	102	18	32	<0.001	<0.001	<0.001	0.001	0.015	0.011	0.2	<1	<0.001	<0.001	154	0.001	0.018	0.003	0.002	13	34	775	68	889	<0.001	<0.001	<0.005	<0.005
18/08/2014	11:57	EB1441023005	8.9	2250	<0.01	<0.01	<0.001	<0.001	41	0.06	<0.05	<0.0001	<0.0001	176	21	45	<0.001	<0.001	<0.001	0.001	0.017	0.017	0.2	<1	<0.001	<0.001	263	0.002	0.007	0.003	0.003	18	54	1350	62	1520	<0.001	<0.001	<0.005	<0.005
3/09/2014	13:50	EB1441916005	9.24	2660	<0.01	<0.01	<0.001	<0.001	26	<0.05	0.06	<0.0001	<0.0001	199	41	52	<0.001	<0.001	<0.001	0.001	0.014	0.014	0.3	<1	<0.001	<0.001	260	0.004	0.012	0.003	0.003	22	59	1620	67	1570	<0.001	<0.001	<0.005	<0.005
15/10/2014	13:45	EB1444542053	8.55	4610	<0.01	<0.01	0.001	0.002	53	0.08	0.05	<0.0001	<0.0001	400	12	99	<0.001	<0.001	0.001	0.013	0.013	0.017	0.5	<1	<0.001	<0.001	580	0.01	0.042	0.006	0.006	36	114	3050	64	3390	<0.001	<0.001	<0.005	<0.005
30/11/2014	19:11	EB1447824002	6.73	520	0.08	1.48	<0.001	0.001	39	0.11	<0.05	<0.0001	<0.0001	34	<1	8	<0.001	0.001	0.014	0.014	0.014	0.028	<0.1	<1	0.002	0.014	34	0.716	0.717	0.004	0.007	8	9	193	39	225	<0.001	<0.001	0.094	0.062

1/12/2014	13:2 4	EB144782401 0	6.7 6	433	0.16	3.54	<0.00 1	0.002	23	0.08	<0.0 5	<0.000 1	0.0002	39	<1	4	<0.00 1	0.009	0.003	0.01	0.013	0.04 7	<0. 1	<1	0.002	0.021	23	0.06 8	0.19 7	0.001	0.00 8	5	6	168	23	192	<0.00 1	<0.00 1	0.065	0.011	
2/12/2014	13:4 5	EB144782401 5	7 7	148	0.25	2.59	<0.00 1	0.001	27	0.11	<0.0 5	<0.000 1	<0.000 1	12	<1	4	<0.00 1	0.003	<0.00 1	0.005	0.011	0.02 6	<0. 1	<1	0.002	0.004	6	0.03	0.15 7	<0.00 1	0.00 6	5	3	31	27	55	<0.00 1	<0.00 1	0.058	<0.00 5	
3/12/2014	11:3 5	EB144782401 8	6.7 6	96	0.33	3.49	<0.00 1	0.002	22	0.11	<0.0 5	<0.000 1	<0.000 1	8	<1	2	<0.00 1	0.004	<0.00 1	0.003	0.012	0.02 9	<0. 1	<1	0.001	0.014	4	0.01 9	0.19 8	<0.00 1	0.00 6	4	2	18	22	36	<0.00 1	<0.00 1	0.037	0.021	
4/12/2014	17:2 0	EB144852600 4	7.3 7	389	0.14	2.33	<0.00 1	0.001	35	0.07	<0.0 5	<0.000 1	<0.000 1	35	<1	5	<0.00 1	0.003	0.002	0.006	0.014	0.04 3	<0. 1	<1	<0.00 1	0.004	20	0.10 7	0.20 7	<0.00 1	0.00 5	4	7	136	35	170	<0.00 1	<0.00 1	0.049	0.016	
5/12/2014	16:0 0	EB144852601 0	7.4 8	147	0.36	2.92	<0.00 1	<0.00 1	41	0.07	<0.0 5	0.0002	<0.000 1	13	<1	4	<0.00 1	0.004	0.001	0.006	0.011	0.03 3	<0. 1	<1	<0.00 1	0.004	6	0.13	0.26 9	<0.00 1	0.00 6	3	6	24	41	57	<0.00 1	<0.00 1	0.041	0.019	
6/12/2014	14:4 0	EB144853000 4	7.4 8	147	0.36	3.66	<0.00 1	<0.00 1	42	0.15	<0.0 5	<0.000 1	<0.000 1	13	<1	4	<0.00 1	0.005	0.001	0.009	0.01	0.02 7	0.2	<1	<0.00 1	0.003	6	0.15 2	0.41 1	0.003	0.00 6	3	6	23	42	57	<0.00 1	<0.00 1	0.03	0.012	
7/12/2014	13:3 6	EB144853001 0	7.6 1	152	0.07	4.12	<0.00 1	<0.00 1	46	<0.0 5	<0.0 5	<0.000 1	<0.000 1	14	<1	4	<0.00 1	0.006	<0.00 1	0.007	0.008	0.02 6	<0. 1	<1	<0.00 1	0.004	6	0.1	0.30 3	0.002	0.00 5	4	4	22	46	60	<0.00 1	<0.00 1	<0.00 5	0.011	
8/12/2014	14:4 2	EB144853200 3	7.3 7.3	188	0.05	5.84	<0.00 1	0.002	50	5	<0.0 5	<0.0 5	<0.000 1	0.0002	19	<1	4	<0.00 1	0.009	1	0.007	0.011	0.03 1	<0. 1	<1	<0.00 1	0.004	9	0.15 4	0.38 8	0.002	0.00 8	4	4	35	50	84	<0.00 1	<0.00 1	<0.00 5	0.017
9/12/2014	16:4 9	EB144902800 9	7.4 7	373	0.1	6.26	<0.00 1	0.001	44	<0.0 5	<0.0 5	<0.000 1	<0.000 1	34	<1	4	<0.00 1	0.009	0.002	0.009	0.019	0.04 2	0.1	<1	<0.00 1	0.005	18	0.14 1	0.38	0.001	0.00 8	3	9	124	44	159	<0.00 1	<0.00 1	0.044	0.022	
11/12/2014	16:3 4	EB144853200 9	7.2 7	247	0.16	7.09	<0.00 1	0.002	44	0.11	<0.0 5	<0.000 1	<0.000 1	25	<1	4	<0.00 1	0.004	<0.00 1	0.007	0.023	0.04 1	<0. 1	<1	<0.00 1	0.005	11	0.04 2	0.28	0.002	0.00 6	3	7	69	44	108	<0.00 1	<0.00 1	0.043	0.019	
20/12/2014	14:4 1	EB144915800 4	7.8 1	166	0.09	0.49	0.001	0.001	57	<0.0 5	<0.0 5	<0.000 1	<0.000 1	15	<1	5	<0.00 1	<0.00 1	0.002	0.006	0.008	0.01 2	<0. 1	<1	<0.00 1	0.003	8	0.29 1	0.43 1	0.002	0.00 4	4	4	20	57	70	<0.00 1	<0.00 1	<0.00 5	<0.00 5	
24/12/2014	20:3 4	EB150000700 3	7.9 5	187	0.07	3.22	<0.00 1	0.002	62	5	<0.0 5	<0.0 5	<0.000 1	<0.000 1	18	<1	5	<0.00 1	0.004	0.004	0.01	0.013	0.03 1	<0. 1	<1	<0.00 1	0.006	8	0.48 6	0.74 6	0.002	0.00 7	4	4	22	62	78	<0.00 1	<0.00 1	<0.00 5	0.02
25/12/2014	15:5 4	EB150000700 7	7.6 5	485	0.1	9.84	<0.00 1	0.002	32	0.08	<0.0 5	<0.0 5	<0.000 1	<0.000 1	48	<1	4	<0.00 1	0.014	0.006	0.018	0.01	0.05 7	<0. 1	<1	<0.00 1	0.005	26	0.32 7	0.61 8	0.001	0.01 5	3	8	202	32	227	<0.00 1	<0.00 1	0.046	0.033
26/12/2014	16:0 4	EB150000701 2	7.7 2	404	0.06	5.37	<0.00 1	0.001	33	0.05	<0.0 5	<0.000 1	<0.000 1	32	<1	4	<0.00 1	0.008	0.005	0.012	0.013	0.03 7	<0. 1	<1	<0.00 1	0.004	21	0.24 4	0.4	0.002	0.00 8	3	6	140	33	166	<0.00 1	<0.00 1	0.072	0.018	
27/12/2014	16:0 4	EB150000701 8	7.8 5	185	0.24	2.91	<0.00 1	0.001	42	0.06	<0.0 5	<0.000 1	<0.000 1	16	<1	3	<0.00 1	0.004	0.002	0.007	0.009	0.03 3	<0. 1	<1	0.002	0.003	8	0.14 8	0.27 8	0.002	0.00 6	3	5	36	42	73	<0.00 1	<0.00 1	0.069	0.052	
31/12/2014	13:1 8	EB151062405 0	7.7 8	562	0.08	1.68	<0.00 1	<0.00 1	49	0.06	<0.0 5	<0.000 1	<0.000 1	55	<1	4	<0.00 1	0.002	0.006	0.011	0.018	0.04 5	<0. 1	<1	<0.00 1	0.001	31	0.25 2	0.32 2	0.002	0.00 4	4	9	224	49	265	<0.00 1	<0.00 1	0.059	0.019	
3/01/2015	16:0 0	EB151062405 7	7.5 5	138	0.35	2.49	<0.00 1	0.001	29	0.07	<0.0 5	<0.000 1	<0.000 1	14	<1	2	<0.00 1	0.003	0.001	0.005	0.01	0.01 6	<0. 1	<1	<0.00 1	0.006	7	0.06 5	0.18 6	0.001	0.00 4	4	5	37	29	64	<0.00 1	<0.00 1	0.04	0.014	
4/01/2015	13:3 0	EB151062406 2	7.4 1	154	0.32	8.59	<0.00 1	0.001	22	0.08	<0.0 5	<0.000 1	<0.000 1	13	<1	2	<0.00 1	0.012	<0.00 1	0.01	0.008	0.04 4	<0. 1	<1	<0.00 1	0.006	7	0.04 3	0.26 7	<0.00 1	0.01 2	2	7	44	22	61	<0.00 1	<0.00 1	0.015	0.029	
5/01/2015	15:4 0	EB151062406 7	7.5 1	279	0.16	2.37	<0.00 1	0.001	24	0.05	<0.0 5	<0.000 1	<0.000 1	26	<1	3	<0.00 1	0.003	0.002	0.005	0.013	0.02 4	0.2	<1	<0.00 1	0.002	14	0.12 9	0.18 8	0.001	0.00 4	3	6	101	24	122	<0.00 1	<0.00 1	0.045	0.011	
6/01/2015	14:0 0	EB151062407 2	7.3 7	93	0.4	5.01	<0.00 1	0.002	16	0.07	<0.0 5	<0.000 1	<0.000 1	7	<1	2	<0.00 1	0.006	0.014	0.029	0.066	0.19 4	<0. 1	<1	<0.00 1	0.01	4	0.08 8	0.40 8	0.004	0.01 1	2	6	20	16	34	<0.00 1	<0.00 1	0.016	0.028	
7/01/2015	19:0 0	EB151062403 6	7.1 8	176	0.32	9.13	<0.00 1	0.002	14	0.09	<0.0 5	<0.0 5	<0.000 1	<0.000 1	10	<1	3	<0.00 1	0.017	0.048	0.08	0.134	0.77 9	<0. 1	<1	0.001	0.013	9	0.20 8	0.61 8	0.013	0.03 1	3	7	55	14	62	<0.00 1	0.001	0.029	0.059
8/01/2015	18:0 0	EB151062402 4	7.1 7.1	120	0.3	3.39	<0.00 1	0.001	18	<0.0 5	<0.0 5	<0.000 1	0.0002	9	<1	2	<0.00 1	0.004	0.032	0.167	0.192	0.38 1	<0. 1	<1	<0.00 1	0.003	5	0.15	0.22 9	0.008	0.04 7	2	4	36	18	43	<0.00 1	0.001	0.026	0.045	
9/01/2015	18:3 0	EB151062401 3	7.6 8	140	0.11	1.27	<0.00 1	<0.00 1	40	<0.0 5	<0.0 5	<0.000 1	<0.000 1	8	<1	4	<0.00 1	0.001	0.002	0.006	0.005	0.02 2	<0. 1	<1	<0.00 1	0.004	5	0.20 7	0.41 8	0.001	0.00 3	3	3	14	40	40	<0.00 1	<0.00 1	0.033	0.006	
18/01/2015	9:59 5	EB151133600 4	7.3 1	72	0.44	3.14	<0.00 1	<0.00 1	27	0.07	<0.0 5	<0.000 1	<0.000 1	7	<1	3	<0.00 1	0.002	<0.00 1	0.004	0.005	0.01 8	<0. 1	<1	<0.00 1	0.004	3	0.04 8	0.13 8	0.001	0.00 4	2	4	8	27	30	<0.00 1	<0.00 1	0.02	0.015	
24/01/2015	12:0 5	EB150232500 4	7.4 4	153	0.1	0.44	<0.00 1	<0.00 1	51	0.06	<0.0 5	<0.000 1	<0.000 1	11	<1	5	<0.00 1	<0.00 1	<0.00 1	0.004	0.004	0.02 1	0.2	<1	<0.00 1	0.002	6	0.03 6	0.13 5	0.002	0.00 3	3	6	13	51	52	<0.00 1	<0.00 1	0.027	0.009	
31/01/2015	14:0 5	EB150232502 0	7.6 5	191	0.03	0.4	<0.00 1	<0.00 1	59	<0.0 5	<0.0 5	<0.000 1	<0.000 1	14	<1	7	<0.00 1	<0.00 1	<0.00 1	0.006	0.003	0.01 4	<0. 1	<1	<0.00 1	<0.00 1	9	0.10 6	0.33 3	0.002	0.00 3	3	7	21	59	72	<0.00 1	<0.00 1	0.03	0.03	
6/02/2015	13:2 0	ES150335005 1	7.7 5	251	0.01	0.06	<0.00 1	<0.00 1	68	<0.0 5	<0.0 5	<0.000 1	<0.000 1	18	<1	8	<0.00 1	<0.00 1	<0.00 1	0.003	0.01 9	<0. 1	<1	<0.00 1	0.004	10	0.13 9	0.41 5	0.003	0.00 3	3	7	45	68	86	<0.00 1	<0.00 1	0.023	<0.00 5		
11/02/2015	13:2 5	EB151272000 4	7.9 9	305	0.01	0.32	<0.00 1	<0.00 1	76	<0.0 5	<0.0 5	<0.000 1	<0.000 1	23	<1	9	<0.00 1	<0.00 1	<0.00 1	0.006	0.003	0.01 6	0.1	<1	<0.00 1	<0.00 1	17	0.12 6	0.48 6	0.002	0.00 5	4	8	57	76	127	<0.00 1	<0.00 1	0.018	<0.00 5	
18/02/2015	13:3 5	ES150446501 5	8.0 5	447	<0.0 1	0.4	<0.00 1	<0.00 1	78																																

10/01/2016	16:54	EB1601125031	8.16	117.6	0.21	0.47	<0.001	<0.001		<0.005	<0.005	<0.0001	<0.0001	8			<0.001	<0.001	<0.001	0.002	0.006	0.008			<0.001	<0.001	4	0.046	0.147	0.001	0.002	2	2	3			36	<0.001	<0.001	0.01	0.005
14/01/2016	12:35	EB1601748003	7.23	182	0.08	0.29	<0.001	<0.001	50	<0.005	<0.005	<0.0001	<0.0001	13	<1	4	<0.001	<0.001	<0.001	0.003	0.003	0.005	0.2	<1	<0.001	<0.001	8	0.081	0.249	0.002	0.004	3	4	26	50	65	<0.001	<0.001	0.01	0.006	
20/01/2016	15:00	EB1601748008	7.03	118	0.3	0.86	<0.001	<0.001	45	<0.005	<0.005	<0.0001	<0.0001	9	<1	3	<0.001	<0.001	<0.001	0.002	0.003	0.004	<0.001	<1	<0.001	0.002	4	0.025	0.138	0.001	0.002	2	2	5	5	45	39	<0.001	<0.001	0.015	0.006
27/01/2016	15:00	EB1602923003	7.56	107	0.13	0.8	<0.001	0.001	47	<0.005	<0.005	<0.0001	<0.0001	9	<1	3	<0.001	<0.001	<0.001	0.007	0.003	0.009	0.1	<1	<0.001	0.002	4	0.028	0.224	0.001	0.003	3	2	4	8	47	39	<0.001	<0.001	0.006	<0.005
3/02/2016	12:46	EB1602923008	6.92	78.1	0.17	2.23	<0.001	<0.001	33	<0.005	<0.005	<0.0001	<0.0001	6	<1	2	<0.001	0.003	0.003	0.004	0.004	0.012	<0.001	<1	<0.001	0.002	3	0.068	0.161	0.001	0.004	3	2	6	33	27	<0.001	<0.001	<0.005	0.007	
10/02/2016	14:47	EB1603608004	7.31	134.5	0.12	0.92	<0.001	<0.001	53	<0.005	<0.005	<0.0001	<0.0001	11	<1	3	<0.001	<0.001	<0.001	0.004	0.004	0.006	<0.001	<1	<0.001	<0.001	6	0.032	0.152	0.001	0.002	2	3	3	11	53	52	<0.001	<0.001	<0.005	<0.005
18/02/2016	13:10	EB1605117008	7.99	126	0.02	0.35	<0.001	<0.001	62	<0.005	<0.005	<0.0001	<0.0001	13	<1	4	<0.001	<0.001	<0.001	0.003	0.004	0.006	0.2	<1	<0.001	<0.001	7	0.006	0.154	0.001	0.003	3	3	4	15	62	61	<0.001	<0.001	<0.005	<0.005
24/02/2016	7:50	EB1605117013	7.59	217	<0.001	0.24	<0.001	<0.001	65	<0.005	<0.005	<0.0001	<0.0001	16	<1	5	<0.001	<0.001	<0.001	0.003	0.004	0.006	<0.001	<1	<0.001	<0.001	11	0.011	0.149	0.002	0.003	4	5	34	65	85	<0.001	<0.001	<0.005	<0.005	
2/03/2016	12:38	EB1605973005	7.85	90.6	0.04	0.74	<0.001	<0.001	42	<0.005	<0.005	<0.0001	<0.0001	9	<1	3	<0.001	<0.001	<0.001	0.004	0.004	0.009	<0.001	<1	<0.001	0.001	4	0.016	0.198	0.002	0.003	4	2	10	42	39	<0.001	<0.001	<0.005	0.01	
10/03/2016	8:00	EB1606983003	7.38	168	0.04	0.25	<0.001	<0.001	46	<0.005	<0.005	<0.0001	<0.0001	11	<1	3	<0.001	<0.001	<0.001	0.002	0.005	0.013	0.1	<1	<0.001	<0.001	9	0.008	0.113	0.002	0.003	4	4	33	46	64	<0.001	<0.001	<0.005	0.006	
15/03/2016	17:40	EB1607448008	6.70	89	0.22	1.82	<0.001	<0.001	37	<0.005	<0.005	<0.0001	<0.0001	7	<1	3	<0.001	0.002	<0.001	0.003	0.01	0.011	<0.001	<1	<0.001	0.002	3	0.024	0.129	0.002	0.003	3	3	3	4	37	30	<0.001	<0.001	0.009	0.007
22/03/2016	13:55	EB1608314003	7.61	141	0.09	1.39	<0.001	0.001	54	<0.005	<0.005	<0.0001	<0.0001	12	<1	3	<0.001	0.002	<0.001	0.004	0.002	0.011	<0.001	<1	<0.001	0.002	7	0.072	0.213	0.001	0.002	2	3	4	11	54	59	<0.001	<0.001	<0.005	0.006
30/03/2016	12:50	EB1609424003	7.88	179.1	0.02	0.54	<0.001	<0.001	69	<0.005	<0.005	<0.0001	<0.0001	15	<1	4	<0.001	<0.001	<0.001	0.003	0.004	0.007	<0.001	<1	<0.001	<0.001	9	0.003	0.145	0.001	0.002	4	5	23	69	74	<0.001	<0.001	<0.005	0.006	
6/04/2016	14:05	EB1609424039	8.28	211	0.02	0.49	<0.001	<0.001	68	<0.005	<0.005	<0.0001	<0.0001	19	<1	5	<0.001	<0.001	<0.001	0.003	0.004	0.011	<0.001	<1	<0.001	<0.001	14	0.005	0.153	0.001	0.003	4	6	47	68	105	<0.001	<0.001	<0.005	0.005	
14/04/2016	15:55		8.38	302	<0.001	0.05	<0.001	<0.001	70	<0.005	<0.005	<0.0001	<0.0001	17	<1	5	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<1	<0.001	<0.001	10	0.008	0.01	<0.001	0.001	4	5	29	70	84	<0.001	<0.001	<0.005	<0.005	
3/05/2016	15:14		8.59	500	<0.001	0.59	<0.001	<0.001	69	<0.005	<0.005	<0.0001	<0.0001	36	7	8	<0.001	<0.001	<0.001	0.003	0.005	0.01	0.1	<1	<0.001	<0.001	33	0.004	0.14	0.001	0.004	5	10	150	76	226	<0.001	<0.001	<0.005	<0.005	

Table 4- GPU5 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate Alkalinity as CaCO ₃ (mg/L)	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium	Carbonate Alkalinity as CaCO ₃ (mg/L)	Total Chloride	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity as CaCO ₃ (mg/L)	Dissolved Pb (mg/L)	Total Pb (Mg/L)	Dissolved Manganese	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium	Dissolved Sodium	SO ₄ (mg/L)	Total Alkalinity as CaCO ₃ (mg/L)	Total Hardness as CaCO ₃ (mg/L)	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)
30/11/2014	19:36	EB1447824003	6.64	116	0.2	3.71	<0.001	0.001	26	0.1	<0.005	<0.0001	0.0001	9	<1	3	<0.001	0.003	0.002	0.012	0.012	0.045	<0.001	<1	0.002	0.014	4	0.087	0.482	<0.001	0.008	5	3	22	26	39	<0.001	<0.001	0.073	0.064
1/12/2014	12:36	EB1447824008	6.75	340	0.17	2.5	<0.001	0.002	24	0.07	<0.005	<0.0001	0.0002	31	<1	4	<0.001	0.004	0.002	0.008	0.014	0.061	<0.001	<1	0.001	0.01	18	0.051	0.173	0.002	0.006	5	5	128	24	152	<0.001	<0.001	0.077	0.029
2/12/2014	13:30	EB1447824014	6.97	211	0.21	2.29	<0.001	0.001	28	0.1	<0.005	<0.0001	<0.0001	17	<1	4	<0.001	0.003	0.002	0.007	0.012	0.03	<0.001	<1	<0.001	0.004	10	0.049	0.165	<0.001	0.005	5	4	63	28	84	<0.001	<0.001	0.064	<0.005
3/12/2014	14:10	EB1447824020	6.77	163	0.32	3.08	<0.001	0.002	21	0.1	<0.005	<0.0001	0.0001	13	<1	2	<0.001	0.003	<0.001	0.004	0.01	0.028	<0.001	<1	<0.001	0.013	7	0.034	0.244	<0.001	0.005	4	2	48	21	61	<0.001	<0.001	0.037	0.019
4/12/2014	18:00	EB1448526006	7.32	156	0.41	1.4	<0.001	<0.001	36	0.07	<0.005	<0.0001	<0.0001	12	<1	4	<0.001	0.001	0.001	0.004	0.01	0.029	<0.001	<1	<0.001	0.006	7	0.111	0.184	0.002	0.004	4	5	29	36	59	<0.001	<0.001	0.052	0.017
5/12/2014	16:45	EB1448526012	7.33	397	0.23	1.28	0.001	0.002	59	0.12	<0.005	<0.0001	<0.0001	33	<1	5	<0.001	0.002	0.008	0.013	0.026	0.06	<0.001	<1	0.001	0.005	20	0.593	1.04	0.002	0.006	4	8	122	59	165	<0.001	<0.001	0.084	0.027
6/12/2014	15:40	EB1448530006	7.45	385	0.06	1.28	0.001	0.001	54	<0.005	<0.005	<0.0001	<0.0001	32	<1	6	<0.001	0.002	0.008	0.011	0.017	0.028	<0.001	<1	<0.001	0.002	21	0.675	0.713	0.004	0.005	4	7	119	54	166	<0.001	<0.001	0.013	0.008
7/12/2014	15:20	EB1448530012	7.67	211	0.06	3.32	<0.001	0.001	52	<0.005	<0.005	<0.0001	<0.0001	17	<1	5	<0.001	0.005	0.003	0.011	0.009	0.031	0.2	<1	<0.001	0.005	11	0.323	0.521	0.003	0.007	4	5	44	52	88	<0.001	<0.001	0.005	0.012
8/12/2014	11:24	EB1448532005	7.27	190	0.03	4.78	<0.001	0.001	50	<0.005	<0.005	<0.0001	<0.0001	18	<1	4	<0.001	0.007	0.001	0.008	0.009	0.029	<0.001	<1	<0.001	0.004	9	0.163	0.383	0.002	0.008	4	4	32	50	82	<0.001	<0.001	<0.005	0.017
9/12/2014	17:50	EB1449028006	7.59	411	0.07	3.18	<0.001	0.002	58	<0.005	<0.005	<0.0001	<0.0001	31	<1	6	<0.001	0.005	0.004	0.01	0.018	0.031	0.1	<1	<0.001	0.002	22	0.461	0.707	0.003	0.006	4	9	123	58	168	<0.001	<0.001	<0.005	0.02
11/12/2014	15:15	EB1448532011	7.27	159	0.16	4	<0.001	<0.001	50	0.11	<0.005	<0.0001	<0.0001	14	<1	4	<0.001	0.006	<0.001	0.008	0.012	0.021	<0.001	<1	<0.001	0.003	7	0.135	0.355	0.002	0.007	3	7	25	50	64	<0.001	<0.001	0.041	0.013
20/12/2014	16:50	EB1449158006	7.81	216	0.08	0.71	<0.001	0.002	62	<0.005	<0.005	<0.0001	<0.0001	19	<1	5	<0.001	0.004	0.002	0.005	0.016	0.061	<0.001	<1	<0.001	0.003	11	0.372	0.45	0.002	0.004	4	5	34	62	93	<0.001	<0.001	0.007	0.008
24/12/2014	20:5	EB1500007005	7.99	169	0.09	7.2	<0.001	0.002	60	<0.005	<0.005	<0.0001	<0.0001	16	<1	5	<0.001	0.006	0.005	0.019	0.005	0.058	<0.001	<1	<0.001	0.008	8	0.515	0.968	0.002	0.011	4	4	16	60	73	<0.001	<0.001	<0.005	0.031
25/12/2014	16:50	EB150000701	7.69	415	0.11	6.48	<0.001	0.001	28	0.07	<0.005	<0.0001	<0.0001	37	<1	4	<0.001	0.01	0.002	0.012	0.008	0.038	<0.001	<1	<0.001	0.004	21	0.106	0.356	0.001	0.01	3	7	152	28	179	<0.001	<0.001	0.043	0.026
26/12/2014	14:16	EB150000701	7.77	408	0.06	7.73	<0.001	0.002	36	0.06	<0.005	<0.0001	<0.0001	33	<1	4	<0.001	0.012	0.003	0.018	0.012	0.076	<0.001	<1	<0.001	0.007	21	0.184	0.502	0.002	0.014	4	7	139	36	169	<0.001	<0.001	0.072	0.043
27/12/2014	13:05	EB150000702	7.82	404	0.11	3.28	<0.001	0.001	38	0.05	<0.005	<0.0001	<0.0001	35	<1	4	<0.001	0.006	0.005	0.011	0.012	0.047	<0.001	<1	<0.001	0.003	21	0.263	0.392	0.002	0.007	3	7	142	38	44	<0.001	<0.001	0.067	0.047
31/12/2014	14:46	EB151062405	7.85	209	0.19	1.55	<0.001	<0.001	49	0.07	<0.005	<0.0001	<0.0001	17	<1	3	<0.001	0.002	0.001	0.005	0.009	0.016	<0.001	<1	<0.001	0.001	10	0.109	0.193	0.001	0.003	4	7	40	49	84	<0.001	<0.001	0.056	0.006
3/01/2015	17:25	EB151062405	8.02	192	0.06	0.36	<0.001	0.001	84	0.08	<0.005	<0.0001	<0.0001	16	<1	5	<0.001	<0.001	<0.001	0.002	0.012	0.019	0.1	<1	<0.001	0.001	8	0.041	0.115	<0.001	0.002	7	9	6	84	73	<0.001	<0.001	0.028	0.008
4/01/2015	14:10	EB151062406	8.11	188	<0.001	0.1	<0.001	<0.001	86	0.07	<0.005	<0.0001	<0.0001	17	<1	4	<0.001	<0.001	<0.001	<0.001	0.008	0.004	0.1	<1	<0.001	1	8	0.043	0.074	<0.001	<0.001	4	10	3	86	75	<0.001	<0.001	0.03	5
5/01/2015	16:25	EB151062406	8.17	187	<0.001	0.2	<0.001	<0.001	86	0.09	<0.005	<0.0001	<0.0001	17	<1	4	<0.001	<0.001	<0.001	0.001	0.006	0.008	0.1	<1	<0.001	<0.001	8	0.012	0.112	<0.001	<0.001	4	10	3	86	75	<0.001	<0.001	0.017	5
6/01/2015	14:30	EB151062407	7.33	70	0.35	3.29	0.001	0.002	16	0.08	<0.005	<0.0001	<0.0001	5	<1	2	<0.001	0.003	0.003	0.012	0.04	0.134	<0.001	<1	<0.001	0.006	3	0.039	0.292	0.002	0.008	2	6	12	16	25	<0.001	<0.001	0.013	0.043
7/01/2015	19:27	EB151062403	7.2	84	0.39	4	<0.001	0.002	13	<0.005	<0.005	<0.0001	<0.0001	7	<1	2	<0.001	0.01	0.011	0.032	0.106	0.466	<0.001	<1	<0.001	0.014	3	0.08	0.472	0.008	0.022	2	4	17	13	30	<0.001	<0.001	0.02	0.063

8/01/2015	18:3 5	EB151062402 6	7.3 1	84	0.33	4.2 8	<0.00 1	0.001	16	<0.0 5	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	0.005	0.018	0.042	0.09 2	0.46	<0. 1	<1	0.001	0.006	4	0.10 9	0.28 2	0.005	0.016	2	4	15	16	31	<0.00 1	<0.00 1	0.04	0.027
9/01/2015	18:0 0	EB151062401 5	7.4 4	124	0.13	1.2 7	0.001	0.002	32	0.06	<0.0 5	<0.000 1	<0.000 1	7	<1	3	<0.00 1	0.001	0.002	0.005	0.01 8	0.05	0.1	<1	<0.00 1	<0.00 1	6	0.08 2	0.13 6	0.001	0.003	4	6	14	32	42	<0.00 1	<0.00 1	0.049	0.006
18/01/201 5	8:49	EB151133600 6	7.3 8	62	0.48	4.1 9	<0.00 1	<0.00 1	30	0.06	<0.0 5	<0.000 1	<0.000 1	5	<1	3	<0.00 1	0.003	<0.00 1	0.004	0.00 8	0.02 4	<0. 1	<1	<0.00 1	0.005	2	0.00 7	0.14 5	0.001	0.003	2	4	4	30	21	<0.00 1	<0.00 1	0.019	0.012
24/01/201 5	16:3 5	EB150232500 2	7.1 1	111	0.31	1.5 5	<0.00 1	0.001	28	0.07	<0.0 5	<0.000 1	<0.000 1	7	<1	3	<0.00 1	0.003	0.002	0.005	0.02 2	0.03 8	<0. 1	<1	<0.00 1	0.004	4	0.08 1	0.18 5	0.002	0.004	2	5	17	28	34	<0.00 1	<0.00 1	0.038	0.009
31/01/201 5	15:0 0	EB150232502 1	7.6 7	203	0.03	0.1 8	<0.00 1	<0.00 1	61	0.05	<0.0 5	<0.000 1	<0.000 1	15	<1	6	<0.00 1	<0.00 1	<0.00 1	0.003	0.00 4	0.00 9	<0. 1	<1	<0.00 1	<0.00 1	10	0.07 6	0.24 7	0.002	0.002	3	7	27	61	79	<0.00 1	<0.00 1	0.026	0.005
6/02/2015	12:0 6	ES1503350054	7.7 5	293	0.01	0.0 7	<0.00 1	<0.00 1	65	0.06	<0.0 5	<0.000 1	<0.000 1	22	<1	8	<0.00 1	<0.00 1	<0.00 1	0.00 5	0.00 4	<0. 1	<1	<0.00 1	<0.00 1	13	0.24 6	0.23 8	0.002	0.002	2	8	61	65	10 8	<0.00 1	<0.00 1	0.031	<0.00 5	
18/12/201 5	17:3 5	EB160061202 1	6.8 5	105. 7	0.33	1.2 8	<0.00 1	<0.00 1	46	<0.0 5	<0.0 5	<0.000 1	<0.000 1	13	<1	4	<0.00 1	0.001	0.002	0.012	0.00 8	0.01 6	<0. 1	<1	<0.00 1	0.002	9	0.24 3	0.48 3	0.005	0.007	4	3	38	46	70	<0.00 1	<0.00 1	<0.00 5	0.008
25/12/201 5	15:5 5	EB160061200 6	7.4	181	0.03	0.2 2	<0.00 1	0.001	64	<0.0 5	<0.0 5	<0.000 1	<0.000 1	66	<1	13	<0.00 1	<0.00 1	0.006	0.01	0.01 7	0.01 7	0.2	<1	<0.00 1	<0.00 1	71	0.87 2	0.96 9	0.009	0.01	8	17	9	64	45 7	<0.00 1	<0.00 1	<0.00 5	<0.00 5
3/01/2016	15:3 0	EB160061201 2	7.5	91.6	0.44	1.2 5	<0.00 1	<0.00 1	37	<0.0 5	<0.0 5	<0.000 1	<0.000 1	8	<1	2	<0.00 1	0.001	<0.00 1	0.002	0.00 6	0.00 9	<0. 1	<1	<0.00 1	0.004	4	0.07 5	0.11 5	0.002	0.003	2	4	8	37	36	<0.00 1	<0.00 1	0.013	0.012
18/01/201 6	17:4 0	EB160174801 4	6.5 5	294	0.02	1.9 1	<0.00 1	0.022	39	<0.0 5	<0.0 5	<0.000 1	0.0001	19	<1	3	<0.00 1	0.002	0.059	0.083	0.20 4	1.25	<0. 1	<1	<0.00 1	0.009	15	0.90 8	1.23	0.028	0.037	3	4	77	39	10 9	<0.00 1	<0.00 1	0.05	0.074
3/02/2016	15:2 1	EB160292301 2	6.9 3	84	0.18	0.9 8	<0.00 1	<0.00 1	38	<0.0 5	<0.0 5	<0.000 1	<0.000 1	6	<1	2	<0.00 1	0.001	<0.00 1	0.002	0.00 5	0.00 9	<0. 1	<1	<0.00 1	0.002	4	0.05 9	0.10 4	<0.00 1	0.002	3	2	8	38	31	<0.00 1	<0.00 1	<0.00 5	<0.00 5
15/03/201 6	18:1 0	EB160744801 0	7.1 6	90.1	0.25	1.9 9	<0.00 1	<0.00 1	40	<0.0 5	<0.0 5	<0.000 1	<0.000 1	7	<1	3	<0.00 1	0.003	<0.00 1	0.003	0.01 1	0.01 9	<0. 1	<1	<0.00 1	0.002	4	0.01 2	0.11 5	0.001	0.003	3	3	4	40	34	<0.00 1	<0.00 1	<0.00 5	0.009

