

**Annex A**  
**Forest XRF data field**

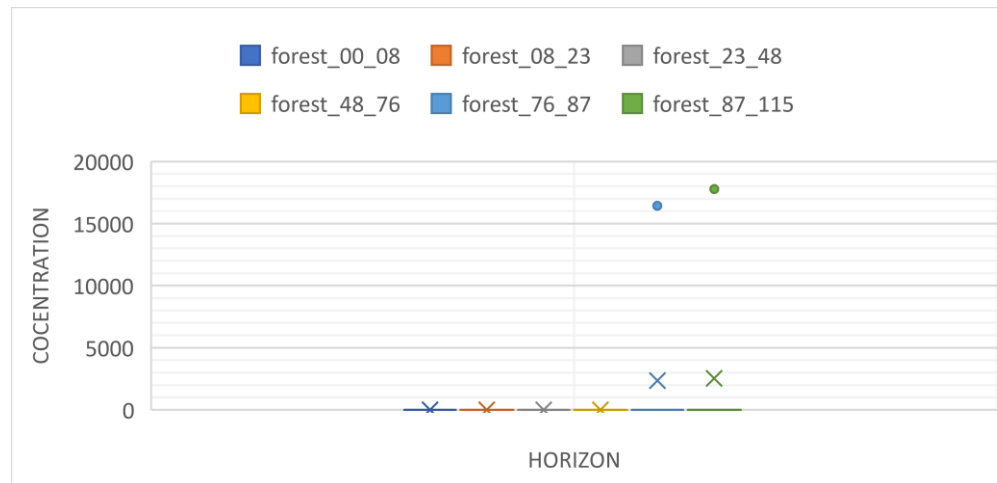
**Magnesium (ppm): pre-treatment**

Reading #	info	Units	Mg Concentration	Mg Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	0	14260	0	0	0	0	0	0
2	forest_00_08_2	PPM	0	13901	0	0	0	0	0	0
3	forest_00_08_3	PPM	0	12697	0	0	0	0	0	0
4	forest_00_08_4	PPM	0	10591	0	0	0	0	0	0
5	forest_00_08_5	PPM	0	22749	0	0	0	0	0	0
6	forest_00_08_6	PPM	0	10542	0	0	0	0	0	0
7	forest_00_08_7	PPM	0	15251	0	0	0	0	0	0
8	forest_08_23_1	PPM	0	10490	0	0	0	0	0	0
9	forest_08_23_2	PPM	0	10692	0	0	0	0	0	0
10	forest_08_23_3	PPM	0	12202	0	0	0	0	0	0
11	forest_08_23_4	PPM	0	11066	0	0	0	0	0	0
12	forest_08_23_5	PPM	0	10747	0	0	0	0	0	0
13	forest_08_23_6	PPM	0	8848	0	0	0	0	0	0
14	forest_08_23_7	PPM	0	9350	0	0	0	0	0	0
15	forest_23_48_1	PPM	0	10592	0	0	0	0	0	0
16	forest_23_48_2	PPM	0	11933	0	0	0	0	0	0
17	forest_23_48_3	PPM	0	9449	0	0	0	0	0	0
19	forest_23_48_4	PPM	0	10627	0	0	0	0	0	0
20	forest_23_48_5	PPM	0	17070	0	0	0	0	0	0
21	forest_23_48_6	PPM	0	8741	0	0	0	0	0	0
22	forest_23_48_7	PPM	0	16560	0	0	0	0	0	0
23	forest_48_76_1	PPM	0	10940	0	0	0	0	0	0
24	forest_48_76_2	PPM	0	7505	0	0	0	0	0	0
25	forest_48_76_3	PPM	0	8778	0	0	0	0	0	0
26	forest_48_76_4	PPM	0	10017	0	0	0	0	0	0
27	forest_48_76_5	PPM	0	8256	0	0	0	0	0	0
28	forest_48_76_6	PPM	0	10293	0	0	0	0	0	0
29	forest_48_76_7	PPM	0	10014	0	0	0	0	0	0
30	forest_76_87_1	PPM	16436	5119	2348	6212.224	0	0	16436	16436
31	forest_76_87_2	PPM	0	11130	2348	6212.224	0	0	16436	16436
32	forest_76_87_3	PPM	0	28742	2348	6212.224	0	0	16436	16436
33	forest_76_87_4	PPM	0	14762	2348	6212.224	0	0	16436	16436
34	forest_76_87_5	PPM	0	12485	2348	6212.224	0	0	16436	16436
35	forest_76_87_6	PPM	0	9252	2348	6212.224	0	0	16436	16436
36	forest_76_87_7	PPM	0	11729	2348	6212.224	0	0	16436	16436
37	forest_87_115_1	PPM	0	9489	2541.286	6723.61	0	0	17789	17789
38	forest_87_115_2	PPM	0	11743	2541.286	6723.61	0	0	17789	17789
39	forest_87_115_3	PPM	0	10151	2541.286	6723.61	0	0	17789	17789
40	forest_87_115_4	PPM	0	10569	2541.286	6723.61	0	0	17789	17789
41	forest_87_115_5	PPM	0	13349	2541.286	6723.61	0	0	17789	17789
42	forest_87_115_6	PPM	0	9075	2541.286	6723.61	0	0	17789	17789
43	forest_87_115_7	PPM	17789	3853	2541.286	6723.61	0	0	17789	17789

### Magnesium (ppm): Calculations

Mg						
	Mean	SD	Median	Min	Max	Range
forest_00_08	0	0	0	0	0	0
forest_08_23	0	0	0	0	0	0
forest_23_48	0	0	0	0	0	0
forest_48_76	0	0	0	0	0	0
forest_76_87	2348	6212.224078	0	0	16436	16436
forest_87_115	2541.285714	6723.61001	0	0	17789	17789

Mg					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
0	0	0	0	16436	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	17789



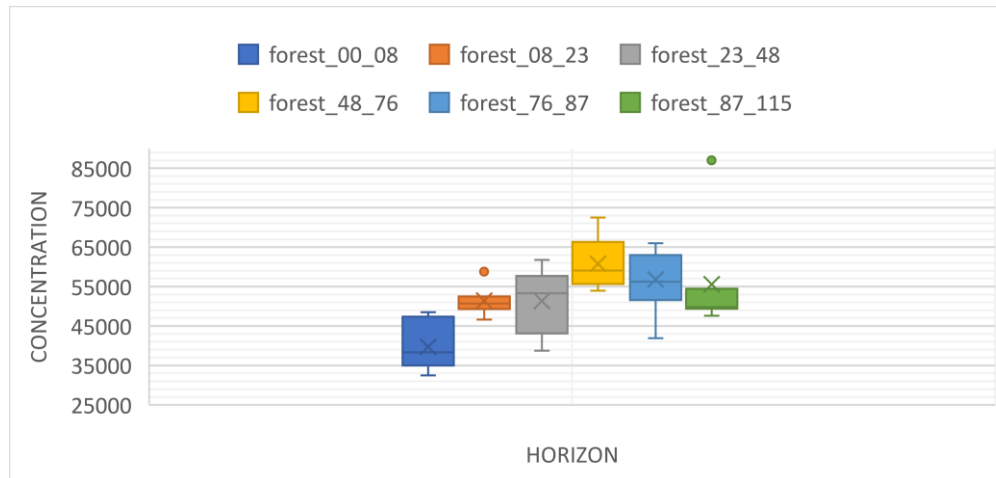
**Aluminum (ppm): pre-treatment**

Reading #	info	Units	Al Concentration	Al Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	32495	818	39676.71	6258.097	38293	32495	48467	15972
2	forest_00_08_2	PPM	34988	835	39676.71	6258.097	38293	32495	48467	15972
3	forest_00_08_3	PPM	41160	1029	39676.71	6258.097	38293	32495	48467	15972
4	forest_00_08_4	PPM	47315	1016	39676.71	6258.097	38293	32495	48467	15972
5	forest_00_08_5	PPM	35019	1165	39676.71	6258.097	38293	32495	48467	15972
6	forest_00_08_6	PPM	48467	929	39676.71	6258.097	38293	32495	48467	15972
7	forest_00_08_7	PPM	38293	1101	39676.71	6258.097	38293	32495	48467	15972
8	forest_08_23_1	PPM	52508	950	51400.29	3842.402	50723	46631	58816	12185
9	forest_08_23_2	PPM	49343	910	51400.29	3842.402	50723	46631	58816	12185
10	forest_08_23_3	PPM	50723	999	51400.29	3842.402	50723	46631	58816	12185
11	forest_08_23_4	PPM	46631	907	51400.29	3842.402	50723	46631	58816	12185
12	forest_08_23_5	PPM	49406	939	51400.29	3842.402	50723	46631	58816	12185
13	forest_08_23_6	PPM	58816	932	51400.29	3842.402	50723	46631	58816	12185
14	forest_08_23_7	PPM	52375	907	51400.29	3842.402	50723	46631	58816	12185
15	forest_23_48_1	PPM	53343	969	51365.57	7970.077	53328	38769	61718	22949
16	forest_23_48_2	PPM	53328	1041	51365.57	7970.077	53328	38769	61718	22949
17	forest_23_48_3	PPM	57677	954	51365.57	7970.077	53328	38769	61718	22949
19	forest_23_48_4	PPM	51583	1012	51365.57	7970.077	53328	38769	61718	22949
20	forest_23_48_5	PPM	43141	1321	51365.57	7970.077	53328	38769	61718	22949
21	forest_23_48_6	PPM	61718	962	51365.57	7970.077	53328	38769	61718	22949
22	forest_23_48_7	PPM	38769	967	51365.57	7970.077	53328	38769	61718	22949
23	forest_48_76_1	PPM	61366	1034	60819	6573.783	59038	53970	72510	18540
24	forest_48_76_2	PPM	72510	945	60819	6573.783	59038	53970	72510	18540
25	forest_48_76_3	PPM	66303	973	60819	6573.783	59038	53970	72510	18540
26	forest_48_76_4	PPM	59038	982	60819	6573.783	59038	53970	72510	18540
27	forest_48_76_5	PPM	56914	946	60819	6573.783	59038	53970	72510	18540
28	forest_48_76_6	PPM	53970	929	60819	6573.783	59038	53970	72510	18540
29	forest_48_76_7	PPM	55632	1019	60819	6573.783	59038	53970	72510	18540
30	forest_76_87_1	PPM	65984	1131	56816.14	8255.2	56236	41923	65984	24061
31	forest_76_87_2	PPM	62916	1093	56816.14	8255.2	56236	41923	65984	24061
32	forest_76_87_3	PPM	41923	1750	56816.14	8255.2	56236	41923	65984	24061
33	forest_76_87_4	PPM	51597	1207	56816.14	8255.2	56236	41923	65984	24061
34	forest_76_87_5	PPM	56236	1087	56816.14	8255.2	56236	41923	65984	24061
35	forest_76_87_6	PPM	62959	1043	56816.14	8255.2	56236	41923	65984	24061
36	forest_76_87_7	PPM	56098	1094	56816.14	8255.2	56236	41923	65984	24061
37	forest_87_115_1	PPM	49791	1063	55590.29	14026.92	49791	47638	87044	39406
38	forest_87_115_2	PPM	49378	1195	55590.29	14026.92	49791	47638	87044	39406
39	forest_87_115_3	PPM	51207	1267	55590.29	14026.92	49791	47638	87044	39406
40	forest_87_115_4	PPM	47638	1198	55590.29	14026.92	49791	47638	87044	39406
41	forest_87_115_5	PPM	49664	1250	55590.29	14026.92	49791	47638	87044	39406
42	forest_87_115_6	PPM	54410	1079	55590.29	14026.92	49791	47638	87044	39406
43	forest_87_115_7	PPM	87044	1090	55590.29	14026.92	49791	47638	87044	39406

### Aluminum (ppm): Calculations

Al						
	Mean	SD	Median	Min	Max	Range
forest_00_08	39676.71429	6258.097387	38293	32495	48467	15972
forest_08_23	51400.28571	3842.402014	50723	46631	58816	12185
forest_23_48	51365.57143	7970.076534	53328	38769	61718	22949
forest_48_76	60819	6573.782549	59038	53970	72510	18540
forest_76_87	56816.14286	8255.20045	56236	41923	65984	24061
forest_87_115	55590.28571	14026.91656	49791	47638	87044	39406

Al					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
32495	52508	53343	61366	65984	49791
34988	49343	53328	72510	62916	49378
41160	50723	57677	66303	41923	51207
47315	46631	51583	59038	51597	47638
35019	49406	43141	56914	56236	49664
48467	58816	61718	53970	62959	54410
38293	52375	38769	55632	56098	87044



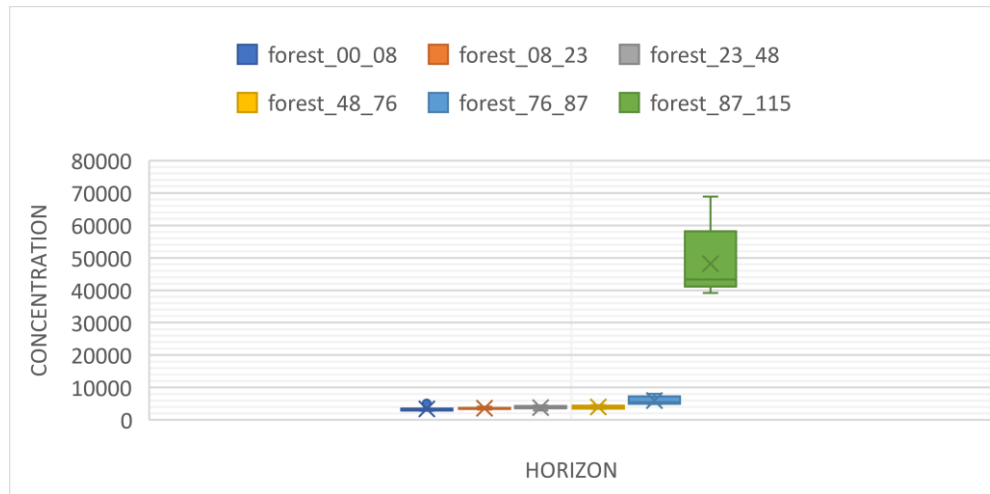
**Calcium (ppm): pre-treatment**

Reading #	info	Units	Ca Concentration	Ca Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	5060	38	3356.429	785.9069	3042	2776	5060	2284
2	forest_00_08_2	PPM	3215	32	3356.429	785.9069	3042	2776	5060	2284
3	forest_00_08_3	PPM	2776	38	3356.429	785.9069	3042	2776	5060	2284
4	forest_00_08_4	PPM	3487	40	3356.429	785.9069	3042	2776	5060	2284
5	forest_00_08_5	PPM	3037	45	3356.429	785.9069	3042	2776	5060	2284
6	forest_00_08_6	PPM	3042	35	3356.429	785.9069	3042	2776	5060	2284
7	forest_00_08_7	PPM	2878	42	3356.429	785.9069	3042	2776	5060	2284
8	forest_08_23_1	PPM	4077	38	3588.429	267.8207	3593	3235	4077	842
9	forest_08_23_2	PPM	3593	35	3588.429	267.8207	3593	3235	4077	842
10	forest_08_23_3	PPM	3503	39	3588.429	267.8207	3593	3235	4077	842
11	forest_08_23_4	PPM	3628	36	3588.429	267.8207	3593	3235	4077	842
12	forest_08_23_5	PPM	3235	36	3588.429	267.8207	3593	3235	4077	842
13	forest_08_23_6	PPM	3705	37	3588.429	267.8207	3593	3235	4077	842
14	forest_08_23_7	PPM	3378	35	3588.429	267.8207	3593	3235	4077	842
15	forest_23_48_1	PPM	3776	38	3839	528.8396	3776	2862	4473	1611
16	forest_23_48_2	PPM	4277	44	3839	528.8396	3776	2862	4473	1611
17	forest_23_48_3	PPM	3744	37	3839	528.8396	3776	2862	4473	1611
19	forest_23_48_4	PPM	3631	39	3839	528.8396	3776	2862	4473	1611
20	forest_23_48_5	PPM	4473	59	3839	528.8396	3776	2862	4473	1611
21	forest_23_48_6	PPM	4110	39	3839	528.8396	3776	2862	4473	1611
22	forest_23_48_7	PPM	2862	35	3839	528.8396	3776	2862	4473	1611
23	forest_48_76_1	PPM	3832	40	4007.571	446.7933	4110	3435	4639	1204
24	forest_48_76_2	PPM	4110	37	4007.571	446.7933	4110	3435	4639	1204
25	forest_48_76_3	PPM	4191	38	4007.571	446.7933	4110	3435	4639	1204
26	forest_48_76_4	PPM	4639	41	4007.571	446.7933	4110	3435	4639	1204
27	forest_48_76_5	PPM	4360	38	4007.571	446.7933	4110	3435	4639	1204
28	forest_48_76_6	PPM	3435	34	4007.571	446.7933	4110	3435	4639	1204
29	forest_48_76_7	PPM	3486	38	4007.571	446.7933	4110	3435	4639	1204
30	forest_76_87_1	PPM	5930	58	5963.286	1218.833	5520	4910	8013	3103
31	forest_76_87_2	PPM	5083	47	5963.286	1218.833	5520	4910	8013	3103
32	forest_76_87_3	PPM	7276	96	5963.286	1218.833	5520	4910	8013	3103
33	forest_76_87_4	PPM	8013	69	5963.286	1218.833	5520	4910	8013	3103
34	forest_76_87_5	PPM	5011	48	5963.286	1218.833	5520	4910	8013	3103
35	forest_76_87_6	PPM	5520	49	5963.286	1218.833	5520	4910	8013	3103
36	forest_76_87_7	PPM	4910	49	5963.286	1218.833	5520	4910	8013	3103
37	forest_87_115_1	PPM	58140	299	48148.57	11065.5	43310	39144	68847	29703
38	forest_87_115_2	PPM	41791	242	48148.57	11065.5	43310	39144	68847	29703
39	forest_87_115_3	PPM	68847	362	48148.57	11065.5	43310	39144	68847	29703
40	forest_87_115_4	PPM	41102	242	48148.57	11065.5	43310	39144	68847	29703
41	forest_87_115_5	PPM	39144	238	48148.57	11065.5	43310	39144	68847	29703
42	forest_87_115_6	PPM	43310	220	48148.57	11065.5	43310	39144	68847	29703
43	forest_87_115_7	PPM	44706	244	48148.57	11065.5	43310	39144	68847	29703

### Calcium (ppm): Calculations

Ca						
	Mean	SD	Median	Min	Max	Range
forest_00_08	3356.428571	785.9068768	3042	2776	5060	2284
forest_08_23	3588.428571	267.8207467	3593	3235	4077	842
forest_23_48	3839	528.8396102	3776	2862	4473	1611
forest_48_76	4007.571429	446.7933367	4110	3435	4639	1204
forest_76_87	5963.285714	1218.832736	5520	4910	8013	3103
forest_87_115	48148.57143	11065.50083	43310	39144	68847	29703

Ca					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
5060	4077	3776	3832	5930	58140
3215	3593	4277	4110	5083	41791
2776	3503	3744	4191	7276	68847
3487	3628	3631	4639	8013	41102
3037	3235	4473	4360	5011	39144
3042	3705	4110	3435	5520	43310
2878	3378	2862	3486	4910	44706



**Sulphur (ppm): pre-treatment**

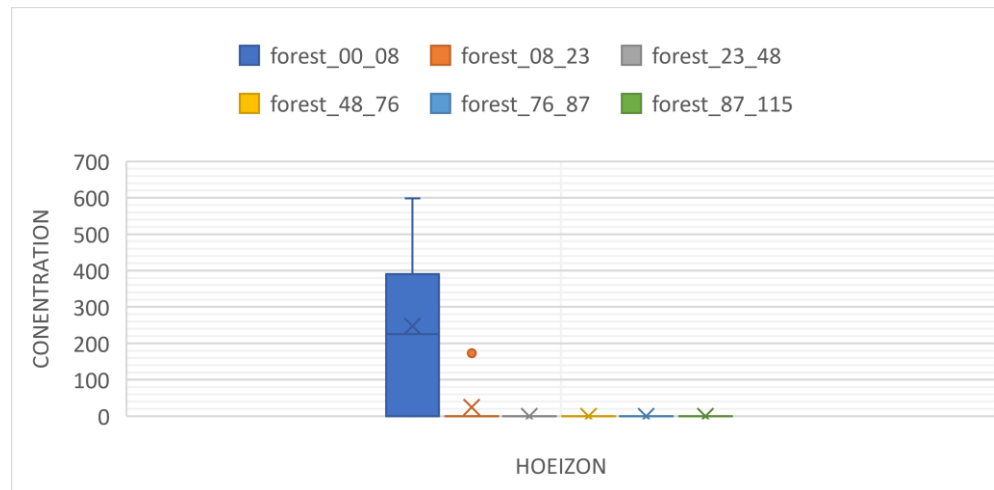
Reading #	info	Units	S Concentration	S Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	598	41	247.2857	214.1461	225	0	598	598
2	forest_00_08_2	PPM	193	39	247.2857	214.1461	225	0	598	598
3	forest_00_08_3	PPM	0	277	247.2857	214.1461	225	0	598	598
4	forest_00_08_4	PPM	390	53	247.2857	214.1461	225	0	598	598
5	forest_00_08_5	PPM	0	400	247.2857	214.1461	225	0	598	598
6	forest_00_08_6	PPM	325	45	247.2857	214.1461	225	0	598	598
7	forest_00_08_7	PPM	225	63	247.2857	214.1461	225	0	598	598
8	forest_08_23_1	PPM	0	186	24.71429	65.38785	0	0	173	173
9	forest_08_23_2	PPM	0	188	24.71429	65.38785	0	0	173	173
10	forest_08_23_3	PPM	0	216	24.71429	65.38785	0	0	173	173
11	forest_08_23_4	PPM	0	197	24.71429	65.38785	0	0	173	173
12	forest_08_23_5	PPM	0	184	24.71429	65.38785	0	0	173	173
13	forest_08_23_6	PPM	0	148	24.71429	65.38785	0	0	173	173
14	forest_08_23_7	PPM	173	42	24.71429	65.38785	0	0	173	173
15	forest_23_48_1	PPM	0	179	0	0	0	0	0	0
16	forest_23_48_2	PPM	0	197	0	0	0	0	0	0
17	forest_23_48_3	PPM	0	156	0	0	0	0	0	0
19	forest_23_48_4	PPM	0	215	0	0	0	0	0	0
20	forest_23_48_5	PPM	0	345	0	0	0	0	0	0
21	forest_23_48_6	PPM	0	151	0	0	0	0	0	0
22	forest_23_48_7	PPM	0	303	0	0	0	0	0	0
23	forest_48_76_1	PPM	0	196	0	0	0	0	0	0
24	forest_48_76_2	PPM	0	131	0	0	0	0	0	0
25	forest_48_76_3	PPM	0	146	0	0	0	0	0	0
26	forest_48_76_4	PPM	0	177	0	0	0	0	0	0
27	forest_48_76_5	PPM	0	183	0	0	0	0	0	0
28	forest_48_76_6	PPM	0	192	0	0	0	0	0	0
29	forest_48_76_7	PPM	0	208	0	0	0	0	0	0
30	forest_76_87_1	PPM	0	168	0	0	0	0	0	0
31	forest_76_87_2	PPM	0	195	0	0	0	0	0	0
32	forest_76_87_3	PPM	0	569	0	0	0	0	0	0
33	forest_76_87_4	PPM	0	246	0	0	0	0	0	0
34	forest_76_87_5	PPM	0	209	0	0	0	0	0	0
35	forest_76_87_6	PPM	0	157	0	0	0	0	0	0
36	forest_76_87_7	PPM	0	200	0	0	0	0	0	0
37	forest_87_115_1	PPM	0	166	0	0	0	0	0	0
38	forest_87_115_2	PPM	0	197	0	0	0	0	0	0
39	forest_87_115_3	PPM	0	176	0	0	0	0	0	0
40	forest_87_115_4	PPM	0	211	0	0	0	0	0	0
41	forest_87_115_5	PPM	0	224	0	0	0	0	0	0
42	forest_87_115_6	PPM	0	156	0	0	0	0	0	0
43	forest_87_115_7	PPM	0	91	0	0	0	0	0	0



### Sulphur (ppm): Calculations

S						
	Mean	SD	Median	Min	Max	Range
forest_00_08	247.2857143	214.146145	225	0	598	598
forest_08_23	24.71428571	65.38785383	0	0	173	173
forest_23_48	0	0	0	0	0	0
forest_48_76	0	0	0	0	0	0
forest_76_87	0	0	0	0	0	0
forest_87_115	0	0	0	0	0	0

S					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
598	0	0	0	0	0
193	0	0	0	0	0
0	0	0	0	0	0
390	0	0	0	0	0
0	0	0	0	0	0
325	0	0	0	0	0
225	173	0	0	0	0



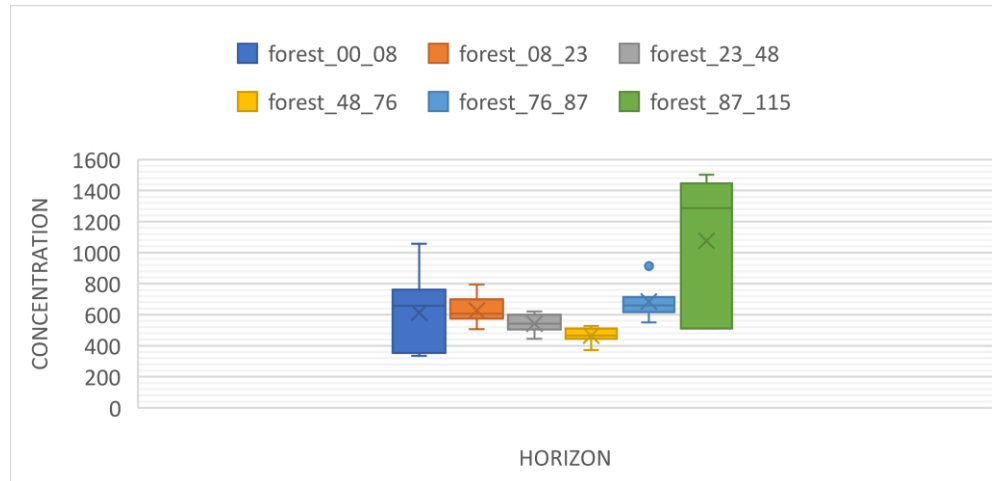
**Manganese (ppm): pre-treatment**

Reading #	info	Units	Mn Concentration	Mn Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	1058	25	611.5714	263.6354	658	336	1058	722
2	forest_00_08_2	PPM	658	21	611.5714	263.6354	658	336	1058	722
3	forest_00_08_3	PPM	407	21	611.5714	263.6354	658	336	1058	722
4	forest_00_08_4	PPM	707	25	611.5714	263.6354	658	336	1058	722
5	forest_00_08_5	PPM	336	22	611.5714	263.6354	658	336	1058	722
6	forest_00_08_6	PPM	761	24	611.5714	263.6354	658	336	1058	722
7	forest_00_08_7	PPM	354	22	611.5714	263.6354	658	336	1058	722
8	forest_08_23_1	PPM	575	21	627.8571	92.9685	607	506	794	288
9	forest_08_23_2	PPM	607	21	627.8571	92.9685	607	506	794	288
10	forest_08_23_3	PPM	601	23	627.8571	92.9685	607	506	794	288
11	forest_08_23_4	PPM	612	22	627.8571	92.9685	607	506	794	288
12	forest_08_23_5	PPM	794	25	627.8571	92.9685	607	506	794	288
13	forest_08_23_6	PPM	506	20	627.8571	92.9685	607	506	794	288
14	forest_08_23_7	PPM	700	23	627.8571	92.9685	607	506	794	288
15	forest_23_48_1	PPM	600	22	542	59.26213	542	445	621	176
16	forest_23_48_2	PPM	559	23	542	59.26213	542	445	621	176
17	forest_23_48_3	PPM	522	20	542	59.26213	542	445	621	176
19	forest_23_48_4	PPM	505	21	542	59.26213	542	445	621	176
20	forest_23_48_5	PPM	542	29	542	59.26213	542	445	621	176
21	forest_23_48_6	PPM	621	22	542	59.26213	542	445	621	176
22	forest_23_48_7	PPM	445	20	542	59.26213	542	445	621	176
23	forest_48_76_1	PPM	445	20	465	51.12403	465	373	527	154
24	forest_48_76_2	PPM	486	19	465	51.12403	465	373	527	154
25	forest_48_76_3	PPM	373	18	465	51.12403	465	373	527	154
26	forest_48_76_4	PPM	512	21	465	51.12403	465	373	527	154
27	forest_48_76_5	PPM	465	19	465	51.12403	465	373	527	154
28	forest_48_76_6	PPM	447	19	465	51.12403	465	373	527	154
29	forest_48_76_7	PPM	527	21	465	51.12403	465	373	527	154
30	forest_76_87_1	PPM	647	25	685.7143	113.7537	660	551	913	362
31	forest_76_87_2	PPM	617	24	685.7143	113.7537	660	551	913	362
32	forest_76_87_3	PPM	551	37	685.7143	113.7537	660	551	913	362
33	forest_76_87_4	PPM	913	33	685.7143	113.7537	660	551	913	362
34	forest_76_87_5	PPM	714	26	685.7143	113.7537	660	551	913	362
35	forest_76_87_6	PPM	660	25	685.7143	113.7537	660	551	913	362
36	forest_76_87_7	PPM	698	27	685.7143	113.7537	660	551	913	362
37	forest_87_115_1	PPM	512	26	1076	446.2103	1288	511	1502	991
38	forest_87_115_2	PPM	1288	41	1076	446.2103	1288	511	1502	991
39	forest_87_115_3	PPM	831	31	1076	446.2103	1288	511	1502	991
40	forest_87_115_4	PPM	1502	44	1076	446.2103	1288	511	1502	991
41	forest_87_115_5	PPM	511	29	1076	446.2103	1288	511	1502	991
42	forest_87_115_6	PPM	1442	39	1076	446.2103	1288	511	1502	991
43	forest_87_115_7	PPM	1446	36	1076	446.2103	1288	511	1502	991

### Manganese (ppm): Calculations

Mn						
	Mean	SD	Median	Min	Max	Range
forest_00_08	611.5714286	263.6353904	658	336	1058	722
forest_08_23	627.8571429	92.96850465	607	506	794	288
forest_23_48	542	59.26212956	542	445	621	176
forest_48_76	465	51.12403218	465	373	527	154
forest_76_87	685.7142857	113.7537022	660	551	913	362
forest_87_115	1076	446.210339	1288	511	1502	991

Mn					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
1058	575	600	445	647	512
658	607	559	486	617	1288
407	601	522	373	551	831
707	612	505	512	913	1502
336	794	542	465	714	511
761	506	621	447	660	1442
354	700	445	527	698	1446



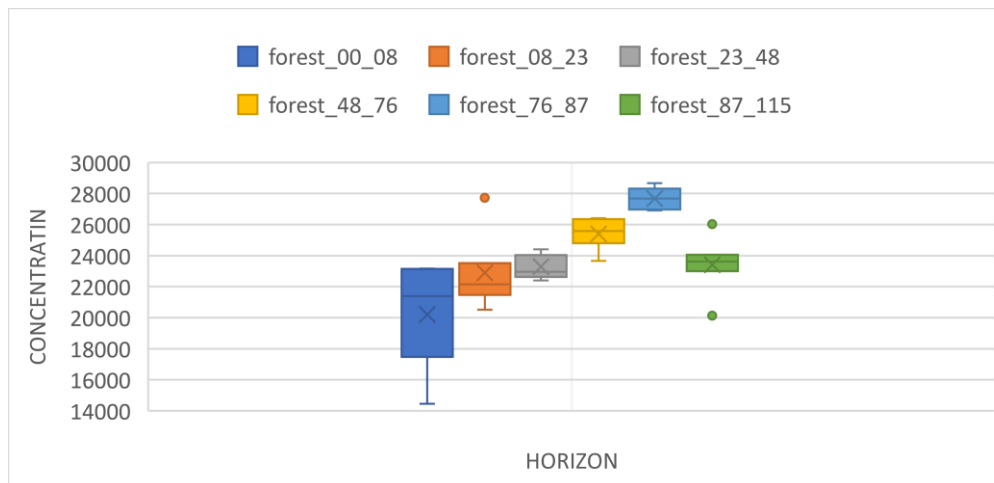
**Iron (ppm): pre-treatment**

Reading #	info	Units	Fe Concentration	Fe Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	14459	92	20209.29	3290.699	21393	14459	23170	8711
2	forest_00_08_2	PPM	17477	107	20209.29	3290.699	21393	14459	23170	8711
3	forest_00_08_3	PPM	23149	155	20209.29	3290.699	21393	14459	23170	8711
4	forest_00_08_4	PPM	21393	139	20209.29	3290.699	21393	14459	23170	8711
5	forest_00_08_5	PPM	19383	154	20209.29	3290.699	21393	14459	23170	8711
6	forest_00_08_6	PPM	23170	136	20209.29	3290.699	21393	14459	23170	8711
7	forest_00_08_7	PPM	22434	163	20209.29	3290.699	21393	14459	23170	8711
8	forest_08_23_1	PPM	22162	131	22903.43	2375.09	22162	20525	27726	7201
9	forest_08_23_2	PPM	23520	134	22903.43	2375.09	22162	20525	27726	7201
10	forest_08_23_3	PPM	23342	144	22903.43	2375.09	22162	20525	27726	7201
11	forest_08_23_4	PPM	21584	128	22903.43	2375.09	22162	20525	27726	7201
12	forest_08_23_5	PPM	27726	158	22903.43	2375.09	22162	20525	27726	7201
13	forest_08_23_6	PPM	21465	122	22903.43	2375.09	22162	20525	27726	7201
14	forest_08_23_7	PPM	20525	120	22903.43	2375.09	22162	20525	27726	7201
15	forest_23_48_1	PPM	22867	137	23291.86	766.613	22952	22399	24403	2004
16	forest_23_48_2	PPM	23747	150	23291.86	766.613	22952	22399	24403	2004
17	forest_23_48_3	PPM	24040	136	23291.86	766.613	22952	22399	24403	2004
19	forest_23_48_4	PPM	22399	141	23291.86	766.613	22952	22399	24403	2004
20	forest_23_48_5	PPM	22635	189	23291.86	766.613	22952	22399	24403	2004
21	forest_23_48_6	PPM	24403	137	23291.86	766.613	22952	22399	24403	2004
22	forest_23_48_7	PPM	22952	148	23291.86	766.613	22952	22399	24403	2004
23	forest_48_76_1	PPM	23669	142	25402.71	976.4898	25595	23669	26416	2747
24	forest_48_76_2	PPM	26355	135	25402.71	976.4898	25595	23669	26416	2747
25	forest_48_76_3	PPM	25917	141	25402.71	976.4898	25595	23669	26416	2747
26	forest_48_76_4	PPM	25595	146	25402.71	976.4898	25595	23669	26416	2747
27	forest_48_76_5	PPM	24792	139	25402.71	976.4898	25595	23669	26416	2747
28	forest_48_76_6	PPM	25075	140	25402.71	976.4898	25595	23669	26416	2747
29	forest_48_76_7	PPM	26416	157	25402.71	976.4898	25595	23669	26416	2747
30	forest_76_87_1	PPM	27679	217	27668	649.3802	27679	26920	27668	748
31	forest_76_87_2	PPM	28673	175	27668	649.3802	27679	26920	27668	748
32	forest_76_87_3	PPM	26967	277	27668	649.3802	27679	26920	27668	748
33	forest_76_87_4	PPM	27696	197	27668	649.3802	27679	26920	27668	748
34	forest_76_87_5	PPM	27431	173	27668	649.3802	27679	26920	27668	748
35	forest_76_87_6	PPM	28310	166	27668	649.3802	27679	26920	27668	748
36	forest_76_87_7	PPM	26920	173	27668	649.3802	27679	26920	27668	748
37	forest_87_115_1	PPM	23736	170	23407.29	1749.605	23623	20139	26039	5900
38	forest_87_115_2	PPM	23623	183	23407.29	1749.605	23623	20139	26039	5900
39	forest_87_115_3	PPM	20139	154	23407.29	1749.605	23623	20139	26039	5900
40	forest_87_115_4	PPM	23009	182	23407.29	1749.605	23623	20139	26039	5900
41	forest_87_115_5	PPM	23249	187	23407.29	1749.605	23623	20139	26039	5900
42	forest_87_115_6	PPM	24056	165	23407.29	1749.605	23623	20139	26039	5900
43	forest_87_115_7	PPM	26039	177	23407.29	1749.605	23623	20139	26039	5900

### Iron (ppm): Calculations

Fe						
	Mean	SD	Median	Min	Max	Range
forest_00_08	20209.28571	3290.69905	21393	14459	23170	8711
forest_08_23	22903.42857	2375.089743	22162	20525	27726	7201
forest_23_48	23291.85714	766.6129898	22952	22399	24403	2004
forest_48_76	25402.71429	976.4897532	25595	23669	26416	2747
forest_76_87	27668	649.3802173	27679	26920	28673	1753
forest_87_115	23407.28571	1749.605357	23623	20139	26039	5900

Fe					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
14459	22162	22867	23669	27679	23736
17477	23520	23747	26355	28673	23623
23149	23342	24040	25917	26967	20139
21393	21584	22399	25595	27696	23009
19383	27726	22635	24792	27431	23249
23170	21465	24403	25075	28310	24056
22434	20525	22952	26416	26920	26039



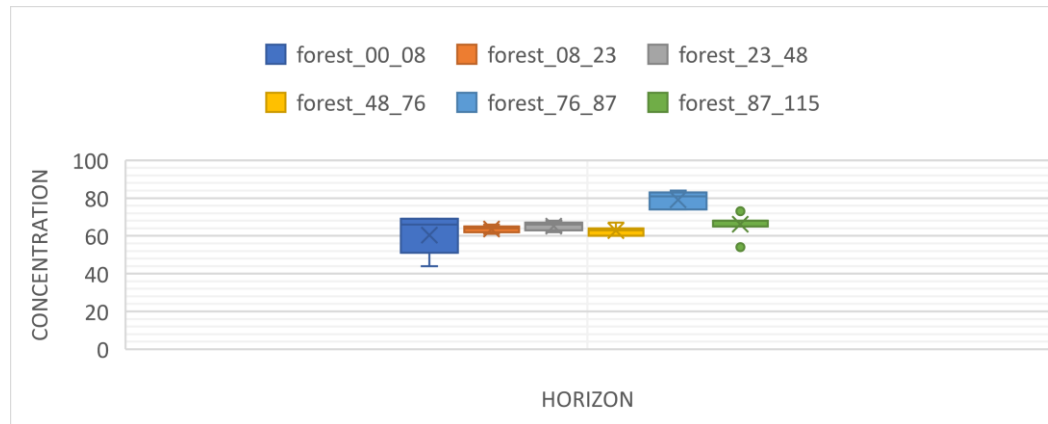
### Rubidium (ppm): pre-treatment

Reading #	info	Units	Rb Concen	Rb Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	44	1	60.42857	9.930712	66	44	69	25
2	forest_00_08_2	PPM	51	1	60.42857	9.930712	66	44	69	25
3	forest_00_08_3	PPM	66	2	60.42857	9.930712	66	44	69	25
4	forest_00_08_4	PPM	67	1	60.42857	9.930712	66	44	69	25
5	forest_00_08_5	PPM	57	2	60.42857	9.930712	66	44	69	25
6	forest_00_08_6	PPM	69	1	60.42857	9.930712	66	44	69	25
7	forest_00_08_7	PPM	69	2	60.42857	9.930712	66	44	69	25
8	forest_08_23_1	PPM	64	1	63.71429	1.799471	64	61	66	5
9	forest_08_23_2	PPM	65	1	63.71429	1.799471	64	61	66	5
10	forest_08_23_3	PPM	66	1	63.71429	1.799471	64	61	66	5
11	forest_08_23_4	PPM	62	1	63.71429	1.799471	64	61	66	5
12	forest_08_23_5	PPM	61	1	63.71429	1.799471	64	61	66	5
13	forest_08_23_6	PPM	63	1	63.71429	1.799471	64	61	66	5
14	forest_08_23_7	PPM	65	1	63.71429	1.799471	64	61	66	5
15	forest_23_48_1	PPM	67	1	65.14286	2.193063	66	62	68	6
16	forest_23_48_2	PPM	66	1	65.14286	2.193063	66	62	68	6
17	forest_23_48_3	PPM	66	1	65.14286	2.193063	66	62	68	6
19	forest_23_48_4	PPM	62	1	65.14286	2.193063	66	62	68	6
20	forest_23_48_5	PPM	64	2	65.14286	2.193063	66	62	68	6
21	forest_23_48_6	PPM	68	1	65.14286	2.193063	66	62	68	6
22	forest_23_48_7	PPM	63	1	65.14286	2.193063	66	62	68	6
23	forest_48_76_1	PPM	60	1	62.71429	2.56348	63	60	67	7
24	forest_48_76_2	PPM	64	1	62.71429	2.56348	63	60	67	7
25	forest_48_76_3	PPM	63	1	62.71429	2.56348	63	60	67	7
26	forest_48_76_4	PPM	60	1	62.71429	2.56348	63	60	67	7
27	forest_48_76_5	PPM	64	1	62.71429	2.56348	63	60	67	7
28	forest_48_76_6	PPM	61	1	62.71429	2.56348	63	60	67	7
29	forest_48_76_7	PPM	67	1	62.71429	2.56348	63	60	67	7
30	forest_76_87_1	PPM	74	2	79	4.472136	81	74	84	10
31	forest_76_87_2	PPM	75	2	79	4.472136	81	74	84	10
32	forest_76_87_3	PPM	84	3	79	4.472136	81	74	84	10
33	forest_76_87_4	PPM	81	2	79	4.472136	81	74	84	10
34	forest_76_87_5	PPM	74	2	79	4.472136	81	74	84	10
35	forest_76_87_6	PPM	83	2	79	4.472136	81	74	84	10
36	forest_76_87_7	PPM	82	2	79	4.472136	81	74	84	10
37	forest_87_115_1	PPM	65	2	66.14286	5.871643	68	54	73	19
38	forest_87_115_2	PPM	73	2	66.14286	5.871643	68	54	73	19
39	forest_87_115_3	PPM	54	2	66.14286	5.871643	68	54	73	19
40	forest_87_115_4	PPM	67	2	66.14286	5.871643	68	54	73	19
41	forest_87_115_5	PPM	68	2	66.14286	5.871643	68	54	73	19
42	forest_87_115_6	PPM	68	2	66.14286	5.871643	68	54	73	19
43	forest_87_115_7	PPM	68	2	66.14286	5.871643	68	54	73	19

### Rubidium (ppm): Calculations

Rb						
	Mean	SD	Median	Min	Max	Range
forest_00_08	60.42857143	9.930712342	66	44	69	25
forest_08_23	63.71428571	1.799470822	64	61	66	5
forest_23_48	65.14285714	2.193062655	66	62	68	6
forest_48_76	62.71428571	2.563479778	63	60	67	7
forest_76_87	79	4.472135955	81	74	84	10
forest_87_115	66.14285714	5.871642911	68	54	73	19

Rb					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
44	64	67	60	74	65
51	65	66	64	75	73
66	66	66	63	84	54
67	62	62	60	81	67
57	61	64	64	74	68
69	63	68	61	83	68
69	65	63	67	82	68



**Titanium (ppm): pre-treatment**

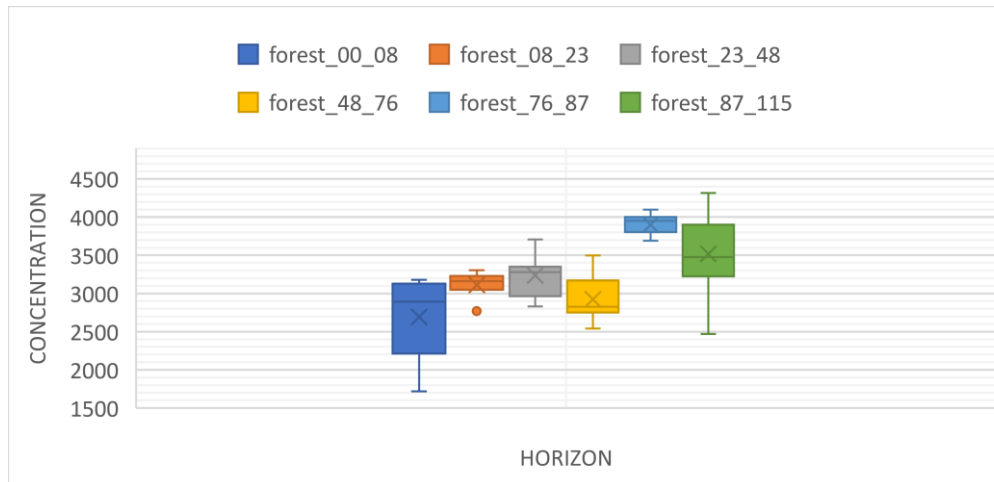
Reading #	info	Units	Ti Concentration	Ti Error1s	Mean	SD	Median	Min	Max	Range
1	forest_00_08_1	PPM	1719	91	2693	553.9302	2893	1719	3180	1461
2	forest_00_08_2	PPM	2213	99	2693	553.9302	2893	1719	3180	1461
3	forest_00_08_3	PPM	3180	132	2693	553.9302	2893	1719	3180	1461
4	forest_00_08_4	PPM	2893	124	2693	553.9302	2893	1719	3180	1461
5	forest_00_08_5	PPM	2594	139	2693	553.9302	2893	1719	3180	1461
6	forest_00_08_6	PPM	3128	117	2693	553.9302	2893	1719	3180	1461
7	forest_00_08_7	PPM	3124	140	2693	553.9302	2893	1719	3180	1461
8	forest_08_23_1	PPM	3160	118	3113.571	176.9904	3160	2768	3303	535
9	forest_08_23_2	PPM	3228	114	3113.571	176.9904	3160	2768	3303	535
10	forest_08_23_3	PPM	3303	125	3113.571	176.9904	3160	2768	3303	535
11	forest_08_23_4	PPM	3219	116	3113.571	176.9904	3160	2768	3303	535
12	forest_08_23_5	PPM	2768	113	3113.571	176.9904	3160	2768	3303	535
13	forest_08_23_6	PPM	3048	114	3113.571	176.9904	3160	2768	3303	535
14	forest_08_23_7	PPM	3069	114	3113.571	176.9904	3160	2768	3303	535
15	forest_23_48_1	PPM	3353	123	3239	284.9772	3280	2830	3707	877
16	forest_23_48_2	PPM	3334	131	3239	284.9772	3280	2830	3707	877
17	forest_23_48_3	PPM	3206	117	3239	284.9772	3280	2830	3707	877
19	forest_23_48_4	PPM	2830	120	3239	284.9772	3280	2830	3707	877
20	forest_23_48_5	PPM	3707	173	3239	284.9772	3280	2830	3707	877
21	forest_23_48_6	PPM	3280	118	3239	284.9772	3280	2830	3707	877
22	forest_23_48_7	PPM	2963	120	3239	284.9772	3280	2830	3707	877
23	forest_48_76_1	PPM	2540	114	2921.571	315.9403	2828	2540	3496	956
24	forest_48_76_2	PPM	2774	106	2921.571	315.9403	2828	2540	3496	956
25	forest_48_76_3	PPM	2749	110	2921.571	315.9403	2828	2540	3496	956
26	forest_48_76_4	PPM	3496	121	2921.571	315.9403	2828	2540	3496	956
27	forest_48_76_5	PPM	2828	110	2921.571	315.9403	2828	2540	3496	956
28	forest_48_76_6	PPM	2893	109	2921.571	315.9403	2828	2540	3496	956
29	forest_48_76_7	PPM	3171	121	2921.571	315.9403	2828	2540	3496	956
30	forest_76_87_1	PPM	4002	139	3902.429	138.3556	3952	3691	4097	406
31	forest_76_87_2	PPM	3952	139	3902.429	138.3556	3952	3691	4097	406
32	forest_76_87_3	PPM	3816	215	3902.429	138.3556	3952	3691	4097	406
33	forest_76_87_4	PPM	3955	160	3902.429	138.3556	3952	3691	4097	406
34	forest_76_87_5	PPM	3691	138	3902.429	138.3556	3952	3691	4097	406
35	forest_76_87_6	PPM	4097	139	3902.429	138.3556	3952	3691	4097	406
36	forest_76_87_7	PPM	3804	144	3902.429	138.3556	3952	3691	4097	406
37	forest_87_115_1	PPM	3477	154	3518.571	583.6097	3477	2469	4316	1847
38	forest_87_115_2	PPM	3225	163	3518.571	583.6097	3477	2469	4316	1847
39	forest_87_115_3	PPM	2469	138	3518.571	583.6097	3477	2469	4316	1847
40	forest_87_115_4	PPM	3782	171	3518.571	583.6097	3477	2469	4316	1847
41	forest_87_115_5	PPM	3461	171	3518.571	583.6097	3477	2469	4316	1847
42	forest_87_115_6	PPM	3900	156	3518.571	583.6097	3477	2469	4316	1847
43	forest_87_115_7	PPM	4316	148	3518.571	583.6097	3477	2469	4316	1847