Table 5- GPD1 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate Alkalinity	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium	Carbonate Alkalinity	Total Chloride	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity	Dissolved Pb (mg/L)	Total Pb (Mg/L)	Dissolved Manganese	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium	Dissolved Sodium	SO4 (mg/L)	Total Alkalinity as Ca	Total Hardness as Ca	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)
14/03/2014	12:00	EB1406752017	8.15	261	0.02	0.14	<0.001	<0.001	62	<0.05	<0.05	<0.0001	<0.0001	20	<1	9	<0.001	0.002	<0.001	0.001	0.005	0.008	<0.1	<1	<0.001	<0.001	15	0.021	0.097	0.001	0.002	5	8	50	62	112	<0.001	<0.001	0.011	0.018
18/03/2014	14:28	EB1406752003	8.27	306	<0.01	0.12	<0.001	<0.001	74	0.08	<0.05	<0.0001	<0.0001	26	<1	10	<0.001	<0.001	0.001	0.007	0.008	<0.1	<1	<0.001	<0.001	18	0.01	0.1	0.001	0.001	5	8	68	74	139	<0.001	<0.001	0.028	0.022	
26/03/2014	15:11	EB1407372005	8.26	345	<0.01	0.06	<0.001	<0.001	84	0.26	<0.05	<0.0001	<0.0001	29	<1	9	<0.001	<0.001	0.002	0.001	0.004	0.028	0.1	<1	<0.001	0.005	20	0.013	0.102	0.002	0.003	4	9	77	84	155	0.0041	<0.001	<0.005	0.008
1/04/2014	12:45	EB1408174002	7.9	326	<0.01	0.02	<0.001	<0.001	82	0.06	<0.05	<0.0001	<0.0001	29	<1	11	<0.001	<0.001	<0.001	0.001	0.005	0.006	0.2	<1	<0.001	0.004		0.003	0.088	<0.001	0.001	6	9	81	82	155	<0.001	<0.001	0.019	0.006
16/04/2014	16:00	EB1409659005	8.27	434	<0.01	0.08	<0.001	0.001	86	0.05	<0.05	<0.0001	<0.0001	36	<1	12	<0.001	<0.001	<0.001	0.001	0.006	0.109	0.1	<1	<0.001	0.003	25	0.006	0.085	<0.001	0.001	5	10	121	86	193	<0.001	<0.001	0.015	0.027
23/04/2014	16:20	EB1409983006	8.28	422	<0.01	0.04	<0.001	0.001	63	<0.05	<0.05	<0.0001	<0.0001	31	<1	11	<0.001	<0.001	<0.001	0.001	0.005	0.01	0.1	<1	<0.001	0.002	22	0.004	0.07	<0.001	0.001	5	10	110	63	168	<0.001	<0.001	0.014	0.012
12/05/2014	16:01	EB1411707008	8.37	464	<0.01	0.24	<0.001	<0.001	97	<0.05	<0.05	<0.0001	<0.0001	37	4	13	<0.001	<0.001	<0.001	0.001	0.007	0.008	0.1	<1	0.001	<0.001	26	0.005	0.131	<0.001	<0.001	6	13	91	101	199	<0.001	<0.001	0.021	0.022
10/06/2014	15:30	EB1414275008	8.3	509	<0.01	0.08	<0.001	<0.001	94	<0.05	<0.05	<0.0001	<0.0001	38	<1	13	<0.001	<0.001	<0.001	0.001	0.008	0.01	0.2	<1	<0.001	<0.001	26	0.003	0.073	<0.001	0.001	6	12	122	94	22	<0.001	<0.001	<0.005	<0.005
9/07/2014	16:10	EB1416720008	8.4	529	<0.01	0.08	<0.001	0.001	89	<0.05	<0.05	<0.0001	<0.0001	38	9	13	<0.001	<0.001	<0.001	0.001	0.007	0.009	0.2	<1	0.002	0.002	31	0.002	0.068	<0.001	<0.001	7	13	129	98	222	<0.001	<0.001	0.006	<0.005
18/08/2014	12:54	EB1441023008	8.83	540	<0.01	0.04	0.001	0.001	72	0.07	<0.05	<0.0001	<0.0001	40	21	16	<0.001	<0.001	<0.001	0.001	0.008	0.009	0.1	<1	<0.001	<0.001	37	0.003	0.046	<0.001	<0.001	8	15	164	93	252	<0.001	<0.001	<0.005	<0.005
3/09/2014	15:30	EB1441916008	9.34	567	<0.01	0.05	0.001	0.001	44	<0.05	<0.05	<0.0001	<0.0001	35	41	18	<0.001	<0.001	<0.001	0.001	0.011	0.01	0.2	<1	<0.001	<0.001	34	0.002	0.046	<0.001	0.001	8	18	169	85	227	<0.001	<0.001	<0.005	<0.005
15/10/2014	14:25	EB1444542055	8.83	919	<0.01	0.04	0.002	0.002	76	0.08	0.06	<0.0001	<0.0001	59	26	24	<0.001	<0.001	0.001	0.002	0.008	0.01	0.2	<1	<0.001	<0.001	63	0.012	0.21	0.001	0.002	12	30	325	102	407	<0.001	<0.001	<0.005	<0.005
9/11/2014	15:00	EB1421576018	9.6	1060	<0.01	0.14	0.003	0.003	20	0.06	<0.05	<0.0001	<0.0001	74	38	38	<0.001	<0.001	0.001	0.002	0.011	0.032	0.3	<1	<0.001	<0.001	70	0.004	0.091	0.002	0.004	15	45	398	58	473	<0.001		<0.005	0.012
20/12/2014	16:20	EB1449158007	8.51	214	0.06	1.19	<0.001	0.002	50	<0.05	<0.05	<0.0001	<0.0001	20	6	5	<0.001	0.001	<0.001	0.007	0.011	0.024	<0.1	<1	<0.001	0.003	11	0.016	1.58	0.001	0.004	5	5	46	56	95	<0.001	<0.001	0.005	0.015
11/02/2015	14:25	EB1512720002	7.97	319	<0.01	0.06	<0.001	0.001	80	<0.05	<0.05	<0.0001	<0.0001	23	<1	9	<0.001	<0.001	0.003	0.004	0.023	0.1	<1	<0.001	<0.001	17	0.016	0.165	<0.001	0.002	4	9	62	80	127	<0.001	<0.001	0.012	<0.005	
12/02/2015	12:05	EB1512971004	7.78	313	<0.01	0.04	<0.001	<0.001	76	<0.05	0.06	<0.0001	<0.0001	25	<1	10	<0.001	<0.001	<0.001	0.004	0.014	0.01	0.1	<1	<0.001	0.019	18	0.015	0.17	<0.001	0.001	4	9	65	76	136	<0.001	<0.001	0.026	<0.005
13/02/2015	11:55	EB1512971008	7.86	317	<0.01	0.03	<0.001	<0.001	92	<0.05	0.05	<0.0001	<0.0001	25	<1	10	<0.001	<0.001	<0.001	0.001	0.004	0.005	<0.1	<1	<0.001	<0.001	18	0.011	0.117	<0.001	0.001	4	10	58	92	136	<0.001	<0.001	0.026	0.009
14/02/2015	12:33	EB1512971012	7.93	328	<0.01	0.04	<0.001	<0.001	91	<0.05	<0.05	<0.0001	<0.0001	28	<1	10	<0.001	<0.001	<0.001	0.001	0.004	0.005	<0.1	<1	<0.001	<0.001	19	0.009	0.133	<0.001	<0.001	4	9	68	91	148	<0.001	<0.001	0.022	<0.005
15/02/2015	13:35	EB1512968004	7.73	402	<0.01	0.04	<0.001	<0.001	96	<0.05	<0.05	<0.0001	<0.0001	29	<1	12	<0.001	<0.001	0.003	0.005	0.003	0.004	<0.1	<1	<0.001	<0.001	25	0.5	0.467	0.006	0.006	4	11	95	96	175	<0.001	<0.001	0.027	<0.005
18/02/2015	12:15	ES150444650127	7.8	367	<0.01	0.05	0.001	<0.001	80	<0.05	<0.05	<0.0001	<0.0001	26	<1	10	<0.001	<0.001	<0.001	0.004	0.006	0.00	0.3	<1	<0.001	<0.001	18	0.006	0.099	0.001	0.001	3	8	69	80	139	<0.001	<0.001	0.024	<0.005
19/02/2015	12:10	ES150444650193	7.9	376	<0.01	0.06	<0.001	<0.001	81	<0.05	<0.05	<0.0001	<0.0001	26	<1	10	<0.001	<0.001	<0.001	0.006	0.005	0.00	<0.1	<1	<0.001	<0.001	17	0.006	0.089	<0.001	<0.001	3	8	70	81	135	<0.001	<0.001	0.022	<0.005
20/02/2015	12:50	ES150444650237	7.9	374	<0.01	0.07	<0.001	0.001	81	<0.05	<0.05	<0.0001	<0.0001	25	<1	10	<0.001	<0.001	<0.001	0.005	0.006	0.00	<0.1	<1	<0.001	<0.001	18	0.013	0.1	<0.001	<0.001	4	9	68	81	136	<0.001	<0.001	0.019	<0.005
21/02/2015	11:30	ES150444650258	8	378	<0.01	0.04	<0.001	<0.001	81	<0.05	<0.05	<0.0001	<0.0001	26	<1	10	<0.001	<0.001	<0.001	0.004	0.006	0.00	<0.1	<1	<0.001	<0.001	17	0.005	0.064	<0.001	0.001	3	8	69	81	135	<0.001	<0.001	0.03	<0.005
22/02/2015	15:15	ES150444650293	7.8	338	<0.01	0.03	<0.001	<0.001	85	<0.05	<0.05	<0.0001	<0.0001	25	<1	9	<0.001	<0.001	<0.001	0.003	0.005	0.00	0.1	<1	<0.001	<0.001	18	0.008	0.083	<0.001	0.001	4	10	66	85	136	<0.001	<0.001	0.013	<0.005
23/02/2015	11:15	ES150444650335	7.8	361	<0.01	0.04	<0.001	<0.001	88	<0.05	<0.05	<0.0001	<0.0001	27	<1	9	<0.001	<0.001	<0.001	0.001	0.004	0.00	0.1	<1	<0.001	<0.001	19	0.002	0.074	<0.001	<0.001	5	10	70	88	146	<0.001	<0.001	0.02	<0.005
24/02/2015	12:20	EB1514207007	7.6	334	<0.01	0.04	0.001	0.001	87	<0.05	<0.05	<0.0001	<0.0001	27	<1	9	<0.001	<0.001	<0.001	0.001	0.006	0.004	<0.1	<1	<0.001	<0.001	18	0.018	0.096	<0.001	<0.001	4	10	67	87	142	<0.001	<0.001	0.024	<0.005
25/02/2015	12:10	EB1514204002	7.8	329	<0.01	0.07	0.001	0.001	89	<0.05	<0.05	<0.0001	<0.0001	26	<1	9	<0.001	<0.001	<0.001	0.001	0.003	0.004	<0.1	<1	<0.001	<0.001	18	0.006	0.084	<0.001	<0.001	4	10	63	89	139	<0.001	<0.001	0.01	<0.005

26/02/2015	17:00	EB1514204006	7.77	430	<0.01	0.05	0.001	0.001	102	<0.05	<0.05	<0.0001	<0.0001	33	<1	10	<0.001	<0.001	<0.001	<0.001	0.004	0.006	<0.01	<0.01	<0.001	<0.001	26	0.006	0.113	<0.001	<0.001	5	11	104	102	189	<0.001	<0.001	0.006	<0.005
27/02/2015	15:20	EB1514207003	7.91	426	<0.01	0.05	0.001	<0.001	100	<0.05	<0.05	<0.0001	<0.0001	32	<1	10	<0.001	<0.001	<0.001	<0.001	0.005	0.006	<0.01	<0.01	<0.001	<0.001	25	0.006	0.116	0.001	<0.001	5	11	101	100	183	<0.001	<0.001	0.005	<0.005
28/02/2015	15:20	EB1514208008	7.89	456	<0.01	0.1	<0.001	0.001	97	<0.05	<0.05	<0.0001	<0.0001	34	<1	11	<0.001	<0.001	<0.001	0.001	0.005	0.007	<0.01	<0.01	<0.001	<0.001	28	0.005	0.165	0.002	0.001	5	11	118	97	200	<0.001	<0.001	0.007	<0.005
10/03/2015	15:25	EB14144660008	7.74	191	0.2	0.19	0.002	<0.001	57	0.1	<0.05	0.0003	<0.0001	15	<1	6	<0.001	<0.001	0.005	<0.001	0.095	0.006	<0.001	<0.001	<0.001	<0.001	9	0.06	0.065	0.004	<0.001	4	6	30	57	74	<0.001	<0.001	0.122	<0.005
15/03/2015	15:00	EB1515041008	7.8	182	0.02	0.12	<0.001	<0.001	59	0.06	<0.05	<0.0001	<0.0001	14	<1	6	<0.001	<0.001	<0.001	0.001	0.007	0.014	<0.001	<0.001	0.004	9	0.01	0.077	0.001	0.002	4	6	27	59	72	<0.001	<0.001	0.014	0.023	
19/03/2015	14:46	EB1515399000	7.87	291.2	0.02	0.12	<0.001	<0.001	61	<0.05	<0.05	<0.0001	<0.0001	16	<1	7	<0.001	<0.001	<0.001	<0.001	0.005	0.008	<0.001	<0.001	0.008	10	0.01	0.075	<0.001	0.001	4	6	34	61	81	<0.001	<0.001	0.023	0.006	
7/04/2015	17:10	EB1516379008	8.18	311	<0.01	0.14	<0.001	<0.001	71	<0.05	<0.05	<0.0001	<0.0001	22	<1	7	<0.001	<0.001	<0.001	<0.001	0.005	0.011	<0.001	<0.001	<0.001	14	0.005	0.091	<0.001	0.001	5	7	58	71	112	<0.001	<0.001	0.015	<0.005	
26/05/2015	8:45	EB1519752008	8	358	<0.01	0.07	<0.001	<0.001	76	<0.05	<0.05	<0.0001	<0.0001	33	<1	7	<0.001	<0.001	<0.001	<0.001	0.007	0.007	0.1	<0.01	0.002	19	0.001	0.065	<0.001	0.001	5	9	2	76	1	<0.001	<0.001	0.022	0.009	
8/06/2015	9:50	EB1520536001	8.3	351	<0.01	0.14	<0.001	<0.001	80	0.06	<0.05	<0.0001	<0.0001	30	<1	8	<0.001	<0.001	<0.001	0.002	0.004	0.018	<0.001	<0.001	<0.001	18	0.006	0.081	<0.001	<0.001	5	10	88	80	149	<0.001	<0.001	0.015	<0.005	
4/07/2015	9:12	EB1522361008	8.5	393	<0.01	0.07	<0.001	<0.001	75	<0.05	<0.05	<0.0001	<0.0001	29	<1	7	<0.001	<0.001	<0.001	<0.001	0.005	0.01	0.2	<0.01	<0.001	19	<0.001	0.037	<0.001	<0.001	5	8	97	75	151	<0.001	<0.001	0.01	<0.005	
5/08/2015	8:13	EB1525215003	8.86	376	<0.01	0.04	<0.001	<0.001	79	<0.05	<0.05	<0.0001	<0.0001	32	3	9	<0.001	<0.001	<0.001	<0.001	0.006	0.007	0.2	<0.01	<0.001	22	0.001	0.013	<0.001	<0.001	6	9	101	82	170	<0.001	<0.001	0.006	<0.005	
3/09/2015	7:45	EB1528021008	9.19	392	<0.01	0.07	<0.001	<0.001	54	<0.05	<0.05	<0.0001	<0.0001	31	13	10	<0.001	<0.001	<0.001	<0.001	0.011	0.01	0.2	<0.01	<0.001	27	0.003	0.031	<0.001	<0.001	9	12	12	67	188	<0.001	<0.001	<0.005	<0.005	
5/10/2015	9:02	EB1530774004	9.43	595	<0.01	0.2	<0.001	0.001	63	<0.05	0.05	<0.0001	<0.0001	39	7	13	<0.001	<0.001	<0.001	<0.001	0.011	0.03	0.2	<0.01	0.005	32	0.003	0.066	<0.001	<0.001	9	16	0	70	9	<0.001	0.002	5	5	
1/11/2015	15:22	EB1533667008	9.64	891	<0.01	0.04	0.002	0.002	38	0.1	<0.05	<0.0001	<0.0001	54	43	22	<0.001	<0.001	<0.001	0.001	0.011	0.012	0.2	<0.01	<0.001	51	0.016	0.066	0.002	0.002	13	23	30	81	34	<0.001	<0.001	<0.005	<0.005	
6/12/2015	13:05	EB1537426005	9.36	1052	<0.01	0.02	0.003	0.003	35	<0.05	0.1	<0.0001	<0.0001	77	39	31	<0.001	<0.001	0.001	0.002	0.012	0.012	0.4	<0.01	<0.001	66	0.01	0.053	0.001	0.002	20	38	41	74	46	0.001	<0.001	<0.005	<0.005	
6/01/2016	11:35	EB1600612019	7.38	147	0.27	0.08	<0.001	<0.001	41	<0.05	<0.05	<0.0001	<0.0001	10	<1	3	<0.001	<0.001	<0.001	0.002	0.006	0.011	<0.001	<0.001	<0.001	6	0.092	0.184	0.002	0.002	3	3	22	41	50	<0.001	<0.001	<0.005	<0.005	
10/01/2016	17:45	EB1601125034	7.65	182	0.16	0.06	<0.001	<0.001	1	<0.05	<0.05	<0.0001	<0.0001	11			<0.001	<0.001	<0.001	0.001	0.01	0.01			0.001	7	0.041	0.106	0.001	0.001	2	4			56	<0.001	<0.001	0.028	<0.005	
14/01/2016	17:29	EB1601748005	7.44	254.3	0.04	0.21	<0.001	<0.001	56	<0.05	<0.05	<0.0001	<0.0001	18	<1	5	<0.001	<0.001	<0.001	<0.001	0.007	0.008	<0.001	<0.001	0.001	11	0.086	0.187	0.001	0.001	3	6	43	56	90	<0.001	<0.001	0.02	0.006	
20/01/2016	15:33	EB1601748010	7.42	120	0.4	1.29	<0.001	0.001	39	<0.05	<0.05	<0.0001	<0.0001	9	<1	3	<0.001	<0.001	<0.001	0.002	0.007	0.01	<0.001	<0.001	0.002	5	0.026	0.125	0.001	0.003	2	5	10	39	43	<0.001	<0.001	0.014	0.008	
27/01/2016	15:40	EB1602923005	7.62	139	0.09	0.22	<0.001	<0.001	50	<0.05	<0.05	<0.0001	<0.0001	11	<1	3	<0.001	<0.001	<0.001	0.001	0.007	0.011	<0.001	<0.001	0.001	6	0.012	0.105	<0.001	0.002	3	4	16	50	52	<0.001	<0.001	0.014	<0.005	
10/02/2016	15:55	EB1603608007	7.63	152	0.11	0.094	<0.001	<0.001	55	<0.05	<0.05	<0.0001	<0.0001	12	<1	4	<0.001	<0.001	<0.001	0.002	0.005	0.008	<0.001	0.009	1	7	0.012	0.136	0.001	0.002	3	4	18	55	59	<0.001	<0.001	<0.005	<0.005	
18/02/2016	14:00	EB1605117010	8.26	168	0.02	0.1	<0.001	<0.001	62	<0.05	<0.05	<0.0001	<0.0001	14	<1	4	<0.001	<0.001	<0.001	<0.001	0.004	0.004	<0.001	<0.001	<0.001	8	0.006	0.068	<0.001	<0.001	4	4	18	62	68	<0.001	<0.001	<0.005	<0.005	
24/02/2016	8:40	EB1605117015	7.40	209	<0.01	0.06	<0.001	<0.001	70	<0.05	<0.05	<0.0001	<0.0001	17	<1	5	<0.001	<0.001	<0.001	<0.001	0.003	0.006	<0.001	<0.001	<0.001	10	0.002	0.067	<0.001	0.002	4	5	30	70	84	<0.001	<0.001	<0.005	<0.005	
2/03/2016	15:24	EB1605973009	8.10	118	0.06	0.16	<0.001	<0.001	44	<0.05	<0.05	<0.0001	<0.0001	8	<1	3	<0.001	<0.001	<0.001	<0.001	0.004	0.008	<0.001	<0.001	<0.001	4	0.005	0.065	<0.001	<0.001	3	2	10	44	36	<0.001	<0.001	<0.005	0.019	
10/03/2016	8:50	EB1606983005	7.55	162	0.01	0.13	<0.001	<0.001	63	<0.05	<0.05	<0.0001	<0.0001	12	<1	3	<0.001	<0.001	<0.001	<0.001	0.004	0.008	<0.001	<0.001	<0.001	8	0.002	0.091	<0.001	0.002	4	5	16	63	63	<0.001	<0.001	<0.005	0.009	
22/03/2016	15:44	EB1608314005	7.69	168	0.07	1.19	<0.001	<0.001	59	<0.05	<0.05	<0.0001	<0.0001	14	<1	4	<0.001	0.002	<0.001	0.002	0.003	0.009	<0.001	<0.001	<0.001	8	0.077	0.181	<0.001	0.001	3	4	22	59	68	<0.001	<0.001	<0.005	5	
30/03/2016	13:50	EB1609424005	7.45	211.9	0.02	0.21	<0.001	<0.001	69	<0.05	<0.05	<0.0001	<0.0001	17	<1	5	<0.001	<0.001	<0.001	<0.001	0.003	0.006	<0.001	<0.001	<0.001	11	0.01	0.072	<0.001	0.001	4	6	33	69	88	<0.001	<0.001	<0.005	<0.005	
6/04/2016	15:40	EB1609424042	8	195.6	0.01	0.08	<0.001	<0.001	69	<0.05	<0.05	<0.0001	<0.0001	16	<1	4	<0.001	<0.001	<0.001	<0.001	0.003	0.004	<0.001	<0.001	<0.001	10	0.006	0.047	<0.001	<0.001	4	6	28	69	81	<0.001	<0.001	<0.005	<0.005	
14/04/2016	16:35		7.95	204.9	0.02	0.14	0.001	0.002	75	<0.05	<0.05	<0.0001	<0.0001	18	<1	4	<0.001	<0.001	<0.001	<0.001	0.009	0.009	<0.001	0.001	<0.001	9	0.008	0.088	<0.001	0.002	4	6	17	75	82	<0.001	<0.001	<0.005	<0.005	
3/05/2016	16:56		8.21	223.9	<0.01	0.22	<0.001	<0.001	73	<0.05	<0.05	<0.0001	<0.0001	18	<1	5	<0.001	<0.001	<0.001	<0.001	0.004	0.005	<0.001	<0.001	<0.001	11	0.002	0.069	<0.001	<0.001	4	6	32	73	90	<0.001	<0.001	<0.005	<0.005	

Table 6- MGU1 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)</
------	------	----------	---------------	-------------------------	---------------------	-----------------	-----------------------

13/02/2015	11:15	EB1512971005	7.18	47	0.11	0.26	<0.001	<0.001	9	<0.05	<0.05	<0.0001	<0.0001	3	<1	2	<0.001	<0.001	0.001	0.002	0.004	0.005	<0.1	<1	<0.001	<0.001	2	0.128	0.148	<0.001	<0.001	2	2	2	9	16	<0.001	<0.001	0.035	<0.005
14/02/2015	12:01	EB1512971009	7.22	48	0.14	0.37	<0.001	<0.001	20	<0.05	<0.05	<0.0001	<0.0001	3	<1	2	<0.001	<0.001	0.001	0.002	0.005	0.007	<0.1	<1	<0.001	<0.001	1	0.128	0.162	<0.001	<0.001	2	2	2	20	12	<0.001	<0.001	0.03	<0.005
15/02/2015	11:40	EB1512968001	7.31	48	0.17	0.36	<0.001	0.001	16	<0.05	<0.05	<0.0001	<0.0001	3	<1	2	<0.001	<0.001	0.001	0.002	0.005	0.009	<0.1	<1	<0.001	<0.001	1	0.119	0.153	0.001	<0.001	2	4	2	16	12	<0.001	<0.001	0.031	<0.005
16/02/2015	12:00	ES1504465002	7.37	201	0.22	0.28	<0.001	<0.001	21	<0.05	<0.05	<0.0001	<0.0001	23	<1	2	<0.001	<0.001	0.004	0.007	0.008	0.011	<0.1	<1	<0.001	<0.001	2	0.094	0.118	0.003	0.003	3	3	51	21	66	<0.001	<0.001	0.036	<0.005
17/02/2015	10:00	ES1504465006	7.37	209	0.29	0.97	<0.001	<0.001	21	<0.05	<0.05	<0.0001	<0.0001	27	<1	2	<0.001	<0.001	0.005	0.006	0.009	0.01	<0.1	<1	<0.001	<0.001	2	0.106	0.108	0.004	0.003	3	2	54	21	76	<0.001	<0.001	0.042	<0.005
18/02/2015	11:30	ES1504465009	7.24	53	0.24	0.54	0.001	0.001	13	<0.05	<0.05	<0.0001	<0.0001	3	<1	2	<0.001	<0.001	0.002	0.002	0.007	0.01	<0.1	<1	<0.001	<0.001	2	0.114	0.14	<0.001	0.001	2	2	3	13	16	<0.001	<0.001	0.034	<0.005
19/02/2015	11:45	ES1504465017	7.21	54	0.25	0.72	0.001	0.001	15	<0.05	<0.05	<0.0001	<0.0001	3	<1	2	<0.001	0.001	0.002	0.003	0.007	0.014	<0.1	<1	<0.001	<0.001	1	0.12	0.154	<0.001	0.002	2	2	3	15	12	<0.001	<0.001	0.039	<0.005
20/02/2015	12:10	ES1504465020	7.23	52	0.29	0.74	0.001	0.001	12	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.001	0.002	0.003	0.011	0.013	<0.1	<1	<0.001	<0.001	1	0.093	0.137	0.001	0.002	2	1	4	12	9	<0.001	<0.001	0.046	<0.005
21/02/2015	12:10	ES1504465027	7.14	52	0.25	0.67	0.001	0.001	15	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.001	0.001	0.003	0.008	0.019	<0.1	<1	<0.001	0.001	<1	0.074	0.128	<0.001	0.003	2	2	3	15	5	<0.001	<0.001	0.035	<0.005
22/02/2015	17:35	ES1504465031	6.89	45	0.51	1.28	0.001	0.002	12	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.002	0.001	0.002	0.009	0.019	<0.1	<1	<0.001	0.003	<1	0.062	0.109	0.001	0.003	2	2	3	12	5	<0.001	<0.001	0.013	0.008
23/02/2015	12:10	ES1504465034	7.13	46	0.58	0.75	0.001	0.001	14	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.001	0.001	0.003	0.01	0.017	<0.1	<1	0.002	0.001	<1	0.071	0.114	0.001	0.002	2	2	3	14	5	<0.001	<0.001	0.036	<0.005
24/02/2015	13:00	EB1514207005	6.83	41	0.66	0.84	0.002	0.002	14	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.001	0.001	0.003	0.01	0.02	<0.1	<1	<0.001	0.002	1	0.05	0.12	0.001	0.002	3	3	3	14	9	<0.001	<0.001	<0.005	0.006
25/02/2015	12:45	EB1514207012	6.98	39	0.62	0.59	0.002	0.002	12	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.001	<0.001	0.002	0.01	0.016	<0.1	<1	<0.001	0.002	1	0.04	0.09	0.001	0.001	3	3	3	12	9	<0.001	<0.001	<0.005	0.01
26/02/2015	12:35	EB1514204004	7.05	38	0.72	0.58	0.002	0.002	11	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	<0.001	0.002	0.002	0.044	0.017	<0.1	<1	<0.001	0.002	1	0.03	0.068	0.001	0.002	3	3	4	11	9	<0.001	<0.001	<0.005	0.006
27/02/2015	15:50	EB1514207001	7.38	247	0.02	0.13	0.001	0.001	25	<0.05	<0.05	<0.0001	<0.0001	36	<1	2	<0.001	<0.001	0.001	0.002	0.006	0.01	<0.1	<1	<0.001	<0.001	3	0.06	0.071	0.006	0.002	3	3	87	25	102	<0.001	<0.001	0.016	0.01
28/02/2015	16:10	EB1514208011	7.19	260	0.02	0.17	<0.001	0.001	29	<0.05	<0.05	<0.0001	<0.0001	38	<1	2	<0.001	<0.001	0.002	0.004	0.006	0.012	<0.1	<1	<0.001	0.001	3	0.074	0.09	0.002	0.002	3	3	88	29	107	<0.001	<0.001	0.016	<0.005
10/03/2015	15:00	EB1414660010	7.49	326	0.02	0.14	0.002	0.001	30	0.05	<0.05	<0.0001	<0.0001	59	<1	3	<0.001	0.001	<0.001	0.002	0.014	0.01	0.4	<1	0.004	<0.001	3	0.009	0.036	0.002	0.002	4	3	133	30	160	<0.001	<0.001	0.014	<0.005
15/03/2015	15:25	EB1515041009	7.28	480	0.15	0.4	0.002	0.002	10	0.06	<0.05	<0.0001	<0.0001	2	<1	4	<0.001	<0.001	<0.001	0.002	0.012	0.023	<0.1	<1	<0.001	0.001	1	0.018	0.074	0.001	0.002	4	4	4	10	9	<0.001	<0.001	0.005	0.019
19/03/2015	13:42	EB1515399001	9.31	634	0.05	0.17	0.002	0.003	9	<0.05	<0.05	<0.0001	<0.0001	2	<1	4	<0.001	<0.001	<0.001	0.003	0.01	0.015	<0.1		0.003	<0.001	1	0.005	0.144	<0.001	0.002	4	5	4	9	9	<0.001	<0.001	0.006	0.011
18/12/2015	17:12	EB1538500007	6.79	56.9	0.48	1.91	0.001	0.002	23	0.12	<0.05	<0.0001	<0.0001	4	<1	2	<0.001	0.002	0.002	0.004	0.014	0.026	<0.1	<1	<0.001	0.007	2	0.072	0.115	0.002	0.005	3	5	5	23	18	<0.001	<0.001	0.028	0.006
4/01/2016	7:35	EB1600612017	6.72	70.8	0.46	0.71	<0.001	0.001	16	<0.05	<0.05	<0.0001	<0.0001	3	<1	2	<0.001	<0.001	0.001	0.003	0.01	0.014	<0.1	<1	<0.001	0.001	2	0.095	0.164	0.002	0.003	4	1	10	16	16	<0.001	<0.001	<0.005	<0.005
3/02/2016	16:24	EB1602923014	8.32	40.8	0.57	0.8	<0.001	<0.001	9	<0.05	<0.05	<0.0001	<0.0001	2	<1	2	<0.001	0.001	<0.001	0.002	0.007	0.011	<0.1	<1	0.004	<0.001	1	0.003	0.059	0.001	0.002	3	2	5	9	9	<0.001	<0.001	<0.005	0.006
2/03/2016	13:28		9.32	52.5	0.12	0.22	0.005	0.006	21	<0.05	0.05	<0.0001	0.0001	3	<1	4	<0.001	0.001	0.003	0.008	0.01	0.016	<0.1	<1	0.001	0.003	1	0.109	0.482	0.002	0.003	5	2	2	21	12	<0.001	<0.001	<0.005	0.024
15/03/2016	18:45	EB1607448012	6.47	34	1.11	1.61	<0.001	0.001	9	<0.05	<0.05	<0.0001	<0.0001	1	<1	2	<0.001	0.002	0.001	0.002	0.008	0.015	<0.1	<1	<0.001	<0.001	1	0.049	0.074	0.001	0.003	3	1	3	9	7	<0.001	<0.001	<0.005	0.006
6/04/2016	16:25	EB1609424044	8.71	38.4	6.08	2.96	0.002	0.002	9	<0.05	<0.05	<0.0001	<0.0001	2	<1	3	0.005	0.003	0.002	0.004	0.02	0.023	<0.1	<1	0.002	0.003	1	0.058	0.139	0.004	0.003	4	3	7	9	9	<0.001	<0.001	<0.005	0.005
4/05/2016	11:11	EB1611883010	8.87	86.9	0.23	2.22	0.003	0.005	30	<0.05	<0.05	<0.0001	<0.0001	5	<1	7	<0.001	0.004	0.005	0.01	0.024	0.033	<0.1	<1	0.004	0.007	3	0.267	0.521	0.003	0.005	6	5	7	30	25	<0.001	<0.001	<0.005	0.009