Titanium (ppm): Calculations

Ti						
	Mean	SD	Median	Min	Max	Range
forest_00_08	2693	553.9302002	2893	1719	3180	1461
forest_08_23	3113.571429	176.990449	3160	2768	3303	535
forest_23_48	3239	284.9771921	3280	2830	3707	877
forest_48_76	2921.571429	315.9403199	2828	2540	3496	956
forest_76_87	3902.428571	138.3556494	3952	3691	4097	406
forest_87_115	3518.571429	583.6097032	3477	2469	4316	1847

Ti					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
1719	3160	3353	2540	4002	3477
2213	3228	3334	2774	3952	3225
3180	3303	3206	2749	3816	2469
2893	3219	2830	3496	3955	3782
2594	2768	3707	2828	3691	3461
3128	3048	3280	2893	4097	3900
3124	3069	2963	3171	3804	4316



**Annex B**  
**Forest XRF data wet**

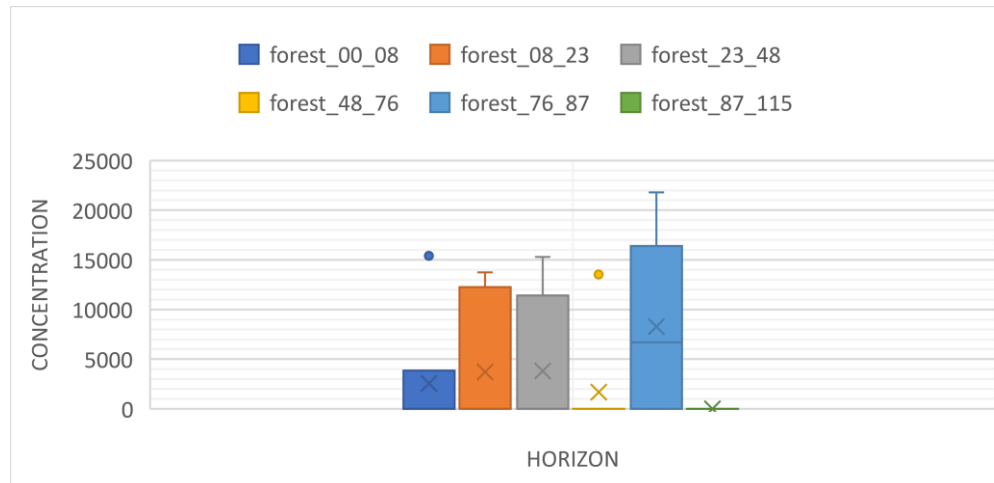
**Magnesium (ppm): wet**

Reading #	info	Units	Mg Concentration	Mg Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	15404	4062	2200.571	5822.165	0	0	15404	15404
45	forest_00_08	PPM	0	7909	2200.571	5822.165	0	0	15404	15404
46	forest_00_08	PPM	0	8517	2200.571	5822.165	0	0	15404	15404
47	forest_00_08	PPM	0	7742	2200.571	5822.165	0	0	15404	15404
48	forest_00_08	PPM	0	7674	2200.571	5822.165	0	0	15404	15404
49	forest_00_08	PPM	0	8173	2200.571	5822.165	0	0	15404	15404
50	forest_08_23	PPM	0	14943	3710.429	6351.364	0	0	13732	13732
51	forest_08_23	PPM	0	7390	3710.429	6351.364	0	0	13732	13732
52	forest_08_23	PPM	0	7050	3710.429	6351.364	0	0	13732	13732
53	forest_08_23	PPM	0	9788	3710.429	6351.364	0	0	13732	13732
54	forest_08_23	PPM	0	8918	3710.429	6351.364	0	0	13732	13732
55	forest_08_23	PPM	12241	3194	3710.429	6351.364	0	0	13732	13732
56	forest_08_23	PPM	13732	3695	3710.429	6351.364	0	0	13732	13732
57	forest_23_48	PPM	0	7258	3816.286	6613.483	0	0	15301	15301
58	forest_23_48	PPM	11413	3749	3816.286	6613.483	0	0	15301	15301
59	forest_23_48	PPM	0	9704	3816.286	6613.483	0	0	15301	15301
60	forest_23_48	PPM	0	9046	3816.286	6613.483	0	0	15301	15301
61	forest_23_48	PPM	0	11732	3816.286	6613.483	0	0	15301	15301
62	forest_23_48	PPM	15301	4457	3816.286	6613.483	0	0	15301	15301
63	forest_23_48	PPM	0	10651	3816.286	6613.483	0	0	15301	15301
64	forest_48_76	PPM	0	13047	1935.286	5120.285	0	0	13547	13547
65	forest_48_76	PPM	13547	4312	1935.286	5120.285	0	0	13547	13547
66	forest_48_76	PPM	0	13421	1935.286	5120.285	0	0	13547	13547
67	forest_48_76	PPM	0	11945	1935.286	5120.285	0	0	13547	13547
68	forest_48_76	PPM	0	13431	1935.286	5120.285	0	0	13547	13547
69	forest_48_76	PPM	0	14533	1935.286	5120.285	0	0	13547	13547
70	forest_48_76	PPM	0	12155	1935.286	5120.285	0	0	13547	13547
71	forest_48_76	PPM	0	17397	7106.571	9245.044	0	0	21792	21792
72	forest_76_87	PPM	0	9696	7106.571	9245.044	0	0	21792	21792
73	forest_76_87	PPM	14587	3879	7106.571	9245.044	0	0	21792	21792
74	forest_76_87	PPM	0	9779	7106.571	9245.044	0	0	21792	21792
75	forest_76_87	PPM	13367	3807	7106.571	9245.044	0	0	21792	21792
76	forest_76_87	PPM	0	9193	7106.571	9245.044	0	0	21792	21792
77	forest_76_87	PPM	21792	3831	7106.571	9245.044	0	0	21792	21792
78	forest_87_115	PPM	0	6679	0	0	0	0	0	0
79	forest_87_115	PPM	0	10047	0	0	0	0	0	0
80	forest_87_115	PPM	0	8577	0	0	0	0	0	0
81	forest_87_115	PPM	0	8479	0	0	0	0	0	0
82	forest_87_115	PPM	0	6913	0	0	0	0	0	0
83	forest_87_115	PPM	0	9277	0	0	0	0	0	0
84	forest_87_115	PPM	0	7719	0	0	0	0	0	0
85	forest_87_115	PPM	0	9912	0	0	0	0	0	0

### Magnesium (ppm): Calculations

Mg						
	Mean	SD	Median	Min	Max	Range
forest_00_08	2567.333333	6288.656666	0	0	15404	15404
forest_08_23	3710.428571	6351.363944	0	0	13732	13732
forest_23_48	3816.285714	6613.48261	0	0	15301	15301
forest_48_76	1693.375	4789.587782	0	0	13547	13547
forest_76_87	8291	9527.900461	6683.5	0	21792	21792
forest_87_115	0	0	0	0	0	0

Mg (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
15404	0	0	0	0	0
0	0	11413	13547	14587	0
0	0	0	0	0	0
0	0	0	0	13367	0
0	0	0	0	0	0
0	12241	15301	0	21792	0
	13732	0	0		0
			0		0



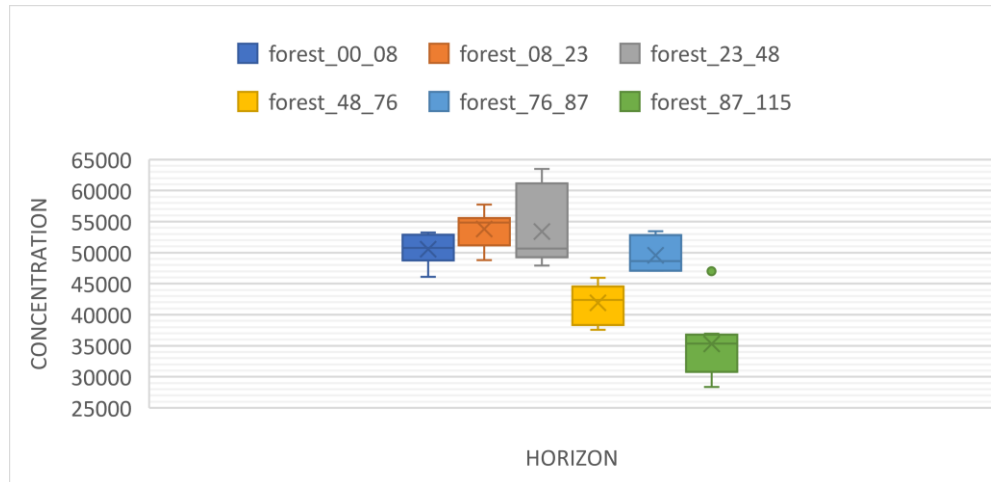
**Aluminum (ppm): wet**

Reading #	info	Units	Al Concentration	Al Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	46083	869	50295.71	2443.551	50417	46083	53259	7176
45	forest_00_08	PPM	51132	851	50295.71	2443.551	50417	46083	53259	7176
46	forest_00_08	PPM	50417	858	50295.71	2443.551	50417	46083	53259	7176
47	forest_00_08	PPM	52729	844	50295.71	2443.551	50417	46083	53259	7176
48	forest_00_08	PPM	53259	842	50295.71	2443.551	50417	46083	53259	7176
49	forest_00_08	PPM	49655	819	50295.71	2443.551	50417	46083	53259	7176
50	forest_08_23	PPM	48795	1114	55587	3156.917	54988	51187	61160	9973
51	forest_08_23	PPM	54850	808	55587	3156.917	54988	51187	61160	9973
52	forest_08_23	PPM	57737	815	55587	3156.917	54988	51187	61160	9973
53	forest_08_23	PPM	53624	920	55587	3156.917	54988	51187	61160	9973
54	forest_08_23	PPM	54988	883	55587	3156.917	54988	51187	61160	9973
55	forest_08_23	PPM	55563	810	55587	3156.917	54988	51187	61160	9973
56	forest_08_23	PPM	51187	849	55587	3156.917	54988	51187	61160	9973
57	forest_23_48	PPM	61160	851	50762.57	6297.295	49466	42838	63505	20667
58	forest_23_48	PPM	63505	951	50762.57	6297.295	49466	42838	63505	20667
59	forest_23_48	PPM	49259	841	50762.57	6297.295	49466	42838	63505	20667
60	forest_23_48	PPM	50648	826	50762.57	6297.295	49466	42838	63505	20667
61	forest_23_48	PPM	49466	925	50762.57	6297.295	49466	42838	63505	20667
62	forest_23_48	PPM	47940	920	50762.57	6297.295	49466	42838	63505	20667
63	forest_23_48	PPM	51682	903	50762.57	6297.295	49466	42838	63505	20667
64	forest_48_76	PPM	42838	895	41766.43	3374.956	41976	37566	45961	8395
65	forest_48_76	PPM	45961	896	41766.43	3374.956	41976	37566	45961	8395
66	forest_48_76	PPM	44220	924	41766.43	3374.956	41976	37566	45961	8395
67	forest_48_76	PPM	44636	863	41766.43	3374.956	41976	37566	45961	8395
68	forest_48_76	PPM	41976	879	41766.43	3374.956	41976	37566	45961	8395
69	forest_48_76	PPM	37674	854	41766.43	3374.956	41976	37566	45961	8395
70	forest_48_76	PPM	40332	821	41766.43	3374.956	41976	37566	45961	8395
71	forest_48_76	PPM	37566	962	49221	2742.359	47931	47015	53453	6438
72	forest_76_87	PPM	49367	878	49221	2742.359	47931	47015	53453	6438
73	forest_76_87	PPM	52615	900	49221	2742.359	47931	47015	53453	6438
74	forest_76_87	PPM	47093	866	49221	2742.359	47931	47015	53453	6438
75	forest_76_87	PPM	47931	860	49221	2742.359	47931	47015	53453	6438
76	forest_76_87	PPM	47073	838	49221	2742.359	47931	47015	53453	6438
77	forest_76_87	PPM	53453	892	49221	2742.359	47931	47015	53453	6438
78	forest_87_115	PPM	47015	827	33632.29	3305.865	35280	28340	36933	8593
79	forest_87_115	PPM	33034	832	33632.29	3305.865	35280	28340	36933	8593
80	forest_87_115	PPM	36341	813	33632.29	3305.865	35280	28340	36933	8593
81	forest_87_115	PPM	36933	815	33632.29	3305.865	35280	28340	36933	8593
82	forest_87_115	PPM	35460	739	33632.29	3305.865	35280	28340	36933	8593
83	forest_87_115	PPM	28340	764	33632.29	3305.865	35280	28340	36933	8593
84	forest_87_115	PPM	35280	763	33632.29	3305.865	35280	28340	36933	8593
85	forest_87_115	PPM	30038	800	33632.29	3305.865	35280	28340	36933	8593

### Aluminum (ppm): Calculations

Al						
	Mean	SD	Median	Min	Max	Range
forest_00_08	50545.83333	2576.74775	50774.5	46083	53259	7176
forest_08_23	53820.57143	2972.871499	54850	48795	57737	8942
forest_23_48	53380	6262.144068	50648	47940	63505	15565
forest_48_76	41900.375	3147.486341	42407	37566	45961	8395
forest_76_87	49588.66667	2808.760984	48649	47073	53453	6380
forest_87_115	35305.125	5635.124347	35370	28340	47015	18675

Al (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
46083	48795	61160	42838	49367	47015
51132	54850	63505	45961	52615	33034
50417	57737	49259	44220	47093	36341
52729	53624	50648	44636	47931	36933
53259	54988	49466	41976	47073	35460
49655	55563	47940	37674	53453	28340
	51187	51682	40332		35280
			37566		30038



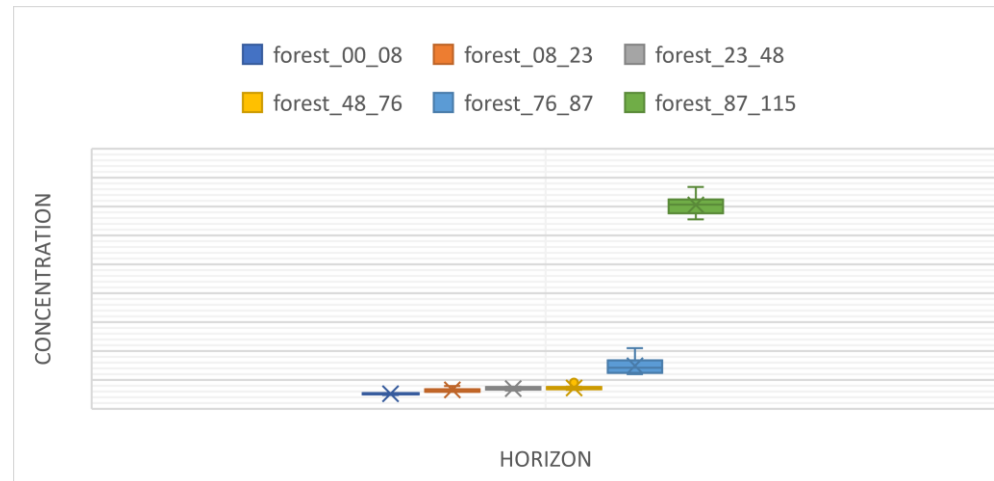
**Calcium (ppm): wet**

Reading #	info	Units	Ca Concentration	Ca Concentration	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	2732	2732	2737.714	293.3858	2701	2390	3341	951
45	forest_00_08	PPM	2701	2701	2737.714	293.3858	2701	2390	3341	951
46	forest_00_08	PPM	2675	2675	2737.714	293.3858	2701	2390	3341	951
47	forest_00_08	PPM	2749	2749	2737.714	293.3858	2701	2390	3341	951
48	forest_00_08	PPM	2576	2576	2737.714	293.3858	2701	2390	3341	951
49	forest_00_08	PPM	2390	2390	2737.714	293.3858	2701	2390	3341	951
50	forest_08_23	PPM	3341	3341	3369.429	389.6789	3391	2919	3919	1000
51	forest_08_23	PPM	3220	3220	3369.429	389.6789	3391	2919	3919	1000
52	forest_08_23	PPM	3919	3919	3369.429	389.6789	3391	2919	3919	1000
53	forest_08_23	PPM	2928	2928	3369.429	389.6789	3391	2919	3919	1000
54	forest_08_23	PPM	3407	3407	3369.429	389.6789	3391	2919	3919	1000
55	forest_08_23	PPM	3391	3391	3369.429	389.6789	3391	2919	3919	1000
56	forest_08_23	PPM	2919	2919	3369.429	389.6789	3391	2919	3919	1000
57	forest_23_48	PPM	3802	3802	3488.429	213.6757	3457	3187	3819	632
58	forest_23_48	PPM	3457	3457	3488.429	213.6757	3457	3187	3819	632
59	forest_23_48	PPM	3187	3187	3488.429	213.6757	3457	3187	3819	632
60	forest_23_48	PPM	3340	3340	3488.429	213.6757	3457	3187	3819	632
61	forest_23_48	PPM	3417	3417	3488.429	213.6757	3457	3187	3819	632
62	forest_23_48	PPM	3819	3819	3488.429	213.6757	3457	3187	3819	632
63	forest_23_48	PPM	3497	3497	3488.429	213.6757	3457	3187	3819	632
64	forest_48_76	PPM	3702	3702	3630.286	430.3157	3442	3289	4525	1236
65	forest_48_76	PPM	4525	4525	3630.286	430.3157	3442	3289	4525	1236
66	forest_48_76	PPM	3391	3391	3630.286	430.3157	3442	3289	4525	1236
67	forest_48_76	PPM	3442	3442	3630.286	430.3157	3442	3289	4525	1236
68	forest_48_76	PPM	3389	3389	3630.286	430.3157	3442	3289	4525	1236
69	forest_48_76	PPM	3289	3289	3630.286	430.3157	3442	3289	4525	1236
70	forest_48_76	PPM	3553	3553	3630.286	430.3157	3442	3289	4525	1236
71	forest_48_76	PPM	3823	3823	11500.86	10833.23	7664	5981	35829	29848
72	forest_76_87	PPM	5981	5981	11500.86	10833.23	7664	5981	35829	29848
73	forest_76_87	PPM	10498	10498	11500.86	10833.23	7664	5981	35829	29848
74	forest_76_87	PPM	6526	6526	11500.86	10833.23	7664	5981	35829	29848
75	forest_76_87	PPM	6331	6331	11500.86	10833.23	7664	5981	35829	29848
76	forest_76_87	PPM	7677	7677	11500.86	10833.23	7664	5981	35829	29848
77	forest_76_87	PPM	7664	7664	11500.86	10833.23	7664	5981	35829	29848
78	forest_87_115	PPM	35829	35829	35213.86	1848.519	34986	32793	38368	5575
79	forest_87_115	PPM	33457	33457	35213.86	1848.519	34986	32793	38368	5575
80	forest_87_115	PPM	34912	34912	35213.86	1848.519	34986	32793	38368	5575
81	forest_87_115	PPM	35632	35632	35213.86	1848.519	34986	32793	38368	5575
82	forest_87_115	PPM	38368	38368	35213.86	1848.519	34986	32793	38368	5575
83	forest_87_115	PPM	36349	36349	35213.86	1848.519	34986	32793	38368	5575
84	forest_87_115	PPM	34986	34986	35213.86	1848.519	34986	32793	38368	5575
85	forest_87_115	PPM	32793	32793	35213.86	1848.519	34986	32793	38368	5575

### Calcium (ppm): Calculations

Ca						
	Mean	SD	Median	Min	Max	Range
forest_00_08	2637.166667	135.5277339	2688	2390	2749	359
forest_08_23	3303.571429	340.2028107	3341	2919	3919	1000
forest_23_48	3502.714286	232.8194682	3457	3187	3819	632
forest_48_76	3639.25	399.2008982	3497.5	3289	4525	1236
forest_76_87	7446.166667	1652.358244	7095	5981	10498	4517
forest_87_115	35290.75	1725.160179	35309	32793	38368	5575

Ca (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
2732	3341	3802	3702	5981	35829
2701	3220	3457	4525	10498	33457
2675	3919	3187	3391	6526	34912
2749	2928	3340	3442	6331	35632
2576	3407	3417	3389	7677	38368
2390	3391	3819	3289	7664	36349
	2919	3497	3553		34986
			3823		32793





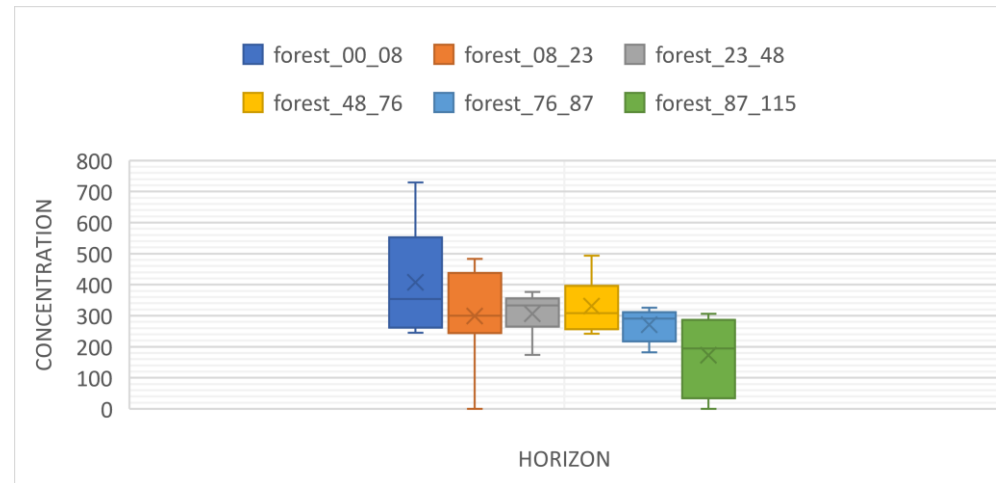
**Sulphur (ppm): wet**

Reading #	info	Units	S Concentration	S Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	729	44	349	227.3096	303	0	729	729
45	forest_00_08	PPM	245	40	349	227.3096	303	0	729	729
46	forest_00_08	PPM	267	41	349	227.3096	303	0	729	729
47	forest_00_08	PPM	405	40	349	227.3096	303	0	729	729
48	forest_00_08	PPM	494	40	349	227.3096	303	0	729	729
49	forest_00_08	PPM	303	38	349	227.3096	303	0	729	729
50	forest_08_23	PPM	0	293	353.1429	89.95449	371	244	483	239
51	forest_08_23	PPM	300	34	353.1429	89.95449	371	244	483	239
52	forest_08_23	PPM	483	35	353.1429	89.95449	371	244	483	239
53	forest_08_23	PPM	244	42	353.1429	89.95449	371	244	483	239
54	forest_08_23	PPM	259	39	353.1429	89.95449	371	244	483	239
55	forest_08_23	PPM	438	33	353.1429	89.95449	371	244	483	239
56	forest_08_23	PPM	371	36	353.1429	89.95449	371	244	483	239
57	forest_23_48	PPM	377	35	322.8571	98.49269	333	174	494	320
58	forest_23_48	PPM	174	39	322.8571	98.49269	333	174	494	320
59	forest_23_48	PPM	286	36	322.8571	98.49269	333	174	494	320
60	forest_23_48	PPM	333	35	322.8571	98.49269	333	174	494	320
61	forest_23_48	PPM	265	42	322.8571	98.49269	333	174	494	320
62	forest_23_48	PPM	352	40	322.8571	98.49269	333	174	494	320
63	forest_23_48	PPM	356	40	322.8571	98.49269	333	174	494	320
64	forest_48_76	PPM	494	43	308.2857	60.69518	305	242	406	164
65	forest_48_76	PPM	406	39	308.2857	60.69518	305	242	406	164
66	forest_48_76	PPM	305	44	308.2857	60.69518	305	242	406	164
67	forest_48_76	PPM	251	38	308.2857	60.69518	305	242	406	164
68	forest_48_76	PPM	274	40	308.2857	60.69518	305	242	406	164
69	forest_48_76	PPM	311	39	308.2857	60.69518	305	242	406	164
70	forest_48_76	PPM	369	37	308.2857	60.69518	305	242	406	164
71	forest_48_76	PPM	242	48	253	68.07839	289	147	326	179
72	forest_76_87	PPM	326	40	253	68.07839	289	147	326	179
73	forest_76_87	PPM	229	38	253	68.07839	289	147	326	179
74	forest_76_87	PPM	182	39	253	68.07839	289	147	326	179
75	forest_76_87	PPM	289	37	253	68.07839	289	147	326	179
76	forest_76_87	PPM	292	37	253	68.07839	289	147	326	179
77	forest_76_87	PPM	306	37	253	68.07839	289	147	326	179
78	forest_87_115	PPM	147	38	176.5714	132.4825	242	0	306	306
79	forest_87_115	PPM	0	208	176.5714	132.4825	242	0	306	306
80	forest_87_115	PPM	0	180	176.5714	132.4825	242	0	306	306
81	forest_87_115	PPM	298	40	176.5714	132.4825	242	0	306	306
82	forest_87_115	PPM	242	34	176.5714	132.4825	242	0	306	306
83	forest_87_115	PPM	138	37	176.5714	132.4825	242	0	306	306
84	forest_87_115	PPM	306	36	176.5714	132.4825	242	0	306	306
85	forest_87_115	PPM	252	40	176.5714	132.4825	242	0	306	306

### Sulphur (ppm): Calculations

S						
	Mean	SD	Median	Min	Max	Range
forest_00_08	407.1666667	183.257651	354	245	729	484
forest_08_23	299.2857143	159.367201	300	0	483	483
forest_23_48	306.1428571	70.58193483	333	174	377	203
forest_48_76	331.5	86.42254997	308	242	494	252
forest_76_87	270.6666667	54.22053731	290.5	182	326	144
forest_87_115	172.875	123.0997708	194.5	0	306	306

S (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
729	0	377	494	326	147
245	300	174	406	229	0
267	483	286	305	182	0
405	244	333	251	289	298
494	259	265	274	292	242
303	438	352	311	306	138
	371	356	369		306
			242		252



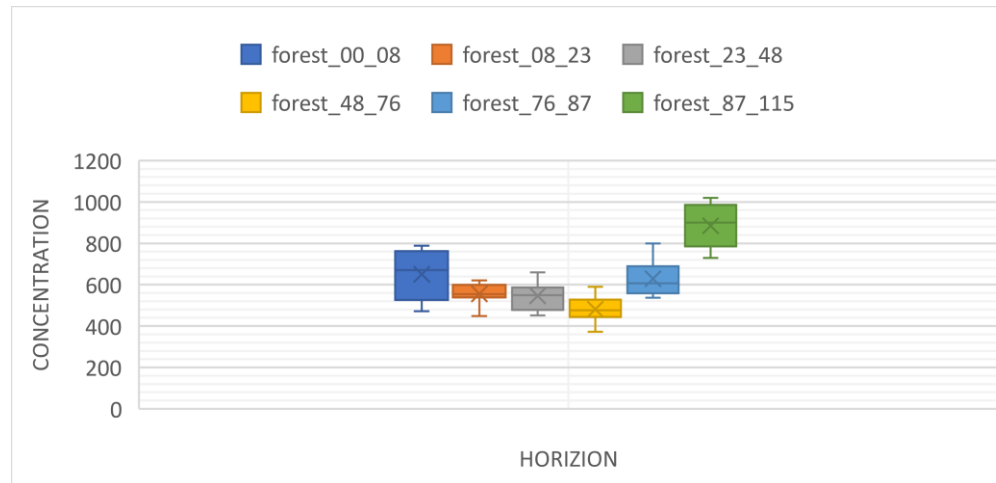
**Manganese (ppm): wet**

Reading #	info	Units	Mn Concentration	Mn Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	676	22	636	116.8546	666	472	788	316
45	forest_00_08	PPM	788	23	636	116.8546	666	472	788	316
46	forest_00_08	PPM	754	23	636	116.8546	666	472	788	316
47	forest_00_08	PPM	666	21	636	116.8546	666	472	788	316
48	forest_00_08	PPM	472	19	636	116.8546	666	472	788	316
49	forest_00_08	PPM	545	19	636	116.8546	666	472	788	316
50	forest_08_23	PPM	551	25	545.7143	63.00718	554	449	621	172
51	forest_08_23	PPM	581	19	545.7143	63.00718	554	449	621	172
52	forest_08_23	PPM	621	19	545.7143	63.00718	554	449	621	172
53	forest_08_23	PPM	599	21	545.7143	63.00718	554	449	621	172
54	forest_08_23	PPM	449	18	545.7143	63.00718	554	449	621	172
55	forest_08_23	PPM	554	18	545.7143	63.00718	554	449	621	172
56	forest_08_23	PPM	538	19	545.7143	63.00718	554	449	621	172
57	forest_23_48	PPM	478	18	562.5714	65.14307	583	451	659	208
58	forest_23_48	PPM	451	19	562.5714	65.14307	583	451	659	208
59	forest_23_48	PPM	586	20	562.5714	65.14307	583	451	659	208
60	forest_23_48	PPM	549	19	562.5714	65.14307	583	451	659	208
61	forest_23_48	PPM	659	22	562.5714	65.14307	583	451	659	208
62	forest_23_48	PPM	520	20	562.5714	65.14307	583	451	659	208
63	forest_23_48	PPM	583	21	562.5714	65.14307	583	451	659	208
64	forest_48_76	PPM	590	21	465.1429	51.70245	471	373	534	161
65	forest_48_76	PPM	534	20	465.1429	51.70245	471	373	534	161
66	forest_48_76	PPM	506	20	465.1429	51.70245	471	373	534	161
67	forest_48_76	PPM	447	18	465.1429	51.70245	471	373	534	161
68	forest_48_76	PPM	482	19	465.1429	51.70245	471	373	534	161
69	forest_48_76	PPM	443	18	465.1429	51.70245	471	373	534	161
70	forest_48_76	PPM	373	17	465.1429	51.70245	471	373	534	161
71	forest_48_76	PPM	471	21	684.1429	170.6589	621	537	1020	483
72	forest_76_87	PPM	799	24	684.1429	170.6589	621	537	1020	483
73	forest_76_87	PPM	621	21	684.1429	170.6589	621	537	1020	483
74	forest_76_87	PPM	652	22	684.1429	170.6589	621	537	1020	483
75	forest_76_87	PPM	537	20	684.1429	170.6589	621	537	1020	483
76	forest_76_87	PPM	566	20	684.1429	170.6589	621	537	1020	483
77	forest_76_87	PPM	594	21	684.1429	170.6589	621	537	1020	483
78	forest_87_115	PPM	1020	27	865.8571	96.00248	882	730	1003	273
79	forest_87_115	PPM	1003	29	865.8571	96.00248	882	730	1003	273
80	forest_87_115	PPM	933	27	865.8571	96.00248	882	730	1003	273
81	forest_87_115	PPM	918	26	865.8571	96.00248	882	730	1003	273
82	forest_87_115	PPM	822	23	865.8571	96.00248	882	730	1003	273
83	forest_87_115	PPM	882	25	865.8571	96.00248	882	730	1003	273
84	forest_87_115	PPM	773	23	865.8571	96.00248	882	730	1003	273
85	forest_87_115	PPM	730	24	865.8571	96.00248	882	730	1003	273

### Manganese (ppm): Calculations

Mn						
	Mean	SD	Median	Min	Max	Range
forest_00_08	650.1666667	121.2442438	671	472	788	316
forest_08_23	556.1428571	55.52905717	554	449	621	172
forest_23_48	546.5714286	70.79278952	549	451	659	208
forest_48_76	480.75	65.1147339	476.5	373	590	217
forest_76_87	628.1666667	92.89438447	607.5	537	799	262
forest_87_115	885.125	104.2585214	900	730	1020	290

Mn (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
676	551	478	590	799	1020
788	581	451	534	621	1003
754	621	586	506	652	933
666	599	549	447	537	918
472	449	659	482	566	822
545	554	520	443	594	882
	538	583	373		773
			471		730



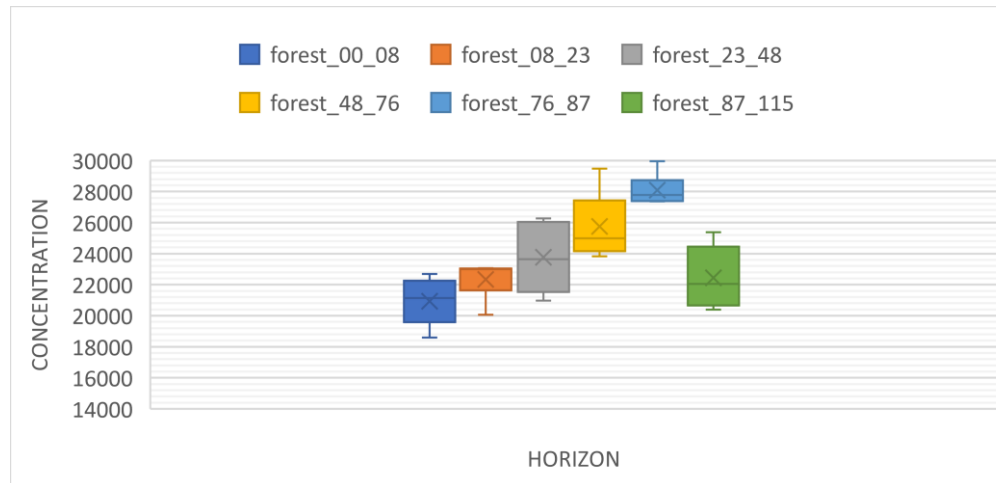
**Iron (ppm): wet**

Reading #	info	Units	Fe Concentration	Fe Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	20348	146	21159	1553.45	21941	18584	22682	4098
45	forest_00_08	PPM	22682	128	21159	1553.45	21941	18584	22682	4098
46	forest_00_08	PPM	22106	126	21159	1553.45	21941	18584	22682	4098
47	forest_00_08	PPM	19931	114	21159	1553.45	21941	18584	22682	4098
48	forest_00_08	PPM	18584	107	21159	1553.45	21941	18584	22682	4098
49	forest_00_08	PPM	21941	121	21159	1553.45	21941	18584	22682	4098
50	forest_08_23	PPM	22521	163	22199.14	1162.583	22992	20069	23073	3004
51	forest_08_23	PPM	23034	119	22199.14	1162.583	22992	20069	23073	3004
52	forest_08_23	PPM	22992	118	22199.14	1162.583	22992	20069	23073	3004
53	forest_08_23	PPM	23052	135	22199.14	1162.583	22992	20069	23073	3004
54	forest_08_23	PPM	20069	116	22199.14	1162.583	22992	20069	23073	3004
55	forest_08_23	PPM	23073	137	22199.14	1162.583	22992	20069	23073	3004
56	forest_08_23	PPM	21642	142	22199.14	1162.583	22992	20069	23073	3004
57	forest_23_48	PPM	21532	114	24905.43	2751.067	25113	20981	29471	8490
58	forest_23_48	PPM	20981	143	24905.43	2751.067	25113	20981	29471	8490
59	forest_23_48	PPM	25113	135	24905.43	2751.067	25113	20981	29471	8490
60	forest_23_48	PPM	23634	126	24905.43	2751.067	25113	20981	29471	8490
61	forest_23_48	PPM	26268	153	24905.43	2751.067	25113	20981	29471	8490
62	forest_23_48	PPM	22822	168	24905.43	2751.067	25113	20981	29471	8490
63	forest_23_48	PPM	26049	147	24905.43	2751.067	25113	20981	29471	8490
64	forest_48_76	PPM	29471	171	25216.57	1416.007	24890	23819	27717	3898
65	forest_48_76	PPM	26531	188	25216.57	1416.007	24890	23819	27717	3898
66	forest_48_76	PPM	25098	152	25216.57	1416.007	24890	23819	27717	3898
67	forest_48_76	PPM	23819	137	25216.57	1416.007	24890	23819	27717	3898
68	forest_48_76	PPM	24890	146	25216.57	1416.007	24890	23819	27717	3898
69	forest_48_76	PPM	24357	143	25216.57	1416.007	24890	23819	27717	3898
70	forest_48_76	PPM	24104	135	25216.57	1416.007	24890	23819	27717	3898
71	forest_48_76	PPM	27717	178	27711.57	1360.863	27553	25384	29944	4560
72	forest_76_87	PPM	27553	154	27711.57	1360.863	27553	25384	29944	4560
73	forest_76_87	PPM	28020	187	27711.57	1360.863	27553	25384	29944	4560
74	forest_76_87	PPM	29944	166	27711.57	1360.863	27553	25384	29944	4560
75	forest_76_87	PPM	27377	180	27711.57	1360.863	27553	25384	29944	4560
76	forest_76_87	PPM	27383	149	27711.57	1360.863	27553	25384	29944	4560
77	forest_76_87	PPM	28320	186	27711.57	1360.863	27553	25384	29944	4560
78	forest_87_115	PPM	25384	145	22017.57	1591.494	21965	20402	24901	4499
79	forest_87_115	PPM	24901	158	22017.57	1591.494	21965	20402	24901	4499
80	forest_87_115	PPM	23089	142	22017.57	1591.494	21965	20402	24901	4499
81	forest_87_115	PPM	21965	136	22017.57	1591.494	21965	20402	24901	4499
82	forest_87_115	PPM	22151	126	22017.57	1591.494	21965	20402	24901	4499
83	forest_87_115	PPM	20402	129	22017.57	1591.494	21965	20402	24901	4499
84	forest_87_115	PPM	21104	125	22017.57	1591.494	21965	20402	24901	4499
85	forest_87_115	PPM	20511	133	22017.57	1591.494	21965	20402	24901	4499

### Iron (ppm): Calculations

Fe						
	Mean	SD	Median	Min	Max	Range
forest_00_08	20932	1569.395935	21144.5	18584	22682	4098
forest_08_23	22340.42857	1127.562098	22992	20069	23073	3004
forest_23_48	23771.28571	2119.034663	23634	20981	26268	5287
forest_48_76	25748.375	1995.28372	24994	23819	29471	5652
forest_76_87	28099.5	978.8934058	27786.5	27377	29944	2567
forest_87_115	22438.375	1894.10227	22058	20402	25384	4982

Fe (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
20348	22521	21532	29471	27553	25384
22682	23034	20981	26531	28020	24901
22106	22992	25113	25098	29944	23089
19931	23052	23634	23819	27377	21965
18584	20069	26268	24890	27383	22151
21941	23073	22822	24357	28320	20402
	21642	26049	24104		21104
			27717		20511



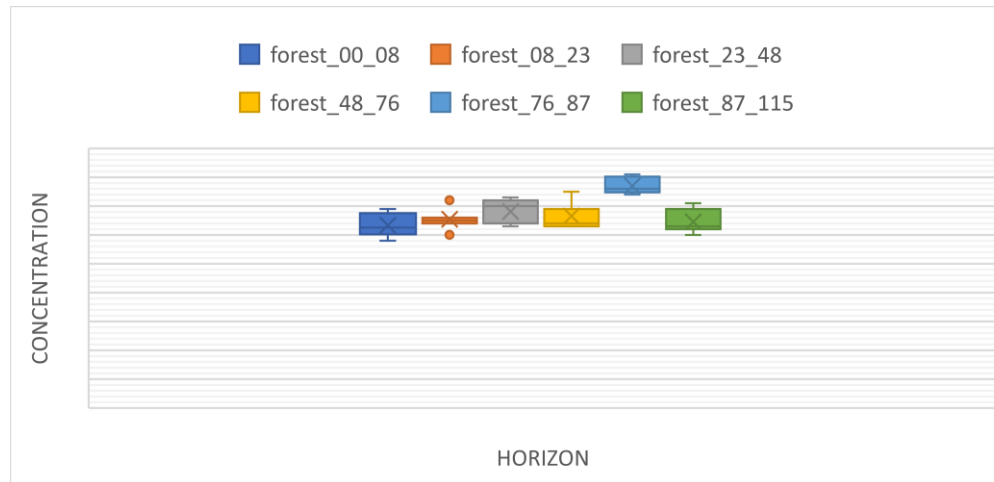
### Rubidium (ppm)wet

Reading #	info	Units	Rb Concentration	Rb Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	61	1	63.71429	3.9036	64	58	69	11
45	forest_00_08	PPM	67	1	63.71429	3.9036	64	58	69	11
46	forest_00_08	PPM	69	1	63.71429	3.9036	64	58	69	11
47	forest_00_08	PPM	61	1	63.71429	3.9036	64	58	69	11
48	forest_00_08	PPM	58	1	63.71429	3.9036	64	58	69	11
49	forest_00_08	PPM	64	1	63.71429	3.9036	64	58	69	11
50	forest_08_23	PPM	66	2	65.14286	3.57904	65	60	72	12
51	forest_08_23	PPM	65	1	65.14286	3.57904	65	60	72	12
52	forest_08_23	PPM	66	1	65.14286	3.57904	65	60	72	12
53	forest_08_23	PPM	72	1	65.14286	3.57904	65	60	72	12
54	forest_08_23	PPM	60	1	65.14286	3.57904	65	60	72	12
55	forest_08_23	PPM	64	1	65.14286	3.57904	65	60	72	12
56	forest_08_23	PPM	65	1	65.14286	3.57904	65	60	72	12
57	forest_23_48	PPM	64	1	69.71429	4.535574	71	63	75	12
58	forest_23_48	PPM	63	1	69.71429	4.535574	71	63	75	12
59	forest_23_48	PPM	72	1	69.71429	4.535574	71	63	75	12
60	forest_23_48	PPM	70	1	69.71429	4.535574	71	63	75	12
61	forest_23_48	PPM	73	1	69.71429	4.535574	71	63	75	12
62	forest_23_48	PPM	64	1	69.71429	4.535574	71	63	75	12
63	forest_23_48	PPM	71	1	69.71429	4.535574	71	63	75	12
64	forest_48_76	PPM	75	1	66.14286	3.532165	64	63	72	9
65	forest_48_76	PPM	64	1	66.14286	3.532165	64	63	72	9
66	forest_48_76	PPM	69	1	66.14286	3.532165	64	63	72	9
67	forest_48_76	PPM	63	1	66.14286	3.532165	64	63	72	9
68	forest_48_76	PPM	68	1	66.14286	3.532165	64	63	72	9
69	forest_48_76	PPM	63	1	66.14286	3.532165	64	63	72	9
70	forest_48_76	PPM	64	1	66.14286	3.532165	64	63	72	9
71	forest_48_76	PPM	72	2	76.14286	3.436499	76	71	81	10
72	forest_76_87	PPM	76	1	76.14286	3.436499	76	71	81	10
73	forest_76_87	PPM	81	1	76.14286	3.436499	76	71	81	10
74	forest_76_87	PPM	80	1	76.14286	3.436499	76	71	81	10
75	forest_76_87	PPM	74	1	76.14286	3.436499	76	71	81	10
76	forest_76_87	PPM	75	1	76.14286	3.436499	76	71	81	10
77	forest_76_87	PPM	76	1	76.14286	3.436499	76	71	81	10
78	forest_87_115	PPM	71	1	63.42857	2.878492	63	60	69	9
79	forest_87_115	PPM	69	1	63.42857	2.878492	63	60	69	9
80	forest_87_115	PPM	65	1	63.42857	2.878492	63	60	69	9
81	forest_87_115	PPM	62	1	63.42857	2.878492	63	60	69	9
82	forest_87_115	PPM	60	1	63.42857	2.878492	63	60	69	9
83	forest_87_115	PPM	63	1	63.42857	2.878492	63	60	69	9
84	forest_87_115	PPM	62	1	63.42857	2.878492	63	60	69	9
85	forest_87_115	PPM	63	1	63.42857	2.878492	63	60	69	9

### Rubidium (ppm): Calculations

Rb						
	Mean	SD	Median	Min	Max	Range
forest_00_08	63.33333333	4.131182236	62.5	58	69	11
forest_08_23	65.42857143	3.552329886	65	60	72	12
forest_23_48	68.14285714	4.298393941	70	63	73	10
forest_48_76	67.25	4.527692569	66	63	75	12
forest_76_87	77	2.828427125	76	74	81	7
forest_87_115	64.375	3.777281713	63	60	71	11

Rb (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
61	66	64	75	76	71
67	65	63	64	81	69
69	66	72	69	80	65
61	72	70	63	74	62
58	60	73	68	75	60
64	64	64	63	76	63
	65	71	64		62