Table 7- MGA1

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate Alkalinity (mg/L)	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium (mg/L)	Carbonate Alkalinity (mg/L)	Total Chloride (mg/L)	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity (mg/L)	Dissolved Pb (mg/L)	Total Pb (mg/L)	Dissolved Manganese (mg/L)	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	SO4 (mg/L)	Total Alkalinity (mg/L)	Total Hardness as CaCO3 (mg/L)	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)	
1/03/2014	14:19	EB1405445011	4.87	501	0.45	1.03	0.002	0.007	14	<0.05	<0.05	0.0003	0.0002	40	<1	12	<0.001	<0.001	0.23	0.222	9.08	10.4	0.2	<1	<0.001	0.003	24	1.02	1.08	0.089	0.096	10	6	209	14	199	<0.001	0.001	0.096	0.114	
2/03/2014	9:01	EB1405457007	4.63	605	0.81	1.92	0.002	0.012	<1	<0.05	<0.05	0.0003	0.0003	48	<1	11	<0.001	0.001	0.288	0.266	11.9	11.8	0.2	<1	0.002	0.003	29	1.47	1.28	0.111	0.117	10	7	242	<1	239	0.001	0.001	0.109	0.111	
3/03/2014	11:25	EB1405454001	4.44	697	1.3	1.32	0.003	0.003	<1	<0.05	<0.05	0.0004	0.0005	63	<1	13	<0.001	<0.001	0.367	0.342	15.1	15.2	0.2	<1	<0.001	0.002	39	1.86	1.59	0.144	0.152	13	7	325	<1	318	0.001	0.002	0.138	0.174	
4/03/2014	17:40	EB1405454004	4.54	758		1.83		0.008	<1		<0.05		0.0005	70	<1	12		<0.001		0.394		17.4	0.3	<1		0.002	44		1.84		0.175	14	8	372	<1			0.002		0.172	
14/03/2014	13:45	EB1406752020	4.67	941	1.01	1.07	0.003	0.003	<1	<0.05	0.06	0.0004	0.0005	86	<1	11	<0.001	0.002	0.468	0.498	14.3	15	0.2	<1	0.002	0.003	54	2.3	2.22	0.172	0.177	14	10	427	<1	437	0.001	0.001	0.162	0.203	
18/03/2014	15:34		4.86	959	0.52	0.61	0.004	0.004	1	0.15	<0.05	0.0005	0.0005	91	<1	11	<0.001	<0.001	0.449	0.474	12.8	13	0.2	<1	<0.001	0.002	57	2.37	2.22	0.169	0.167	15	11	450	1	462	<0.001	<0.001	0.271	0.158	
1/02/2015	10:45	EB1502325025	6.27	268	0.01	0.28	0.001	0.001	5	<0.05	<0.05	<0.0001	<0.0001	24	<1	2	<0.001	0.001	0.063	0.065	2.62	3.42	0.1	<1	<0.001	<0.001	10	0.238	0.244	0.03	0.031	3	3	101	5	101	<0.001	<0.001	0.072	0.022	
2/02/2015	12:40	ES1503350041	6.8	271	<0.01	0.06	0.001	0.001	4	<0.05	<0.05	<0.0001	<0.0001	23	<1	2	<0.001	<0.001	0.071	0.072	3.06	3.5	0.1	<1	<0.001	<0.001	6	0.251	0.265	0.032	0.033	3	3	95	4	82	<0.001	<0.001	0.073	0.027	
3/02/2015	10:45	ES1503350042	6.46	292	<0.01	0.28	<0.001	0.001	3	<0.05	<0.05	0.0001	<0.0001	24	<1	5	<0.001	<0.001	0.085	0.092	4.19	4.98	0.1	<1	<0.001	<0.001	7	0.312	0.34	0.038	0.042	3	3	115	3	89	<0.001	<0.001	0.088	0.03	
4/02/2015	10:30	ES1503350043	6.55	281	<0.01	0.05	<0.001	0.001	4	<0.05	<0.05	0.0001	0.0001	25	<1	2	<0.001	<0.001	0.076	0.079	3.66	4.06	0.1	<1	<0.001	<0.001	7	0.275	0.312	0.036	0.038	3	2	107	4	91	<0.001	<0.001	0.076	0.015	
5/02/2015	10:27	ES1503350044	6.42	279	<0.01	0.34	<0.001	0.001	4	<0.05	<0.05	<0.0001	<0.0001	26	<1	2	<0.001	<0.001	0.073	0.073	3.38	3.98	0.2	<1	<0.001	<0.001	7	0.25	0.297	0.036	0.035	3	3	115	4	94	<0.001	<0.001	0.078	0.025	
6/02/2015	9:10	ES1503350045	6.47	276	<0.01	0.16	<0.001	0.001	6	0.06	<0.05	<0.0001	<0.0001	25	<1	2	<0.001	<0.001	0.073	0.073	2.93	3.89	0.2	<1	<0.001	<0.001	7	0.246	0.281	0.034	0.035	3	4	112	6	91	<0.001	<0.001	0.104	0.016	
7/02/2015	8:00	EB1512720009	.	.	0.02	0.37	<0.001	0.001		<0.05	<0.05	<0.0001	<0.0001				<0.001	<0.001	0.061	0.068	3.01	3.5			<0.001	<0.001		0.216	0.277	0.028	0.035	.	.	.	.	.	<0.001	<0.001	0.075	0.026	
7/02/2015	0:00	ES1503350046	6.54	275	.	.	.	.	7	.	.	.	.	27	<1	3	.	.	.	.	.	.	<0.1	<1	.	.	10	.	.	.	.	.	5	3	112	7	108	.	.	.	.
8/02/2015	9:00	ES1503350047	6.42	278	<0.01	0.27	<0.001	0.001	5	<0.05	<0.05	<0.0001	<0.0001	25	<1	2	<0.001	<0.001	0.073	0.074	3.42	4.17	0.2	<1	<0.001	<0.001	7	0.256	0.287	0.034	0.034	3	3	115	5	91	<0.001	<0.001	0.068	0.011	
9/02/2015	8:55	EB1512720007	6.6	283	0.38	0.24	0.001	0.001	5	<0.05	<0.05	<0.0001	<0.0001	25	<1	2	<0.001	<0.001	0.13	0.068	4.08	3.62	0.2	<1	<0.001	<0.001	13	0.485	0.271	0.05	0.034	3	3	108	5	116	<0.001	<0.001	0.088	0.027	
10/02/2015	11:00	EB1512720008	6.5	285	<0.01	0.28	<0.001	0.001	4	<0.05	<0.05	<0.0001	<0.0001	28	<1	2	<0.001	<0.001	0.074	0.072	3.59	3.77	0.2	<1	<0.001	<0.001	12	0.262	0.299	0.031	0.034	4	3	111	4	119	<0.001	<0.001	0.084	0.032	
11/02/2015	10:00	EB1512720005	6.47	292	<0.01	0.25	<0.001	0.001	4	<0.05	<0.05	<0.0001	0.0001	29	<1	2	<0.001	<0.001	0.084	0.085	4.36	4.45	0.2	<1	<0.001	<0.001	12	0.297	0.335	0.036	0.041	4	3	114	4	122	<0.001	<0.001	0.083	0.031	

12/02/2015	11:25	EB1512971002	6.04	300	<0.01	0.31	<0.001	0.001	11	<0.05	<0.05	<0.0001	<0.0001	30	<1	3	<0.001	<0.001	0.078	0.08	3.72	4.23	0.1	<1	<0.001	<0.001	13	0.298	0.307	0.029	0.034	4	3	124	11	128	<0.001	<0.001	0.084	0.03
13/02/2015	11:30	EB1512971006	6.12	307	<0.01	0.26	<0.001	<0.001	10	<0.05	<0.05	<0.0001	<0.0001	29	<1	3	<0.001	<0.001	0.08	0.081	3.88	4.28	0.2	<1	<0.001	<0.001	13	0.307	0.31	0.028	0.034	4	3	124	10	126	<0.001	<0.001	0.089	0.03
14/02/2015	12:11	EB1512971010	6.1	303	<0.01	0.26	<0.001	<0.001	2	<0.05	<0.05	<0.0001	<0.0001	29	<1	3	<0.001	<0.001	0.079	0.083	3.88	4.43	0.1	<1	<0.001	<0.001	12	0.31	0.318	0.027	0.035	4	3	132	2	122	<0.001	<0.001	0.092	0.03
15/02/2015	13:00	EB1512968002	6.13	309	<0.01	0.14	<0.001	<0.001	<1	<0.05	<0.05	0.0001	0.0001	28	<1	3	<0.001	<0.001	0.079	0.081	3.38	4.2	0.1	<1	<0.001	<0.001	12	0.312	0.292	0.04	0.038	4	4	133	<1	119	<0.001	<0.001	0.078	0.034
16/02/2015	12:15	ES1504465003	5.19	352	0.25	0.36	<0.001	<0.001	<1	<0.05	<0.05	<0.0001	<0.0001	27	<1	3	<0.001	<0.001	0.005	0.091	0.008	4.51	0.3	<1	<0.001	<0.001	12	0.105	0.338	0.003	0.041	4	4	134	<1	117	<0.001	<0.001	0.035	0.055
17/02/2015	11:00	ES1504465007	5.43	360	0.08	0.34	<0.001	<0.001	<1	<0.05	<0.05	<0.0001	<0.0001	28	<1	3	<0.001	<0.001	0.1	0.097	4.44	4.78	<0.1	<1	<0.001	<0.001	12	0.356	0.356	0.042	0.042	3	3	132	<1	119	<0.001	<0.001	0.105	0.036
18/02/2015	11:45	ES1504465010	5.39	359	0.08	0.44	<0.001	<0.001	1	<0.05	<0.05	<0.0001	0.0001	27	<1	3	<0.001	<0.001	0.098	0.098	4.32	4.93	<0.1	<1	<0.001	<0.001	12	0.348	0.36	0.042	0.044	3	3	136	1	117	<0.001	<0.001	0.11	0.04
19/02/2015	11:30	ES1504465016	5.52	360	0.07	0.54	<0.001	<0.001	<1	<0.05	<0.05	<0.0001	0.0001	28	<1	3	<0.001	<0.001	0.104	0.098	4.61	4.93	0.1	<1	<0.001	<0.001	12	0.36	0.354	0.047	0.044	3	3	134	<1	119	<0.001	<0.001	0.115	0.041
20/02/2015	12:30	ES1504465021	5.24	360	0.09	0.32	<0.001	<0.001	<1	<0.05	<0.05	<0.0001	<0.0001	26	<1	3	<0.001	<0.001	0.1	0.097	4.46	4.74	<0.1	<1	<0.001	<0.001	11	0.332	0.354	0.042	0.042	3	2	125	<1	110	<0.001	<0.001	0.115	0.039
21/02/2015	11:45	ES1504465026	4.94	360	0.12	0.33	<0.001	<0.001	<1	0.05	<0.05	<0.0001	0.0001	30	<1	3	<0.001	<0.001	0.11	0.1	4.93	4.92	0.3	<1	<0.001	<0.001	13	0.378	0.364	0.048	0.045	3	3	137	<1	128	<0.001	<0.001	0.121	0.039
22/02/2015	17:15	ES1504465030	5.58	336	0.13	0.77	<0.001	0.001	<1	<0.05	<0.05	<0.0001	0.0001	28	<1	3	<0.001	<0.001	0.105	0.098	4.69	5.03	0.2	<1	<0.001	<0.001	12	0.36	0.362	0.044	0.044	3	3	134	<1	119	<0.001	<0.001	0.12	0.04
23/02/2015	12:20	ES1504465035	5.48	330	0.09	0.3	<0.001	<0.001	<1	<0.05	<0.05	<0.0001	<0.0001	27	<1	3	<0.001	<0.001	0.094	0.09	4.22	4.47	0.1	<1	<0.001	<0.001	13	0.326	0.329	0.041	0.04	4	4	132	<1	121	<0.001	<0.001	0.11	0.038
24/02/2015	12:45	EB1514207004	5.47	326	0.1	0.31	<0.001	<0.001	2	<0.05	<0.05	0.0001	<0.0001	28	<1	3	<0.001	<0.001	0.093	0.103	4.73	5.1	<0.1	<1	<0.001	<0.001	13	0.386	0.382	0.044	0.043	4	4	135	2	123	<0.001	<0.001	0.11	0.04
25/02/2015	12:30	EB1514207011	5.3	338	0.18	0.39	<0.001	<0.001	4	0.06	<0.05	0.0001	0.0001	30	<1	3	<0.001	<0.001	0.103	0.114	5.37	5.85	<0.1	<1	<0.001	<0.001	16	0.422	0.428	0.05	0.049	4	4	143	4	141	<0.001	<0.001	0.114	0.042
26/02/2015	12:05	EB1514204003	5.3	353	0.16	0.32	<0.001	<0.001	1	0.06	<0.05	0.0002	0.0002	34	<1	3	<0.001	<0.001	0.105	0.113	5.25	5.5	<0.1	<1	<0.001	<0.001	15	0.446	0.436	0.049	0.049	5	4	151	1	147	<0.001	<0.001	0.112	0.043
27/02/2015	16:05	EB1514208012	5.15	355	0.17	0.38	0.001	<0.001	1	0.07	<0.05	0.0002	0.0002	33	<1	3	<0.001	<0.001	0.114	0.125	5.91	6.36	<0.1	<1	<0.001	<0.001	15	0.472	0.476	0.056	0.053	5	4	148	1	144	<0.001	<0.001	0.155	0.051
28/02/2015	16:25	EB1514208010	5.29	373	0.17	0.58	<0.001	0.002	1	0.06	<0.05	0.0002	0.0002	36	<1	3	<0.001	<0.001	0.118	0.13	5.9	6.47	<0.1	<1	<0.001	<0.001	15	0.491	0.494	0.056	0.056	5	4	152	1	152	<0.001	<0.001	0.133	0.096
10/03/2015	12:45	EB1414660011	5.57	452	0.03	0.16	0.001	0.001	4	0.11	<0.05	0.0002	0.0002	48	<1	4	<0.001	0.002	0.158	0.14	6.34	6.56	0.5	<1	0.006	0.003	22	0.629	0.599	0.068	0.059	6	5	207	4	210	<0.001	<0.001	0.151	0.071
15/03/2015	15:55	EB1515041010	5.53	458	0.02	0.14	0.001	0.001	4	0.08	<0.05	0.0002	0.0002	42	<1	4	<0.001	<0.001	0.166	0.166	5.31	5.25	0.1	<1	<0.001	<0.001	21	0.777	0.783	0.07	0.068	7	5	208	4	191	<0.001	<0.001	0.143	0.073
19/03/2015	14:05	EB1515399002	5.65	510	<0.01	0.08	0.002	0.002	4	0.05	<0.05	0.0002	0.0002	45	<1	5	<0.001	<0.001	0.173	0.184	4.77	4.91	0.1	<1	<0.001	<0.001	23	1.03	0.956	0.063	0.069	7	6	214	4	207	<0.001	<0.001	0.146	0.076
4/01/2016	8:00	EB1600612018	5.44	662	0.1	0.12	0.002	0.002	4	<0.05	<0.05	0.0003	0.0003	64	<1	7	<0.001	<0.001	0.256	0.278	7.58	7.52	0.1	<1	<0.001	<0.001	33	1.27	1.25	0.101	0.109	8	6	316	4	296	<0.001	<0.001	0.105	0.11
3/02/2016	16:00	EB1602923013	5.86	473	<0.01	0.1	0.002	0.003	5	<0.05	<0.05	0.0002	0.0002	41	<1	4	<0.001	<0.001	0.123	0.126	3.09	3.25	0.1	<1	<0.001	0.036	23	0.703	0.736	0.067	0.071	7	4	190	5	197	<0.001	<0.001	0.076	0.081
15/03/2016	18:30	EB1607448011	5.05	449	0.2	0.54	0.002	0.004	2	<0.05	<0.05	0.0002	0.0002	44	<1	4	<0.001	<0.001	0.215	0.223	7.22	7.71	0.1	<1	<0.001	<0.001	24	0.91	0.982	0.088	0.092	6	3	196	2	209	<0.001	<0.001	0.082	0.09

Table 8- GS2 dataset

Date	Time	Sample #	pH (pH units)	Electrical Conductivity	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Bicarbonate	Dissolved B (mg/L)	Total B (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Calcium	Carbonate Alkalinity	Total Chloride	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Co (mg/L)	Total Co (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Total F (mg/L)	Hydroxide Alkalinity	Dissolved Pb (mg/L)	Total Pb (mg/L)	Dissolved Magnesium	Dissolved Mn (mg/L)	Total Mn (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Potassium	Dissolved Sodium	SO4 (mg/L)	Total Alkalinity	Total Hardness	Dissolved U (mg/L)	Total U (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)
1/03/2014	14:07	EB1405445012	7.97	144	0.07	3.34	<0.001	0.001	69	<0.05	0.05	<0.0001	<0.0001	10	<1	8	<0.001	0.005	0.002	0.005	0.048	0.037	0.1	<1	<0.001	0.003	6	0.023	0.252	0.001	0.006	4	12	5	69	50	<0.001	<0.001	0.009	0.025
2/03/2014	8:03	EB1405457008	7.81	132	0.05	2.46	<0.001	<0.001	56	<0.05	<0.05	<0.0001	<0.0001	9	<1	6	<0.001	0.003	<0.001	0.004	0.008	0.027	0.1	<1	<0.001	0.003	6	0.003	0.164	<0.001	0.004	3	11	4	56	47	<0.001	<0.001	0.005	0.013
3/03/2014	10:45	EB1405454002	7.81	104	0.07	2.54	<0.001	0.001	54	<0.05	<0.05	<0.0001	<0.0001	8	<1	6	<0.001	0.004	<0.001	0.003	0.008	0.03	<0.1	<1	<0.001	0.003	5	0.003	0.13	0.001	0.005	4	9	3	54	40	<0.001	<0.001	0.009	0.027
14/03/2014	12:45	EB1406752018	8.24	235	0.06	0.3	<0.001	<0.001	73	<0.05	<0.05	<0.0001	<0.0001	17	<1	8	<0.001	<0.001	<0.001	0.001	0.011	0.021	0.1	<1	<0.001	0.002	12	0.021	0.132	<0.001	0.001	4	12	39	73	92	<0.001	<0.001	0.005	0.026
18/03/2014	15:03	EB1406752005	8.3	257	0.05	0.54	0.001	0.001	72	<0.05	<0.05	<0.0001	<0.0001	20	2	8	<0.001	<0.001	<0.001	0.001	0.012	0.018	0.1	<1	0.004	0.001	14	0.013	0.149	<0.001	0.002	4	13	47	74	108	<0.001	<0.001	0.009	0.01
26/03/2014	14:54	EB1407372004	8.26	372	<0.01	0.4	<0.001	0.002	95	0.22	<0.05	<0.0001	<0.0001	28	<1	8	<0.001	<0.001	0.004	0.002	0.006	0.026	0.1	<1	<0.001	0.003	21	0.095	0.341	0.004	0.003	4	15	85	95	156	0.008	<0.001	0.008	0.009
1/04/2014	13:00	EB1408174001	8.27	329	<0.01	0.29	<0.001	<0.001	96	<0.05	<0.05	<0.0001	<0.0001	26	<1	10	<0.001	<0.001	<0.001	0.002	0.006	0.014	0.2	<1	<0.001	0.002		0.01	0.214	0.001	0.002	4	14	68	96	143	<0.001	<0.001	0.01	0.024
16/04/2014	16:18	EB1409659004	8.47	486	<0.01	0.29	0.002	0.002	102	0.06	<0.05	<0.0001	<0.0001	35	11	11	<0.001	<0.001	<0.001	0.002	0.006	0.015	0.2	<1	<0.001	0.001	28	0.006	0.215	0.001	0.002	5	16	112	113	203	<0.001	<0.001	0.028	0.016
23/04/2014	15:55	EB1409983004	8.26	472	<0.01	0.87	0.002	0.003	121	0.11	<0.05	<0.0001	<0.0001	35	<1	11	<0.001	0.002	0.002	0.005	0.016	0.046	0.2	<1	<0.001	0.002	27	0.02	0.337	0.001	0.004	5	17	102	121	198	<0.001	<0.001	0.012	0.016
12/05/2014	16:23	EB1411707009	8.65	504	<0.01	0.34	0.001	0.002	115	0.05	<0.05	<0.0001	<0.0001	35	18	13	<0.001	<0.001	<0.001	0.001	0.008	0.013	0.2	<1	<0.001	0.004	30	0.009	0.161	<0.001	0.002	6	17	110	133	211	<0.001	<0.001	0.01	0.008
10/06/2014	16:00	EB1414275007	8.51	595	<0.01	0.12	0.002	0.002	112	0.05	<0.05	<0.0001	<0.0001	38	17	13	<0.001	<0.001	<0.001	<0.001	0.01	0.011	0.2	<1	<0.001	<0.001	33	0.005	0.114	0.001	0.002	6	20	129	130	231	<0.001	<0.001	<0.005	<0.005
9/07/2014	15:45	EB1416720007	8.67	583	<0.01	0.05	0.001	0.002	102	<0.05	<0.05	<0.0001	<0.0001	36	25	13	<0.001	<0.001	<0.001	<0.001	0.009	0.01	0.2	<1	0.001	<0.001	38	0.004	0.057	0.001	0.001	7	22	143	127	246	<0.001	<0.001	<0.005	<0.005
18/08/2014	13:33	EB1441023007	9.22	555	<0.01	0.04	0.001	0.001	69	0.07	0.05	<0.0001	<0.0001	31	38	15	<0.001	<0.001	<0.001	<0.001	0.009	0.009	0.2	<1	<0.001	<0.001	42	0.004	0.088	0.001	<0.001	7	24	165	107	250	<0.001	<0.001	<0.005	<0.005
3/09/2014	15:43	EB1441916007	9.71	579	<0.01	0.06	0.001	0.001	33	<0.05	<0.05	<0.0001	<0.0001	29	80	16	<0.001	<0.001	<0.001	<0.001	0.01	0.011	0.2	<1	<0.001	<0.001	37	0.002	0.047	0.001	0.002	8	29	164	113	225	<0.001	<0.001	<0.005	0.008
15/10/2014	14:45	EB1444542054	9.23	676	<0.01	0.09	0.002	0.002	71	0.06	<0.05	<0.0001	<0.0001	31	38	21	<0.001	<0.001	<0.001	0.001	0.008	0.02	0.3	<1	<0.001	0.002	51	0.004	0.06	0.001	0.002	9	32	208	108	287	<0.001	<0.001	<0.005	0.009
9/11/2014	15:25	EB1421576017	9.34	739	<0.01	0.08	0.002	0.003	70	<0.05	0.08	<0.0001	<0.0001	35	58	23	<0.001	<0.001	0.002	0.002	0.006	0.015	0.3	<1	<0.001	<0.001	57	0.012	0.121	0.002	0.002	9	36	211	128	322	<0.001		<0.005	<0.005
30/11/2014	20:30	EB1447824004	7	1030	0.06	4.02	0.001	0.003	57	0.08	<0.05	<0.0001	<0.0001	71	<1	14	<0.001	0.005	0.028	0.04	0.018	0.052	0.2	<1	0.003	0.008	82	1.2	1.47	0.011	0.02	11	20	493	57	515	<0.001	<0.001	0.09	0.023
1/12/2014	12:15	EB1447824007	6.97	847	0.06	3.46	0.001	0.002	54	0.09	<0.05	<0.0001	<0.0001	60	<1	12	<0.001	0.004	0.021	0.032	0.016	0.045	0.1	<1	0.001	0.006	64	1.12	1.34	0.01	0.015	10	17	361	54	413	<0.001	<0.001	0.086	0.012
2/12/2014	13:10	EB1447824013	7.08	665	0.08	1.21	<0.001	0.001	46	0.07	<0.05	<0.0001	<0.0001	46	<1	10	<0.001	0.002	0.013	0.017	0.017	0.033	0.1	<1	0.003	0.003	46	0.675	0.779	0.005	0.009	8	13	264	46	304	<0.001	<0.001	0.062	<0.005
3/12/2014	13:50	EB1447824019	7.05	295	0.16	1.58	<0.001	0.001	28	0.07	<0.05	<0.0001	<0.0001	24	<1	4	<0.001	0.002	0.003	0.007	0.02	0.041	<0.1	<1	<0.001	0.003	16	0.166	0.258	0.001	0.006	5	5	101	28	126	<0.001	<0.001	0.056	<0.005
4/12/2014	17:40	EB1448526005	7.39	420	0.15	0.95	<0.001	0.001	39	<0.05	<0.05	<0.0001	<0.0001	30	<1	7	<0.001	0.001	0.007	0.008	0.013	0.023	<0.1	<1	<0.001	0.003	26	0.475	0.519	0.004	0.005	5	9	152	39	182	<0.001	<0.001	0.059	0.01

5/12/2014	16:30	EB1448526011	7.46	616	0.12	0.96	0.002	0.002	57	0.08	<0.05	<0.0001	<0.0001	40	<1	10	<0.001	0.001	0.016	0.018	0.018	0.024	0.1	<1	<0.001	0.002	39	1.14	1.23	0.005	0.008	6	13	218	57	260	<0.001	<0.001	0.079	0.008
6/12/2014	15:25	EB1448530005	7.56	605	0.09	0.62	0.001	0.002	58	<0.05	0.05	<0.0001	<0.0001	42	<1	10	<0.001	<0.001	0.013	0.015	0.014	0.019	0.1	<1	0.001	0.002	44	0.98	1.06	0.006	0.006	7	12	249	58	286	<0.001	<0.001	0.006	<0.005
7/12/2014	15:00	EB1448530011	7.72	440	0.04	1.78	0.001	0.001	54	<0.05	<0.05	<0.0001	<0.0001	32	<1	8	<0.001	0.003	0.007	0.012	0.009	0.022	0.2	<1	<0.001	0.003	27	0.732	0.864	0.004	0.006	6	9	152	54	191	<0.001	<0.001	<0.005	0.012
8/12/2014	16:08	EB1448532004	7.27	328	0.08	3.37	<0.001	0.002	57	0.09	<0.05	<0.0001	<0.0001	25	<1	6	<0.001	0.005	0.004	0.011	0.013	0.026	0.1	<1	<0.001	0.003	20	0.458	0.655	0.003	0.008	5	8	98	57	145	<0.001	<0.001	0.043	0.013
9/12/2014	17:30	EB1449028005	7.67	406	0.09	2.32	<0.001	0.002	60	<0.05	<0.05	<0.0001	<0.0001	28	<1	7	<0.001	0.003	0.005	0.009	0.018	0.021	0.1	<1	<0.001	0.002	23	0.559	0.742	0.003	0.004	4	9	122	60	165	<0.001	<0.001	<0.005	0.01
11/12/2014	16:56	EB1448532010	7.29	243	0.1	4.88	<0.001	0.002	54	0.12	<0.05	<0.0001	<0.0001	19	<1	5	<0.001	0.008	0.002	0.009	0.009	0.064	<0.1	<1	<0.001	0.004	13	0.29	0.502	0.003	0.009	4	8	59	54	101	<0.001	<0.001	0.048	0.037
20/12/2014	15:32	EB1449158005	7.93	541	0.04	0.62	<0.001	0.002	86	<0.05	<0.05	<0.0001	0.0003	33	<1	8	<0.001	0.001	0.003	0.008	0.006	0.019	0.1	<1	<0.001	0.093	38	0.619	0.943	0.003	0.006	7	12	167	86	239	<0.001	<0.001	<0.005	0.079
24/12/2014	21:15	EB1500007004	8.01	357	0.08	3.31	<0.001	0.004	72	<0.05	<0.05	<0.0001	<0.0001	26	<1	7	<0.001	0.004	0.007	0.018	0.008	0.138	0.2	<1	<0.001	0.004	20	0.713	1.14	0.003	0.01	5	7	88	72	147	<0.001	<0.001	<0.005	0.023
25/12/2014	16:35	EB1500007009	8.05	439	0.14	1.76	0.001	0.001	79	0.09	<0.05	<0.0001	<0.0001	31	<1	9	<0.001	0.002	0.003	0.007	0.013	0.024	0.1	<1	<0.001	0.002	26	0.524	0.78	0.003	0.007	5	14	118	79	184	<0.001	<0.001	0.038	0.01
26/12/2014	13:46	EB1500007015	7.98	287	0.09	2.51	<0.001	0.001	57	0.08	<0.05	<0.0001	<0.0001	24	<1	5	<0.001	0.003	0.002	0.006	0.009	0.025	<0.1	<1	<0.001	0.003	15	0.412	0.591	0.002	0.006	4	8	73	57	122	<0.001	<0.001	0.074	0.012
27/12/2014	13:56	EB1500007020	7.94	317	0.07	2.85	0.001	0.001	60	0.07	<0.05	<0.0001	<0.0001	26	<1	6	<0.001	0.004	0.002	0.006	0.008	0.026	<0.1	<1	<0.001	0.003	17	0.476	0.671	0.002	0.006	4	7	82	60	135	<0.001	<0.001	0.062	0.015
31/12/2014	14:31	EB1510624051	7.96	272	0.12	0.8	<0.001	<0.001	60	0.13	<0.05	<0.0001	<0.0001	22	<1	4	<0.001	<0.001	<0.001	0.005	0.008	0.016	<0.1	<1	<0.001	0.001	14	0.235	0.534	0.001	0.004	5	7	59	60	112	<0.001	<0.001	0.006	0.007
3/01/2015	17:00	EB1510624058	8.07	182	<0.01	0.13	<0.001	<0.001	83	0.06	<0.05	<0.0001	<0.0001	16	<1	4	<0.001	<0.001	<0.001	<0.001	0.005	0.008	0.1	<1	<0.001	<0.001	8	0.035	0.118	<0.001	<0.001	4	9	1	83	73	<0.001	<0.001	0.023	<0.005
4/01/2015	13:50	EB1510624063	8.09	185	<0.01	0.09	<0.001	0.001	85	0.07	<0.05	<0.0001	0.0002	17	<1	4	<0.001	<0.001	<0.001	<0.001	0.004	0.006	0.1	<1	<0.001	<0.001	8	0.002	0.072	<0.001	0.001	4	10	3	85	75	<0.001	<0.001	0.01	<0.005
5/01/2015	16:15	EB1510624068	8.13	184	<0.01	0.11	<0.001	<0.001	86	<0.05	<0.05	<0.0001	<0.0001	17	<1	4	<0.001	<0.001	<0.001	<0.001	0.006	0.008	0.1	<1	<0.001	<0.001	8	0.01	0.084	<0.001	0.001	4	9	2	86	75	<0.001	<0.001	0.015	<0.005
6/01/2015	14:20	EB1510624073	7.66	95	0.29	2.66	<0.001	<0.001	33	0.09	<0.05	<0.0001	<0.0001	8	<1	2	<0.001	0.003	0.001	0.007	0.025	0.07	<0.1	<1	<0.001	0.002	4	0.044	0.198	0.002	0.006	2	8	12	33	36	<0.001	<0.001	0.021	0.014
7/01/2015	19:20	EB1510624037	7.63	97	0.09	2.61	<0.001	0.001	33	<0.05	<0.05	<0.0001	<0.0001	7	<1	2	<0.001	0.003	0.001	0.012	0.05	0.17	<0.1	<1	<0.001	0.002	4	0.026	0.178	0.003	0.008	<1	2	5	33	34	<0.001	<0.001	0.033	0.015
8/01/2015	18:20	EB1510624025	7.67	120	0.18	1.34	<0.001	0.002	44	0.05	<0.05	<0.0001	<0.0001	11	<1	3	<0.001	0.002	0.003	0.039	0.096	0.152	<0.1	<1	<0.001	0.002	5	0.13	0.257	0.003	0.015	3	6	10	44	48	<0.001	<0.001	0.041	0.015
9/01/2015	17:45	EB1510624014	7.77	109	0.03	2.04	<0.001	<0.001	38	0.05	<0.05	<0.0001	<0.0001	8	<1	2	<0.001	0.002	<0.001	0.007	0.061	0.143	<0.1	<1	0.004	0.002	4	0.05	0.136	0.002	0.004	2	5	11	38	36	<0.001	<0.001	0.028	0.009
18/01/2015	8:29	EB1511336005	7.74	116	0.18	0.45	<0.001	<0.001	56	<0.05	<0.05	<0.0001	<0.0001	9	<1	3	<0.001	<0.001	<0.001	0.001	0.029	0.039	<0.1	<1	<0.001	<0.001	5	0.006	0.038	0.001	<0.001	3	6	5	56	43	<0.001	<0.001	0.027	<0.005
24/01/2015	13:40	EB1502325007	7.66	205	0.07	0.42	0.001	0.001	52	0.05	<0.05	<0.0001	<0.0001	15	<1	4	<0.001	<0.001	<0.001	0.003	0.017	0.043	<0.1	<1	0.002	0.003	10	0.25	0.46	0.001	0.003	3	9	40	52	79	<0.001	<0.001	0.014	0.013
31/01/2015	14:50	EB1502325019	7.58	169	0.08	0.27	0.001	0.001	43	<0.05	<0.05	<0.0001	<0.0001	13	<1	3	<0.001	<0.001	<0.001	0.003	0.053	0.103	0.2	<1	<0.001	<0.001	7	0.091	0.165	0.002	0.003	2	6	32	43	61	<0.001	<0.001	<0.005	0.015
6/02/2015	11:47	ES1503350053	7.83	222	0.01	0.27	0.001	0.002	51	<0.05	<0.05	<0.0001	<0.0001	16	<1	4	<0.001	<0.001	<0.001	<0.001	0.01	0.02	<0.1	<1	<0.001	<0.001	7	0.004	0.106	0.001	0.002	2	6	52	51	69	<0.001	<0.001	0.008	
11/02/2015	14:50	EB1512720001	7.76	258	<0.01	0.18	0.002	0.003	55	<0.05	<0.05	<0.0001	<0.0001	22	<1	4	<0.001	<0.001	<0.001	0.004	0.006	0.038	0.1	<1	<0.001	<0.001	13	0.091	0.258	<0.001	0.002	3	8	59	55	108	<0.001	<0.001	<0.005	<0.005
12/02/2015	11:45	EB1512971003	7.59	262	<0.01	0.09	0.002	0.002	70	<0.05	<0.05	<0.0001	<0.0001	21	<1	5	<0.001	<0.001	<0.001	<0.001	0.006	0.015	<0.1	<1	<0.001	<0.001	13	0.039	0.142	<0.001	<0.001	3	9	57	70	106	<0.001	<0.001	0.016	<0.005
13/02/2015	11:40	EB1512971007	7.62	271	<0.01	0.22	0.001	0.002	65	<0.05	<0.05	<0.0001	<0.0001	23	<1	5	<0.001	<0.001	<0.001	0.002	0.007	0.031	0.1	<1	<0.001	<0.001	14	0.034	0.186	<0.001	0.002	4	8	70	65	115	<0.001	<0.001	0.02	<0.005
14/02/2015	12:21	EB1512971011	7.67	274	<0.01	0.2	0.001	0.002	69	<0.05	<0.05	<0.0001	<0.0001	23	<1	5	<0.001	<0.001	<0.001	<0.001	0.006	0.018	<0.1	<1	<0.001	<0.001	14	0.016	0.137	<0.001	<0.001	4	7	64	69	115	<0.001	<0.001	0.01	<0.005
15/02/2015	13:20	EB1512968003	7.64	280	<0.01	0.12	0.001	0.002	72	<0.05	<0.05	<0.0001	<0.0001	24	<1	5	<0.001	<0.001	<0.001	0.001	0.005	0.026	0.1	<1	<0.001	<0.001	15	0.038	0.185	<0.001	<0.001	4	9	70	72	122	<0.001	<0.001	0.011	<0.005
16/02/2015	12:30	ES1504465004	7.77	317	0.02	0.27	0.002	0.002	55	<0.05	<0.05	<0.0001	<0.0001	25	<1	5	<0.001	<0.001	<0.001	0.002	0.009	0.028	<0.1	<1	<0.001	<0.001	14	0.014	0.174	0.002	0.002	3	8	71	55	120	<0.001	<0.001	0.019	<0.005
17/02/2015	11:10	ES1504465008	7.7	323	<0.01	0.44	0.001	0.002	65	<0.05	<0.05	<0.0001	<0.0001	23	<1	5	<0.001	<0.001	<0.001	0.002	0.004	0.024	<0.1	<1	<0.001	<0.001	13	0.041	0.274	0.001	0.002	3	7	73	65	111	<0.001	<0.001	0.03	<0.005
18/02/2015	12:00	ES1504465011	7.73	328	<0.01	0.68	0.001	0.002	53	<0.05	<0.05	<0.0001	<0.0001	26	<1	5																								