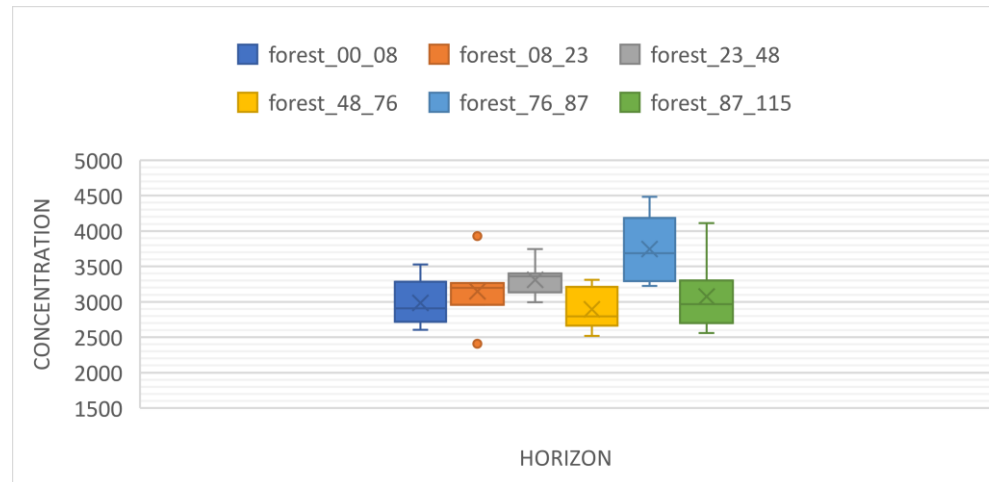
**Titanium (ppm): wet**

Reading #	info	Units	Ti Concentration	Ti Error1s	Mean	SD	Median	Min	Max	Range
44	forest_00_08	PPM	2761	110	3019.857	328.0068	3052	2605	3528	923
45	forest_00_08	PPM	3528	117	3019.857	328.0068	3052	2605	3528	923
46	forest_00_08	PPM	3052	112	3019.857	328.0068	3052	2605	3528	923
47	forest_00_08	PPM	2758	107	3019.857	328.0068	3052	2605	3528	923
48	forest_00_08	PPM	2605	105	3019.857	328.0068	3052	2605	3528	923
49	forest_00_08	PPM	3202	109	3019.857	328.0068	3052	2605	3528	923
50	forest_08_23	PPM	3233	143	3115.429	453.5588	3061	2407	3928	1521
51	forest_08_23	PPM	3197	103	3115.429	453.5588	3061	2407	3928	1521
52	forest_08_23	PPM	3061	102	3115.429	453.5588	3061	2407	3928	1521
53	forest_08_23	PPM	3265	117	3115.429	453.5588	3061	2407	3928	1521
54	forest_08_23	PPM	2407	102	3115.429	453.5588	3061	2407	3928	1521
55	forest_08_23	PPM	3928	109	3115.429	453.5588	3061	2407	3928	1521
56	forest_08_23	PPM	2956	104	3115.429	453.5588	3061	2407	3928	1521
57	forest_23_48	PPM	2994	103	3357.143	199.2013	3359	3134	3745	611
58	forest_23_48	PPM	3134	114	3357.143	199.2013	3359	3134	3745	611
59	forest_23_48	PPM	3359	108	3357.143	199.2013	3359	3134	3745	611
60	forest_23_48	PPM	3174	104	3357.143	199.2013	3359	3134	3745	611
61	forest_23_48	PPM	3745	121	3357.143	199.2013	3359	3134	3745	611
62	forest_23_48	PPM	3378	115	3357.143	199.2013	3359	3134	3745	611
63	forest_23_48	PPM	3399	115	3357.143	199.2013	3359	3134	3745	611
64	forest_48_76	PPM	3311	115	2834.714	268.5018	2794	2518	3224	706
65	forest_48_76	PPM	3181	111	2834.714	268.5018	2794	2518	3224	706
66	forest_48_76	PPM	2669	111	2834.714	268.5018	2794	2518	3224	706
67	forest_48_76	PPM	2796	105	2834.714	268.5018	2794	2518	3224	706
68	forest_48_76	PPM	2794	107	2834.714	268.5018	2794	2518	3224	706
69	forest_48_76	PPM	2518	102	2834.714	268.5018	2794	2518	3224	706
70	forest_48_76	PPM	2661	100	2834.714	268.5018	2794	2518	3224	706
71	forest_48_76	PPM	3224	123	3799	453.9666	3716	3224	4481	1257
72	forest_76_87	PPM	3224	112	3799	453.9666	3716	3224	4481	1257
73	forest_76_87	PPM	3654	118	3799	453.9666	3716	3224	4481	1257
74	forest_76_87	PPM	4088	122	3799	453.9666	3716	3224	4481	1257
75	forest_76_87	PPM	3716	114	3799	453.9666	3716	3224	4481	1257
76	forest_76_87	PPM	3318	110	3799	453.9666	3716	3224	4481	1257
77	forest_76_87	PPM	4481	124	3799	453.9666	3716	3224	4481	1257
78	forest_87_115	PPM	4112	128	2924.571	280.3027	2859	2560	3359	799
79	forest_87_115	PPM	3130	123	2924.571	280.3027	2859	2560	3359	799
80	forest_87_115	PPM	3359	122	2924.571	280.3027	2859	2560	3359	799
81	forest_87_115	PPM	2859	115	2924.571	280.3027	2859	2560	3359	799
82	forest_87_115	PPM	2838	107	2924.571	280.3027	2859	2560	3359	799
83	forest_87_115	PPM	3073	116	2924.571	280.3027	2859	2560	3359	799
84	forest_87_115	PPM	2560	105	2924.571	280.3027	2859	2560	3359	799
85	forest_87_115	PPM	2653	113	2924.571	280.3027	2859	2560	3359	799

### Titanium (ppm): Calculations

Ti						
	Mean	SD	Median	Min	Max	Range
forest_00_08	2984.333333	344.2468107	2906.5	2605	3528	923
forest_08_23	3149.571429	451.8871014	3197	2407	3928	1521
forest_23_48	3311.857143	242.7189243	3359	2994	3745	751
forest_48_76	2894.25	300.2502528	2795	2518	3311	793
forest_76_87	3746.833333	473.7545426	3685	3224	4481	1257
forest_87_115	3073	493.5521394	2966	2560	4112	1552

Ti (when the samples is wet)					
forest_00_08	forest_08_23	forest_23_48	forest_48_76	forest_76_87	forest_87_115
2761	3233	2994	3311	3224	4112
3528	3197	3134	3181	3654	3130
3052	3061	3359	2669	4088	3359
2758	3265	3174	2796	3716	2859
2605	2407	3745	2794	3318	2838
3202	3928	3378	2518	4481	3073
	2956	3399	2661		2560
			3224		2653



**Annex C**  
**Forest XRF data dry**

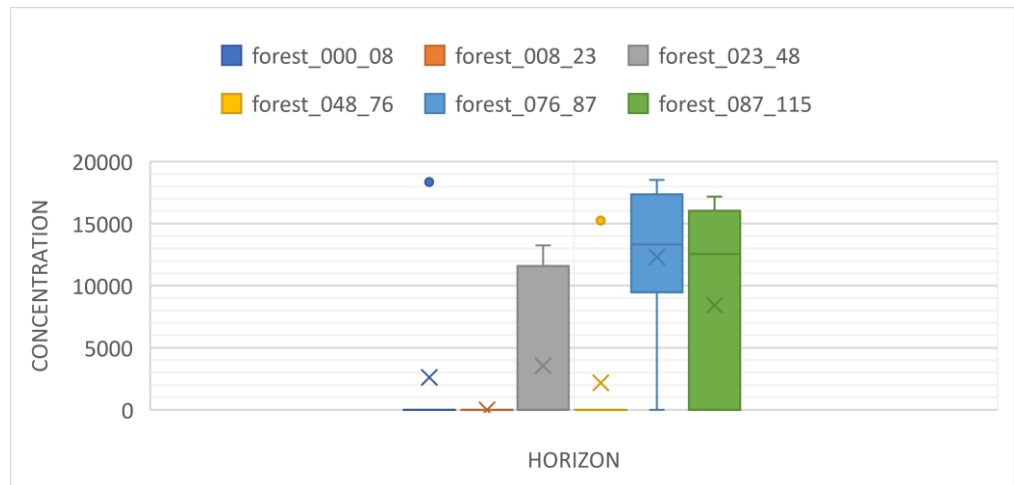
**Magnesium (ppm):dry**

info	Reading #	Units	Mg Concentration	Mg Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	0	10718	2620.429	6933.002	0	0	18343	18343
forest_000_08	2	PPM	0	8096	2620.429	6933.002	0	0	18343	18343
forest_000_08	3	PPM	0	7995	2620.429	6933.002	0	0	18343	18343
forest_000_08	4	PPM	0	8001	2620.429	6933.002	0	0	18343	18343
forest_000_08	5	PPM	18343	3620	2620.429	6933.002	0	0	18343	18343
forest_000_08	6	PPM	0	7477	2620.429	6933.002	0	0	18343	18343
forest_000_08	7	PPM	0	8728	2620.429	6933.002	0	0	18343	18343
forest_008_23	8	PPM	0	13833	0	0	0	0	0	0
forest_008_23	9	PPM	0	8289	0	0	0	0	0	0
forest_008_23	10	PPM	0	13211	0	0	0	0	0	0
forest_008_23	11	PPM	0	6610	0	0	0	0	0	0
forest_008_23	12	PPM	0	18965	0	0	0	0	0	0
forest_008_23	13	PPM	0	20942	0	0	0	0	0	0
forest_008_23	14	PPM	0	10984	0	0	0	0	0	0
forest_023_48	15	PPM	0	12345	3547.143	6076.147	0	0	13230	13230
forest_023_48	16	PPM	0	11651	3547.143	6076.147	0	0	13230	13230
forest_023_48	17	PPM	13230	3959	3547.143	6076.147	0	0	13230	13230
forest_023_48	18	PPM	0	39240	3547.143	6076.147	0	0	13230	13230
forest_023_48	19	PPM	11600	3667	3547.143	6076.147	0	0	13230	13230
forest_023_48	20	PPM	0	20239	3547.143	6076.147	0	0	13230	13230
forest_023_48	21	PPM	0	17751	3547.143	6076.147	0	0	13230	13230
forest_048_78	22	PPM	0	39786	2178.286	5763.202	0	0	15248	15248
forest_048_78	23	PPM	0	27046	2178.286	5763.202	0	0	15248	15248
forest_048_78	24	PPM	0	18013	2178.286	5763.202	0	0	15248	15248
forest_048_78	25	PPM	0	7798	2178.286	5763.202	0	0	15248	15248
forest_048_78	26	PPM	0	11322	2178.286	5763.202	0	0	15248	15248
forest_048_78	27	PPM	15248	4189	2178.286	5763.202	0	0	15248	15248
forest_048_78	28	PPM	0	10620	2178.286	5763.202	0	0	15248	15248
forest_078_87	29	PPM	13320	4193	12309.86	6236.118	13320	0	18527	18527
forest_078_87	30	PPM	12276	3650	12309.86	6236.118	13320	0	18527	18527
forest_078_87	31	PPM	17346	2890	12309.86	6236.118	13320	0	18527	18527
forest_078_87	32	PPM	15245	3201	12309.86	6236.118	13320	0	18527	18527
forest_078_87	33	PPM	0	15230	12309.86	6236.118	13320	0	18527	18527
forest_078_87	34	PPM	9455	2991	12309.86	6236.118	13320	0	18527	18527
forest_078_87	35	PPM	18527	3410	12309.86	6236.118	13320	0	18527	18527
forest_087_115	36	PPM	0	5950	8440.714	8046.038	12547	0	17167	17167
forest_087_115	37	PPM	0	7550	8440.714	8046.038	12547	0	17167	17167
forest_087_115	38	PPM	17167	2605	8440.714	8046.038	12547	0	17167	17167
forest_087_115	39	PPM	12547	2622	8440.714	8046.038	12547	0	17167	17167
forest_087_115	40	PPM	0	5807	8440.714	8046.038	12547	0	17167	17167
forest_087_115	41	PPM	13327	2460	8440.714	8046.038	12547	0	17167	17167
forest_087_115	42	PPM	16044	2443	8440.714	8046.038	12547	0	17167	17167

Magnesium (ppm): Calculations

Mg						
	Mean	SD	Median	Min	Max	Range
forest_000_08	2620.428571	6933.002328	0	0	18343	18343
forest_008_23	0	0	0	0	0	0
forest_023_48	3547.142857	6076.14657	0	0	13230	13230
forest_048_76	2178.285714	5763.202284	0	0	15248	15248
forest_076_87	12309.85714	6236.117794	13320	0	18527	18527
forest_087_115	8440.714286	8046.037942	12547	0	17167	17167

Mg (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
0	0	0	0	13320	0
0	0	0	0	12276	0
0	0	13230	0	17346	17167
0	0	0	0	15245	12547
18343	0	11600	0	0	0
0	0	0	15248	9455	13327
0	0	0	0	18527	16044



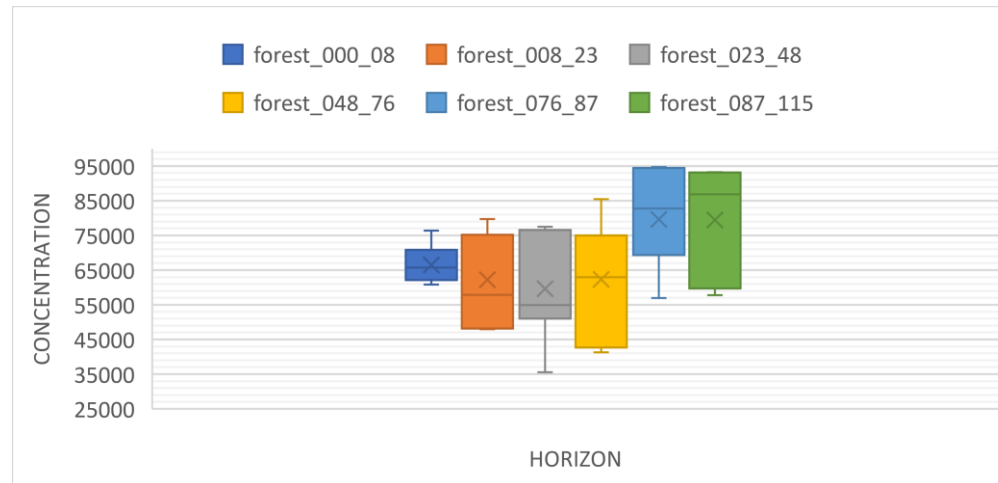
**Aluminum (ppm): dry**

info	Reading #	Units	Al Concentration	Al Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	63187	1195	66437	5480.189	65777	60826	76387	15561
forest_000_08	2	PPM	65904	1034	66437	5480.189	65777	60826	76387	15561
forest_000_08	3	PPM	70872	1051	66437	5480.189	65777	60826	76387	15561
forest_000_08	4	PPM	65777	1029	66437	5480.189	65777	60826	76387	15561
forest_000_08	5	PPM	76387	1009	66437	5480.189	65777	60826	76387	15561
forest_000_08	6	PPM	62106	941	66437	5480.189	65777	60826	76387	15561
forest_000_08	7	PPM	60826	1018	66437	5480.189	65777	60826	76387	15561
forest_008_23	8	PPM	57822	1290	62175.57	13375.87	57822	48007	79692	31685
forest_008_23	9	PPM	75138	1143	62175.57	13375.87	57822	48007	79692	31685
forest_008_23	10	PPM	53751	1170	62175.57	13375.87	57822	48007	79692	31685
forest_008_23	11	PPM	79692	1037	62175.57	13375.87	57822	48007	79692	31685
forest_008_23	12	PPM	48007	1377	62175.57	13375.87	57822	48007	79692	31685
forest_008_23	13	PPM	48127	1427	62175.57	13375.87	57822	48007	79692	31685
forest_008_23	14	PPM	72692	1304	62175.57	13375.87	57822	48007	79692	31685
forest_023_48	15	PPM	54795	1124	59623	15065.87	54896	35530	77520	41990
forest_023_48	16	PPM	67087	1292	59623	15065.87	54896	35530	77520	41990
forest_023_48	17	PPM	77520	1075	59623	15065.87	54896	35530	77520	41990
forest_023_48	18	PPM	35530	1926	59623	15065.87	54896	35530	77520	41990
forest_023_48	19	PPM	76522	1026	59623	15065.87	54896	35530	77520	41990
forest_023_48	20	PPM	54896	1534	59623	15065.87	54896	35530	77520	41990
forest_023_48	21	PPM	51011	1334	59623	15065.87	54896	35530	77520	41990
forest_048_78	22	PPM	41289	1897	62269.43	16005.87	62927	41289	85461	44172
forest_048_78	23	PPM	42662	1452	62269.43	16005.87	62927	41289	85461	44172
forest_048_78	24	PPM	62927	1537	62269.43	16005.87	62927	41289	85461	44172
forest_048_78	25	PPM	75016	1028	62269.43	16005.87	62927	41289	85461	44172
forest_048_78	26	PPM	62892	1140	62269.43	16005.87	62927	41289	85461	44172
forest_048_78	27	PPM	85461	1173	62269.43	16005.87	62927	41289	85461	44172
forest_048_78	28	PPM	65639	1153	62269.43	16005.87	62927	41289	85461	44172
forest_078_87	29	PPM	69345	1063	79663	13524.72	82759	56939	94667	37728
forest_078_87	30	PPM	76513	1025	79663	13524.72	82759	56939	94667	37728
forest_078_87	31	PPM	94667	982	79663	13524.72	82759	56939	94667	37728
forest_078_87	32	PPM	82759	984	79663	13524.72	82759	56939	94667	37728
forest_078_87	33	PPM	56939	1325	79663	13524.72	82759	56939	94667	37728
forest_078_87	34	PPM	94470	1013	79663	13524.72	82759	56939	94667	37728
forest_078_87	35	PPM	82948	1017	79663	13524.72	82759	56939	94667	37728
forest_087_115	36	PPM	59725	938	79466.71	15309	86836	57785	93186	35401
forest_087_115	37	PPM	57785	1084	79466.71	15309	86836	57785	93186	35401
forest_087_115	38	PPM	89623	895	79466.71	15309	86836	57785	93186	35401
forest_087_115	39	PPM	86836	893	79466.71	15309	86836	57785	93186	35401
forest_087_115	40	PPM	75928	1154	79466.71	15309	86836	57785	93186	35401
forest_087_115	41	PPM	93186	884	79466.71	15309	86836	57785	93186	35401
forest_087_115	42	PPM	93184	878	79466.71	15309	86836	57785	93186	35401

### Aluminum (ppm): Calculations

Al						
	Mean	SD	Median	Min	Max	Range
forest_000_08	66437	5480.1885	65777	60826	76387	15561
forest_008_23	62175.57143	13375.86669	57822	48007	79692	31685
forest_023_48	59623	15065.87431	54896	35530	77520	41990
forest_048_76	62269.42857	16005.87243	62927	41289	85461	44172
forest_076_87	79663	13524.71507	82759	56939	94667	37728
forest_087_115	79466.71429	15309.00473	86836	57785	93186	35401

Al (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
63187	57822	54795	41289	69345	59725
65904	75138	67087	42662	76513	57785
70872	53751	77520	62927	94667	89623
65777	79692	35530	75016	82759	86836
76387	48007	76522	62892	56939	75928
62106	48127	54896	85461	94470	93186
60826	72692	51011	65639	82948	93184



**Calcium (ppm): dry**

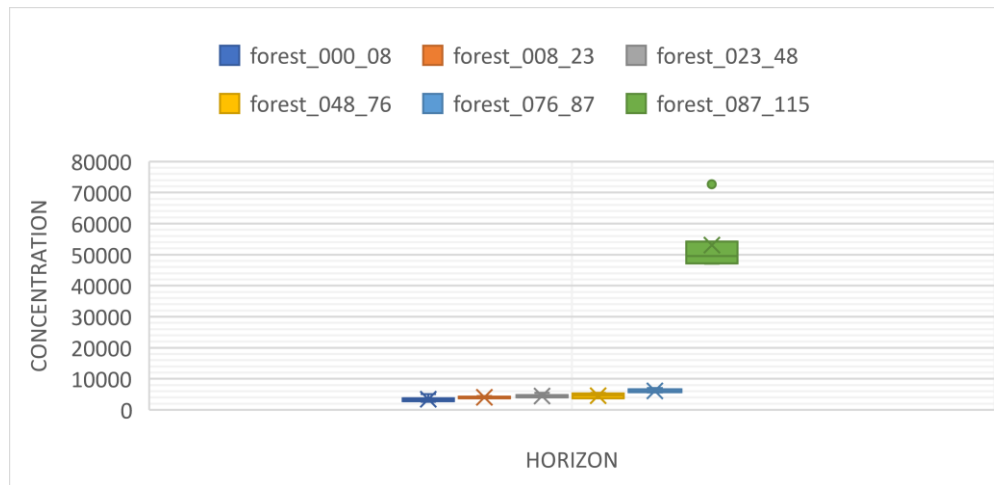
info	Reading #	Units	Ca Concentration	Ca Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	5103	58	3416.714	847.1479	3314	2547	5103	2556
forest_000_08	2	PPM	2827	41	3416.714	847.1479	3314	2547	5103	2556
forest_000_08	3	PPM	2547	40	3416.714	847.1479	3314	2547	5103	2556
forest_000_08	4	PPM	3779	45	3416.714	847.1479	3314	2547	5103	2556
forest_000_08	5	PPM	2952	40	3416.714	847.1479	3314	2547	5103	2556
forest_000_08	6	PPM	3395	39	3416.714	847.1479	3314	2547	5103	2556
forest_000_08	7	PPM	3314	42	3416.714	847.1479	3314	2547	5103	2556
forest_008_23	8	PPM	4258	61	4012.286	274.5583	3930	3679	4409	730
forest_008_23	9	PPM	4182	52	4012.286	274.5583	3930	3679	4409	730
forest_008_23	10	PPM	3882	53	4012.286	274.5583	3930	3679	4409	730
forest_008_23	11	PPM	3679	45	4012.286	274.5583	3930	3679	4409	730
forest_008_23	12	PPM	4409	67	4012.286	274.5583	3930	3679	4409	730
forest_008_23	13	PPM	3930	65	4012.286	274.5583	3930	3679	4409	730
forest_008_23	14	PPM	3746	59	4012.286	274.5583	3930	3679	4409	730
forest_023_48	15	PPM	4295	52	4470.429	530.7501	4295	3996	5513	1517
forest_023_48	16	PPM	5513	67	4470.429	530.7501	4295	3996	5513	1517
forest_023_48	17	PPM	4502	50	4470.429	530.7501	4295	3996	5513	1517
forest_023_48	18	PPM	4742	100	4470.429	530.7501	4295	3996	5513	1517
forest_023_48	19	PPM	3996	45	4470.429	530.7501	4295	3996	5513	1517
forest_023_48	20	PPM	3999	73	4470.429	530.7501	4295	3996	5513	1517
forest_023_48	21	PPM	4246	63	4470.429	530.7501	4295	3996	5513	1517
forest_048_78	22	PPM	5461	101	4520.714	706.1215	4656	3741	5461	1720
forest_048_78	23	PPM	4656	72	4520.714	706.1215	4656	3741	5461	1720
forest_048_78	24	PPM	5251	77	4520.714	706.1215	4656	3741	5461	1720
forest_048_78	25	PPM	3741	43	4520.714	706.1215	4656	3741	5461	1720
forest_048_78	26	PPM	3987	51	4520.714	706.1215	4656	3741	5461	1720
forest_048_78	27	PPM	3754	50	4520.714	706.1215	4656	3741	5461	1720
forest_048_78	28	PPM	4795	55	4520.714	706.1215	4656	3741	5461	1720
forest_078_87	29	PPM	7053	63	6123.714	538.3013	5950	5606	7053	1447
forest_078_87	30	PPM	6046	54	6123.714	538.3013	5950	5606	7053	1447
forest_078_87	31	PPM	5660	48	6123.714	538.3013	5950	5606	7053	1447
forest_078_87	32	PPM	5882	50	6123.714	538.3013	5950	5606	7053	1447
forest_078_87	33	PPM	5950	71	6123.714	538.3013	5950	5606	7053	1447
forest_078_87	34	PPM	5606	51	6123.714	538.3013	5950	5606	7053	1447
forest_078_87	35	PPM	6669	55	6123.714	538.3013	5950	5606	7053	1447
forest_087_115	36	PPM	47154	216	53117.86	9060.626	49593	47104	72708	25604
forest_087_115	37	PPM	54205	284	53117.86	9060.626	49593	47104	72708	25604
forest_087_115	38	PPM	49593	208	53117.86	9060.626	49593	47104	72708	25604
forest_087_115	39	PPM	47104	202	53117.86	9060.626	49593	47104	72708	25604
forest_087_115	40	PPM	72708	339	53117.86	9060.626	49593	47104	72708	25604
forest_087_115	41	PPM	48287	196	53117.86	9060.626	49593	47104	72708	25604
forest_087_115	42	PPM	52774	210	53117.86	9060.626	49593	47104	72708	25604



### Calcium (ppm): Calculations

Ca						
	Mean	SD	Median	Min	Max	Range
forest_000_08	3416.714286	847.1479041	3314	2547	5103	2556
forest_008_23	4012.285714	274.5582599	3930	3679	4409	730
forest_023_48	4470.428571	530.7500533	4295	3996	5513	1517
forest_048_76	4520.714286	706.1214991	4656	3741	5461	1720
forest_076_87	6123.714286	538.3012522	5950	5606	7053	1447
forest_087_115	53117.85714	9060.6262	49593	47104	72708	25604

Ca (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
5103	4258	4295	5461	7053	47154
2827	4182	5513	4656	6046	54205
2547	3882	4502	5251	5660	49593
3779	3679	4742	3741	5882	47104
2952	4409	3996	3987	5950	72708
3395	3930	3999	3754	5606	48287
3314	3746	4246	4795	6669	52774



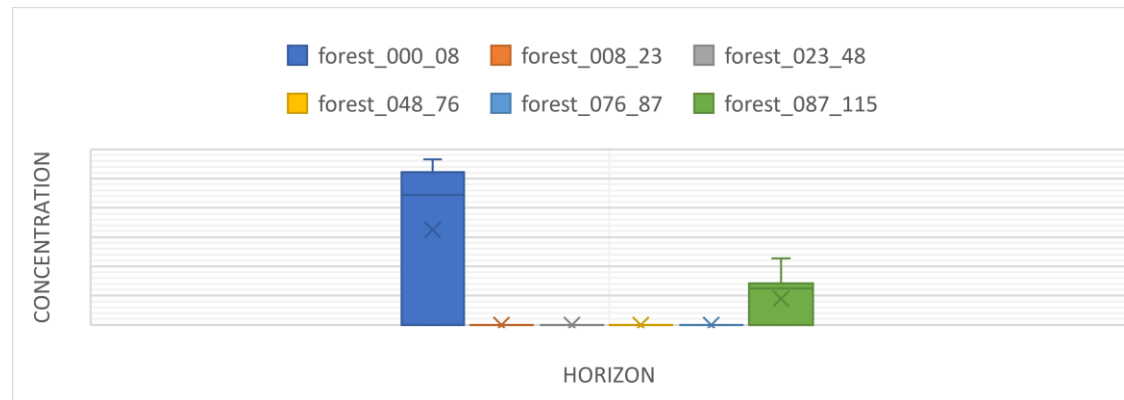
**Sulphur (ppm): dry**

info	Reading #	Units	S Concentration	S Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	566	71	325	241.7319	444	0	566	566
forest_000_08	2	PPM	0	162	325	241.7319	444	0	566	566
forest_000_08	3	PPM	0	162	325	241.7319	444	0	566	566
forest_000_08	4	PPM	444	55	325	241.7319	444	0	566	566
forest_000_08	5	PPM	481	46	325	241.7319	444	0	566	566
forest_000_08	6	PPM	522	47	325	241.7319	444	0	566	566
forest_000_08	7	PPM	262	52	325	241.7319	444	0	566	566
forest_008_23	8	PPM	0	273	0	0	0	0	0	0
forest_008_23	9	PPM	0	169	0	0	0	0	0	0
forest_008_23	10	PPM	0	260	0	0	0	0	0	0
forest_008_23	11	PPM	0	137	0	0	0	0	0	0
forest_008_23	12	PPM	0	380	0	0	0	0	0	0
forest_008_23	13	PPM	0	422	0	0	0	0	0	0
forest_008_23	14	PPM	0	224	0	0	0	0	0	0
forest_023_48	15	PPM	0	249	0	0	0	0	0	0
forest_023_48	16	PPM	0	234	0	0	0	0	0	0
forest_023_48	17	PPM	0	135	0	0	0	0	0	0
forest_023_48	18	PPM	0	767	0	0	0	0	0	0
forest_023_48	19	PPM	0	136	0	0	0	0	0	0
forest_023_48	20	PPM	0	406	0	0	0	0	0	0
forest_023_48	21	PPM	0	360	0	0	0	0	0	0
forest_048_78	22	PPM	0	782	0	0	0	0	0	0
forest_048_78	23	PPM	0	546	0	0	0	0	0	0
forest_048_78	24	PPM	0	373	0	0	0	0	0	0
forest_048_78	25	PPM	0	164	0	0	0	0	0	0
forest_048_78	26	PPM	0	239	0	0	0	0	0	0
forest_048_78	27	PPM	0	155	0	0	0	0	0	0
forest_048_78	28	PPM	0	224	0	0	0	0	0	0
forest_078_87	29	PPM	0	162	0	0	0	0	0	0
forest_078_87	30	PPM	0	136	0	0	0	0	0	0
forest_078_87	31	PPM	0	96	0	0	0	0	0	0
forest_078_87	32	PPM	0	118	0	0	0	0	0	0
forest_078_87	33	PPM	0	311	0	0	0	0	0	0
forest_078_87	34	PPM	0	100	0	0	0	0	0	0
forest_078_87	35	PPM	0	122	0	0	0	0	0	0
forest_087_115	36	PPM	0	128	89	89.92775	124	0	227	227
forest_087_115	37	PPM	0	161	89	89.92775	124	0	227	227
forest_087_115	38	PPM	130	37	89	89.92775	124	0	227	227
forest_087_115	39	PPM	124	39	89	89.92775	124	0	227	227
forest_087_115	40	PPM	0	125	89	89.92775	124	0	227	227
forest_087_115	41	PPM	142	38	89	89.92775	124	0	227	227
forest_087_115	42	PPM	227	38	89	89.92775	124	0	227	227

Sulphur (ppm): Calculations

S						
	Mean	SD	Median	Min	Max	Range
forest_000_08	325	241.7319452	444	0	566	566
forest_008_23	0	0	0	0	0	0
forest_023_48	0	0	0	0	0	0
forest_048_76	0	0	0	0	0	0
forest_076_87	0	0	0	0	0	0
forest_087_115	89	89.92774878	124	0	227	227

S (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
566	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	130
444	0	0	0	0	124
481	0	0	0	0	0
522	0	0	0	0	142
262	0	0	0	0	227



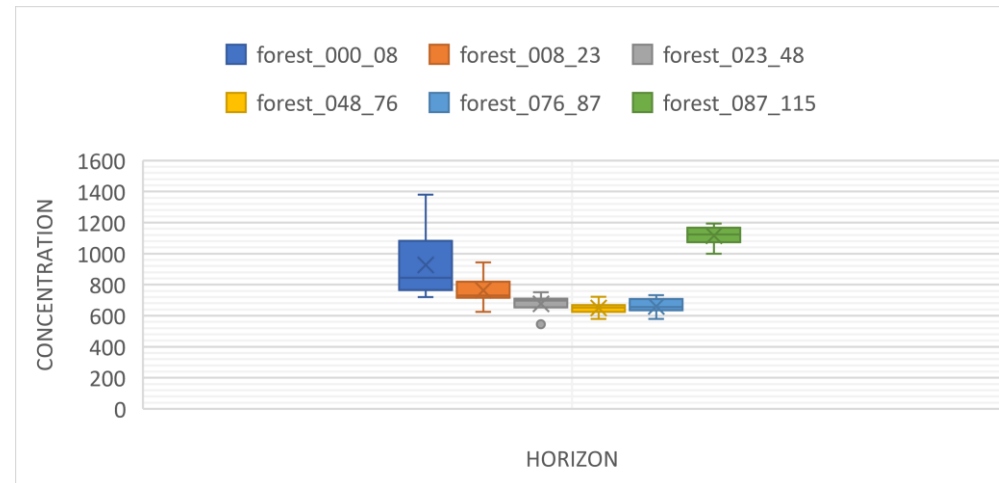
**Manganese (ppm): dry**

info	Reading #	Units	Mn Concentration	Mn Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	1380	40	926.8571	230.358	844	720	1380	660
forest_000_08	2	PPM	720	27	926.8571	230.358	844	720	1380	660
forest_000_08	3	PPM	766	27	926.8571	230.358	844	720	1380	660
forest_000_08	4	PPM	1083	32	926.8571	230.358	844	720	1380	660
forest_000_08	5	PPM	844	26	926.8571	230.358	844	720	1380	660
forest_000_08	6	PPM	831	26	926.8571	230.358	844	720	1380	660
forest_000_08	7	PPM	864	28	926.8571	230.358	844	720	1380	660
forest_008_23	8	PPM	820	35	763.1429	99.44417	731	625	943	318
forest_008_23	9	PPM	730	29	763.1429	99.44417	731	625	943	318
forest_008_23	10	PPM	731	31	763.1429	99.44417	731	625	943	318
forest_008_23	11	PPM	943	29	763.1429	99.44417	731	625	943	318
forest_008_23	12	PPM	625	34	763.1429	99.44417	731	625	943	318
forest_008_23	13	PPM	715	37	763.1429	99.44417	731	625	943	318
forest_008_23	14	PPM	778	34	763.1429	99.44417	731	625	943	318
forest_023_48	15	PPM	709	29	676.1429	65.67452	697	546	752	206
forest_023_48	16	PPM	697	33	676.1429	65.67452	697	546	752	206
forest_023_48	17	PPM	666	26	676.1429	65.67452	697	546	752	206
forest_023_48	18	PPM	709	48	676.1429	65.67452	697	546	752	206
forest_023_48	19	PPM	654	24	676.1429	65.67452	697	546	752	206
forest_023_48	20	PPM	546	36	676.1429	65.67452	697	546	752	206
forest_023_48	21	PPM	752	35	676.1429	65.67452	697	546	752	206
forest_048_78	22	PPM	624	45	649.4286	43.68393	652	579	723	144
forest_048_78	23	PPM	723	38	649.4286	43.68393	652	579	723	144
forest_048_78	24	PPM	579	36	649.4286	43.68393	652	579	723	144
forest_048_78	25	PPM	669	25	649.4286	43.68393	652	579	723	144
forest_048_78	26	PPM	652	28	649.4286	43.68393	652	579	723	144
forest_048_78	27	PPM	654	27	649.4286	43.68393	652	579	723	144
forest_048_78	28	PPM	645	28	649.4286	43.68393	652	579	723	144
forest_078_87	29	PPM	672	26	660.1429	50.28727	655	580	733	153
forest_078_87	30	PPM	733	26	660.1429	50.28727	655	580	733	153
forest_078_87	31	PPM	639	22	660.1429	50.28727	655	580	733	153
forest_078_87	32	PPM	580	22	660.1429	50.28727	655	580	733	153
forest_078_87	33	PPM	707	34	660.1429	50.28727	655	580	733	153
forest_078_87	34	PPM	655	24	660.1429	50.28727	655	580	733	153
forest_078_87	35	PPM	635	23	660.1429	50.28727	655	580	733	153
forest_087_115	36	PPM	1113	33	1114.714	63.9289	1124	999	1193	194
forest_087_115	37	PPM	1193	39	1114.714	63.9289	1124	999	1193	194
forest_087_115	38	PPM	1124	29	1114.714	63.9289	1124	999	1193	194
forest_087_115	39	PPM	999	28	1114.714	63.9289	1124	999	1193	194
forest_087_115	40	PPM	1168	42	1114.714	63.9289	1124	999	1193	194
forest_087_115	41	PPM	1073	28	1114.714	63.9289	1124	999	1193	194
forest_087_115	42	PPM	1133	29	1114.714	63.9289	1124	999	1193	194

### Manganese (ppm): Calculations

Mn						
	Mean	SD	Median	Min	Max	Range
forest_000_08	926.8571429	230.358003	844	720	1380	660
forest_008_23	763.1428571	99.44416955	731	625	943	318
forest_023_48	676.1428571	65.67452213	697	546	752	206
forest_048_76	649.4285714	43.6839297	652	579	723	144
forest_076_87	660.1428571	50.28727	655	580	733	153
forest_087_115	1114.714286	63.92890396	1124	999	1193	194

Mn (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
1380	820	709	624	672	1113
720	730	697	723	733	1193
766	731	666	579	639	1124
1083	943	709	669	580	999
844	625	654	652	707	1168
831	715	546	654	655	1073
864	778	752	645	635	1133



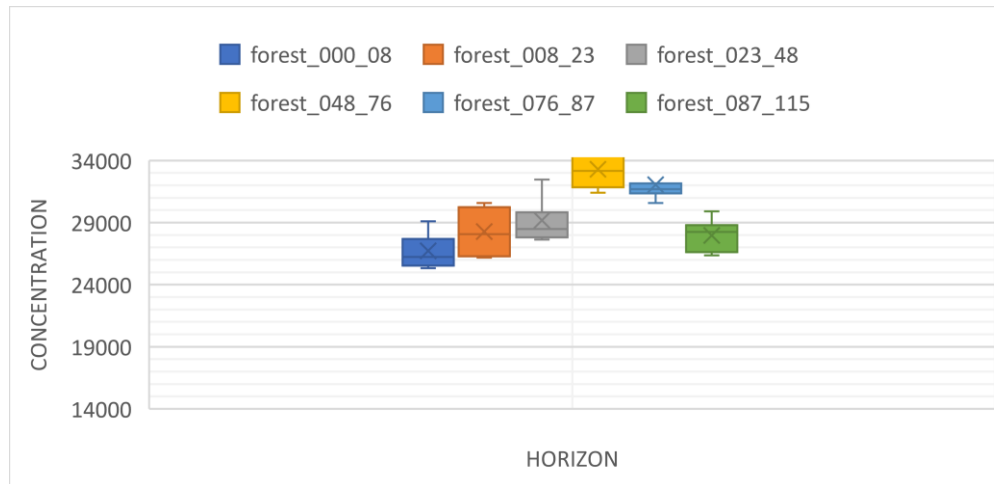
**Iron (ppm): dry**

info	Reading #	Units	Fe Concentration	Fe Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	25707	180	26729.14	1406.269	26232	25325	29096	3771
forest_000_08	2	PPM	27529	167	26729.14	1406.269	26232	25325	29096	3771
forest_000_08	3	PPM	25528	156	26729.14	1406.269	26232	25325	29096	3771
forest_000_08	4	PPM	26232	160	26729.14	1406.269	26232	25325	29096	3771
forest_000_08	5	PPM	27687	180	26729.14	1406.269	26232	25325	29096	3771
forest_000_08	6	PPM	29096	163	26729.14	1406.269	26232	25325	29096	3771
forest_000_08	7	PPM	25325	158	26729.14	1406.269	26232	25325	29096	3771
forest_008_23	8	PPM	26284	206	28290.14	1803.911	28069	26170	30573	4403
forest_008_23	9	PPM	29327	187	28290.14	1803.911	28069	26170	30573	4403
forest_008_23	10	PPM	30573	218	28290.14	1803.911	28069	26170	30573	4403
forest_008_23	11	PPM	30243	172	28290.14	1803.911	28069	26170	30573	4403
forest_008_23	12	PPM	26170	229	28290.14	1803.911	28069	26170	30573	4403
forest_008_23	13	PPM	28069	250	28290.14	1803.911	28069	26170	30573	4403
forest_008_23	14	PPM	27365	204	28290.14	1803.911	28069	26170	30573	4403
forest_023_48	15	PPM	29597	204	29186.86	1669.693	28493	27638	32479	4841
forest_023_48	16	PPM	32479	237	29186.86	1669.693	28493	27638	32479	4841
forest_023_48	17	PPM	27638	194	29186.86	1669.693	28493	27638	32479	4841
forest_023_48	18	PPM	28458	347	29186.86	1669.693	28493	27638	32479	4841
forest_023_48	19	PPM	28493	190	29186.86	1669.693	28493	27638	32479	4841
forest_023_48	20	PPM	27811	260	29186.86	1669.693	28493	27638	32479	4841
forest_023_48	21	PPM	29832	247	29186.86	1669.693	28493	27638	32479	4841
forest_048_78	22	PPM	33052	385	33303	1347.453	33157	31413	34923	3510
forest_048_78	23	PPM	34684	319	33303	1347.453	33157	31413	34923	3510
forest_048_78	24	PPM	31839	280	33303	1347.453	33157	31413	34923	3510
forest_048_78	25	PPM	33157	188	33303	1347.453	33157	31413	34923	3510
forest_048_78	26	PPM	34923	232	33303	1347.453	33157	31413	34923	3510
forest_048_78	27	PPM	31413	228	33303	1347.453	33157	31413	34923	3510
forest_048_78	28	PPM	34053	225	33303	1347.453	33157	31413	34923	3510
forest_078_87	29	PPM	32145	231	32056.43	1559.622	31700	30573	35415	4842
forest_078_87	30	PPM	35415	228	32056.43	1559.622	31700	30573	35415	4842
forest_078_87	31	PPM	31346	177	32056.43	1559.622	31700	30573	35415	4842
forest_078_87	32	PPM	31418	189	32056.43	1559.622	31700	30573	35415	4842
forest_078_87	33	PPM	31798	254	32056.43	1559.622	31700	30573	35415	4842
forest_078_87	34	PPM	31700	185	32056.43	1559.622	31700	30573	35415	4842
forest_078_87	35	PPM	30573	192	32056.43	1559.622	31700	30573	35415	4842
forest_087_115	36	PPM	29914	179	27963.57	1256.694	28256	26354	29914	3560
forest_087_115	37	PPM	28411	201	27963.57	1256.694	28256	26354	29914	3560
forest_087_115	38	PPM	27407	151	27963.57	1256.694	28256	26354	29914	3560
forest_087_115	39	PPM	28785	160	27963.57	1256.694	28256	26354	29914	3560
forest_087_115	40	PPM	28256	197	27963.57	1256.694	28256	26354	29914	3560
forest_087_115	41	PPM	26354	144	27963.57	1256.694	28256	26354	29914	3560
forest_087_115	42	PPM	26618	144	27963.57	1256.694	28256	26354	29914	3560

Iron (ppm): Calculations

Fe						
	Mean	SD	Median	Min	Max	Range
forest_000_08	26729.14286	1406.269465	26232	25325	29096	3771
forest_008_23	28290.14286	1803.910976	28069	26170	30573	4403
forest_023_48	29186.85714	1669.692729	28493	27638	32479	4841
forest_048_76	33303	1347.452782	33157	31413	34923	3510
forest_076_87	32056.42857	1559.622482	31700	30573	35415	4842
forest_087_115	27963.57143	1256.693924	28256	26354	29914	3560

Fe (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
25707	26284	29597	33052	32145	29914
27529	29327	32479	34684	35415	28411
25528	30573	27638	31839	31346	27407
26232	30243	28458	33157	31418	28785
27687	26170	28493	34923	31798	28256
29096	28069	27811	31413	31700	26354
25325	27365	29832	34053	30573	26618



**Rubidium (ppm): dry**

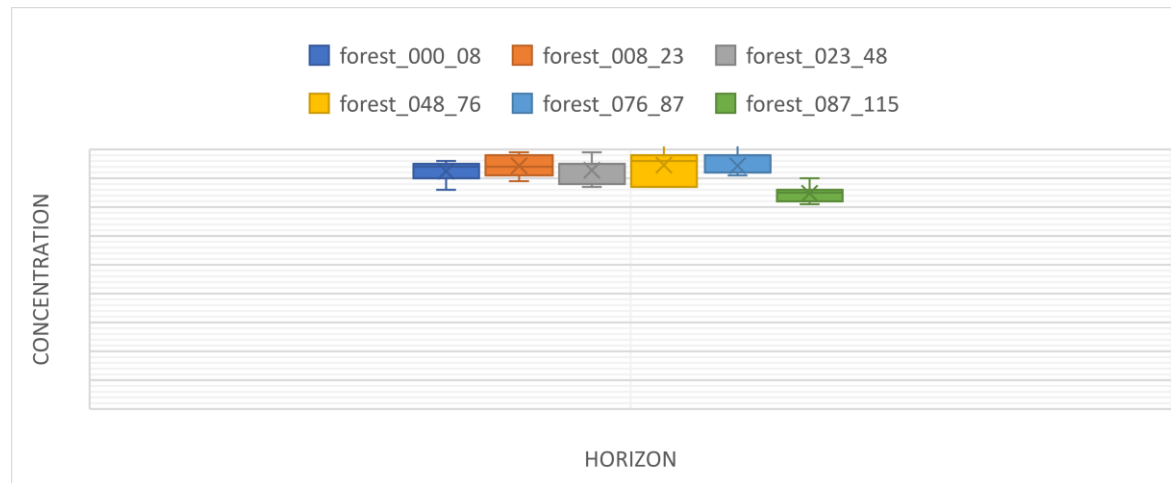
info	Reading #	Units	Rb Concentration	Rb Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	81	2	82.42857	3.598942	84	76	86	10
forest_000_08	2	PPM	86	2	82.42857	3.598942	84	76	86	10
forest_000_08	3	PPM	85	2	82.42857	3.598942	84	76	86	10
forest_000_08	4	PPM	80	2	82.42857	3.598942	84	76	86	10
forest_000_08	5	PPM	84	2	82.42857	3.598942	84	76	86	10
forest_000_08	6	PPM	85	2	82.42857	3.598942	84	76	86	10
forest_000_08	7	PPM	76	2	82.42857	3.598942	84	76	86	10
forest_008_23	8	PPM	79	2	84.28571	3.638419	84	79	89	10
forest_008_23	9	PPM	84	2	84.28571	3.638419	84	79	89	10
forest_008_23	10	PPM	89	2	84.28571	3.638419	84	79	89	10
forest_008_23	11	PPM	88	2	84.28571	3.638419	84	79	89	10
forest_008_23	12	PPM	83	2	84.28571	3.638419	84	79	89	10
forest_008_23	13	PPM	86	2	84.28571	3.638419	84	79	89	10
forest_008_23	14	PPM	81	2	84.28571	3.638419	84	79	89	10
forest_023_48	15	PPM	85	2	82.71429	4.423961	85	77	89	12
forest_023_48	16	PPM	89	2	82.71429	4.423961	85	77	89	12
forest_023_48	17	PPM	78	2	82.71429	4.423961	85	77	89	12
forest_023_48	18	PPM	85	3	82.71429	4.423961	85	77	89	12
forest_023_48	19	PPM	77	2	82.71429	4.423961	85	77	89	12
forest_023_48	20	PPM	80	2	82.71429	4.423961	85	77	89	12
forest_023_48	21	PPM	85	2	82.71429	4.423961	85	77	89	12
forest_048_78	22	PPM	93	3	84.57143	5.798193	86	77	93	16
forest_048_78	23	PPM	88	3	84.57143	5.798193	86	77	93	16
forest_048_78	24	PPM	77	2	84.57143	5.798193	86	77	93	16
forest_048_78	25	PPM	86	2	84.57143	5.798193	86	77	93	16
forest_048_78	26	PPM	86	2	84.57143	5.798193	86	77	93	16
forest_048_78	27	PPM	77	2	84.57143	5.798193	86	77	93	16
forest_048_78	28	PPM	85	2	84.57143	5.798193	86	77	93	16
forest_078_87	29	PPM	82	2	84.28571	4.11154	82	81	92	11
forest_078_87	30	PPM	92	2	84.28571	4.11154	82	81	92	11
forest_078_87	31	PPM	82	1	84.28571	4.11154	82	81	92	11
forest_078_87	32	PPM	82	2	84.28571	4.11154	82	81	92	11
forest_078_87	33	PPM	88	2	84.28571	4.11154	82	81	92	11
forest_078_87	34	PPM	83	2	84.28571	4.11154	82	81	92	11
forest_078_87	35	PPM	81	2	84.28571	4.11154	82	81	92	11
forest_087_115	36	PPM	80	2	74.71429	3.039424	75	71	80	9
forest_087_115	37	PPM	76	2	74.71429	3.039424	75	71	80	9
forest_087_115	38	PPM	73	1	74.71429	3.039424	75	71	80	9
forest_087_115	39	PPM	75	1	74.71429	3.039424	75	71	80	9
forest_087_115	40	PPM	76	2	74.71429	3.039424	75	71	80	9
forest_087_115	41	PPM	71	1	74.71429	3.039424	75	71	80	9
forest_087_115	42	PPM	72	1	74.71429	3.039424	75	71	80	9