2/09/2015	11:16	EB1528021005	9.35	503	<0.01	0.07	<0.001	<0.001	28	<0.05	<0.05	<0.0001	<0.0001	58	15	4	<0.001	<0.001	<0.001	<0.001	0.008	0.01	0.2	<1	<0.001	<0.001	26	0.003	0.04	<0.001	0.001	8	7	196	44	252	<0.001	<0.001	<0.005	<0.005
5/10/2015	8:42	EB1530774003	9.11	650	<0.01	0.06	<0.001	<0.001	54	<0.05	<0.05	<0.0001	<0.0001	67	<1	5	<0.001	<0.001	<0.001	<0.001	0.006	0.009	0.2	<1	<0.001	0.001	26	0.026	0.066	<0.001	<0.001	6	7	233	54	274	<0.001	0.001	<0.005	<0.005
1/11/2015	15:42	EB1533667009	8.9	708	<0.01	0.05	0.001	0.002	42	0.05	<0.05	<0.0001	<0.0001	75	10	6	<0.001	<0.001	<0.001	<0.001	0.006	0.008	0.3	<1	<0.001	<0.001	27	0.008	0.08	0.001	0.001	7	7	272	52	298	<0.001	<0.001	<0.005	<0.005
6/12/2015	13:32	EB1537426006	8.32	741	<0.01	0.04	0.001	0.001	81	<0.05	<0.05	<0.0001	<0.0001	78	3	7	<0.001	<0.001	<0.001	<0.001	0.005	0.007	0.3	<1	<0.001	<0.001	39	0.03	0.073	<0.001	0.003	9	11	288	84	355	<0.001	<0.001	<0.005	<0.005
18/12/2015	14:45	EB1538500005	7.15	1198	0.04	1.04	0.001	0.002	64	0.07	0.06	<0.0001	<0.0001	86	<1	16	<0.001	0.001	0.03	0.035	0.018	0.031	0.2	<1	0.001	0.002	103	1.24	1.34	0.016	0.019	10	23	575	64	639	<0.001	<0.001	0.05	0.011
25/12/2015	15:40	EB1600612005	7.69	953	0.3	0.81	<0.001	<0.001	56	<0.05	<0.05	<0.0001	<0.0001	15	<1	4	<0.001	<0.001	0.007	0.009	0.008	0.014	<0.1	<1	<0.001	0.004	9	0.385	0.421	0.005	0.007	3	6	38	56	74	<0.001	<0.001	0.02	0.005
3/01/2016	15:00	EB1600612011	9.01	429	0.09	0.63	<0.001	0.001	58	<0.05	<0.05	<0.0001	<0.0001	27	<1	6	<0.001	<0.001	<0.001	0.003	0.01	0.021	<0.1	<1	<0.001	0.002	24	0.114	0.265	0.003	0.004	4	8	127	58	166	<0.001	<0.001	<0.005	<0.005
10/01/2016	17:24	EB1601125033	8.17	648	<0.01	0.18	0.001	0.001		<0.05	<0.05	<0.0001	<0.0001	37			<0.001	<0.001	<0.001	0.001	0.01	0.019			<0.001	<0.001	36	0.06	0.188	0.003	0.003	5	10			241	<0.001	<0.001	0.008	<0.005
14/01/2016	17:13	EB1601748004	8.02	654	<0.01	0.07	0.001	0.002	72	<0.05	0.06	<0.0001	<0.0001	49	<1	9	<0.001	<0.001	<0.001	0.001	0.008	0.012	0.2	<1	<0.001	<0.001	46	0.029	0.158	0.003	0.003	6	13	247	72	312	<0.001	<0.001	<0.005	0.024
20/01/2016	15:17	EB1601748009	8.02	438	0.04	0.24	<0.001	0.001	58	<0.05	<0.05	<0.0001	<0.0001	27	<1	6	<0.001	<0.001	<0.001	0.001	0.007	0.013	0.1	<1	<0.001	<0.001	22	0.012	0.18	0.002	0.002	4	8	109	58	158	<0.001	<0.001	<0.005	<0.005
27/01/2016	15:20	EB1602923004	7.83	432	<0.01	0.06	0.002	0.002	70	<0.05	<0.05	<0.0001	<0.0001	30	<1	7	<0.001	<0.001	<0.001	<0.001	0.006	0.008	0.1	<1	<0.001	<0.001	28	0.022	0.146	0.002	0.002	5	9	125	70	190	<0.001	<0.001	<0.005	<0.005
3/02/2016	14:59	EB1602923011	7.63	142	0.03	0.31	<0.001	<0.001	66	<0.05	<0.05	<0.0001	<0.0001	12	<1	3	<0.001	<0.001	<0.001	0.001	0.007	0.012	<0.1	<1	<0.001	0.002	7	0.007	0.116	<0.001	0.001	3	5	5	66	59	<0.001	<0.001	<0.005	<0.005
10/02/2016	15:10	EB1603608005	8.23	133	0.16	1.06	<0.001	<0.001	48	<0.05	<0.05	<0.0001	<0.0001	10	<1	3	<0.001	0.001	<0.001	0.002	0.007	0.015	<0.1	<1	<0.001	0.001	6	0.032	0.162	<0.001	0.002	3	4	15	48	50	<0.001	<0.001	<0.005	<0.005
18/02/2016	13:40	EB1605117009	8.29	160	0.04	0.42	0.001	0.001	56	<0.05	<0.05	<0.0001	<0.0001	12	<1	3	<0.001	<0.001	<0.001	0.001	0.007	0.009	<0.1	<1	<0.001	<0.001	7	0.041	0.246	<0.001	0.002	3	4	20	56	59	<0.001	<0.001	<0.005	<0.005
24/02/2016	8:20	EB1605117014	7.55	165	0.02	0.32	0.001	0.002	61	<0.05	<0.05	<0.0001	<0.0001	14	<1	3	<0.001	<0.001	<0.001	0.001	0.007	0.011	<0.1	<1	<0.001	<0.001	8	0.018	0.249	0.008	0.002	3	4	21	61	68	<0.001	<0.001	<0.005	<0.005
2/03/2016	15:08	EB1605973007	8.11	218	<0.01	0.15	0.001	0.001	74	<0.05	<0.05	<0.0001	<0.0001	20	<1	4	<0.001	<0.001	<0.001	0.001	0.004	0.008	0.1	<1	<0.001	<0.001	11	0.011	0.303	<0.001	0.001	5	5	32	74	95	<0.001	<0.001	<0.005	0.01
10/03/2016	8:30	EB1606983004	7.64	155	<0.01	0.2	<0.001	0.001	71	<0.05	<0.05	<0.0001	<0.0001	12	<1	3	<0.001	<0.001	<0.001	<0.001	0.006	0.013	<0.1	<1	<0.001	<0.001	7	0.002	0.159	<0.001	0.001	3	5	6	71	59	<0.001	<0.001	<0.005	<0.005
15/03/2016	18:00	EB1607448009	7.83	130	<0.01	0.13	<0.001	<0.001	66	<0.05	<0.05	<0.0001	<0.0001	12	<1	3	<0.001	<0.001	<0.001	<0.001	0.005	0.012	<0.1	<1	<0.001	<0.001	5	0.003	0.132	<0.001	0.001	3	4	<1	66	50	<0.001	<0.001	<0.005	0.006
22/03/2016	15:26	EB1608314004	8.01	138	<0.01	0.42	<0.001	0.001	70	<0.05	<0.05	<0.0001	<0.0001	14	<1	3	<0.001	<0.001	<0.001	0.001	0.005	0.012	<0.1	<1	<0.001	<0.001	7	0.023	0.238	<0.001	<0.001	4	4	8	70	64	<0.001	<0.001	<0.005	<0.005
30/03/2016	13:20	EB1609424004	8.41	172.5	0.01	0.28	<0.001	0.001	73	<0.05	<0.05	<0.0001	<0.0001	16	<1	3	<0.001	<0.001	<0.001	0.001	0.004	0.012	<0.1	<1	<0.001	<0.001	8	0.004	0.191	<0.001	0.001	4	6	12	73	73	<0.001	<0.001	<0.005	0.006
6/04/2016	15:05	EB1609424041	7.5	181.6	0.01	0.13	0.001	0.001		<0.05	<0.05	<0.0001	<0.0001	16		7	<0.001	<0.001	<0.001	<0.001	0.003	0.008			<0.001	<0.001	9	0.005	0.175	<0.001	<0.001	4	6	22		77	<0.001	<0.001	<0.005	<0.005
14/04/2016	16:10	EB1611286004	8.32	196.3	0.01	0.11	<0.001	<0.001	71	<0.05	<0.05	<0.0001	<0.0001	22	<1	6	<0.001	<0.001	<0.001	<0.001	0.002	0.005	0.1	<1	<0.001	<0.001	17	0.004	0.028	0.001	0.002	4	7	71	71	125	<0.001	<0.001	<0.005	0.007
3/05/2016	16:31	EB1611883007	8.54	216.8	0.01	0.58	0.001	0.002	82	<0.05	<0.05	<0.0001	<0.0001	17	3	4	<0.001	<0.001	<0.001	0.002	0.004	0.014	0.1	<1	<0.001	<0.001	10	0.002	0.242	<0.001	0.002	4	6	19	84	84	<0.001	<0.001	<0.005	<0.005