### Rubidium (ppm): Calculations

Rb						
	Mean	SD	Median	Min	Max	Range
forest_000_08	82.42857143	3.598941643	84	76	86	10
forest_008_23	84.28571429	3.638419332	84	79	89	10
forest_023_48	82.71428571	4.423960733	85	77	89	12
forest_048_76	84.57142857	5.798193479	86	77	93	16
forest_076_87	84.28571429	4.111540089	82	81	92	11
forest_087_115	74.71428571	3.039423504	75	71	80	9

Rb (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
81	79	85	93	82	80
86	84	89	88	92	76
85	89	78	77	82	73
80	88	85	86	82	75
84	83	77	86	88	76
85	86	80	77	83	71
76	81	85	85	81	72



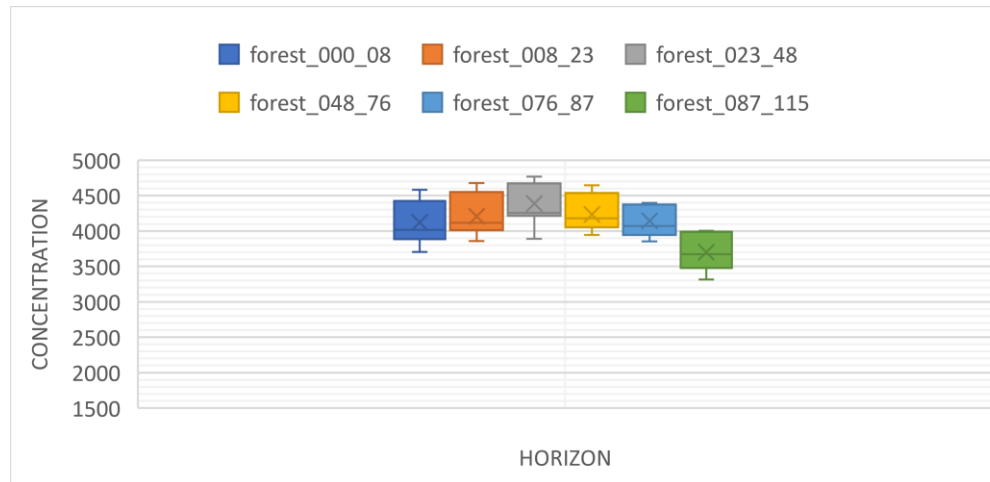
**Titanium (ppm): dry**

info	Reading #	Units	Ti Concentration	Ti Error1s	Mean	SD	Median	Min	Max	Range
forest_000_08	1	PPM	4015	166	4119.571	308.6918	4015	3705	4583	878
forest_000_08	2	PPM	4583	151	4119.571	308.6918	4015	3705	4583	878
forest_000_08	3	PPM	3705	140	4119.571	308.6918	4015	3705	4583	878
forest_000_08	4	PPM	4231	147	4119.571	308.6918	4015	3705	4583	878
forest_000_08	5	PPM	3996	133	4119.571	308.6918	4015	3705	4583	878
forest_000_08	6	PPM	4422	137	4119.571	308.6918	4015	3705	4583	878
forest_000_08	7	PPM	3885	141	4119.571	308.6918	4015	3705	4583	878
forest_008_23	8	PPM	3856	178	4206.571	298.7384	4118	3856	4678	822
forest_008_23	9	PPM	4180	160	4206.571	298.7384	4118	3856	4678	822
forest_008_23	10	PPM	4552	173	4206.571	298.7384	4118	3856	4678	822
forest_008_23	11	PPM	4678	150	4206.571	298.7384	4118	3856	4678	822
forest_008_23	12	PPM	4051	195	4206.571	298.7384	4118	3856	4678	822
forest_008_23	13	PPM	4118	199	4206.571	298.7384	4118	3856	4678	822
forest_008_23	14	PPM	4011	180	4206.571	298.7384	4118	3856	4678	822
forest_023_48	15	PPM	4225	161	4386	324.1599	4256	3888	4769	881
forest_023_48	16	PPM	4672	189	4386	324.1599	4256	3888	4769	881
forest_023_48	17	PPM	4769	153	4386	324.1599	4256	3888	4769	881
forest_023_48	18	PPM	3888	255	4386	324.1599	4256	3888	4769	881
forest_023_48	19	PPM	4218	138	4386	324.1599	4256	3888	4769	881
forest_023_48	20	PPM	4256	216	4386	324.1599	4256	3888	4769	881
forest_023_48	21	PPM	4674	197	4386	324.1599	4256	3888	4769	881
forest_048_78	22	PPM	3945	248	4233.857	260.9779	4179	3945	4648	703
forest_048_78	23	PPM	4648	209	4233.857	260.9779	4179	3945	4648	703
forest_048_78	24	PPM	4199	209	4233.857	260.9779	4179	3945	4648	703
forest_048_78	25	PPM	4054	138	4233.857	260.9779	4179	3945	4648	703
forest_048_78	26	PPM	4537	164	4233.857	260.9779	4179	3945	4648	703
forest_048_78	27	PPM	4179	151	4233.857	260.9779	4179	3945	4648	703
forest_048_78	28	PPM	4075	159	4233.857	260.9779	4179	3945	4648	703
forest_078_87	29	PPM	3943	142	4144.857	219.4443	4071	3852	4397	545
forest_078_87	30	PPM	4372	139	4144.857	219.4443	4071	3852	4397	545
forest_078_87	31	PPM	4052	127	4144.857	219.4443	4071	3852	4397	545
forest_078_87	32	PPM	3852	126	4144.857	219.4443	4071	3852	4397	545
forest_078_87	33	PPM	4327	190	4144.857	219.4443	4071	3852	4397	545
forest_078_87	34	PPM	4397	137	4144.857	219.4443	4071	3852	4397	545
forest_078_87	35	PPM	4071	133	4144.857	219.4443	4071	3852	4397	545
forest_087_115	36	PPM	4005	146	3700.571	271.1383	3671	3313	4005	692
forest_087_115	37	PPM	3477	164	3700.571	271.1383	3671	3313	4005	692
forest_087_115	38	PPM	3671	126	3700.571	271.1383	3671	3313	4005	692
forest_087_115	39	PPM	3902	131	3700.571	271.1383	3671	3313	4005	692
forest_087_115	40	PPM	3989	185	3700.571	271.1383	3671	3313	4005	692
forest_087_115	41	PPM	3547	125	3700.571	271.1383	3671	3313	4005	692
forest_087_115	42	PPM	3313	122	3700.571	271.1383	3671	3313	4005	692

**Titanium (ppm): Calculations**

Ti						
	Mean	SD	Median	Min	Max	Range
forest_000_08	4119.571429	308.6917865	4015	3705	4583	878
forest_008_23	4206.571429	298.7383789	4118	3856	4678	822
forest_023_48	4386	324.1599399	4256	3888	4769	881
forest_048_76	4233.857143	260.9779228	4179	3945	4648	703
forest_076_87	4144.857143	219.4443199	4071	3852	4397	545
forest_087_115	3700.571429	271.1382533	3671	3313	4005	692

Ti (when the sample is dry)					
forest_000_08	forest_008_23	forest_023_48	forest_048_76	forest_076_87	forest_087_115
4015	3856	4225	3945	3943	4005
4583	4180	4672	4648	4372	3477
3705	4552	4769	4199	4052	3671
4231	4678	3888	4054	3852	3902
3996	4051	4218	4537	4327	3989
4422	4118	4256	4179	4397	3547
3885	4011	4674	4075	4071	3313



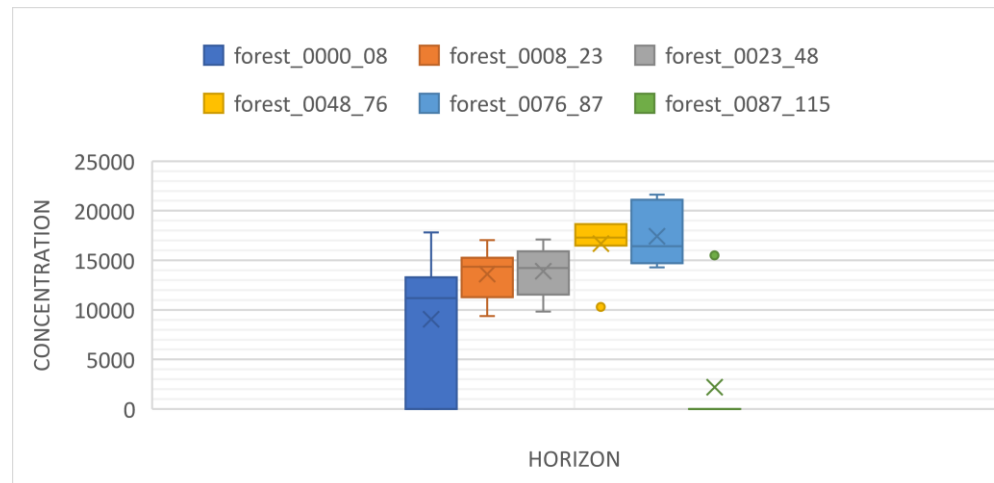
**Annex D**  
**Forest XRF data treatment**

Magnesium (ppm): treatment										
info	Reading #	Units	Mg Concentration	Mg Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	11501	2688	9043.286	6703.067	11177	0	17825	17825
forest_0000_08	2	PPM	0	12591	9043.286	6703.067	11177	0	17825	17825
forest_0000_08	3	PPM	9502	3135	9043.286	6703.067	11177	0	17825	17825
forest_0000_08	4	PPM	0	7570	9043.286	6703.067	11177	0	17825	17825
forest_0000_08	5	PPM	11177	2550	9043.286	6703.067	11177	0	17825	17825
forest_0000_08	6	PPM	17825	2420	9043.286	6703.067	11177	0	17825	17825
forest_0000_08	7	PPM	13298	2965	9043.286	6703.067	11177	0	17825	17825
forest_0008_23	8	PPM	13609	2941	13622	2549.525	14355	9382	17053	7671
forest_0008_23	9	PPM	15266	2741	13622	2549.525	14355	9382	17053	7671
forest_0008_23	10	PPM	14355	2508	13622	2549.525	14355	9382	17053	7671
forest_0008_23	11	PPM	14394	2355	13622	2549.525	14355	9382	17053	7671
forest_0008_23	12	PPM	9382	2464	13622	2549.525	14355	9382	17053	7671
forest_0008_23	13	PPM	17053	2231	13622	2549.525	14355	9382	17053	7671
forest_0008_23	14	PPM	11295	2328	13622	2549.525	14355	9382	17053	7671
forest_0023_48	15	PPM	17090	2512	13915.86	2513.671	14230	9822	17090	7268
forest_0023_48	16	PPM	15911	2744	13915.86	2513.671	14230	9822	17090	7268
forest_0023_48	17	PPM	11558	2761	13915.86	2513.671	14230	9822	17090	7268
forest_0023_48	18	PPM	14230	2690	13915.86	2513.671	14230	9822	17090	7268
forest_0023_48	19	PPM	13704	2308	13915.86	2513.671	14230	9822	17090	7268
forest_0023_48	20	PPM	9822	2836	13915.86	2513.671	14230	9822	17090	7268
forest_0023_48	21	PPM	15096	3690	13915.86	2513.671	14230	9822	17090	7268
forest_0048_78	22	PPM	16892	2884	16684.71	2956.601	17286	10294	18667	8373
forest_0048_78	23	PPM	16483	2661	16684.71	2956.601	17286	10294	18667	8373
forest_0048_78	24	PPM	18667	2516	16684.71	2956.601	17286	10294	18667	8373
forest_0048_78	25	PPM	17286	2736	16684.71	2956.601	17286	10294	18667	8373
forest_0048_78	26	PPM	18526	2669	16684.71	2956.601	17286	10294	18667	8373
forest_0048_78	27	PPM	10294	3176	16684.71	2956.601	17286	10294	18667	8373
forest_0048_78	28	PPM	18645	2645	16684.71	2956.601	17286	10294	18667	8373
forest_0078_87	29	PPM	14285	2380	14934.86	7197.837	15449	0	21634	21634
forest_0078_87	30	PPM	17372	2359	14934.86	7197.837	15449	0	21634	21634
forest_0078_87	31	PPM	14845	3858	14934.86	7197.837	15449	0	21634	21634
forest_0078_87	32	PPM	20959	2383	14934.86	7197.837	15449	0	21634	21634
forest_0078_87	33	PPM	15449	2737	14934.86	7197.837	15449	0	21634	21634
forest_0078_87	34	PPM	21634	2414	14934.86	7197.837	15449	0	21634	21634
forest_0087_115	35	PPM	0	14810	2584.833	6331.523	0	0	15509	15509
forest_0087_115	36	PPM	0	12965	2584.833	6331.523	0	0	15509	15509
forest_0087_115	37	PPM	0	9806	2584.833	6331.523	0	0	15509	15509
forest_0087_115	38	PPM	0	4962	2584.833	6331.523	0	0	15509	15509
forest_0087_115	39	PPM	15509	2943	2584.833	6331.523	0	0	15509	15509
forest_0087_115	40	PPM	0	4093	2584.833	6331.523	0	0	15509	15509
forest_0087_115	41	PPM	0	5369	2584.833	6331.523	0	0	15509	15509

### Magnesium (ppm): Calculations

Mg						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	9043.285714	6703.067052	11177	0	17825	17825
forest_0008_23	13622	2549.525054	14355	9382	17053	7671
forest_0023_48	13915.85714	2513.670651	14230	9822	17090	7268
forest_0048_76	16684.71429	2956.601073	17286	10294	18667	8373
forest_0076_87	17424	3182.081583	16410.5	14285	21634	7349
forest_0087_115	2215.571429	5861.851012	0	0	15509	15509

Mg ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
11501	13609	17090	16892	14285	0
0	15266	15911	16483	17372	0
9502	14355	11558	18667	14845	0
0	14394	14230	17286	20959	0
11177	9382	13704	18526	15449	15509
17825	17053	9822	10294	21634	0
13298	11295	15096	18645		0



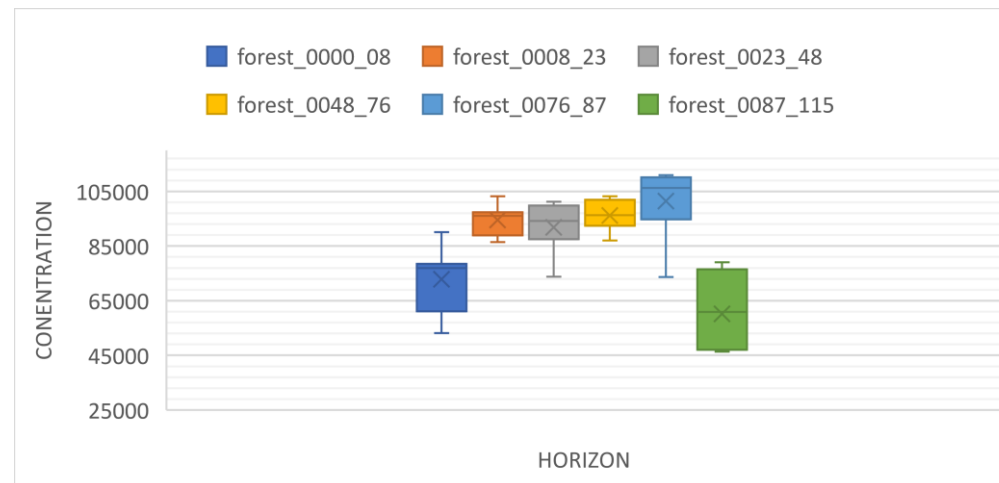
**Aluminum (ppm): treatment**

info	Reading #	Units	Al Concentration	Al Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	76893	877	72858.29	12265.87	76893	53174	90083	36909
forest_0000_08	2	PPM	53174	1148	72858.29	12265.87	76893	53174	90083	36909
forest_0000_08	3	PPM	71796	927	72858.29	12265.87	76893	53174	90083	36909
forest_0000_08	4	PPM	61110	948	72858.29	12265.87	76893	53174	90083	36909
forest_0000_08	5	PPM	78496	857	72858.29	12265.87	76893	53174	90083	36909
forest_0000_08	6	PPM	90083	865	72858.29	12265.87	76893	53174	90083	36909
forest_0000_08	7	PPM	78456	933	72858.29	12265.87	76893	53174	90083	36909
forest_0008_23	8	PPM	86419	964	94558.29	5674.101	96105	86419	103190	16771
forest_0008_23	9	PPM	88890	939	94558.29	5674.101	96105	86419	103190	16771
forest_0008_23	10	PPM	96105	924	94558.29	5674.101	96105	86419	103190	16771
forest_0008_23	11	PPM	97121	889	94558.29	5674.101	96105	86419	103190	16771
forest_0008_23	12	PPM	92772	904	94558.29	5674.101	96105	86419	103190	16771
forest_0008_23	13	PPM	103190	879	94558.29	5674.101	96105	86419	103190	16771
forest_0008_23	14	PPM	97411	888	94558.29	5674.101	96105	86419	103190	16771
forest_0023_48	15	PPM	99822	936	91847.14	9446.896	94189	73741	101187	27446
forest_0023_48	16	PPM	89415	943	91847.14	9446.896	94189	73741	101187	27446
forest_0023_48	17	PPM	97032	988	91847.14	9446.896	94189	73741	101187	27446
forest_0023_48	18	PPM	94189	958	91847.14	9446.896	94189	73741	101187	27446
forest_0023_48	19	PPM	101187	896	91847.14	9446.896	94189	73741	101187	27446
forest_0023_48	20	PPM	87544	956	91847.14	9446.896	94189	73741	101187	27446
forest_0023_48	21	PPM	73741	1021	91847.14	9446.896	94189	73741	101187	27446
forest_0048_78	22	PPM	92643	987	96129.14	5803.796	96255	87070	103236	16166
forest_0048_78	23	PPM	96255	948	96129.14	5803.796	96255	87070	103236	16166
forest_0048_78	24	PPM	101899	939	96129.14	5803.796	96255	87070	103236	16166
forest_0048_78	25	PPM	92439	948	96129.14	5803.796	96255	87070	103236	16166
forest_0048_78	26	PPM	103236	978	96129.14	5803.796	96255	87070	103236	16166
forest_0048_78	27	PPM	87070	1024	96129.14	5803.796	96255	87070	103236	16166
forest_0048_78	28	PPM	99362	956	96129.14	5803.796	96255	87070	103236	16166
forest_0078_87	29	PPM	104287	924	93728.43	24266.69	104287	47037	110977	63940
forest_0078_87	30	PPM	108352	923	93728.43	24266.69	104287	47037	110977	63940
forest_0078_87	31	PPM	73671	1046	93728.43	24266.69	104287	47037	110977	63940
forest_0078_87	32	PPM	109907	928	93728.43	24266.69	104287	47037	110977	63940
forest_0078_87	33	PPM	101868	991	93728.43	24266.69	104287	47037	110977	63940
forest_0078_87	34	PPM	110977	938	93728.43	24266.69	104287	47037	110977	63940
forest_0087_115	35	PPM	47037	1468	62319.83	13646.61	61786	46331	79018	32687
forest_0087_115	36	PPM	46331	1342	62319.83	13646.61	61786	46331	79018	32687
forest_0087_115	37	PPM	48459	1113	62319.83	13646.61	61786	46331	79018	32687
forest_0087_115	38	PPM	62735	859	62319.83	13646.61	61786	46331	79018	32687
forest_0087_115	39	PPM	79018	920	62319.83	13646.61	61786	46331	79018	32687
forest_0087_115	40	PPM	76539	883	62319.83	13646.61	61786	46331	79018	32687
forest_0087_115	41	PPM	60837	908	62319.83	13646.61	61786	46331	79018	32687

### Aluminum (ppm): Calculations

Al						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	72858.28571	12265.87204	76893	53174	90083	36909
forest_0008_23	94558.28571	5674.101271	96105	86419	103190	16771
forest_0023_48	91847.14286	9446.896165	94189	73741	101187	27446
forest_0048_76	96129.14286	5803.79604	96255	87070	103236	16166
forest_0076_87	101510.3333	14069.80082	106319.5	73671	110977	37306
forest_0087_115	60136.57143	13731.64646	60837	46331	79018	32687

Al ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
76893	86419	99822	92643	104287	47037
53174	88890	89415	96255	108352	46331
71796	96105	97032	101899	73671	48459
61110	97121	94189	92439	109907	62735
78496	92772	101187	103236	101868	79018
90083	103190	87544	87070	110977	76539
78456	97411	73741	99362		60837