Appendix B

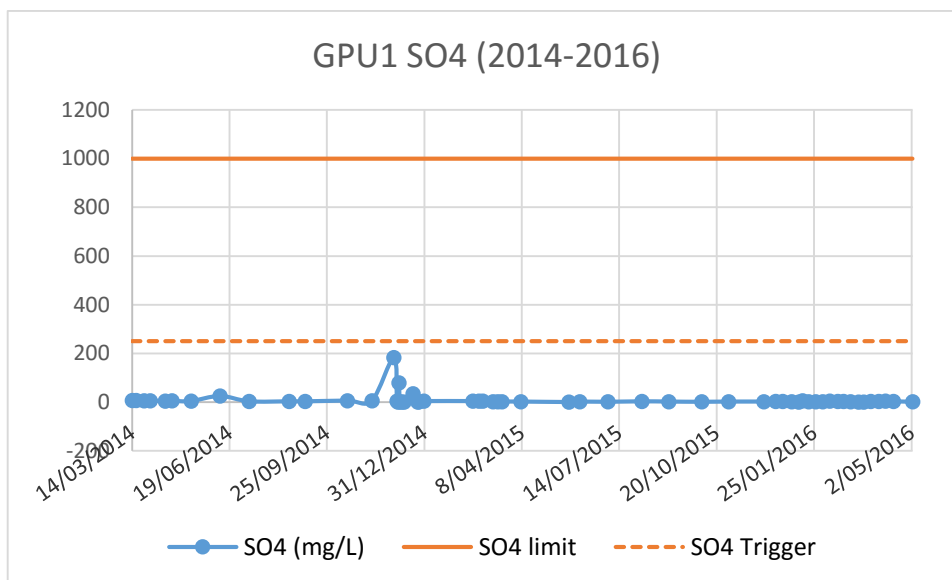


Figure 1- Sulphate at GPU1 during the period of TEP

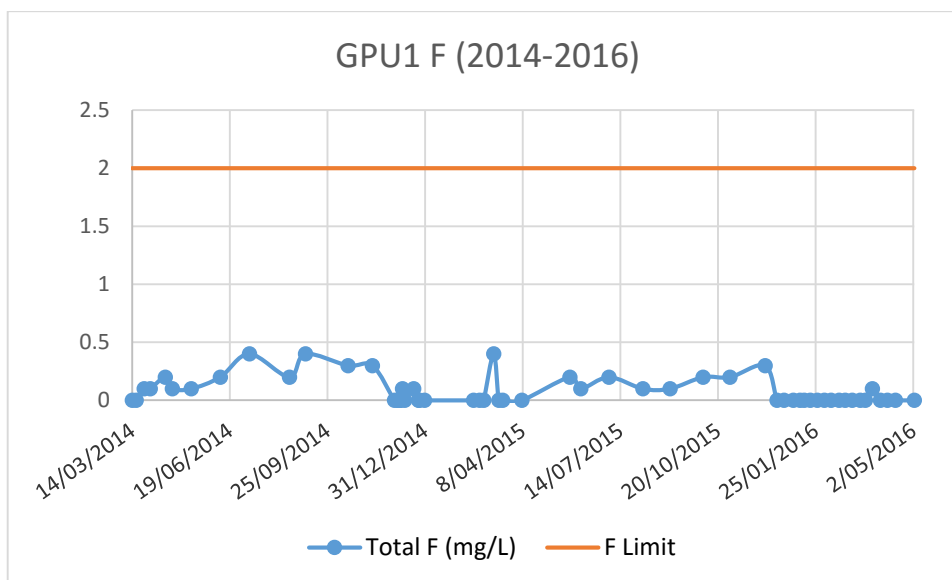


Figure 2 Fluoride at GPU1 during the period of TEP

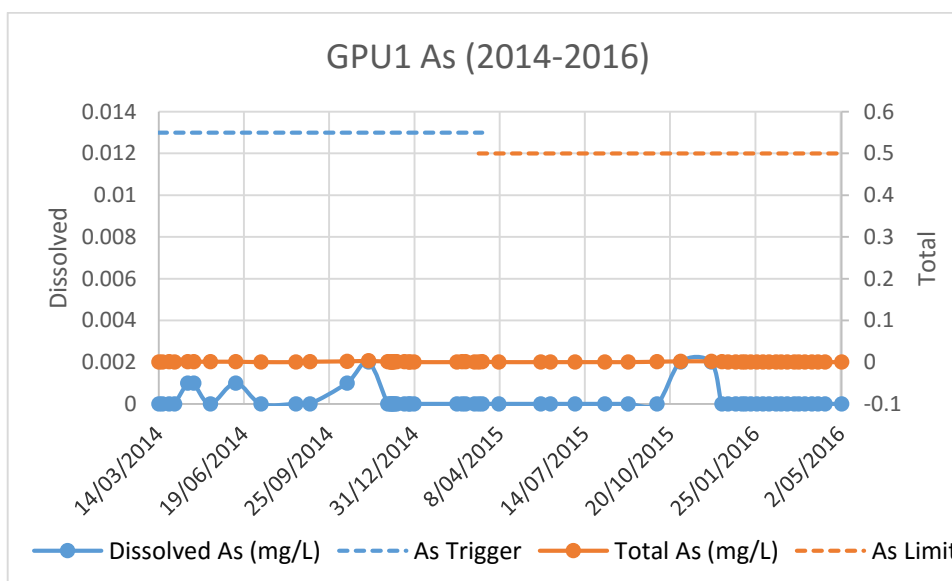


Figure 3- Arsenic at GPU1 during the period of TEP

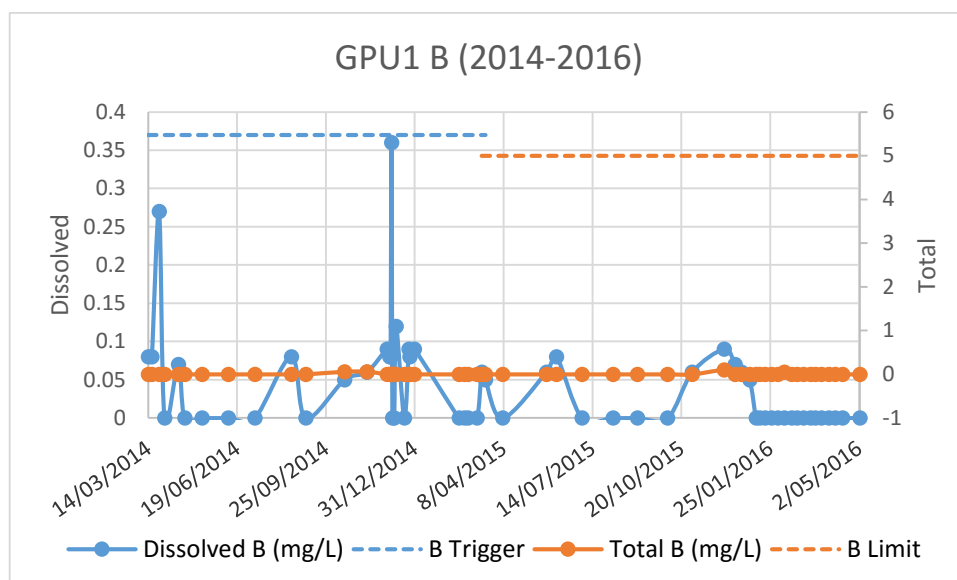


Figure 4- Boron at GPU1 during the period of TEP

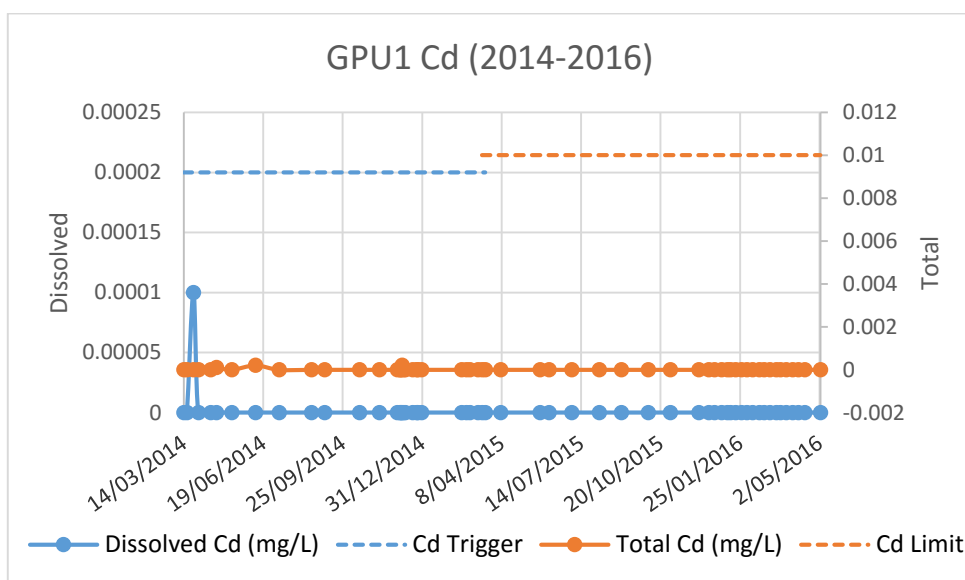


Figure 5- Cadmium at GPU1 during the period of TEP

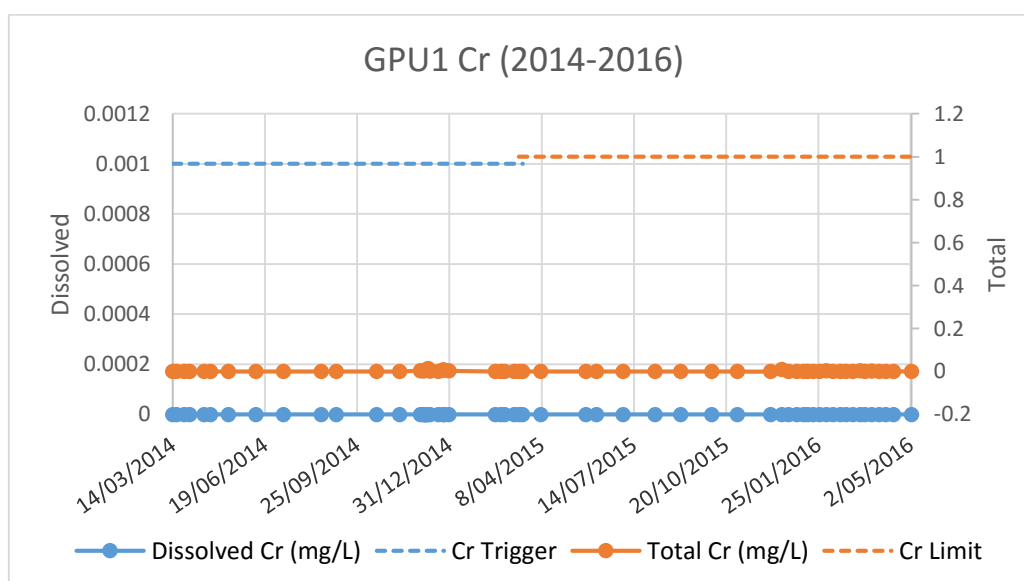


Figure 6- Chromium at GPU1 during the period of TEP

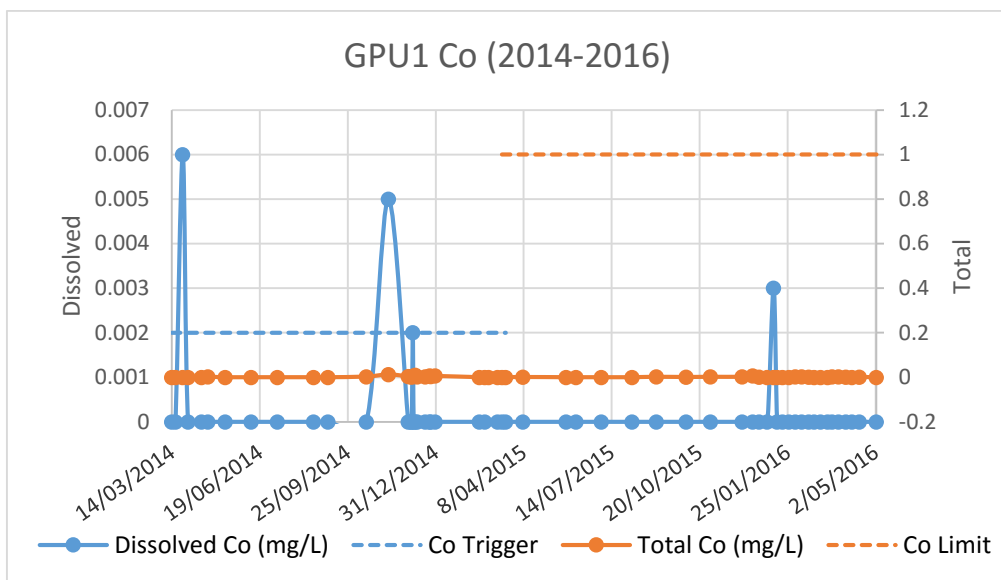


Figure 7- Cobalt at GPU1 during the period of TEP

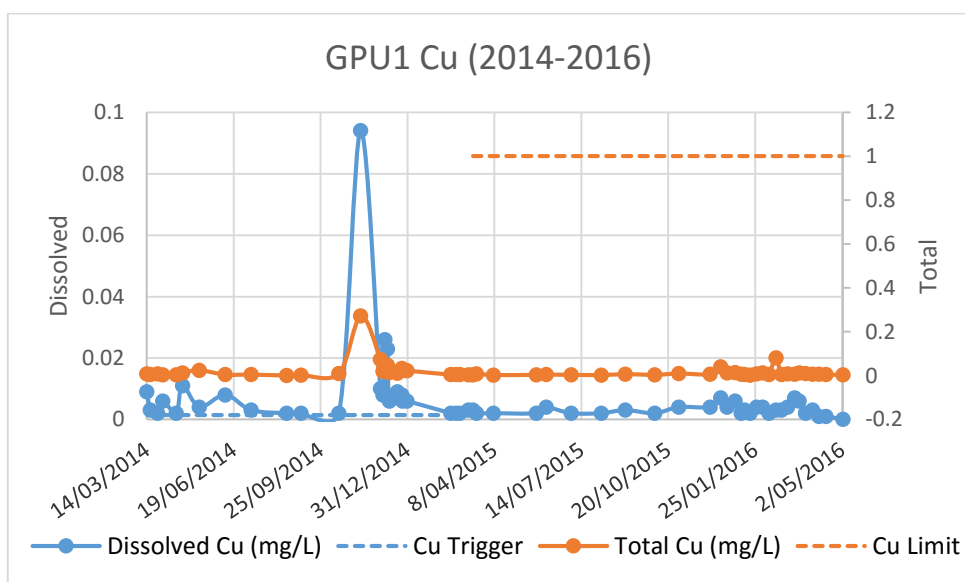


Figure 8- Copper at GPU1 during the period of TEP

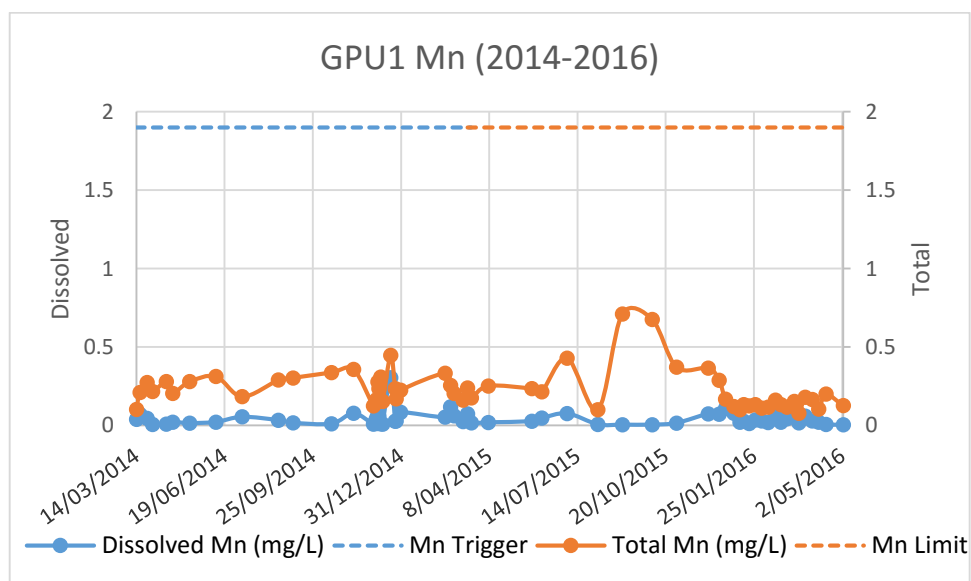


Figure 9- Manganese at GPU1 during the period of TEP

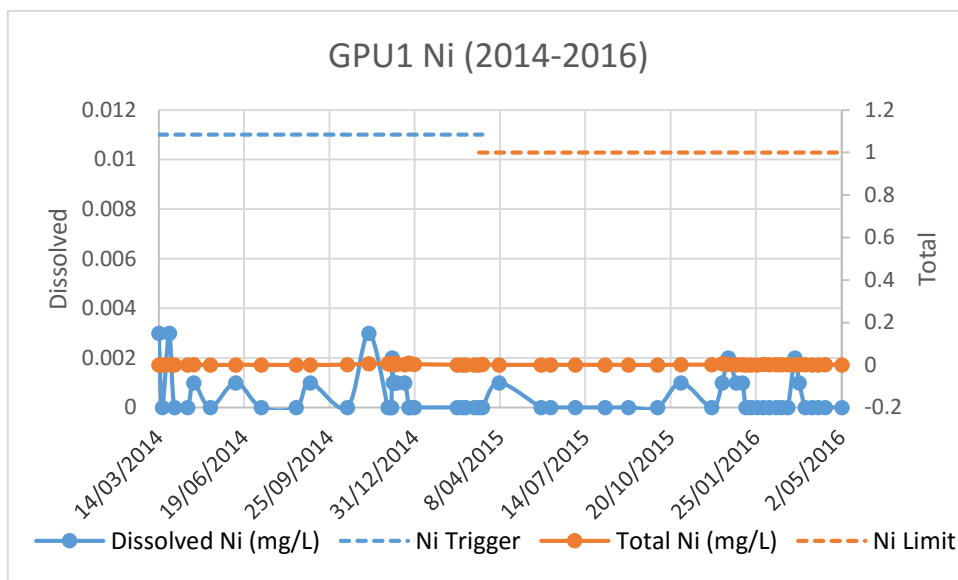


Figure 10- Nickel at GPU1 during the period of TEP

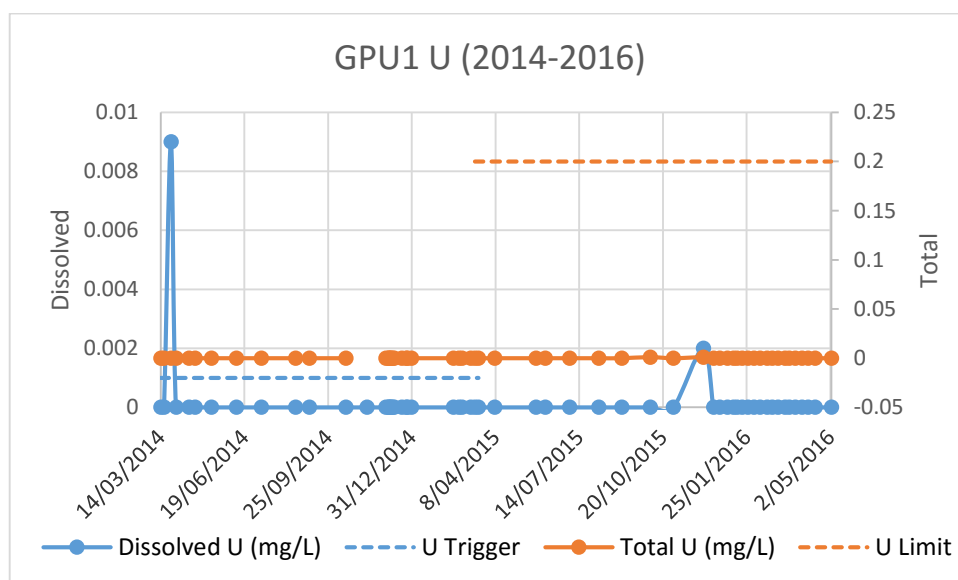


Figure 11- Uranium at GPU1 during the period of TEP

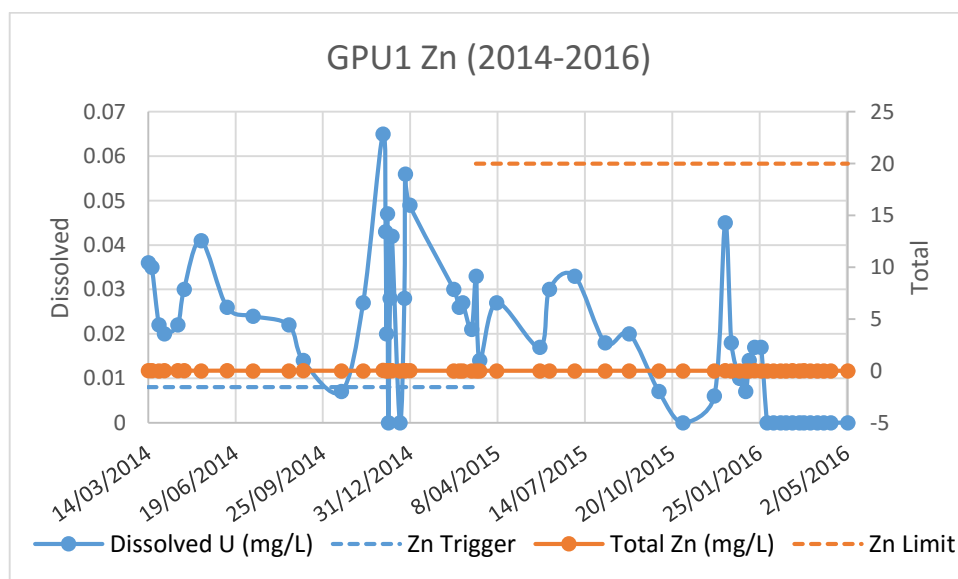


Figure 12- Zinc at GPU1 during the period of TEP

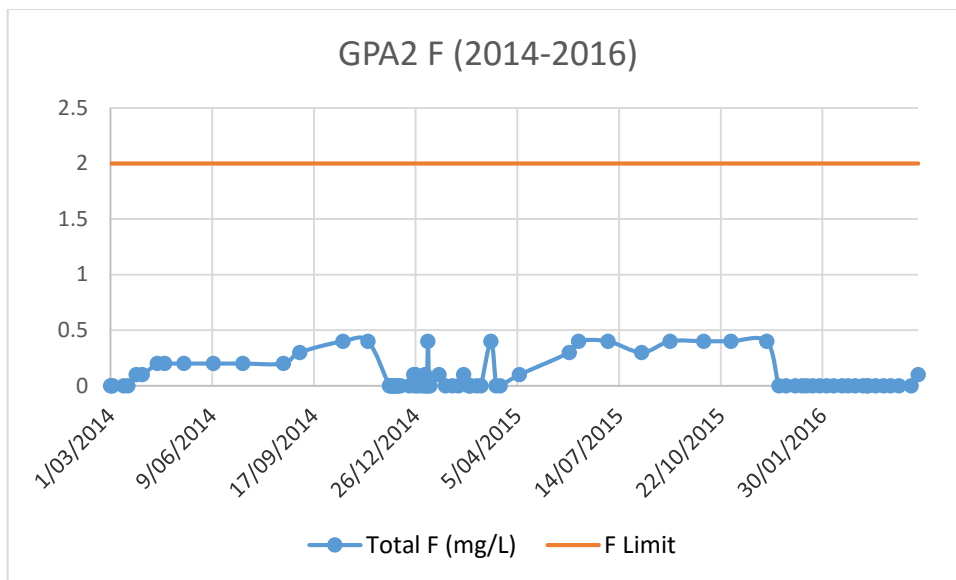


Figure 13- Fluoride at GPA2 during the period of TEP

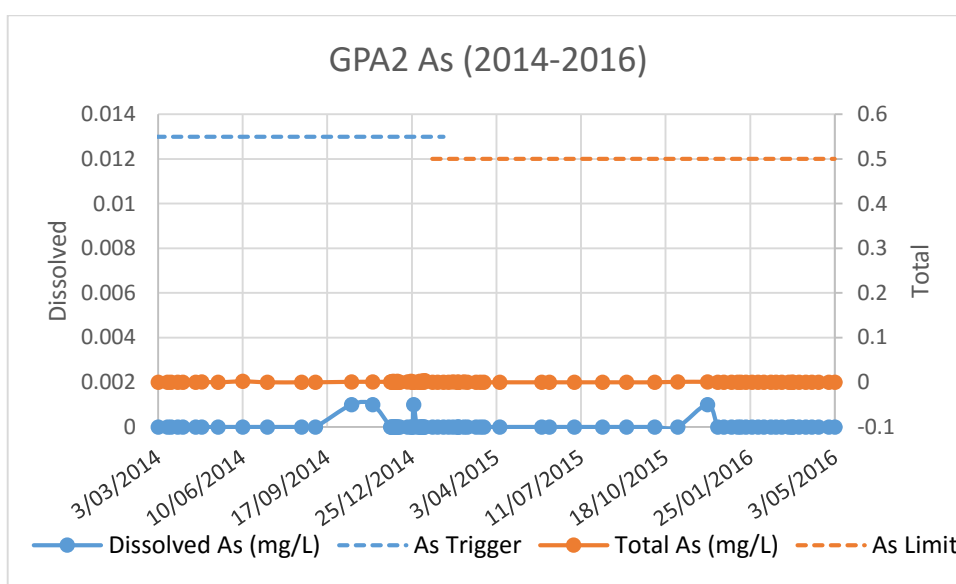


Figure 14- Arsenic at GPA2 during the period of TEP

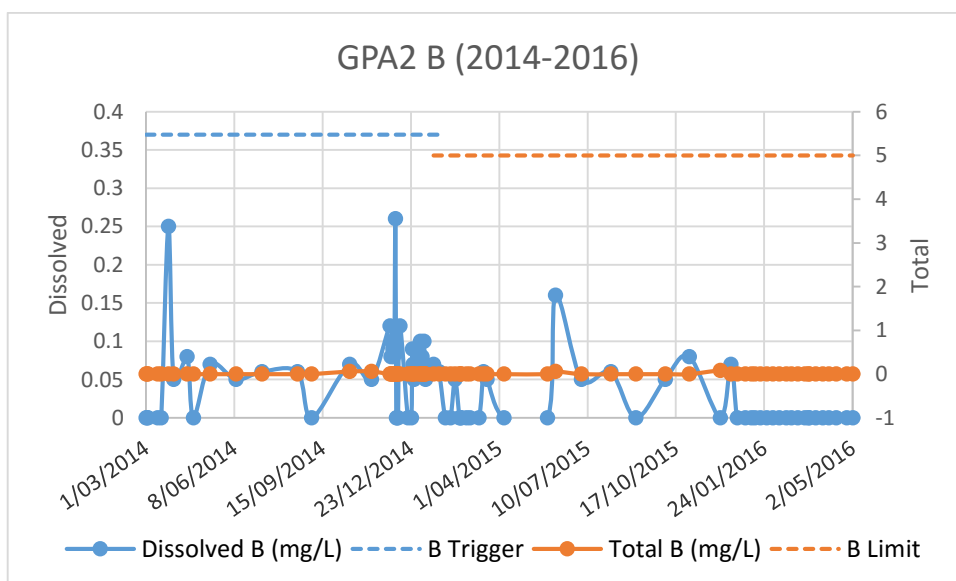


Figure 15- Boron at GPA2 during the period of TEP

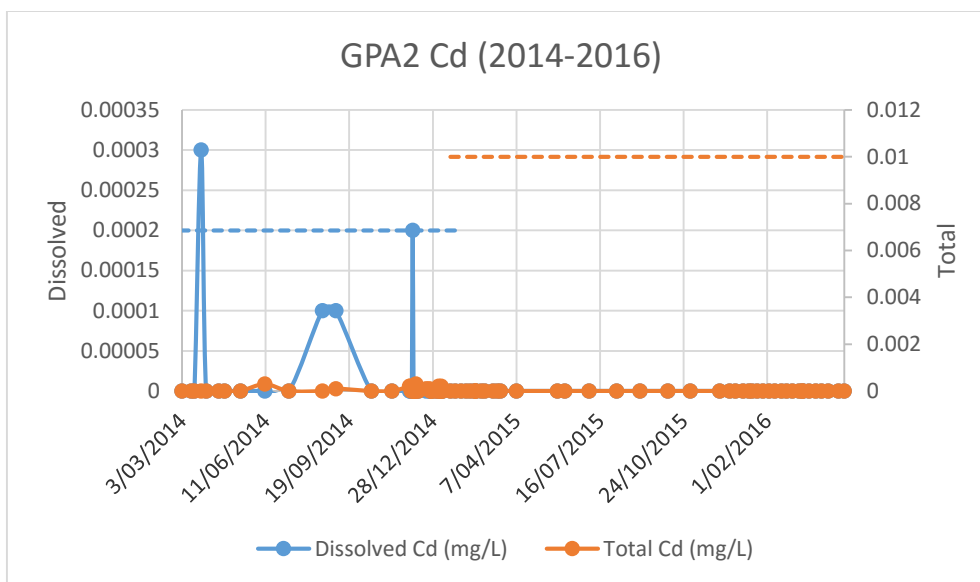


Figure 16- Cadmium at GPA2 during the period of TEP

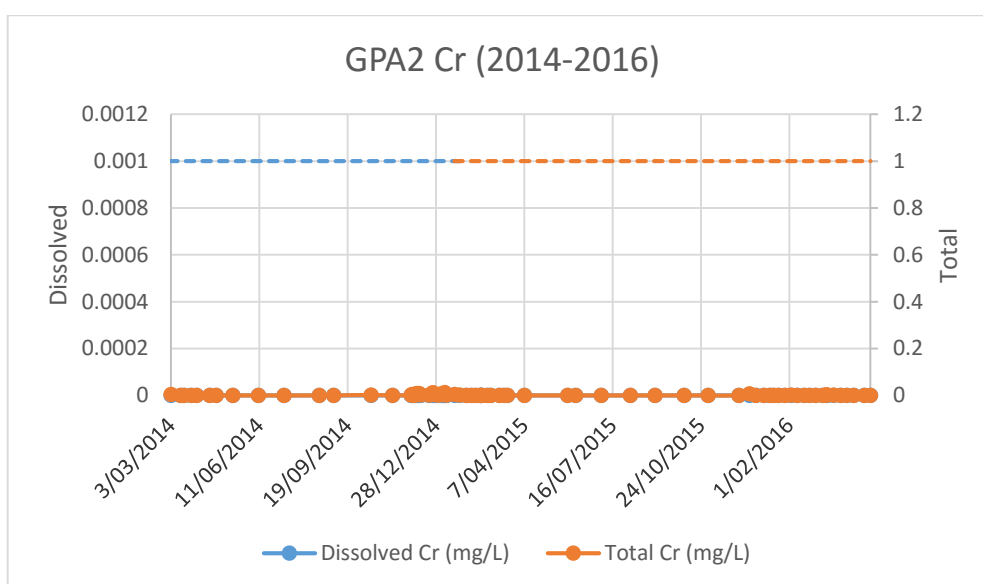


Figure 17-Chromium at GPA2 during the period of TEP

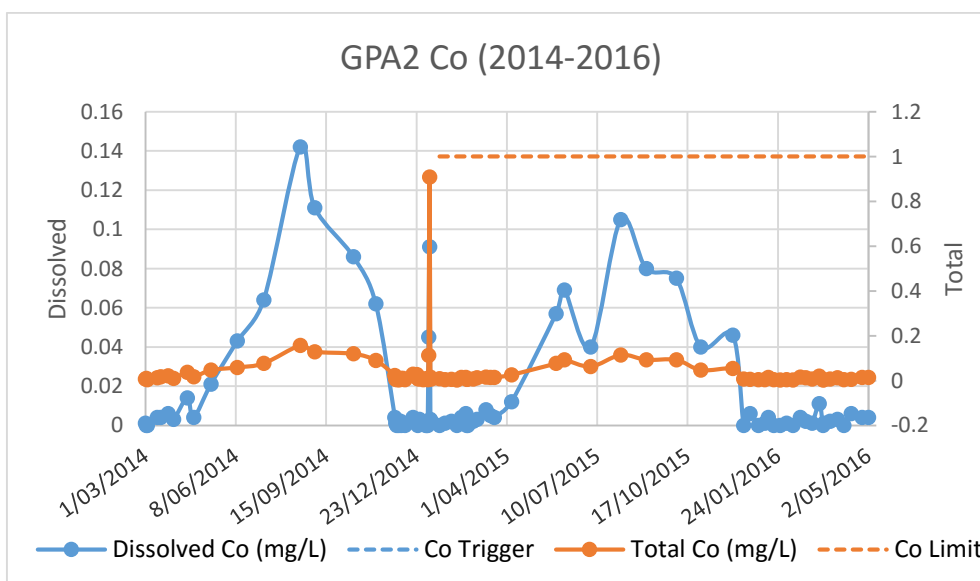


Figure 18- Cobalt at GPA2 during the period of TEP

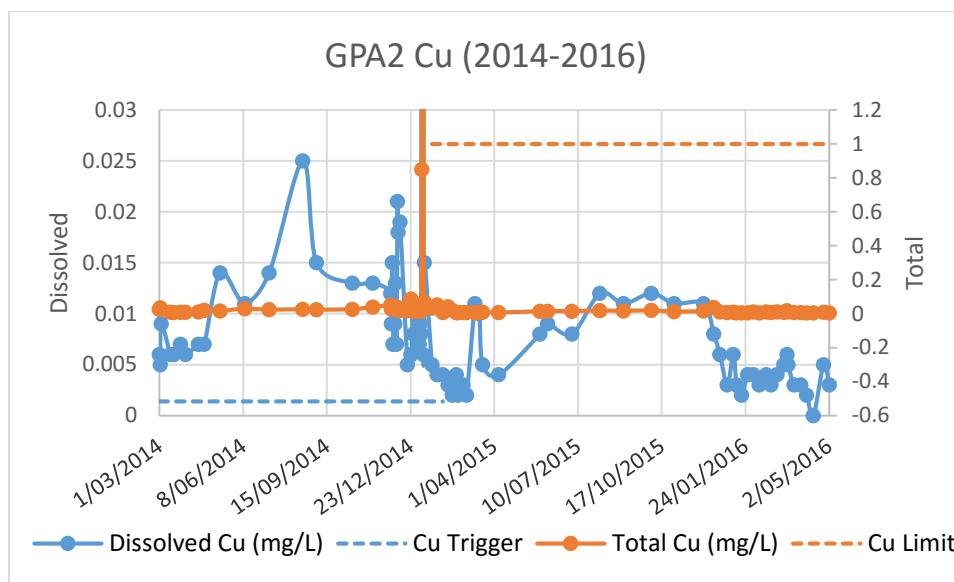


Figure 19- Copper at GPA2 during the period of TEP

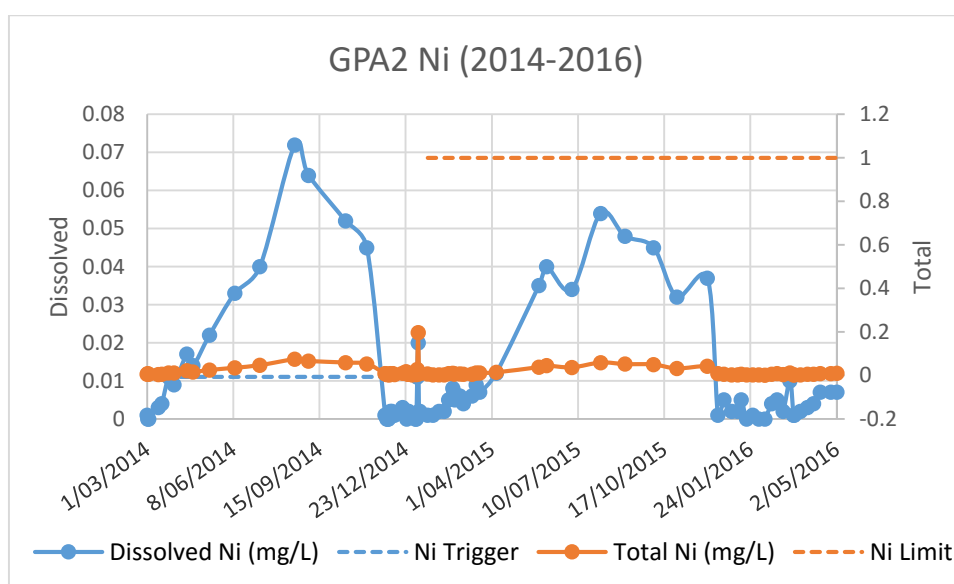


Figure 20- Nickel at GPA2 during the period of TEP

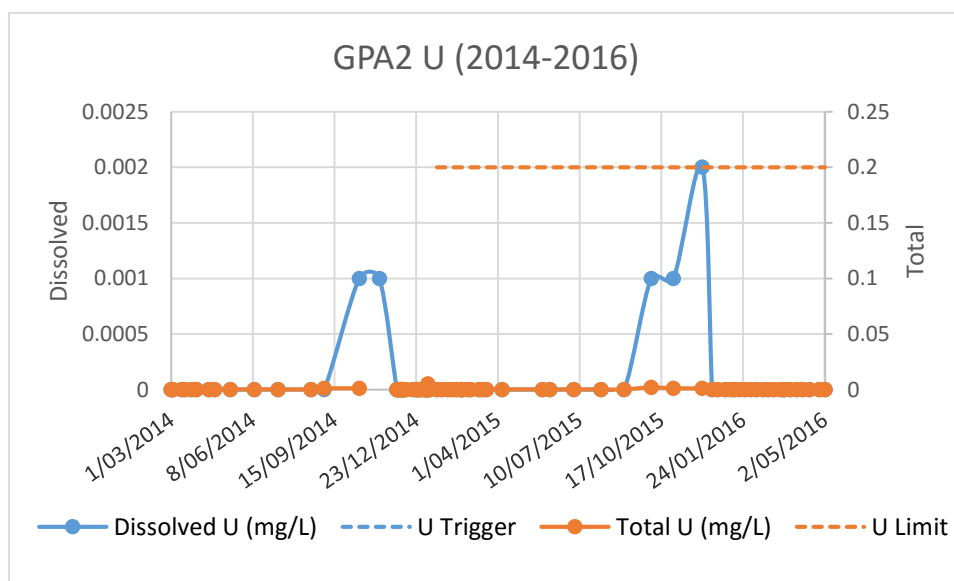


Figure 21- Uranium at GPA2 during the period of TEP

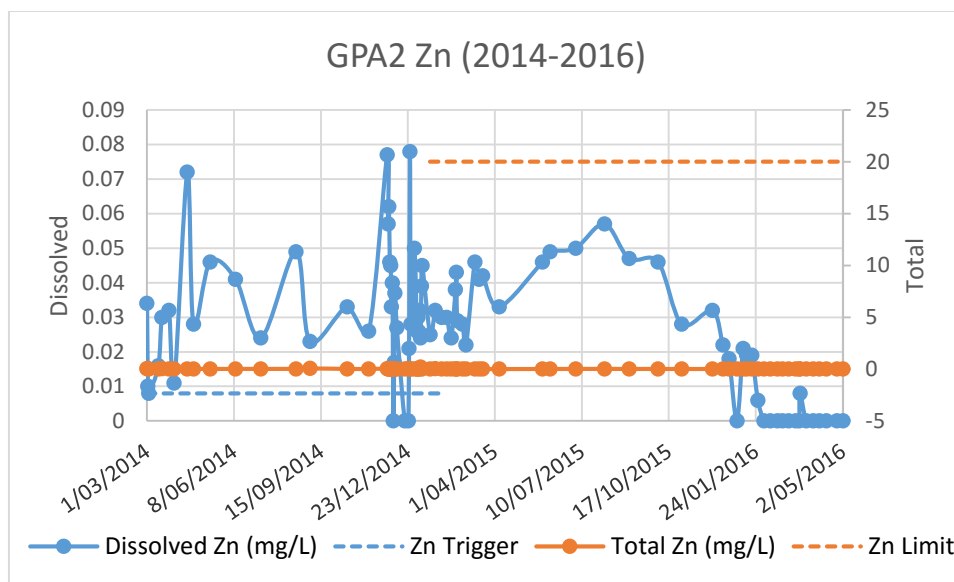


Figure 22 Zinc at GPA2 during the period of TEP

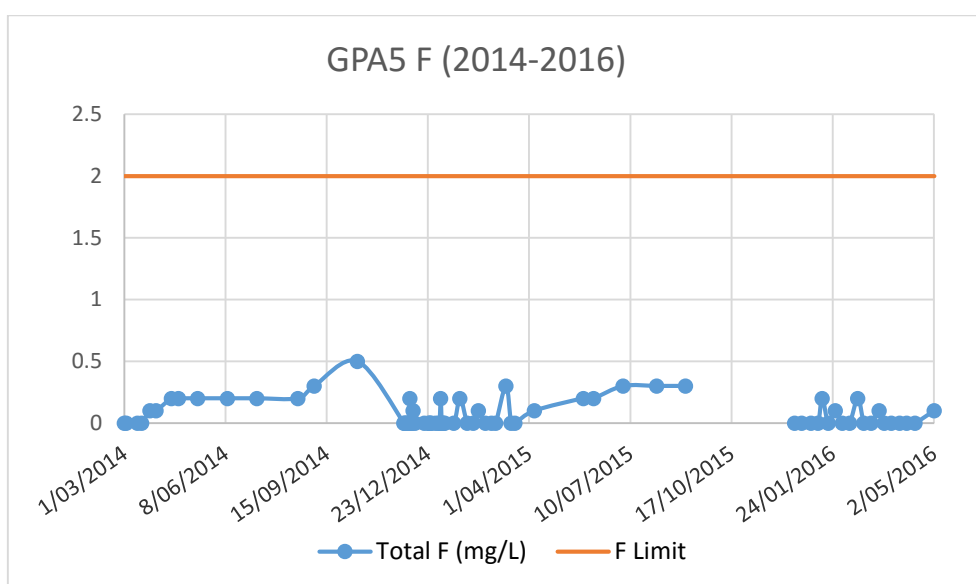


Figure 23- Fluoride at GPA5 during the period of TEP

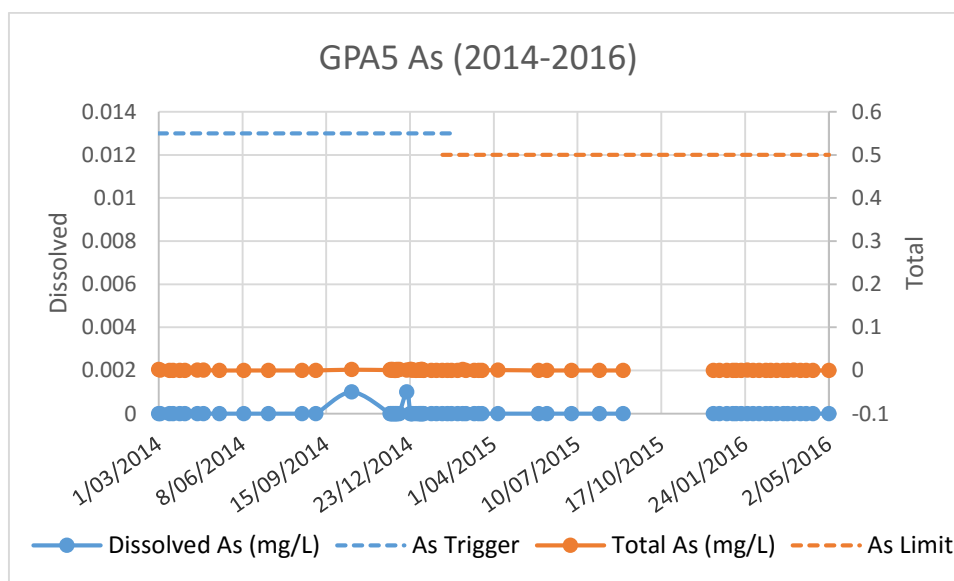


Figure 24- Arsenic Fluoride at GPA5 during the period of TEP

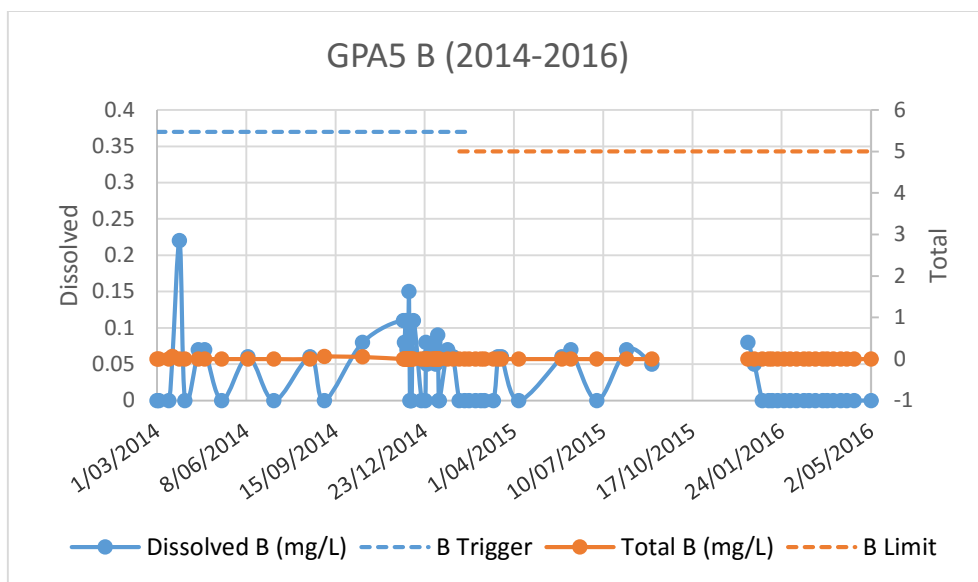


Figure 25- Boron Fluoride at GPA5 during the period of TEP

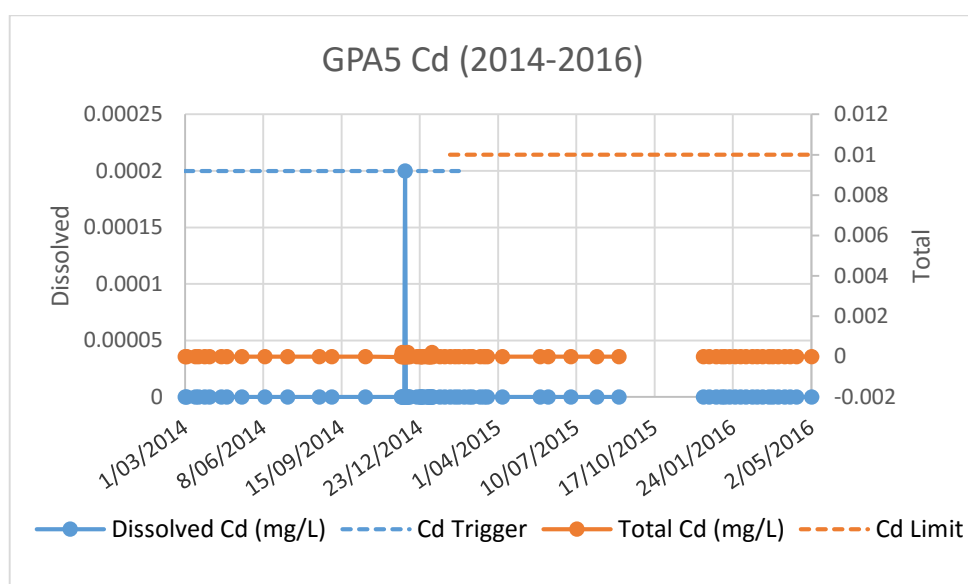


Figure 26- Cadmium at GPA5 during the period of TEP

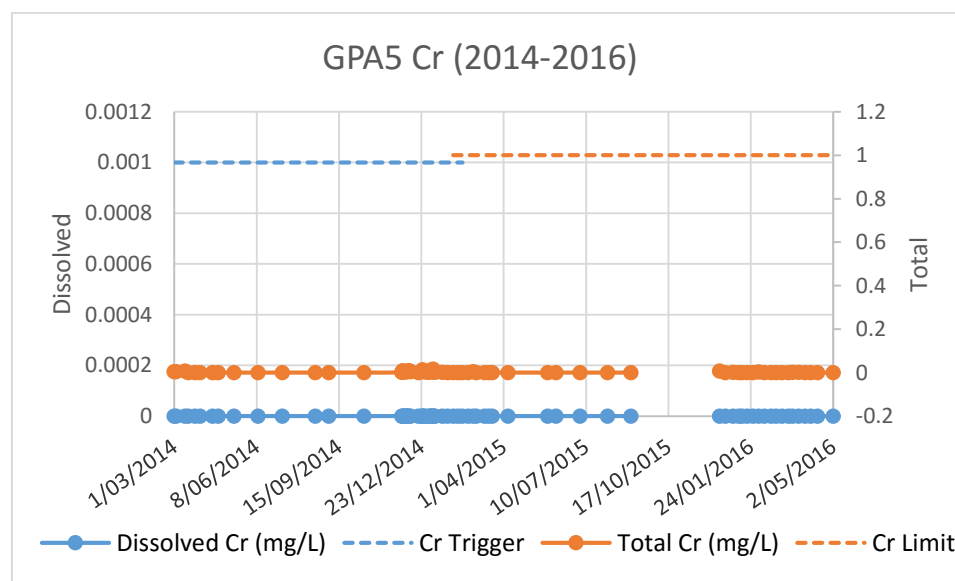


Figure 27- Chromium at GPA5 during the period of TEP

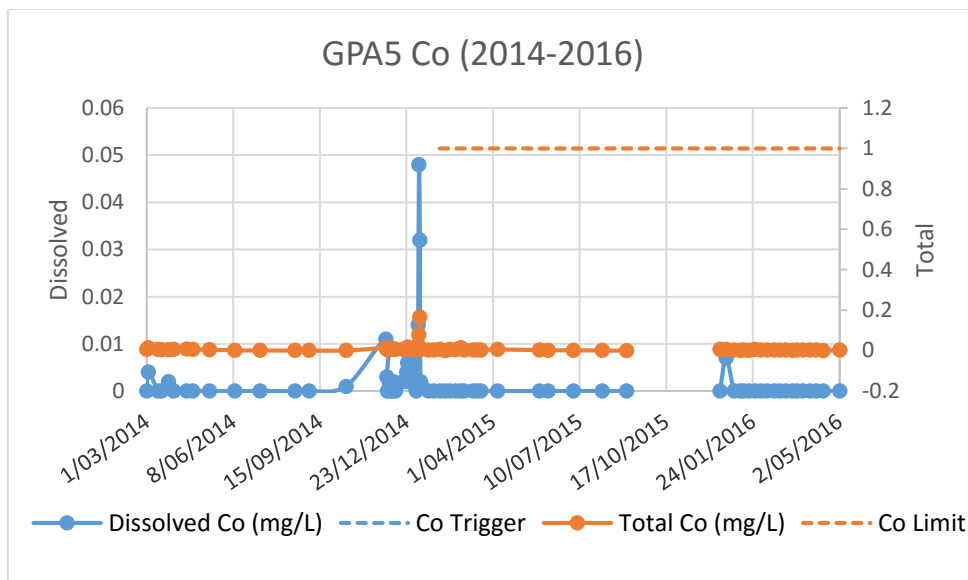


Figure 28- Cobalt at GPA5 during the period of TEP

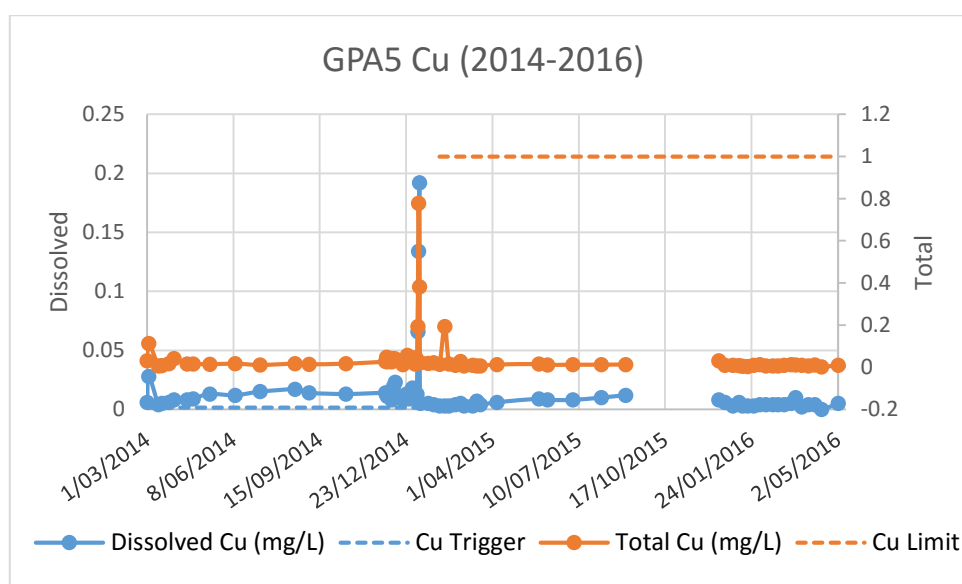


Figure 29- Copper at GPA5 during the period of TEP

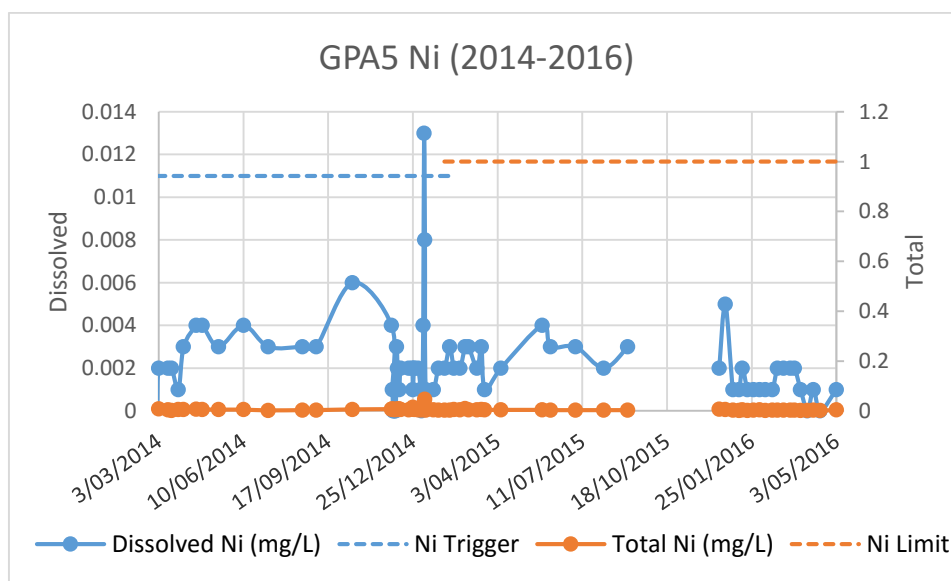


Figure 30- Nickel at GPA5 during the period of TEP

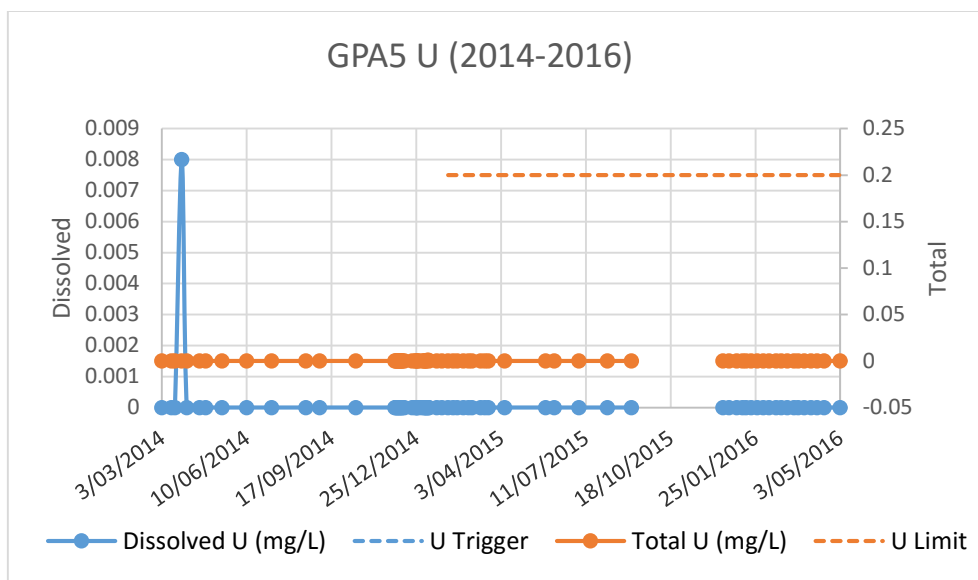


Figure 31- Uranium at GPA5 during the period of TEP

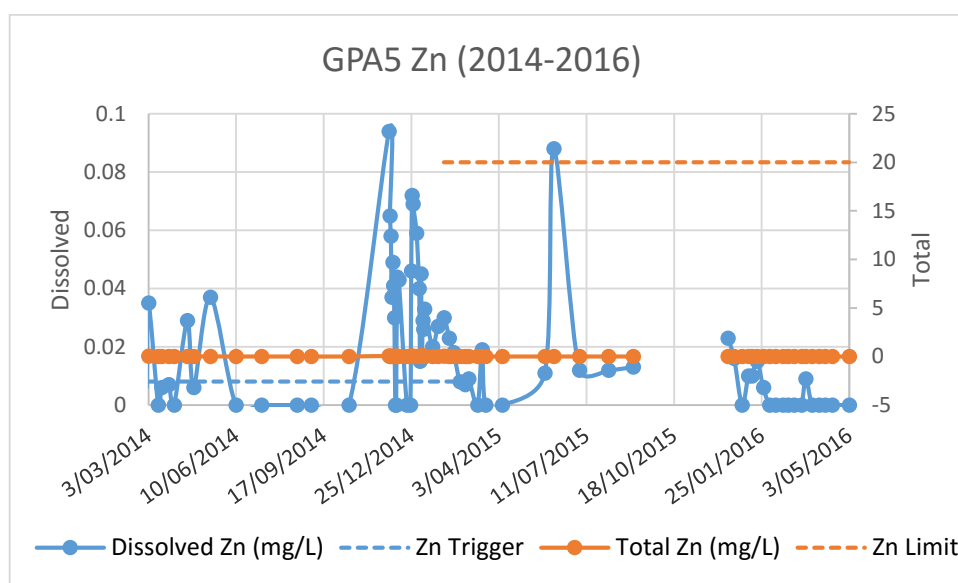


Figure 32- Zinc at GPA5 during the period of TEP

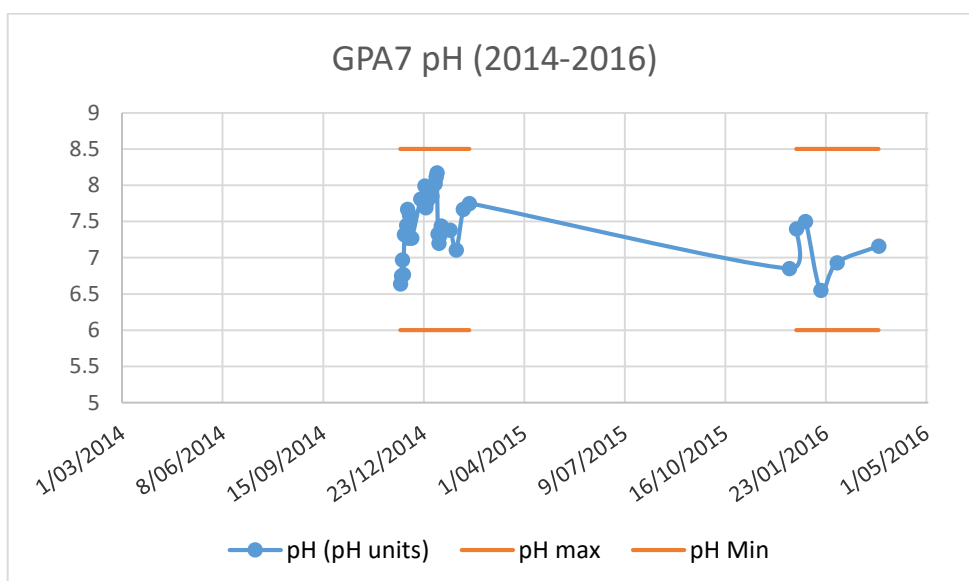


Figure 33- pH at GPA7 during the period of TEP

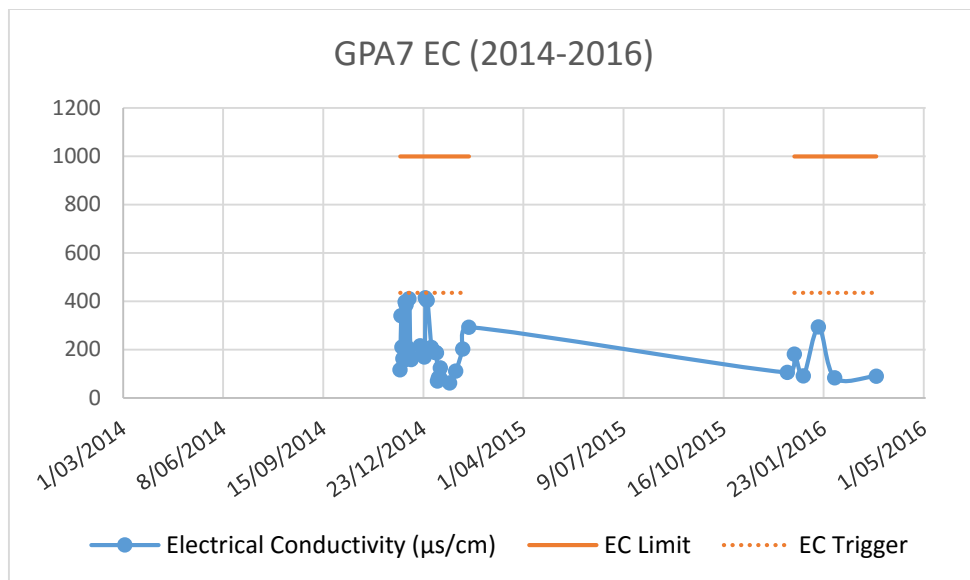


Figure 34- Electrical Conductivity at GPA7 during the period of TEP

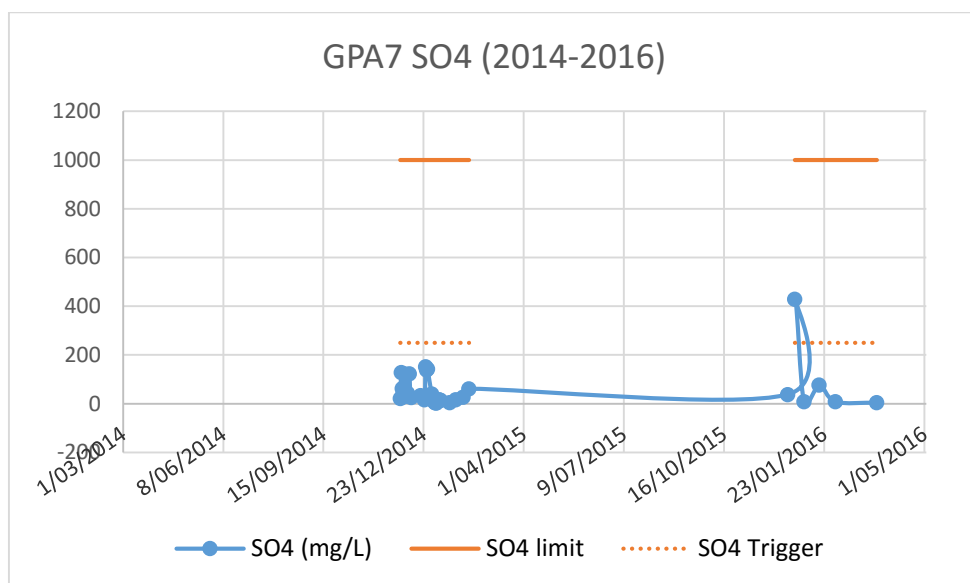


Figure 35- Sulphate at GPA7 during the period of TEP

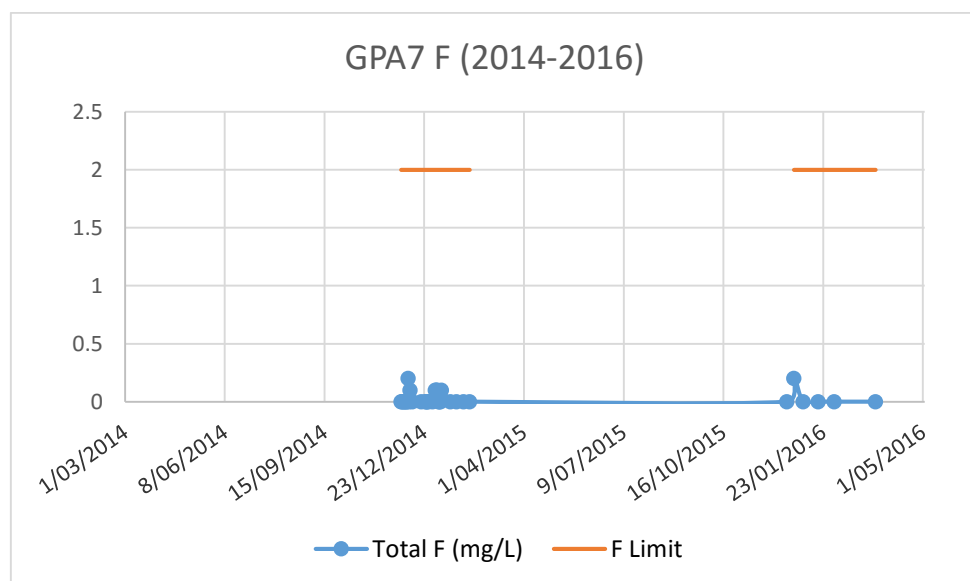


Figure 36- Fluoride at GPA7 during the period of TEP

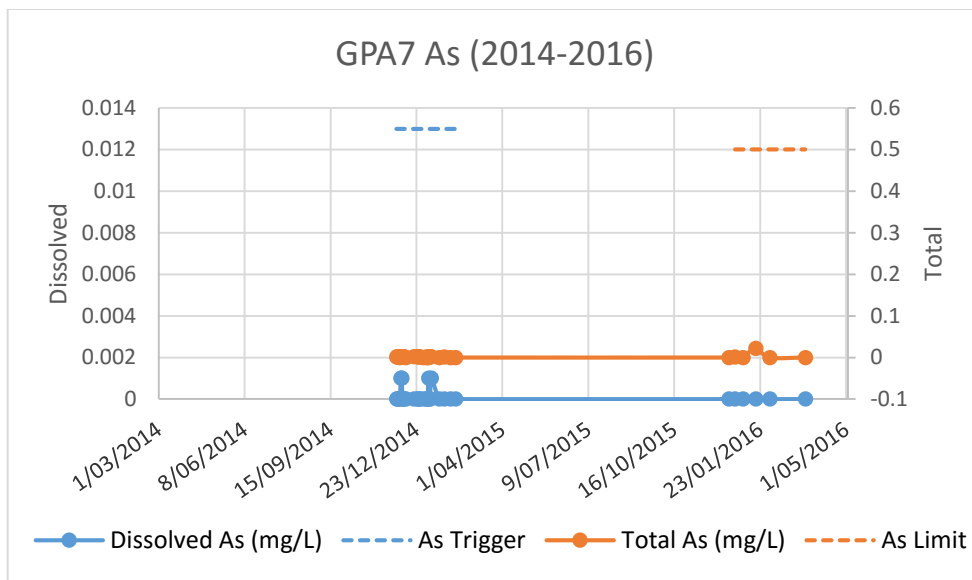


Figure 37- Arsenic at GPA7 during the period of TEP

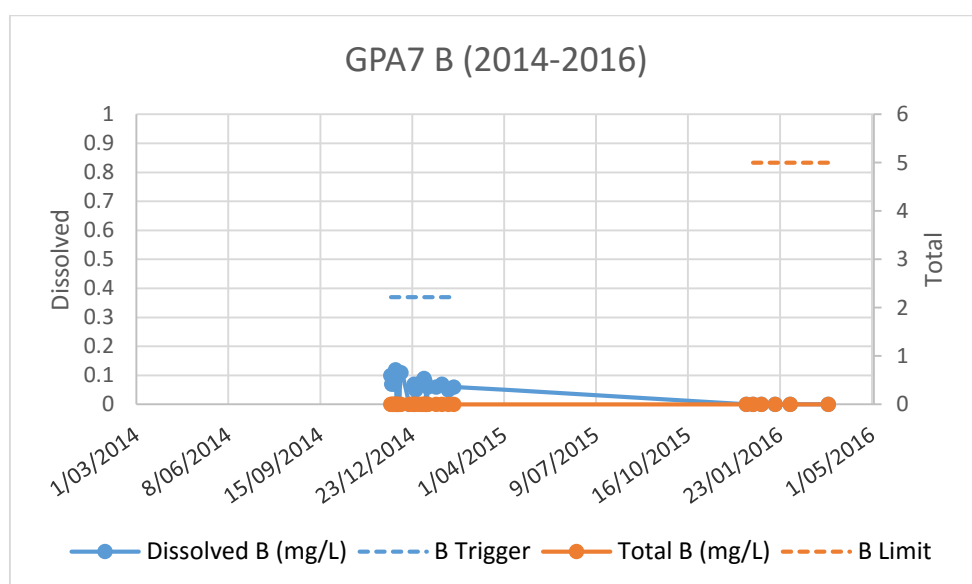


Figure 38- Boron at GPA7 during the period of TEP

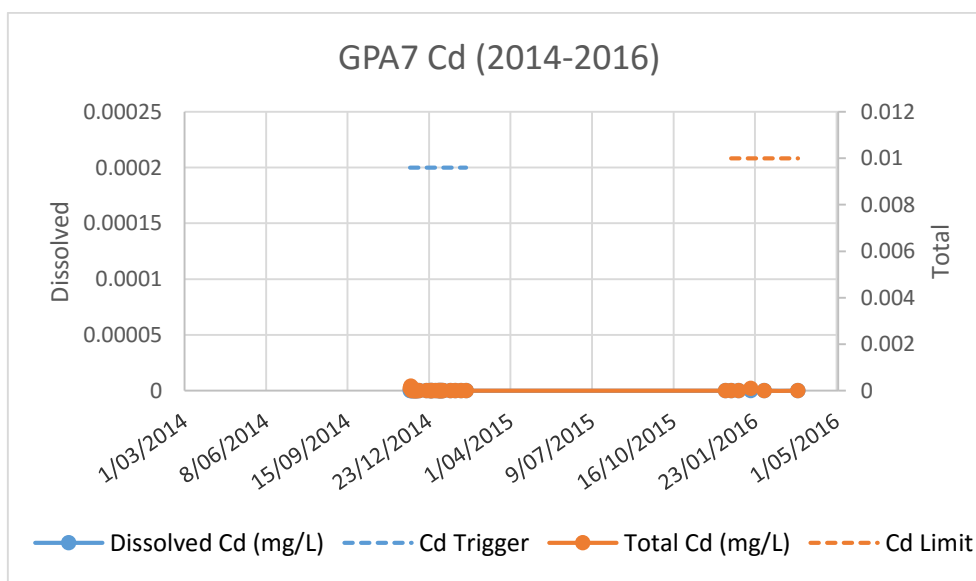


Figure 39- Cadmium at GPA7 during the period of TEP

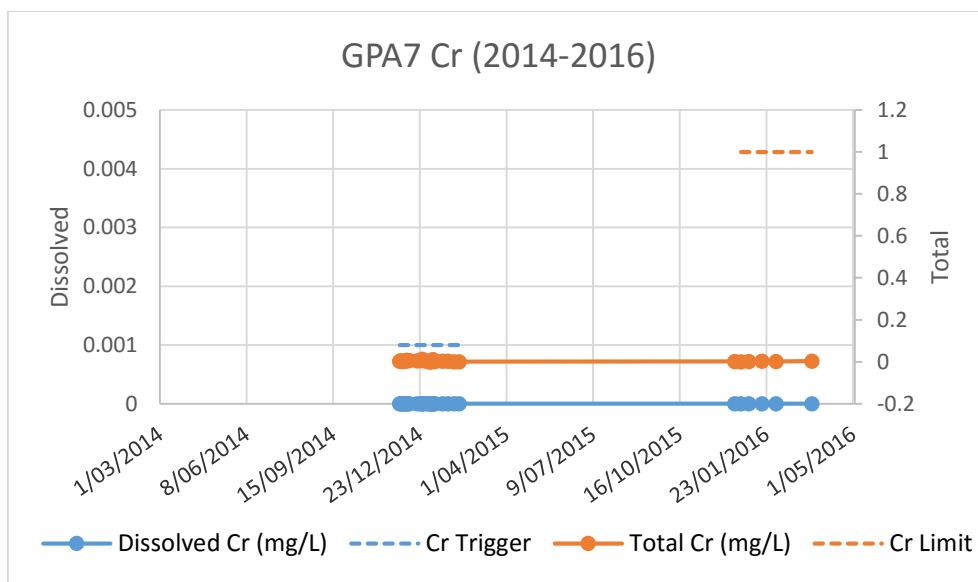


Figure 40- Chromium at GPA7 during the period of TEP

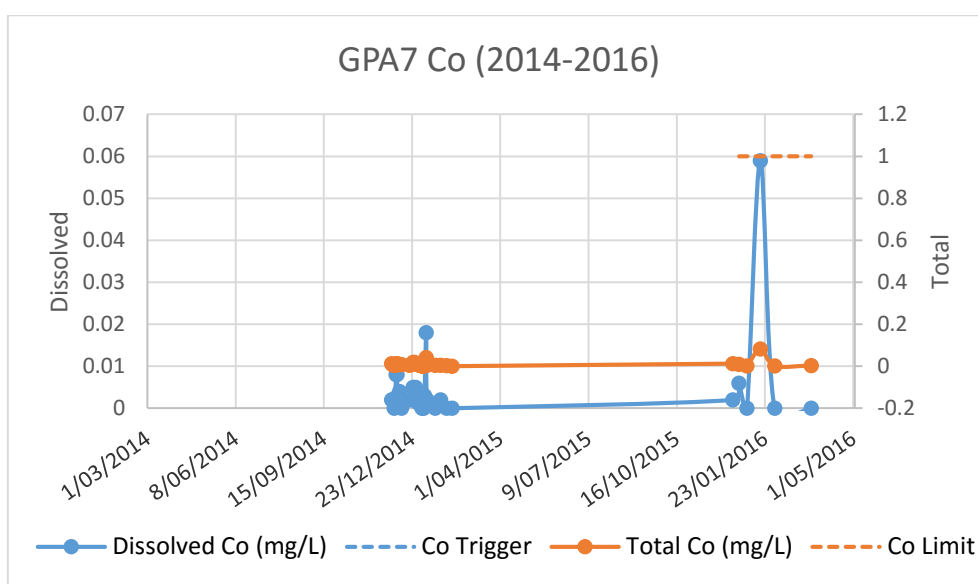


Figure 41- Cobalt at GPA7 during the period of TEP

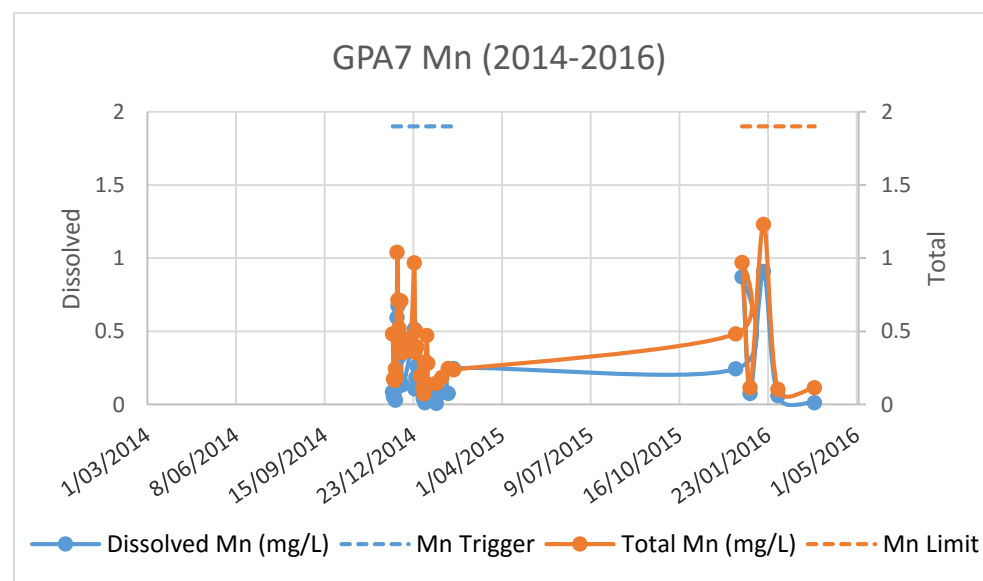


Figure 42- Manganese at GPA7 during the period of TEP

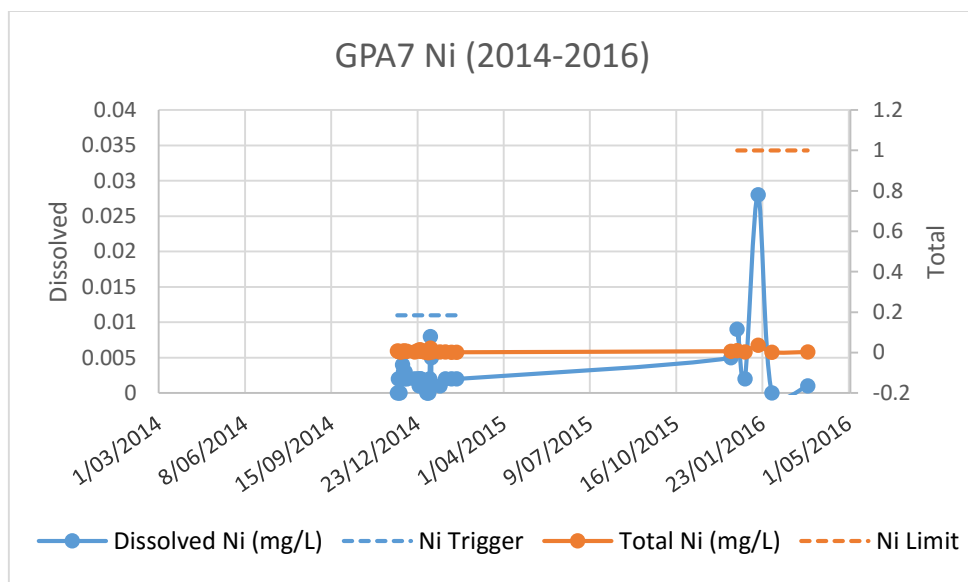


Figure 43- Nickel at GPA7 during the period of TEP

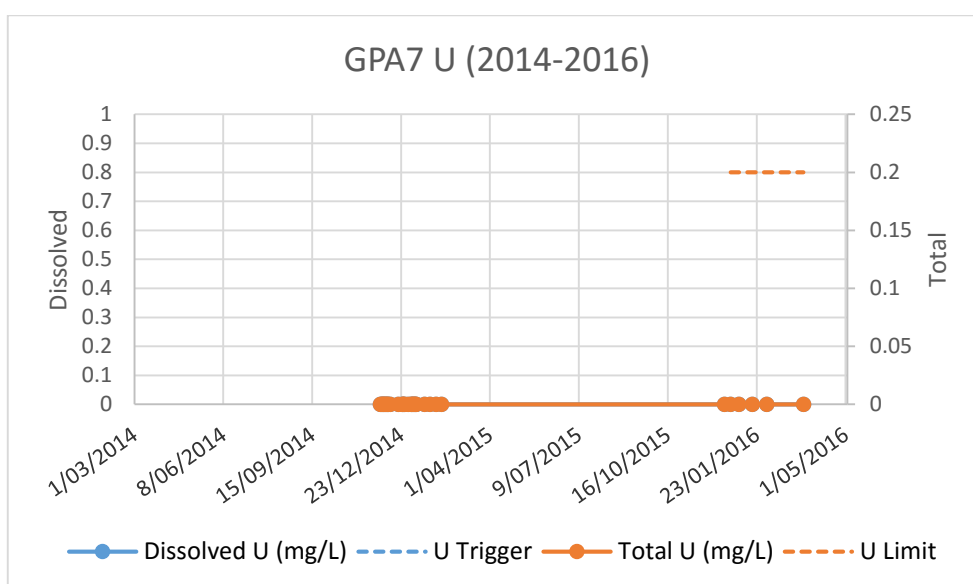


Figure 44- Uranium at GPA7 during the period of TEP

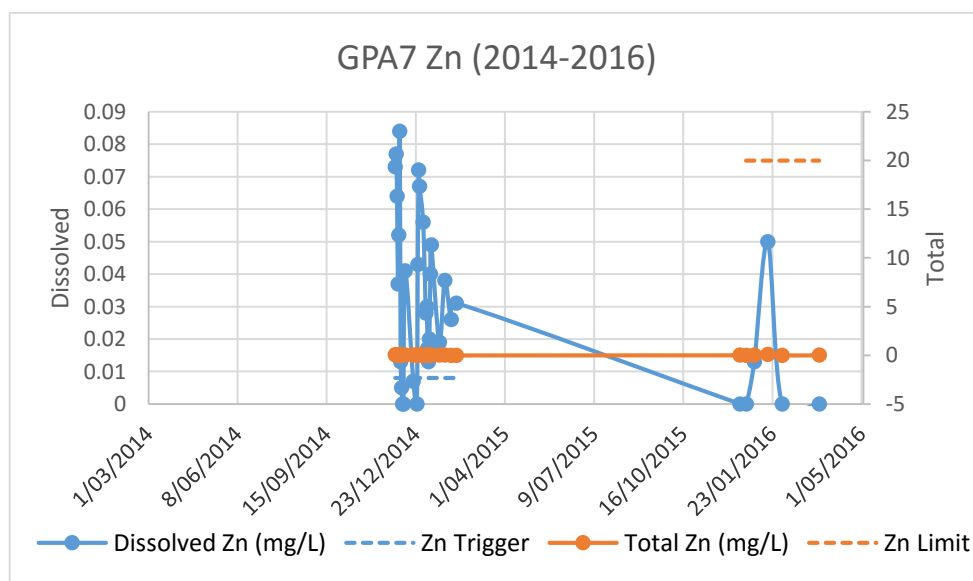


Figure 45- Zinc at GPA7 during the period of TEP

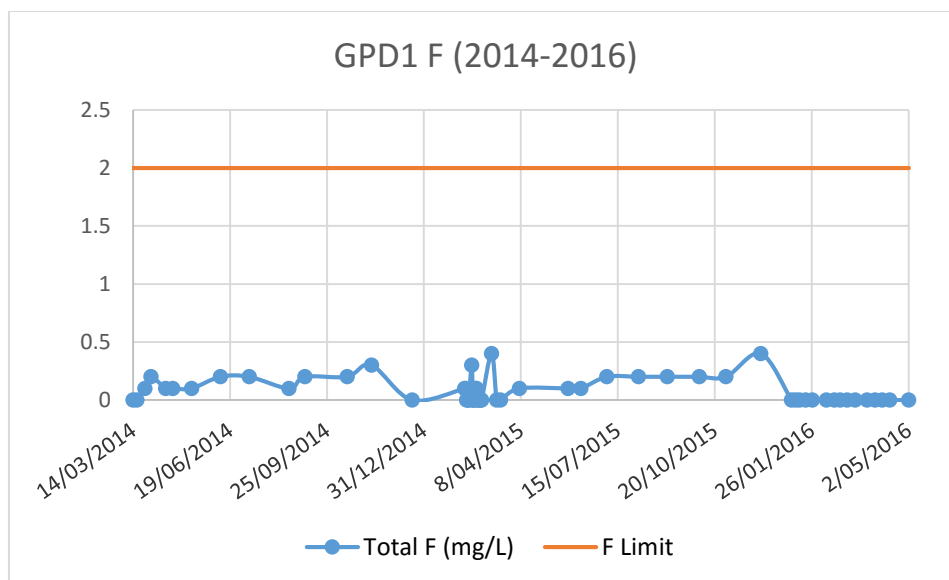


Figure 46- Fluoride at GPD1 during the period of TEP

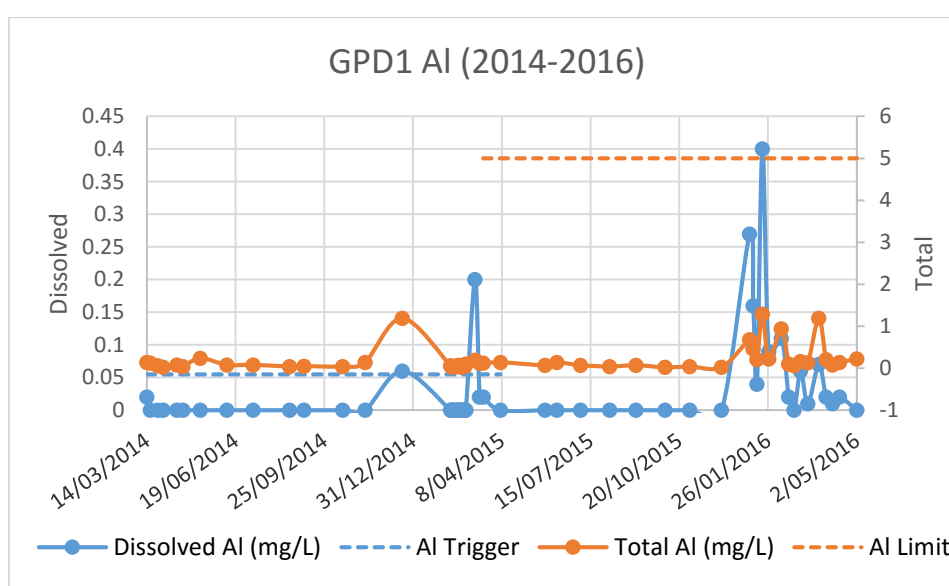


Figure 47- Aluminium at GPD1 during the period of TEP

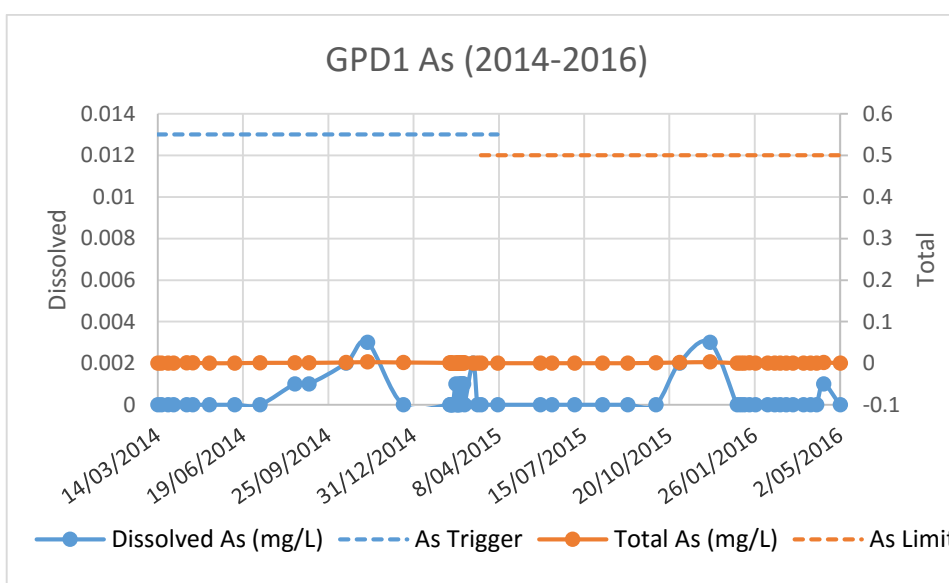


Figure 48- Arsenic at GPD1 during the period of TEP

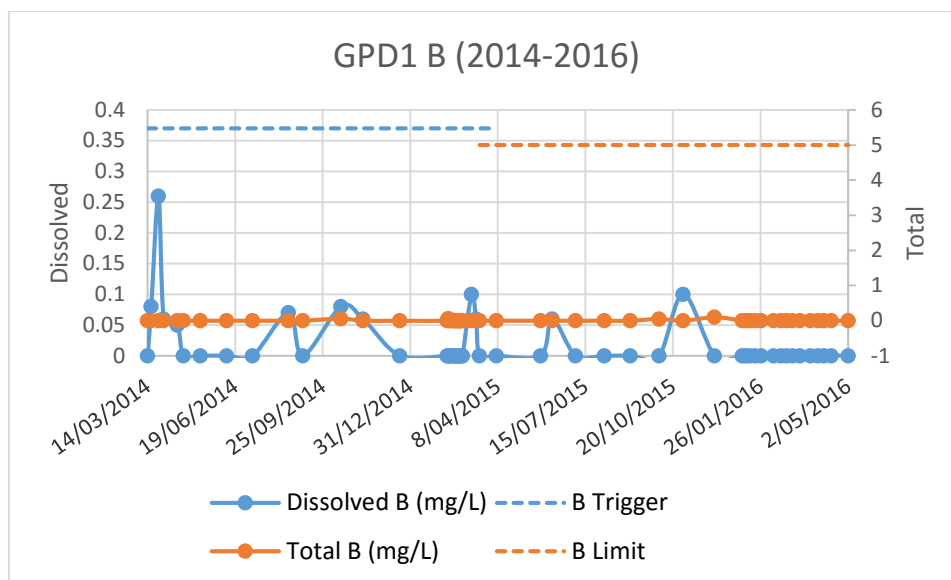


Figure 49- Boron at GPD1 during the period of TEP

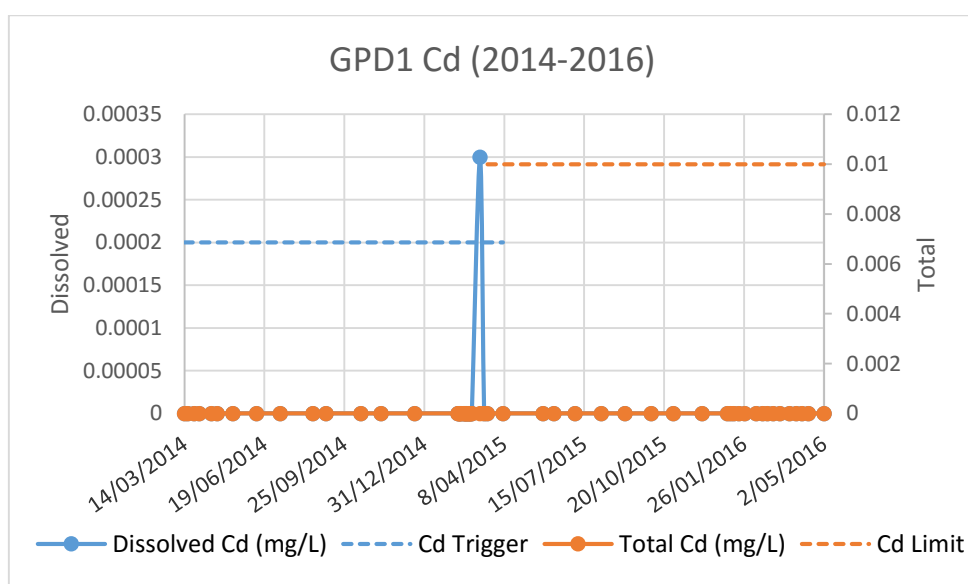


Figure 50- Cadmium at GPD1 during the period of TEP

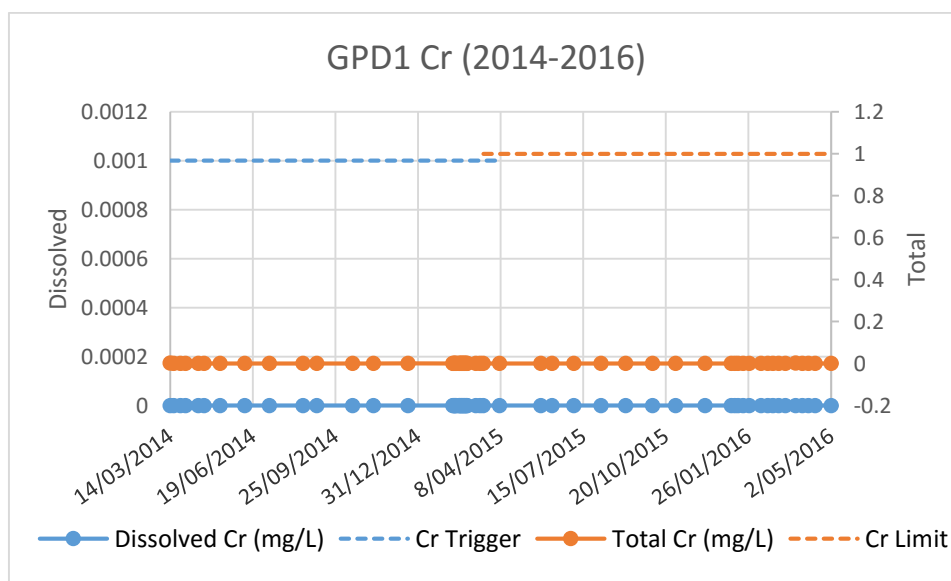


Figure 51- Chromium at GPD1 during the period of TEP

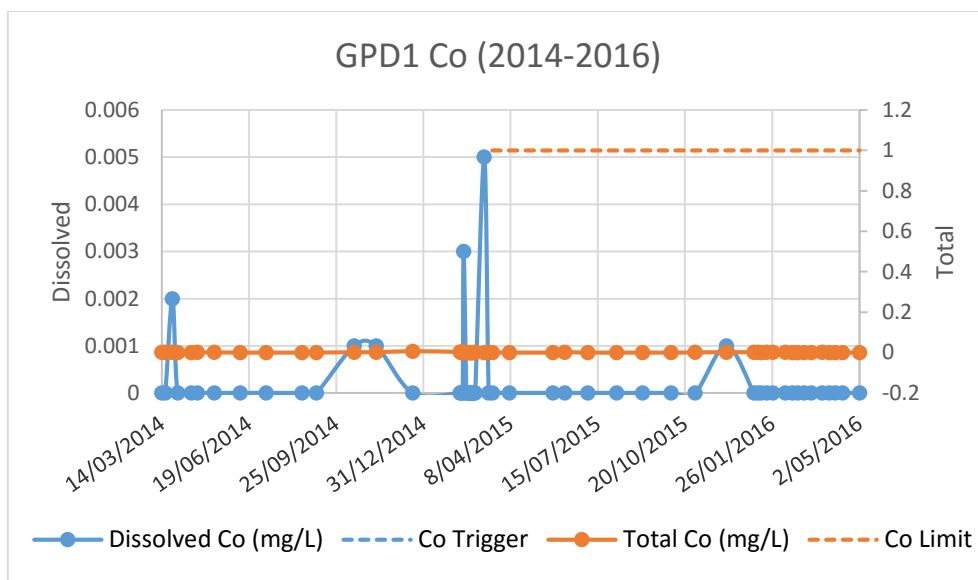


Figure 52- Cobalt at GPD1 during the period of TEP

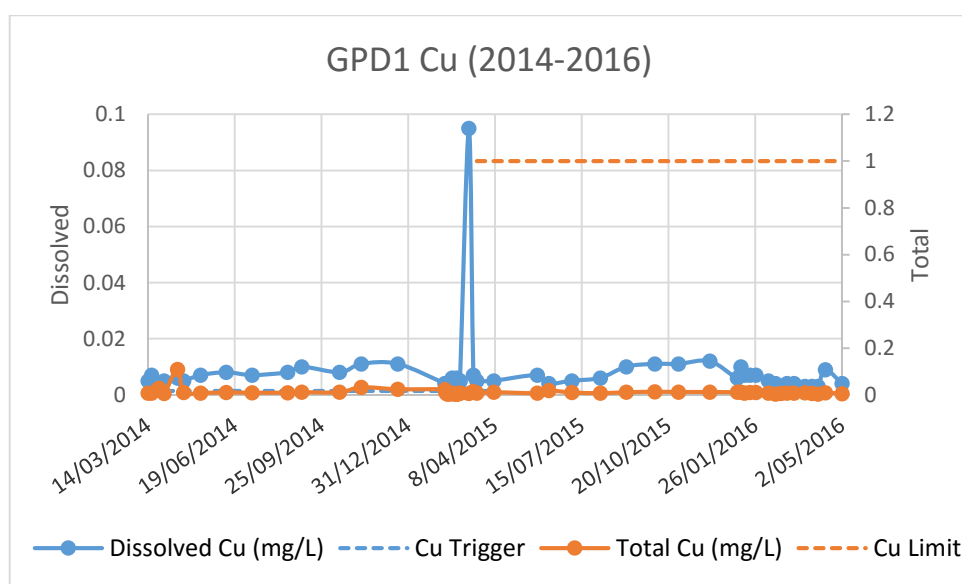


Figure 53- Copper at GPD1 during the period of TEP

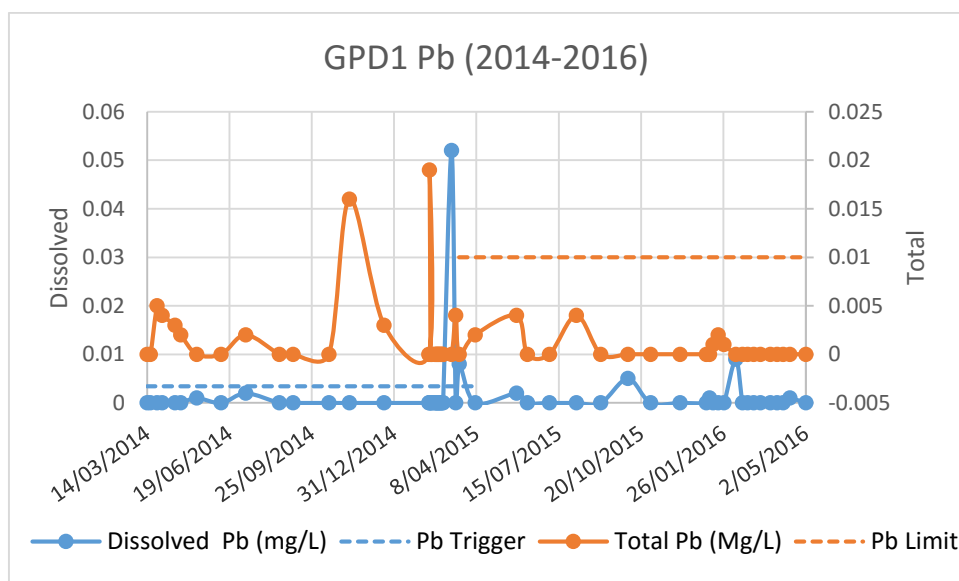


Figure 54- Lead at GPD1 during the period of TEP

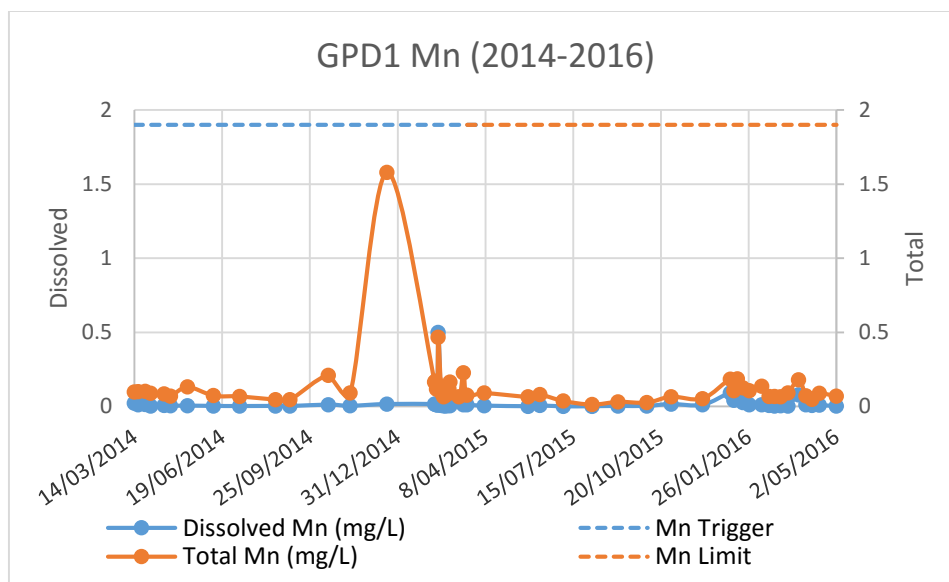


Figure 55- Manganese at GPD1 during the period of TEP

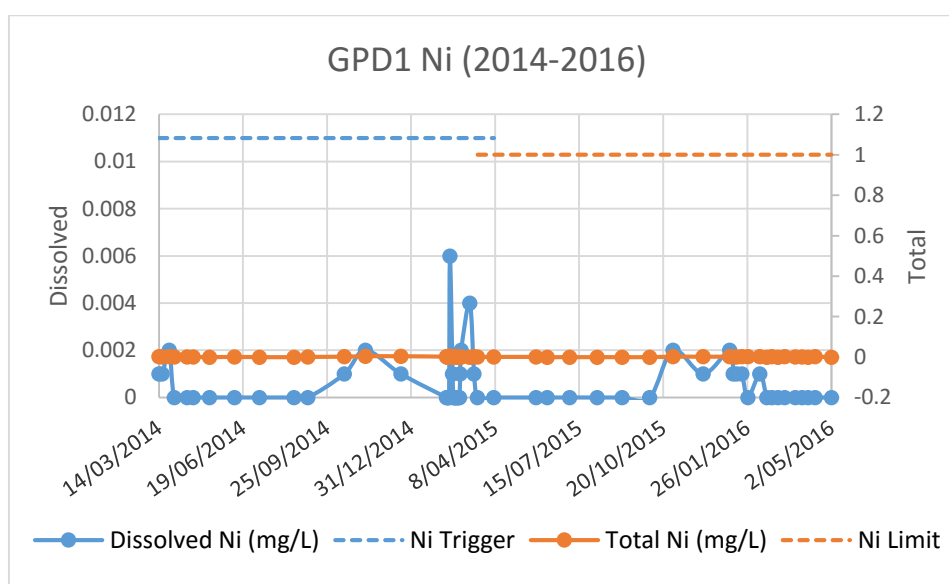


Figure 56- Nickel at GPD1 during the period of TEP

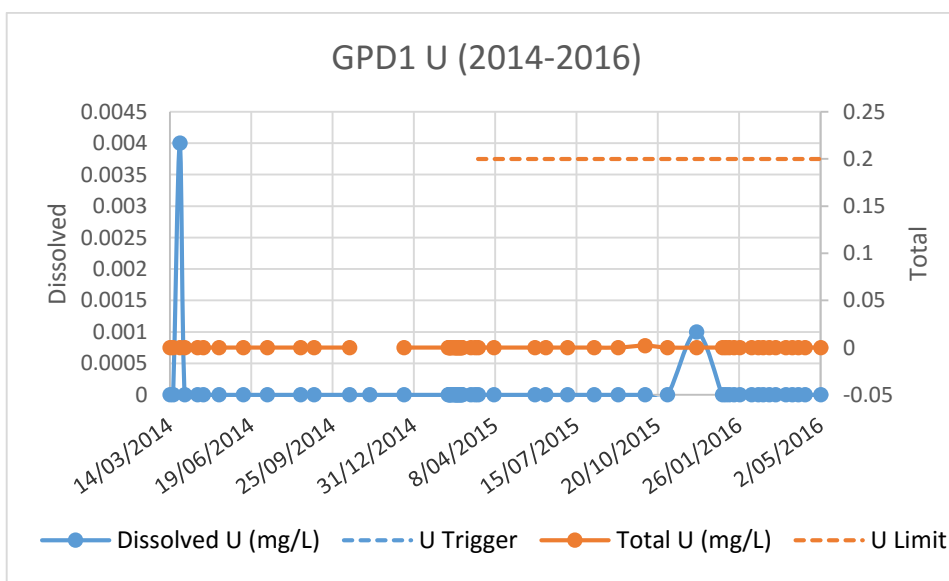


Figure 57- Uranium at GPD1 during the period of TEP

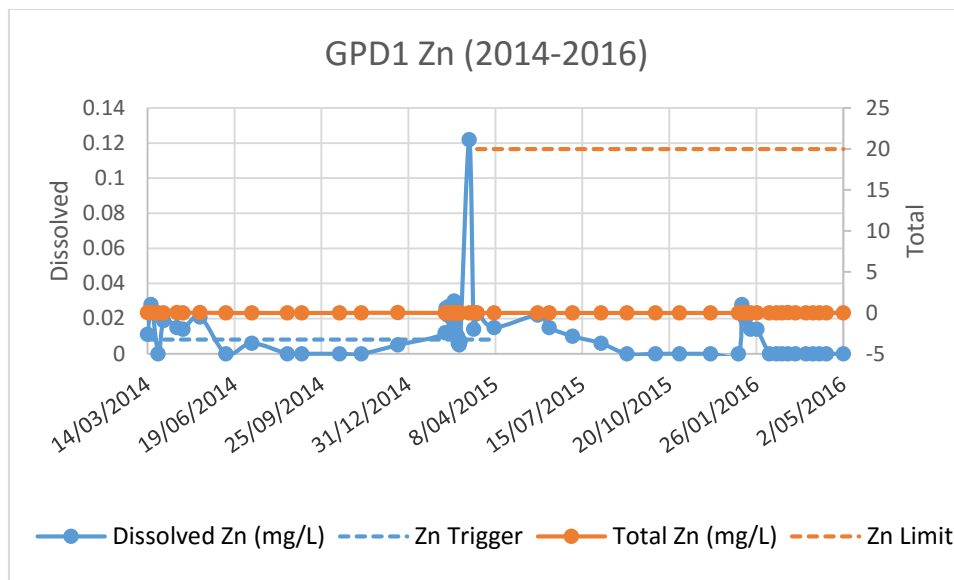


Figure 58- Zinc at GPD1 during the period of TEP

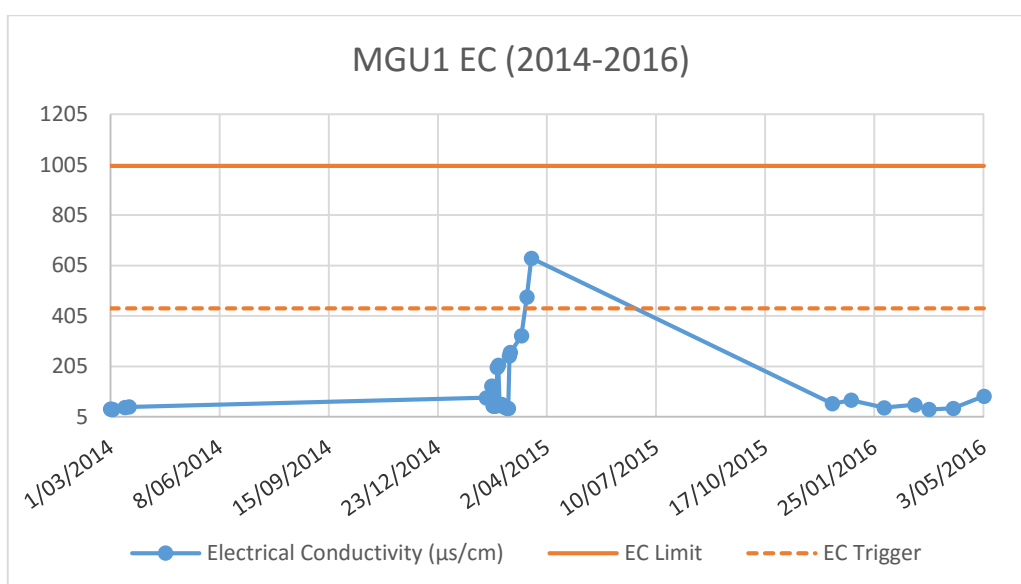


Figure 59- Electrical Conductivity at MGU1 during the period of TEP

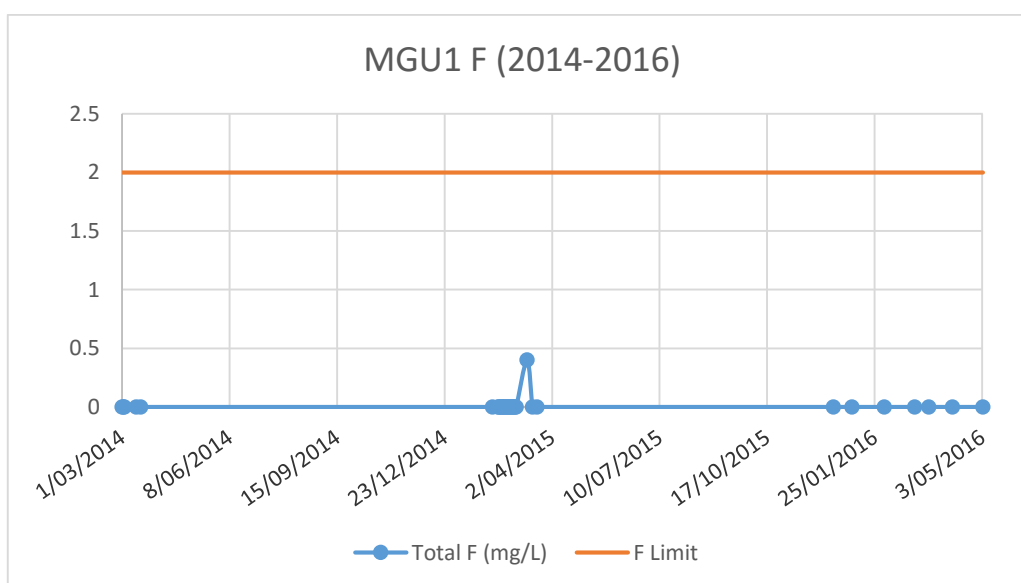


Figure 60- Fluoride at MGU1 during the period of TEP

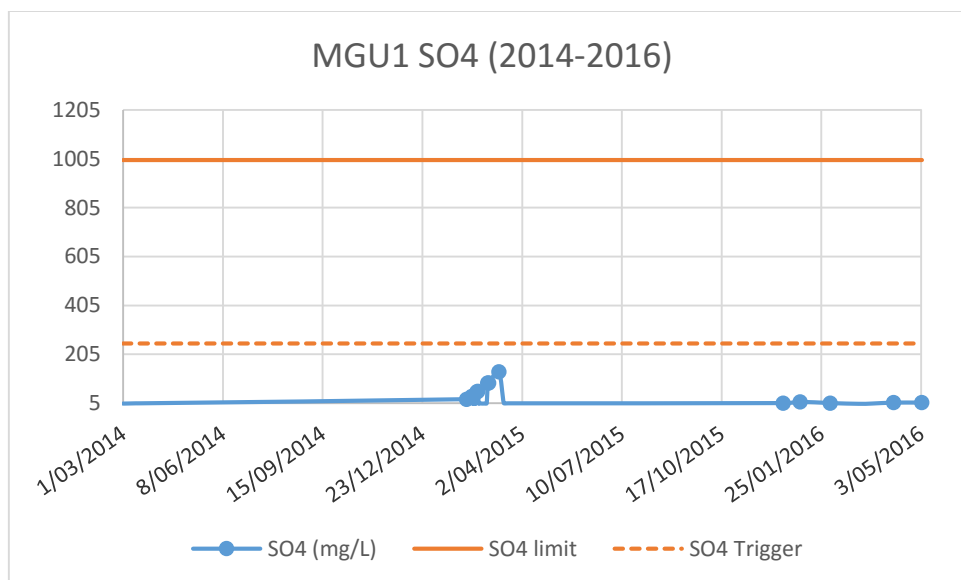


Figure 61- Sulphate at MGU1 during the period of TEP

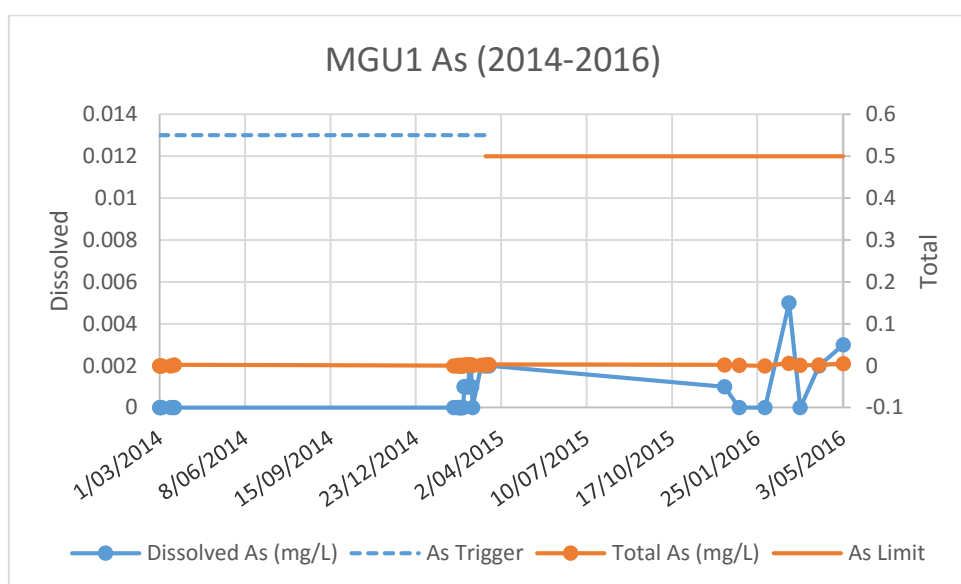


Figure 62- Arsenic at MGU1 during the period of TEP

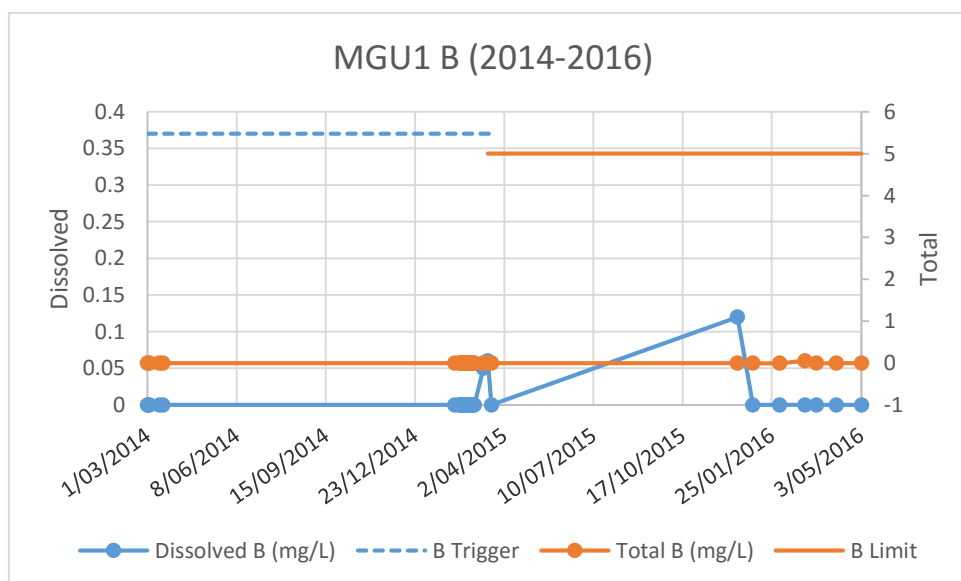


Figure 63- Boron at MGU1 during the period of TEP

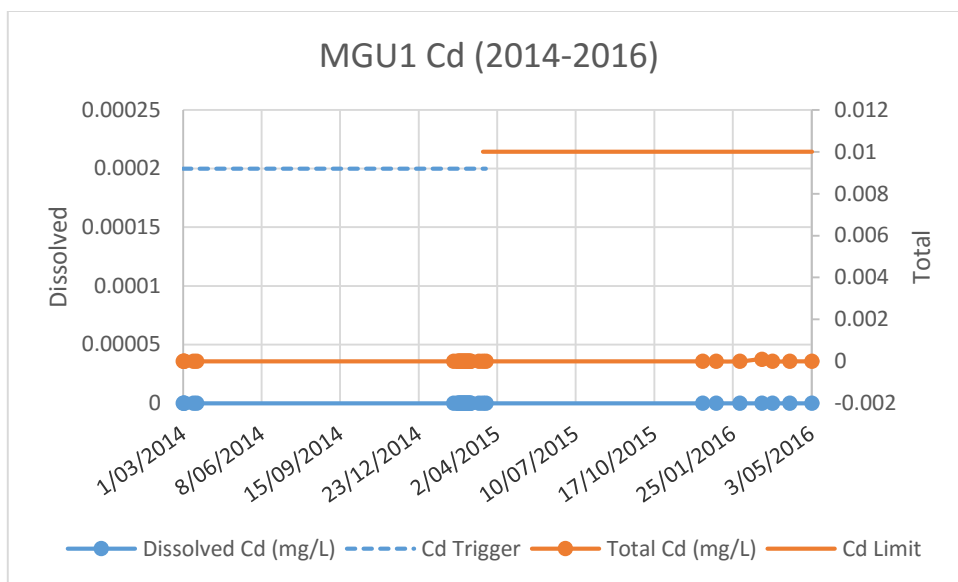


Figure 64- Cadmium at MGU1 during the period of TEP

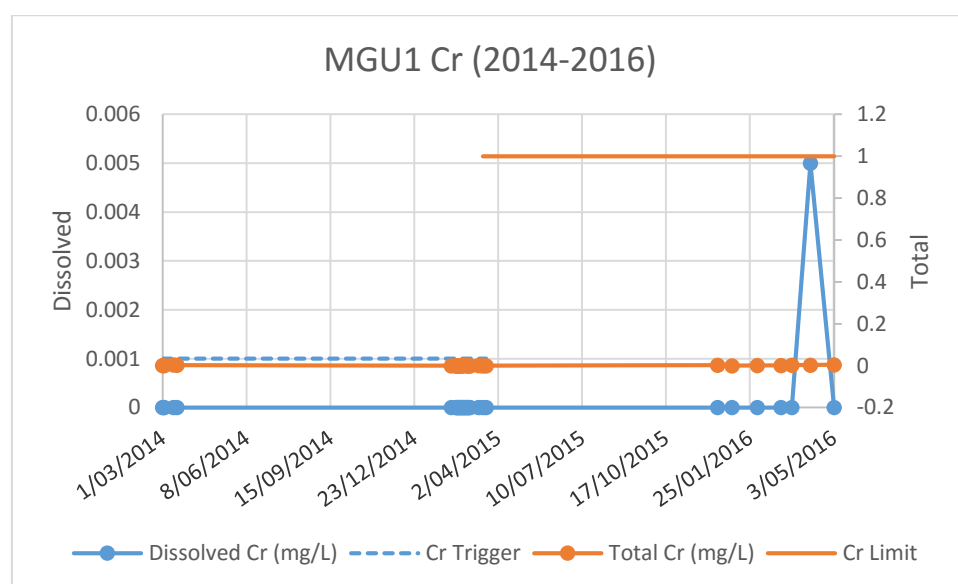


Figure 65- Chromium at MGU1 during the period of TEP

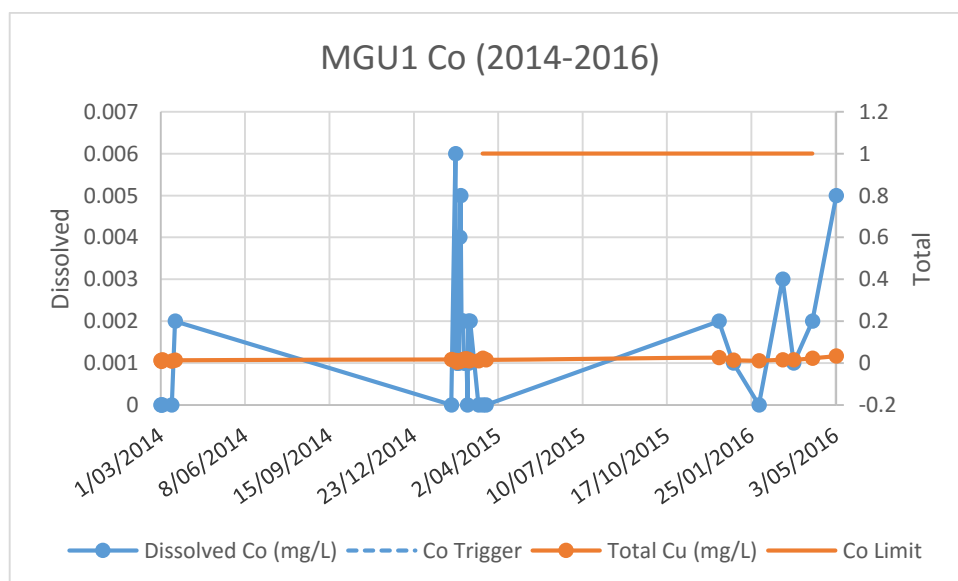


Figure 66- Cobalt at MGU1 during the period of TEP

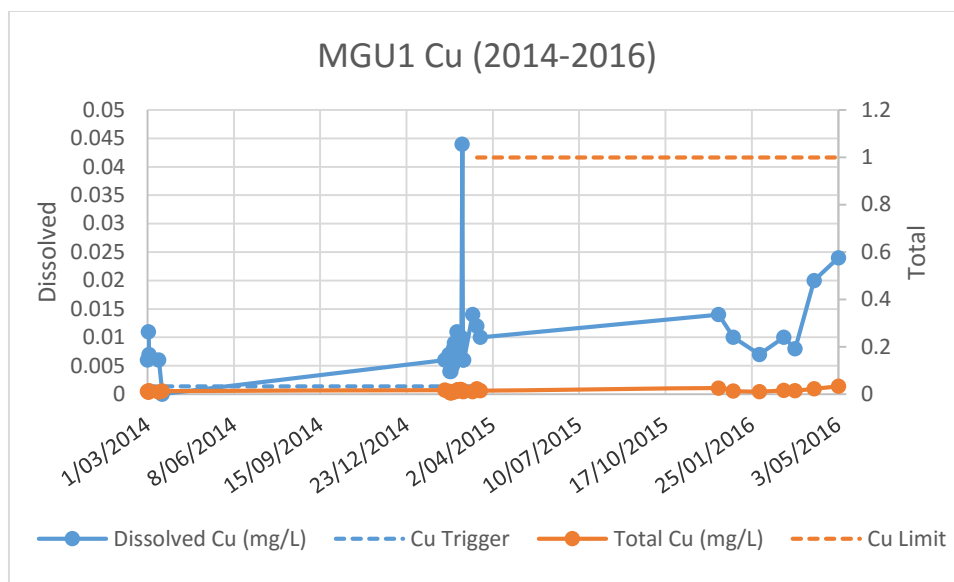


Figure 67- Copper at MGU1 during the period of TEP

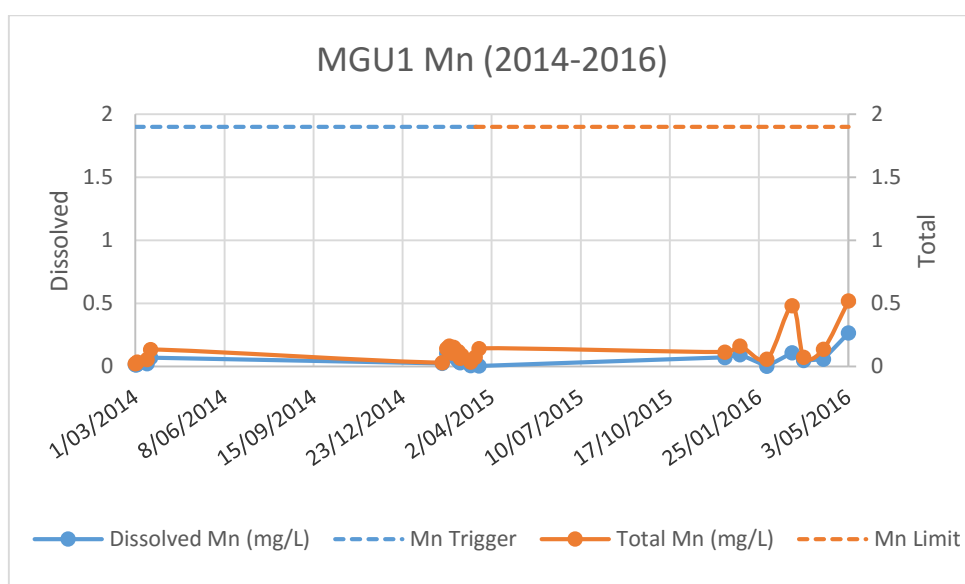


Figure 68- Manganese at MGU1 during the period of TEP

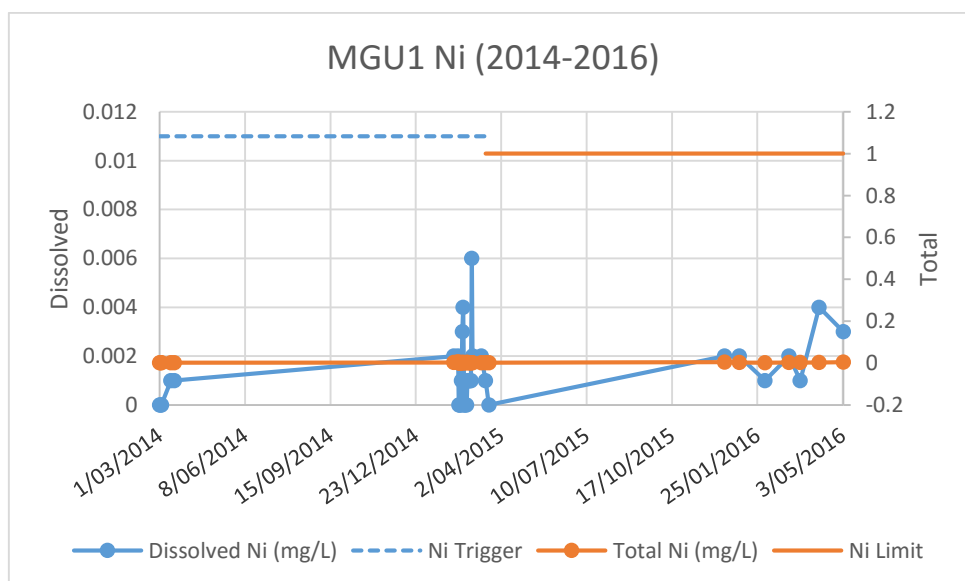


Figure 69- Nickel at MGU1 during the period of TEP

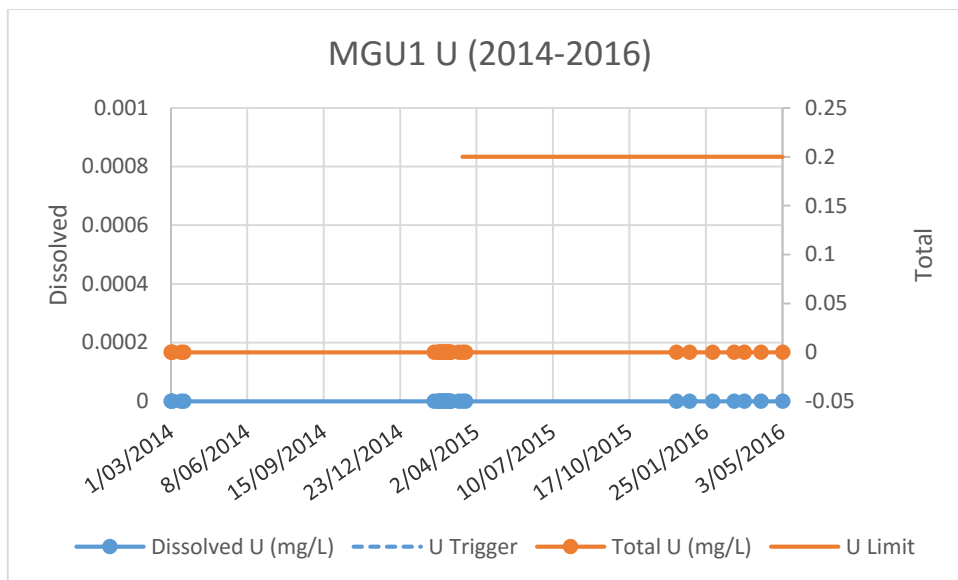


Figure 70- Uranium at MGU1 during the period of TEP

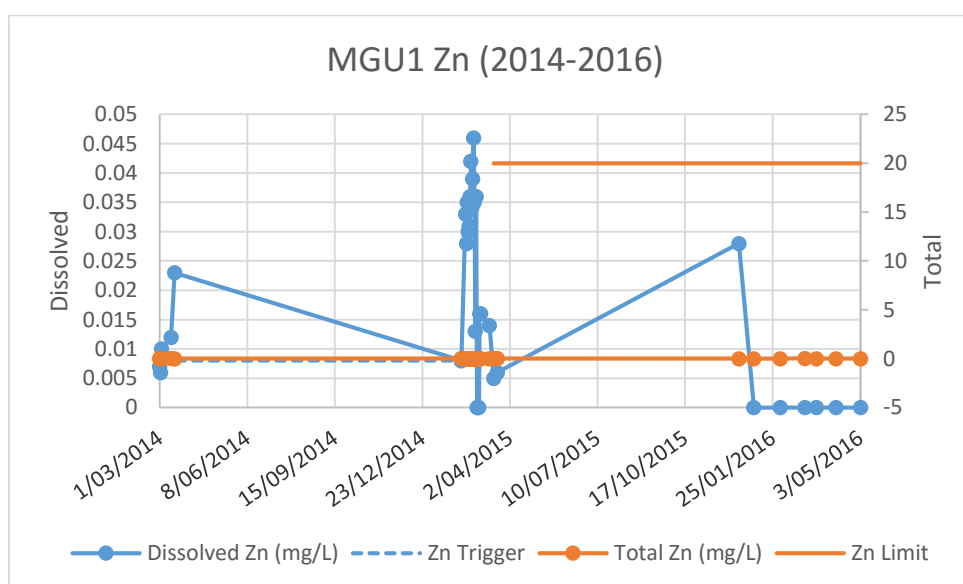


Figure 71- Zinc at MGU1 during the period of TEP

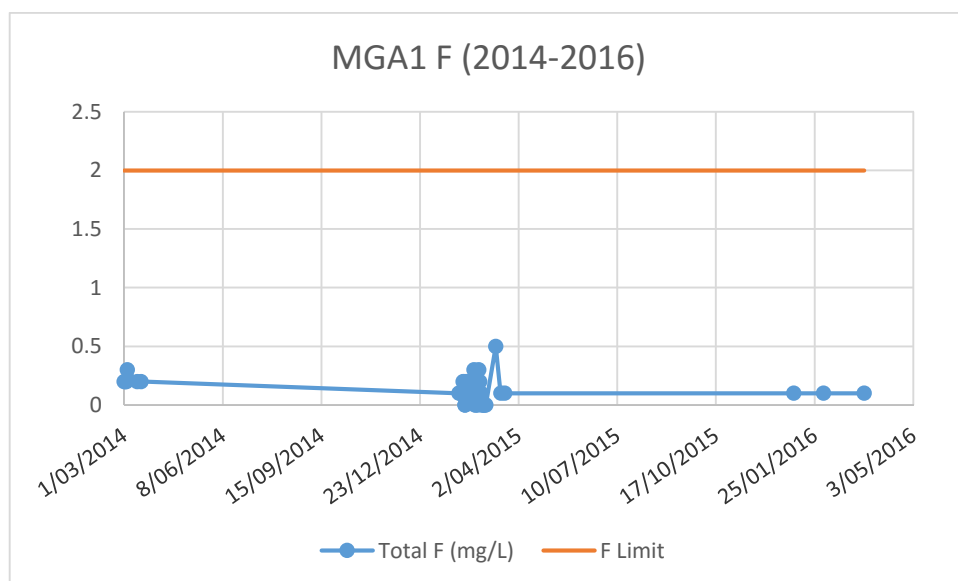


Figure 72- Fluoride at MGA1 during the period of TEP

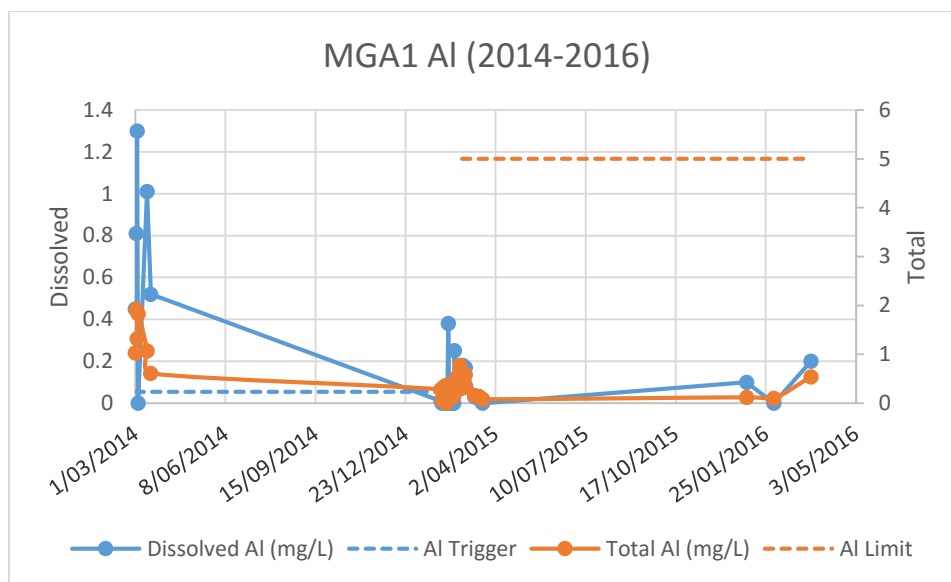


Figure 73- Aluminium at MGA1 during the period of TEP

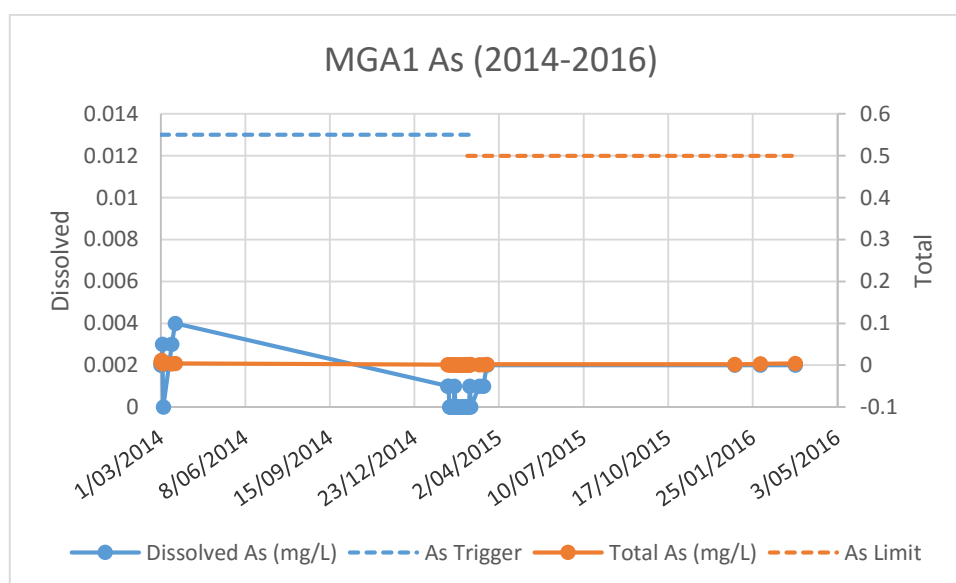


Figure 74- Arsenic at MGA1 during the period of TEP

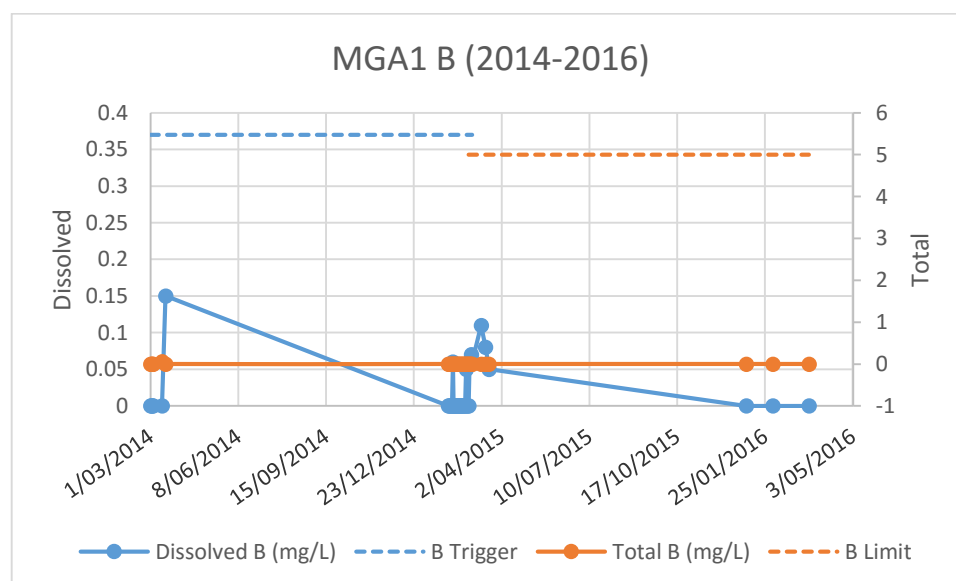


Figure 75- Boron at MGA1 during the period of TEP

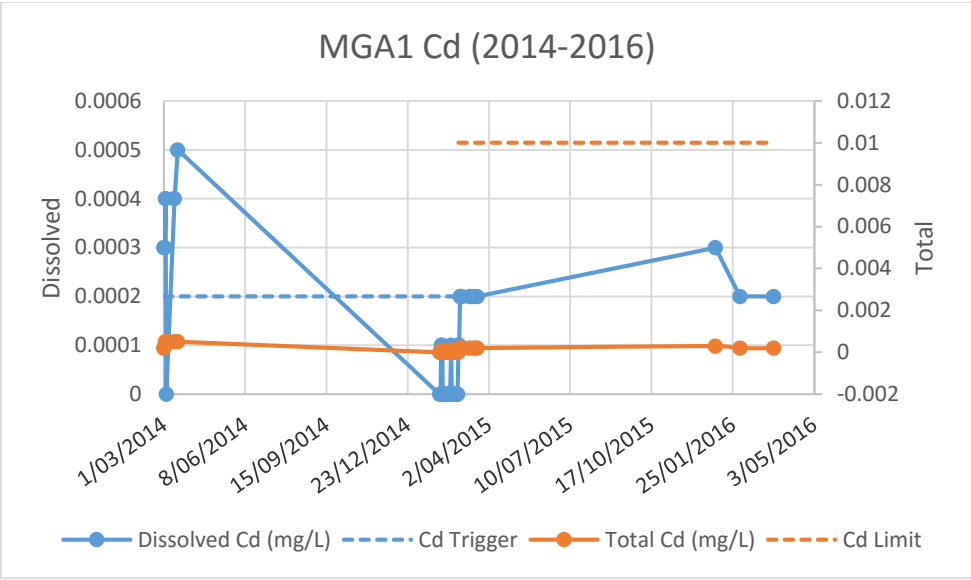


Figure 76- Cadmium at MGA1 during the period of TEP

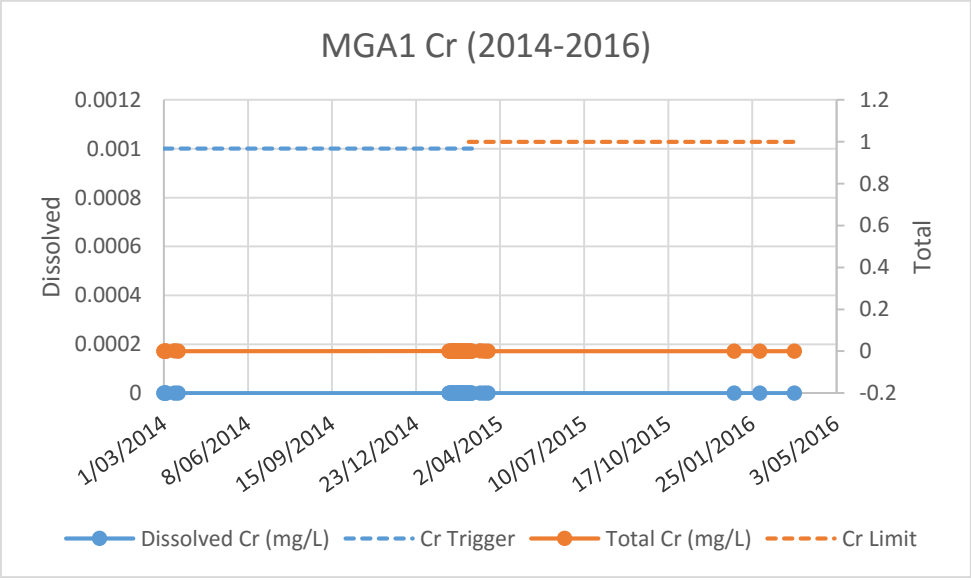


Figure 77- Chromium at MGA1 during the period of TEP

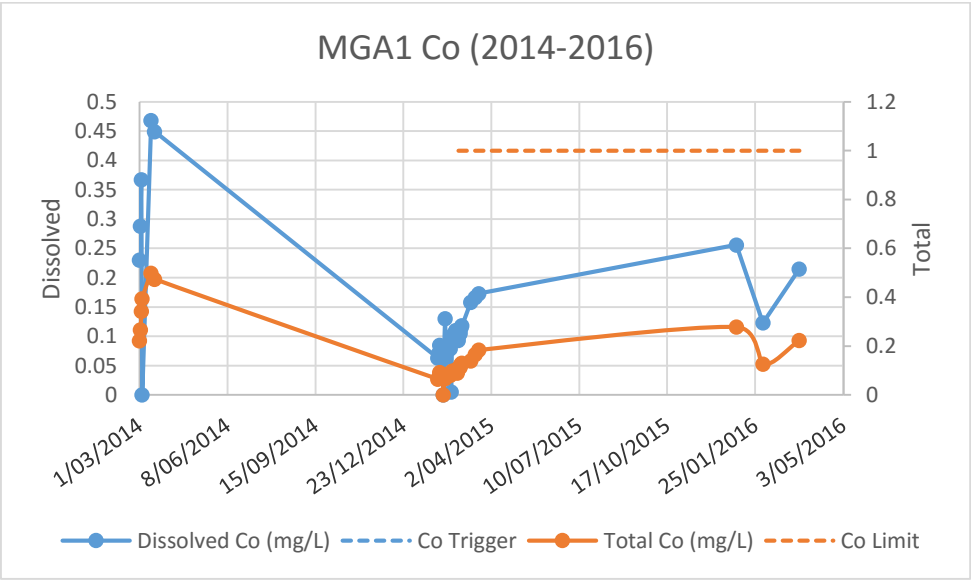


Figure 78- Cobalt at MGA1 during the period of TEP

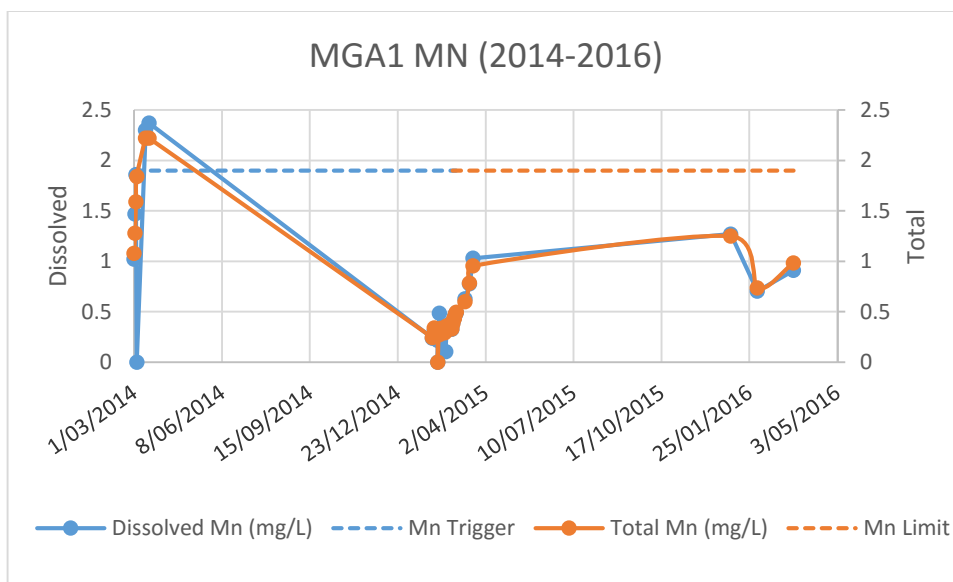


Figure 79- Manganese at MGA1 during the period of TEP

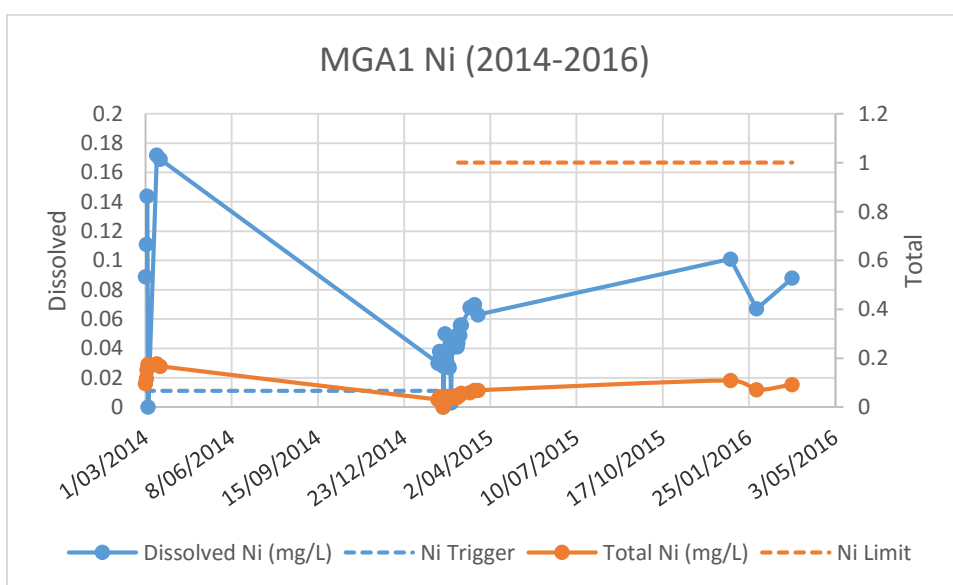


Figure 80- Nickel at MGA1 during the period of TEP

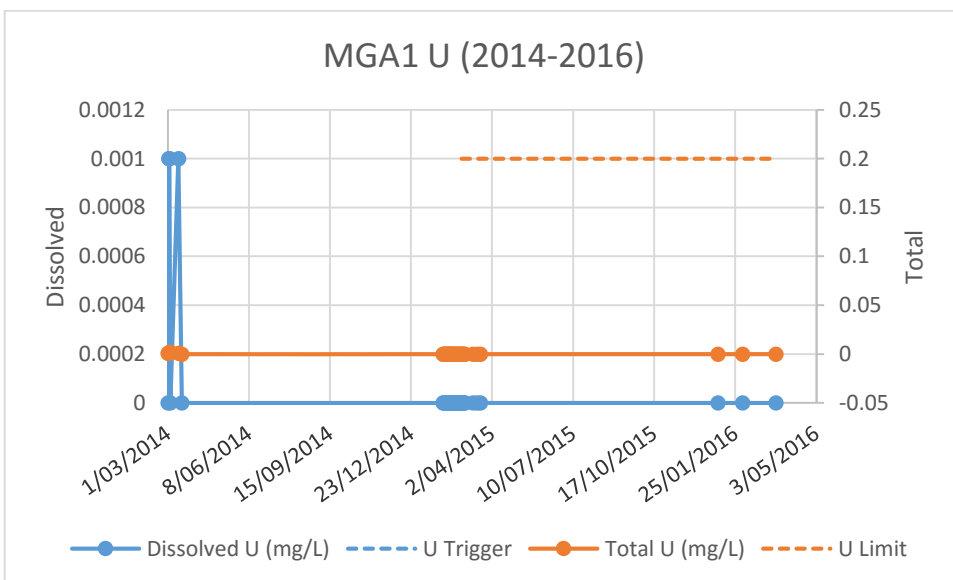


Figure 81- Uranium at MGA1 during the period of TEP

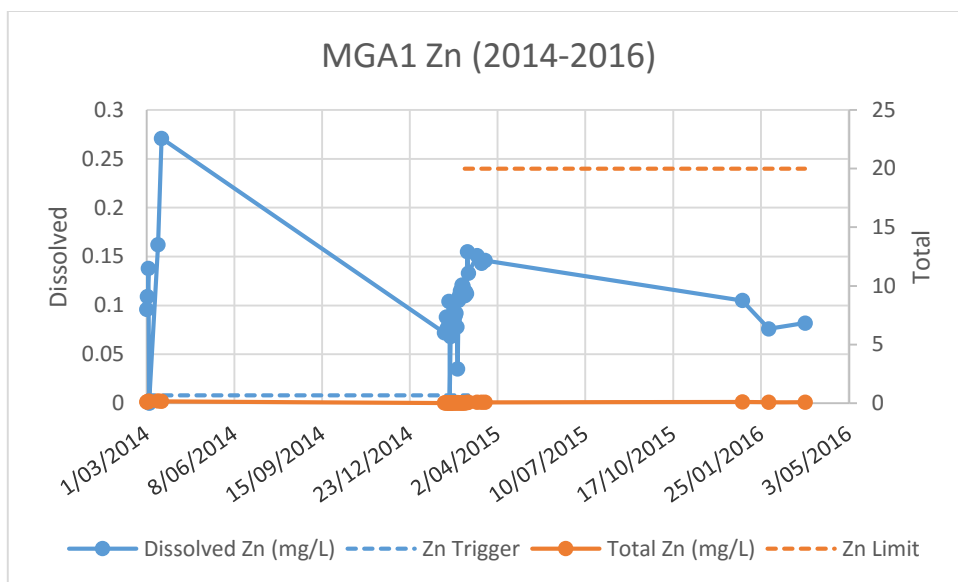


Figure 82- Zinc at MGA1 during the period of TEP

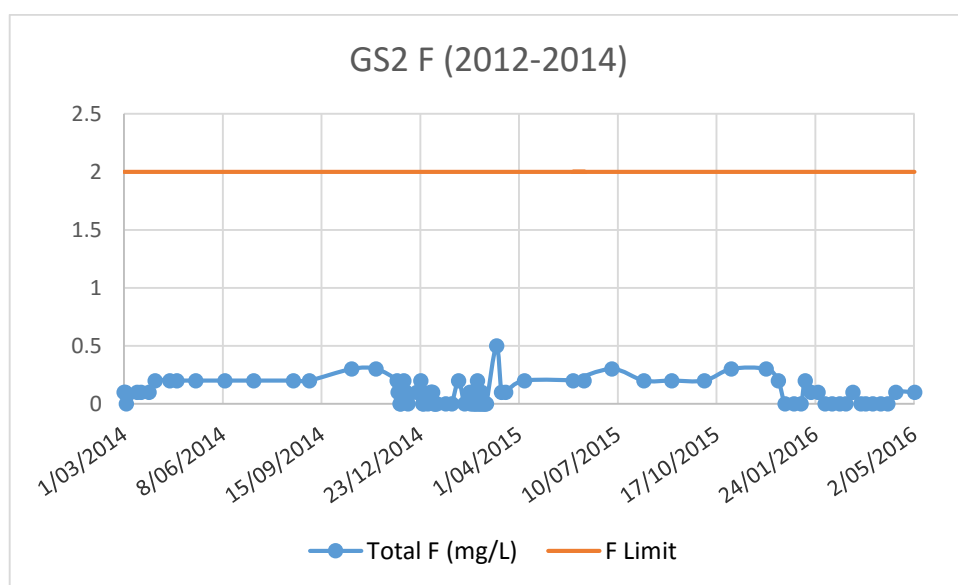


Figure 83- Fluoride at GS2 during the period of TEP

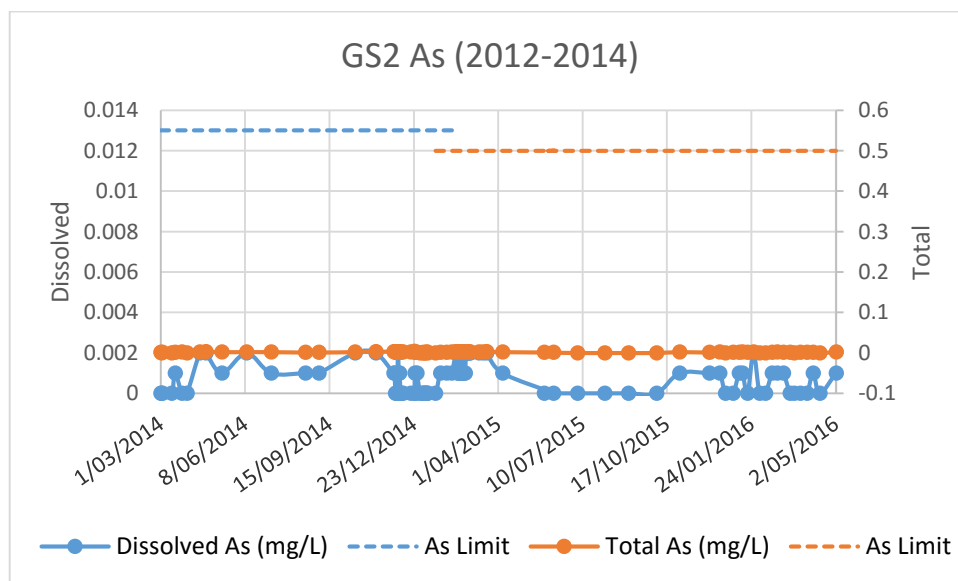


Figure 84- Arsenic at GS2 during the period of TEP

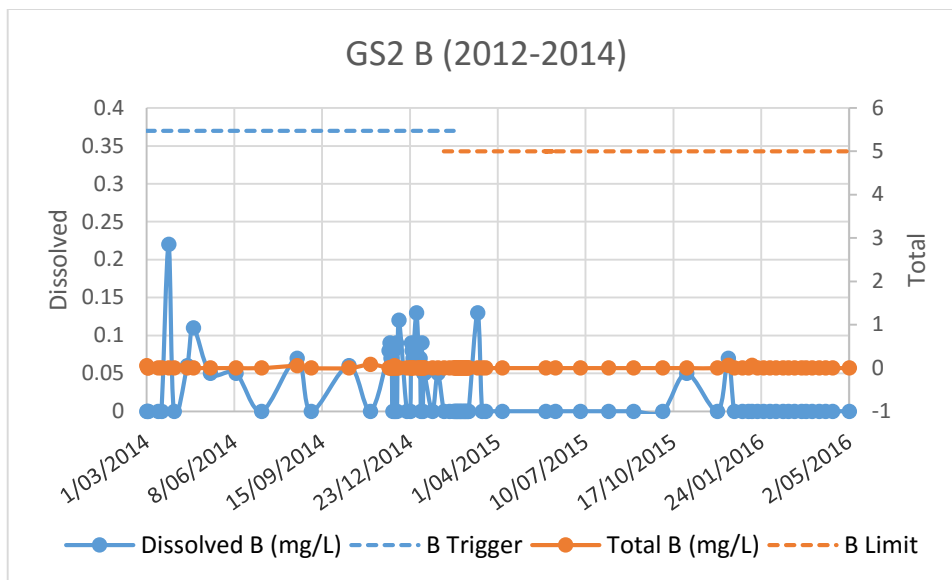


Figure 85-Boron at GS2 during the period of TEP

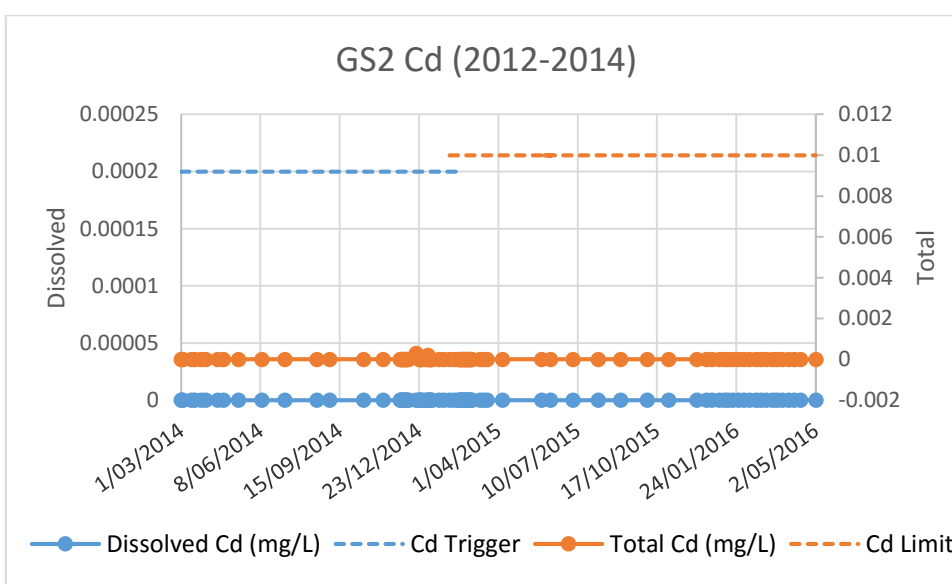


Figure 86- Cadmium at GS2 during the period of TEP

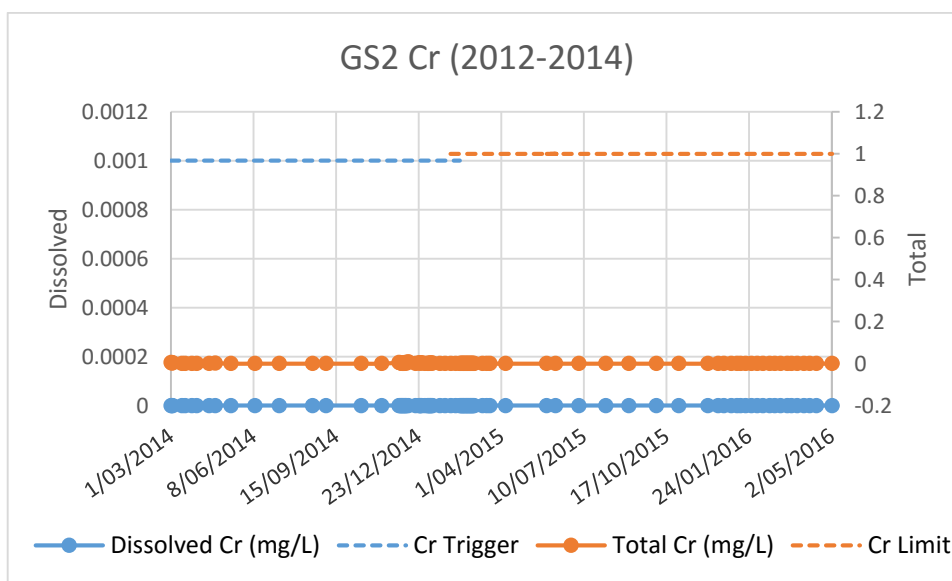


Figure 87- Chromium at GS2 during the period of TEP

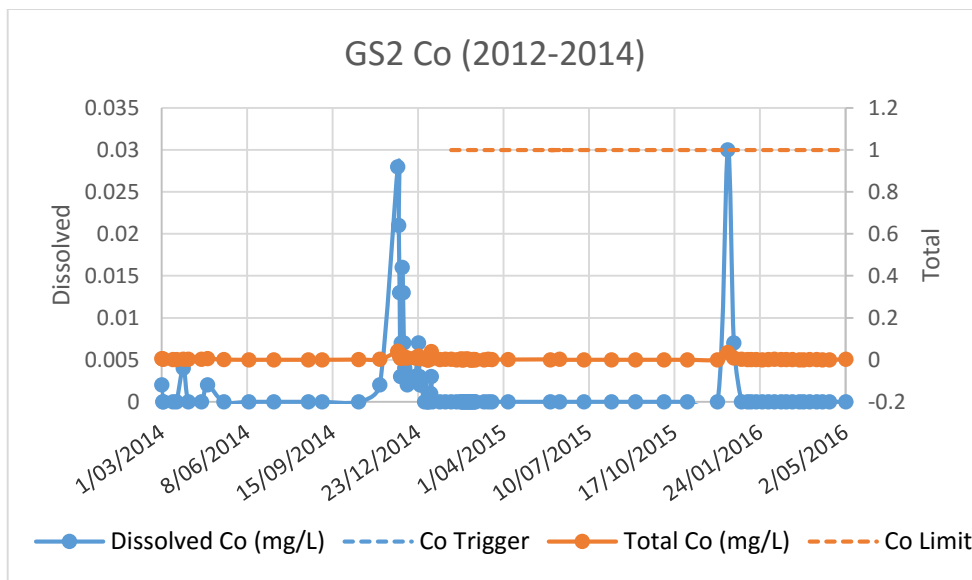


Figure 88- Cobalt at GS2 during the period of TEP

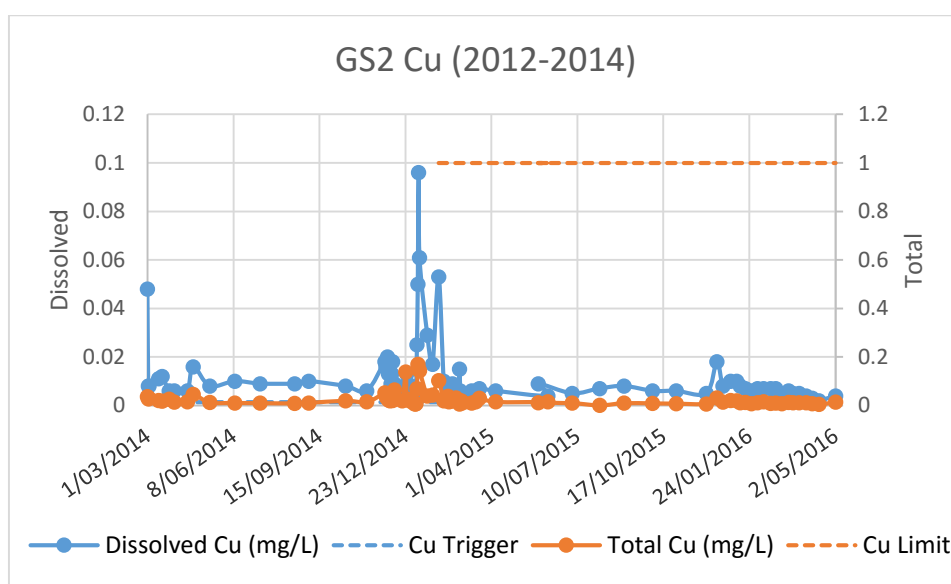


Figure 89- Copper at GS2 during the period of TEP

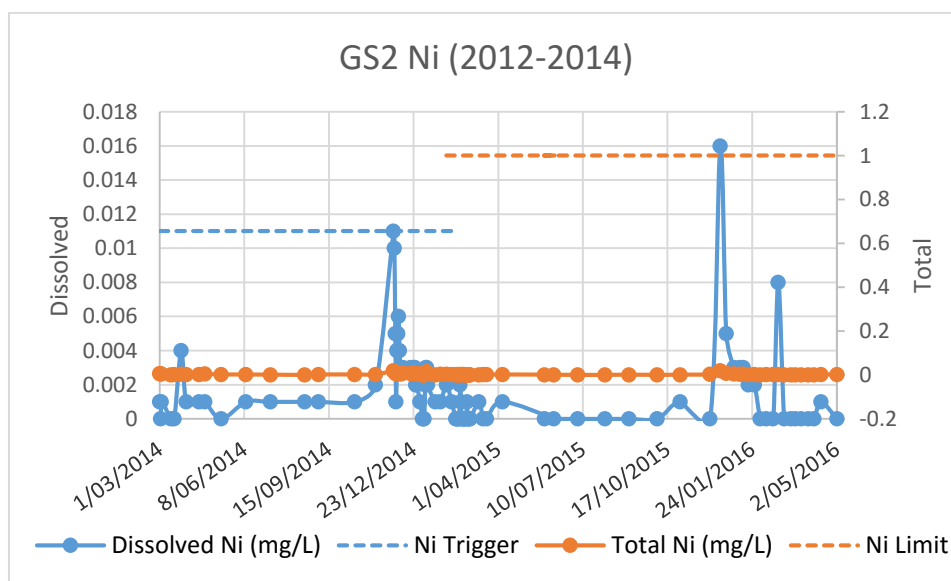


Figure 90- Nickel at GS2 during the period of TEP

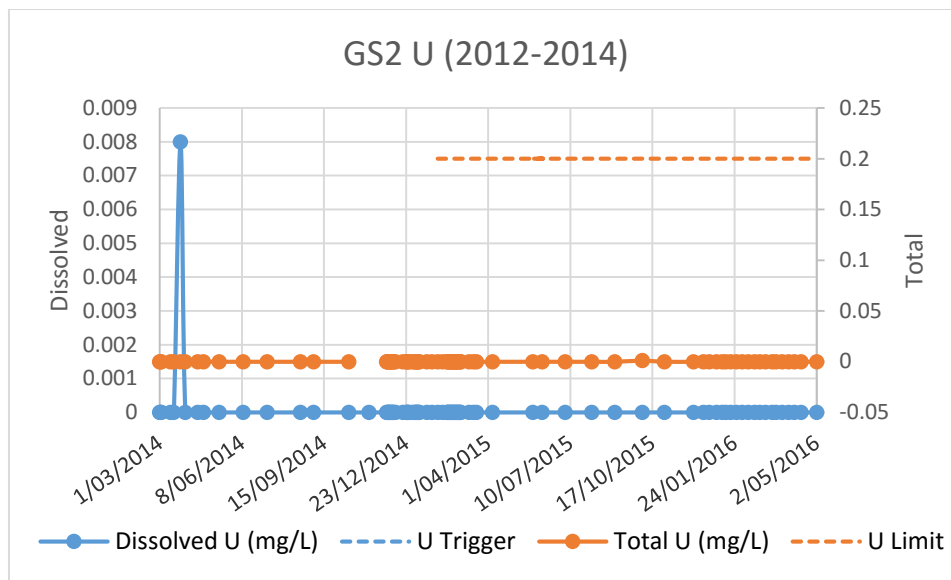


Figure 91- Uranium at GS2 during the period of TEP

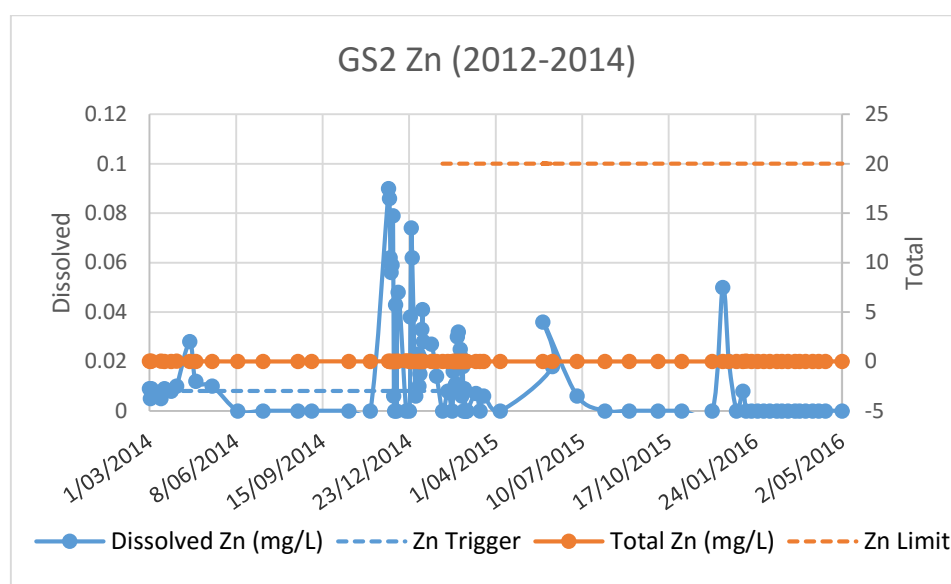


Figure 92- Zinc at GS2 during the period of TEP