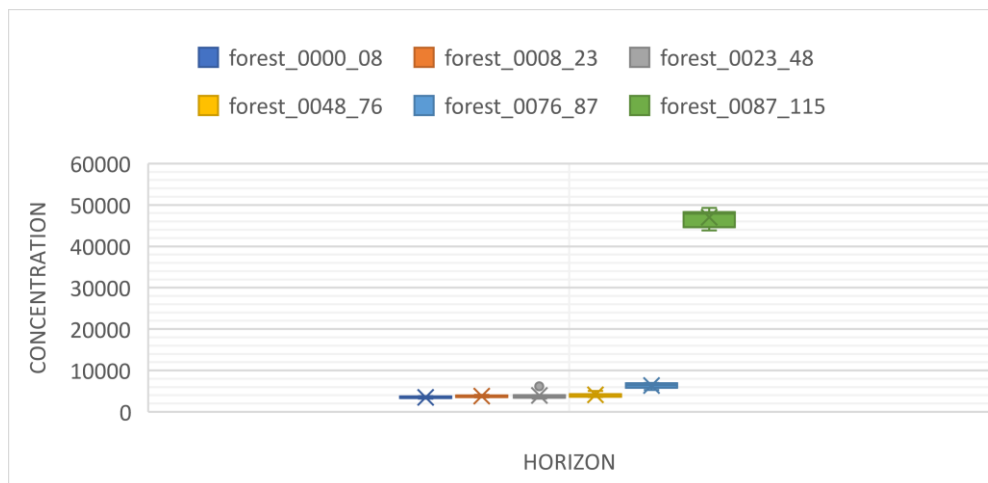
Calcium (ppm): treatment

info	Reading #	Units	Ca Concentration	Ca Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	3508	39	3503.714	206.1534	3508	3161	3777	616
forest_0000_08	2	PPM	3777	53	3503.714	206.1534	3508	3161	3777	616
forest_0000_08	3	PPM	3563	41	3503.714	206.1534	3508	3161	3777	616
forest_0000_08	4	PPM	3700	42	3503.714	206.1534	3508	3161	3777	616
forest_0000_08	5	PPM	3445	39	3503.714	206.1534	3508	3161	3777	616
forest_0000_08	6	PPM	3372	39	3503.714	206.1534	3508	3161	3777	616
forest_0000_08	7	PPM	3161	39	3503.714	206.1534	3508	3161	3777	616
forest_0008_23	8	PPM	4085	44	3800.857	224.7476	3908	3500	4085	585
forest_0008_23	9	PPM	3948	41	3800.857	224.7476	3908	3500	4085	585
forest_0008_23	10	PPM	3500	40	3800.857	224.7476	3908	3500	4085	585
forest_0008_23	11	PPM	3908	41	3800.857	224.7476	3908	3500	4085	585
forest_0008_23	12	PPM	3557	39	3800.857	224.7476	3908	3500	4085	585
forest_0008_23	13	PPM	3944	41	3800.857	224.7476	3908	3500	4085	585
forest_0008_23	14	PPM	3664	40	3800.857	224.7476	3908	3500	4085	585
forest_0023_48	15	PPM	3406	40	3969.571	1022.342	3575	3199	6174	2975
forest_0023_48	16	PPM	3199	38	3969.571	1022.342	3575	3199	6174	2975
forest_0023_48	17	PPM	6174	52	3969.571	1022.342	3575	3199	6174	2975
forest_0023_48	18	PPM	3575	41	3969.571	1022.342	3575	3199	6174	2975
forest_0023_48	19	PPM	3388	40	3969.571	1022.342	3575	3199	6174	2975
forest_0023_48	20	PPM	4004	42	3969.571	1022.342	3575	3199	6174	2975
forest_0023_48	21	PPM	4041	46	3969.571	1022.342	3575	3199	6174	2975
forest_0048_78	22	PPM	3672	41	4137.286	485.8126	4195	3551	5026	1475
forest_0048_78	23	PPM	4300	42	4137.286	485.8126	4195	3551	5026	1475
forest_0048_78	24	PPM	4240	42	4137.286	485.8126	4195	3551	5026	1475
forest_0048_78	25	PPM	5026	44	4137.286	485.8126	4195	3551	5026	1475
forest_0048_78	26	PPM	4195	44	4137.286	485.8126	4195	3551	5026	1475
forest_0048_78	27	PPM	3551	43	4137.286	485.8126	4195	3551	5026	1475
forest_0048_78	28	PPM	3977	41	4137.286	485.8126	4195	3551	5026	1475
forest_0078_87	29	PPM	5267	45	12330.43	15842.9	6805	5267	48232	42965
forest_0078_87	30	PPM	6882	51	12330.43	15842.9	6805	5267	48232	42965
forest_0078_87	31	PPM	6805	61	12330.43	15842.9	6805	5267	48232	42965
forest_0078_87	32	PPM	6045	49	12330.43	15842.9	6805	5267	48232	42965
forest_0078_87	33	PPM	6995	55	12330.43	15842.9	6805	5267	48232	42965
forest_0078_87	34	PPM	6087	49	12330.43	15842.9	6805	5267	48232	42965
forest_0087_115	35	PPM	48232	372	46778.17	2119.121	47364	43864	49287	5423
forest_0087_115	36	PPM	48141	347	46778.17	2119.121	47364	43864	49287	5423
forest_0087_115	37	PPM	43864	265	46778.17	2119.121	47364	43864	49287	5423
forest_0087_115	38	PPM	44649	190	46778.17	2119.121	47364	43864	49287	5423
forest_0087_115	39	PPM	47907	228	46778.17	2119.121	47364	43864	49287	5423
forest_0087_115	40	PPM	46821	184	46778.17	2119.121	47364	43864	49287	5423
forest_0087_115	41	PPM	49287	221	46778.17	2119.121	47364	43864	49287	5423

### Calcium (ppm): Calculations

Ca						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	3503.714286	206.1534334	3508	3161	3777	616
forest_0008_23	3800.857143	224.7475833	3908	3500	4085	585
forest_0023_48	3969.571429	1022.341896	3575	3199	6174	2975
forest_0048_76	4137.285714	485.8126231	4195	3551	5026	1475
forest_0076_87	6346.833333	669.491872	6446	5267	6995	1728
forest_0087_115	46985.85714	2011.013876	47907	43864	49287	5423

Ca ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
3508	4085	3406	3672	5267	48232
3777	3948	3199	4300	6882	48141
3563	3500	6174	4240	6805	43864
3700	3908	3575	5026	6045	44649
3445	3557	3388	4195	6995	47907
3372	3944	4004	3551	6087	46821
3161	3664	4041	3977		49287



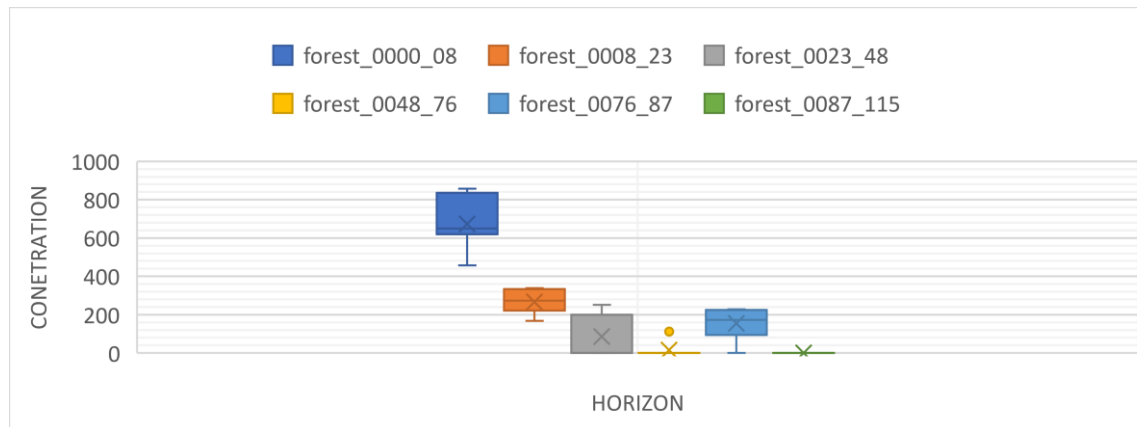
**Sulphur (ppm): treatment**

info	Reading #	Units	S Concentration	S Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	835	42	672.8571	136.5033	649	457	857	400
forest_0000_08	2	PPM	457	70	672.8571	136.5033	649	457	857	400
forest_0000_08	3	PPM	636	44	672.8571	136.5033	649	457	857	400
forest_0000_08	4	PPM	649	50	672.8571	136.5033	649	457	857	400
forest_0000_08	5	PPM	620	40	672.8571	136.5033	649	457	857	400
forest_0000_08	6	PPM	857	40	672.8571	136.5033	649	457	857	400
forest_0000_08	7	PPM	656	43	672.8571	136.5033	649	457	857	400
forest_0008_23	8	PPM	168	41	266.2857	60.47235	274	168	339	171
forest_0008_23	9	PPM	274	39	266.2857	60.47235	274	168	339	171
forest_0008_23	10	PPM	252	37	266.2857	60.47235	274	168	339	171
forest_0008_23	11	PPM	339	37	266.2857	60.47235	274	168	339	171
forest_0008_23	12	PPM	276	37	266.2857	60.47235	274	168	339	171
forest_0008_23	13	PPM	334	36	266.2857	60.47235	274	168	339	171
forest_0008_23	14	PPM	221	36	266.2857	60.47235	274	168	339	171
forest_0023_48	15	PPM	0	83	85	110.5034	0	0	252	252
forest_0023_48	16	PPM	0	102	85	110.5034	0	0	252	252
forest_0023_48	17	PPM	252	42	85	110.5034	0	0	252	252
forest_0023_48	18	PPM	144	38	85	110.5034	0	0	252	252
forest_0023_48	19	PPM	199	36	85	110.5034	0	0	252	252
forest_0023_48	20	PPM	0	109	85	110.5034	0	0	252	252
forest_0023_48	21	PPM	0	143	85	110.5034	0	0	252	252
forest_0048_78	22	PPM	0	109	15.85714	41.95406	0	0	111	111
forest_0048_78	23	PPM	0	92	15.85714	41.95406	0	0	111	111
forest_0048_78	24	PPM	111	36	15.85714	41.95406	0	0	111	111
forest_0048_78	25	PPM	0	100	15.85714	41.95406	0	0	111	111
forest_0048_78	26	PPM	0	89	15.85714	41.95406	0	0	111	111
forest_0048_78	27	PPM	0	131	15.85714	41.95406	0	0	111	111
forest_0048_78	28	PPM	0	91	15.85714	41.95406	0	0	111	111
forest_0078_87	29	PPM	125	35	131.7143	97.28089	151	0	228	228
forest_0078_87	30	PPM	228	37	131.7143	97.28089	151	0	228	228
forest_0078_87	31	PPM	0	147	131.7143	97.28089	151	0	228	228
forest_0078_87	32	PPM	194	37	131.7143	97.28089	151	0	228	228
forest_0078_87	33	PPM	151	40	131.7143	97.28089	151	0	228	228
forest_0078_87	34	PPM	224	37	131.7143	97.28089	151	0	228	228
forest_0087_115	35	PPM	0	330	0	0	0	0	0	0
forest_0087_115	36	PPM	0	285	0	0	0	0	0	0
forest_0087_115	37	PPM	0	210	0	0	0	0	0	0
forest_0087_115	38	PPM	0	114	0	0	0	0	0	0
forest_0087_115	39	PPM	0	89	0	0	0	0	0	0
forest_0087_115	40	PPM	0	95	0	0	0	0	0	0
forest_0087_115	41	PPM	0	123	0	0	0	0	0	0

Sulphur (ppm): Calculations

S						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	672.8571429	136.5032705	649	457	857	400
forest_0008_23	266.2857143	60.47234708	274	168	339	171
forest_0023_48	85	110.5033936	0	0	252	252
forest_0048_76	15.85714286	41.9540565	0	0	111	111
forest_0076_87	153.6666667	85.48840077	172.5	0	228	228
forest_0087_115	0	0	0	0	0	0

S ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
835	168	0	0	125	0
457	274	0	0	228	0
636	252	252	111	0	0
649	339	144	0	194	0
620	276	199	0	151	0
857	334	0	0	224	0
656	221	0	0	0	0



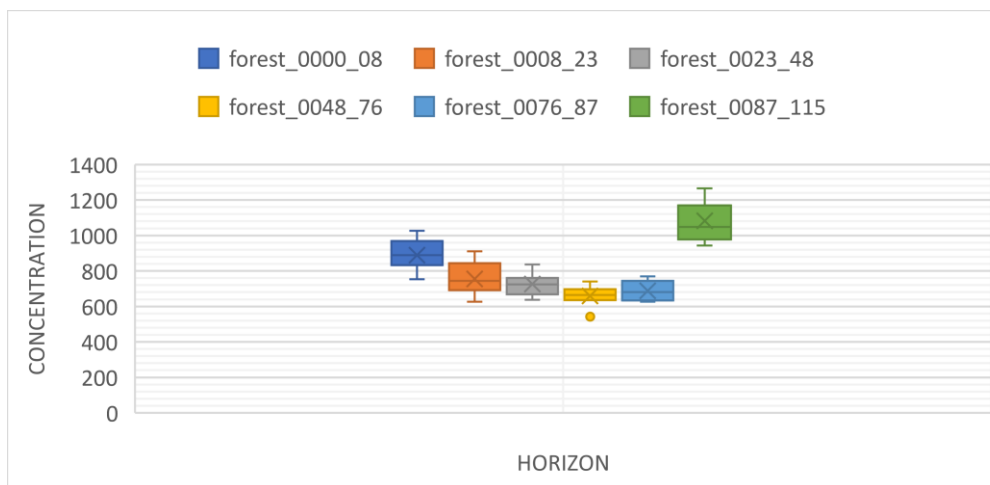
**Manganese (ppm): treatment**

info	Reading #	Units	Mn Concentration	Mn Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	891	25	889.4286	89.01846	889	754	1027	273
forest_0000_08	2	PPM	1027	36	889.4286	89.01846	889	754	1027	273
forest_0000_08	3	PPM	832	26	889.4286	89.01846	889	754	1027	273
forest_0000_08	4	PPM	889	28	889.4286	89.01846	889	754	1027	273
forest_0000_08	5	PPM	754	23	889.4286	89.01846	889	754	1027	273
forest_0000_08	6	PPM	969	25	889.4286	89.01846	889	754	1027	273
forest_0000_08	7	PPM	864	25	889.4286	89.01846	889	754	1027	273
forest_0008_23	8	PPM	911	27	755.2857	94.91349	744	626	911	285
forest_0008_23	9	PPM	720	23	755.2857	94.91349	744	626	911	285
forest_0008_23	10	PPM	692	22	755.2857	94.91349	744	626	911	285
forest_0008_23	11	PPM	744	23	755.2857	94.91349	744	626	911	285
forest_0008_23	12	PPM	626	21	755.2857	94.91349	744	626	911	285
forest_0008_23	13	PPM	751	23	755.2857	94.91349	744	626	911	285
forest_0008_23	14	PPM	843	24	755.2857	94.91349	744	626	911	285
forest_0023_48	15	PPM	638	22	726.4286	66.58042	724	638	837	199
forest_0023_48	16	PPM	724	23	726.4286	66.58042	724	638	837	199
forest_0023_48	17	PPM	696	24	726.4286	66.58042	724	638	837	199
forest_0023_48	18	PPM	760	24	726.4286	66.58042	724	638	837	199
forest_0023_48	19	PPM	669	22	726.4286	66.58042	724	638	837	199
forest_0023_48	20	PPM	761	24	726.4286	66.58042	724	638	837	199
forest_0023_48	21	PPM	837	27	726.4286	66.58042	724	638	837	199
forest_0048_78	22	PPM	636	23	658.7143	62.20588	664	543	741	198
forest_0048_78	23	PPM	664	22	658.7143	62.20588	664	543	741	198
forest_0048_78	24	PPM	741	23	658.7143	62.20588	664	543	741	198
forest_0048_78	25	PPM	687	23	658.7143	62.20588	664	543	741	198
forest_0048_78	26	PPM	543	21	658.7143	62.20588	664	543	741	198
forest_0048_78	27	PPM	643	24	658.7143	62.20588	664	543	741	198
forest_0048_78	28	PPM	697	23	658.7143	62.20588	664	543	741	198
forest_0078_87	29	PPM	710	22	729.5714	121.5879	710	627	977	350
forest_0078_87	30	PPM	650	22	729.5714	121.5879	710	627	977	350
forest_0078_87	31	PPM	736	27	729.5714	121.5879	710	627	977	350
forest_0078_87	32	PPM	627	22	729.5714	121.5879	710	627	977	350
forest_0078_87	33	PPM	770	25	729.5714	121.5879	710	627	977	350
forest_0078_87	34	PPM	637	22	729.5714	121.5879	710	627	977	350
forest_0087_115	35	PPM	977	48	1100.833	118.2919	1105.5	943	1265	322
forest_0087_115	36	PPM	1049	47	1100.833	118.2919	1105.5	943	1265	322
forest_0087_115	37	PPM	1169	41	1100.833	118.2919	1105.5	943	1265	322
forest_0087_115	38	PPM	1265	32	1100.833	118.2919	1105.5	943	1265	322
forest_0087_115	39	PPM	943	29	1100.833	118.2919	1105.5	943	1265	322
forest_0087_115	40	PPM	1017	29	1100.833	118.2919	1105.5	943	1265	322
forest_0087_115	41	PPM	1162	33	1100.833	118.2919	1105.5	943	1265	322

### Manganese (ppm): Calculations

Mn						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	889.4285714	89.01845716	889	754	1027	273
forest_0008_23	755.2857143	94.91349445	744	626	911	285
forest_0023_48	726.4285714	66.5804204	724	638	837	199
forest_0048_76	658.7142857	62.20587937	664	543	741	198
forest_0076_87	688.3333333	58.78321756	680	627	770	143
forest_0087_115	1083.142857	117.6922945	1049	943	1265	322

Mn ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
891	911	638	636	710	977
1027	720	724	664	650	1049
832	692	696	741	736	1169
889	744	760	687	627	1265
754	626	669	543	770	943
969	751	761	643	637	1017
864	843	837	697		1162



**Iron (ppm): treatment**

info	Reading #	Units	Fe Concentration	Fe Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	26145	150	28195.86	1456.222	28625	26145	30346	4201
forest_0000_08	2	PPM	28625	211	28195.86	1456.222	28625	26145	30346	4201
forest_0000_08	3	PPM	29248	179	28195.86	1456.222	28625	26145	30346	4201
forest_0000_08	4	PPM	30346	177	28195.86	1456.222	28625	26145	30346	4201
forest_0000_08	5	PPM	27261	150	28195.86	1456.222	28625	26145	30346	4201
forest_0000_08	6	PPM	27001	142	28195.86	1456.222	28625	26145	30346	4201
forest_0000_08	7	PPM	28745	171	28195.86	1456.222	28625	26145	30346	4201
forest_0008_23	8	PPM	32013	186	28667.57	1571.156	28130	27402	32013	4611
forest_0008_23	9	PPM	28632	162	28667.57	1571.156	28130	27402	32013	4611
forest_0008_23	10	PPM	28130	152	28667.57	1571.156	28130	27402	32013	4611
forest_0008_23	11	PPM	27604	144	28667.57	1571.156	28130	27402	32013	4611
forest_0008_23	12	PPM	28945	154	28667.57	1571.156	28130	27402	32013	4611
forest_0008_23	13	PPM	27402	138	28667.57	1571.156	28130	27402	32013	4611
forest_0008_23	14	PPM	27947	145	28667.57	1571.156	28130	27402	32013	4611
forest_0023_48	15	PPM	29011	155	31069	1787.245	30977	28813	33647	4834
forest_0023_48	16	PPM	30977	173	31069	1787.245	30977	28813	33647	4834
forest_0023_48	17	PPM	30616	174	31069	1787.245	30977	28813	33647	4834
forest_0023_48	18	PPM	31774	175	31069	1787.245	30977	28813	33647	4834
forest_0023_48	19	PPM	28813	147	31069	1787.245	30977	28813	33647	4834
forest_0023_48	20	PPM	32645	185	31069	1787.245	30977	28813	33647	4834
forest_0023_48	21	PPM	33647	223	31069	1787.245	30977	28813	33647	4834
forest_0048_78	22	PPM	32529	186	32800.14	714.3775	32729	31726	33754	2028
forest_0048_78	23	PPM	33168	178	32800.14	714.3775	32729	31726	33754	2028
forest_0048_78	24	PPM	32729	169	32800.14	714.3775	32729	31726	33754	2028
forest_0048_78	25	PPM	33754	184	32800.14	714.3775	32729	31726	33754	2028
forest_0048_78	26	PPM	32223	174	32800.14	714.3775	32729	31726	33754	2028
forest_0048_78	27	PPM	31726	196	32800.14	714.3775	32729	31726	33754	2028
forest_0048_78	28	PPM	33472	178	32800.14	714.3775	32729	31726	33754	2028
forest_0078_87	29	PPM	31472	160	32117.57	3369.098	31472	26976	36950	9974
forest_0078_87	30	PPM	31421	158	32117.57	3369.098	31472	26976	36950	9974
forest_0078_87	31	PPM	35938	243	32117.57	3369.098	31472	26976	36950	9974
forest_0078_87	32	PPM	30550	154	32117.57	3369.098	31472	26976	36950	9974
forest_0078_87	33	PPM	36950	199	32117.57	3369.098	31472	26976	36950	9974
forest_0078_87	34	PPM	31516	159	32117.57	3369.098	31472	26976	36950	9974
forest_0087_115	35	PPM	26976	271	29140.67	1162.096	28942.5	27556	30528	2972
forest_0087_115	36	PPM	28525	265	29140.67	1162.096	28942.5	27556	30528	2972
forest_0087_115	37	PPM	28512	221	29140.67	1162.096	28942.5	27556	30528	2972
forest_0087_115	38	PPM	30363	167	29140.67	1162.096	28942.5	27556	30528	2972
forest_0087_115	39	PPM	29360	177	29140.67	1162.096	28942.5	27556	30528	2972
forest_0087_115	40	PPM	27556	149	29140.67	1162.096	28942.5	27556	30528	2972
forest_0087_115	41	PPM	30528	180	29140.67	1162.096	28942.5	27556	30528	2972

### Iron (ppm): Calculations

Fe						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	28195.85714	1456.222102	28625	26145	30346	4201
forest_0008_23	28667.57143	1571.155929	28130	27402	32013	4611
forest_0023_48	31069	1787.244527	30977	28813	33647	4834
forest_0048_76	32800.14286	714.3774513	32729	31726	33754	2028
forest_0076_87	32974.5	2729.953241	31494	30550	36950	6400
forest_0087_115	28831.42857	1339.696465	28525	26976	30528	3552

Fe ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
26145	32013	29011	32529	31472	26976
28625	28632	30977	33168	31421	28525
29248	28130	30616	32729	35938	28512
30346	27604	31774	33754	30550	30363
27261	28945	28813	32223	36950	29360
27001	27402	32645	31726	31516	27556
28745	27947	33647	33472		30528





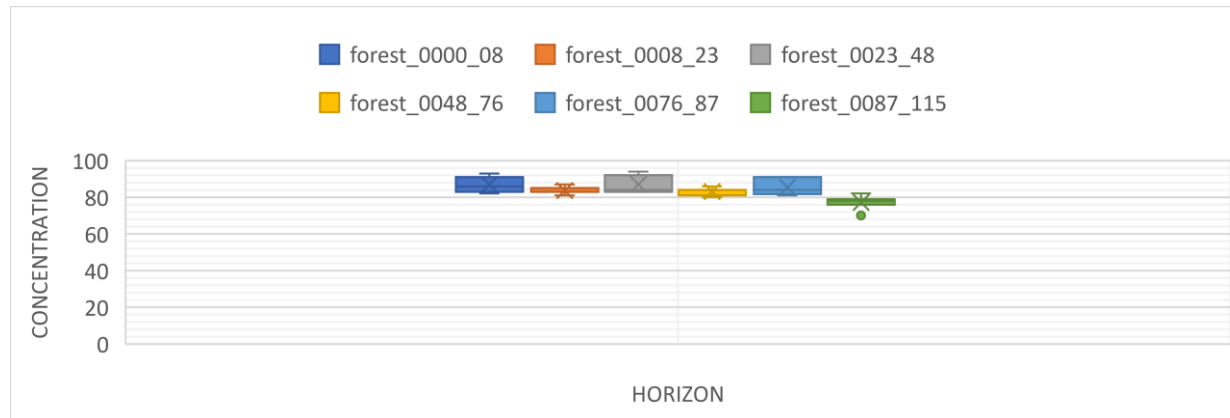
**Rubidium (ppm): treatment**

info	Reading #	Units	Rb Concentration	Rb Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	83	1	87	4	86	82	93	11
forest_0000_08	2	PPM	91	2	87	4	86	82	93	11
forest_0000_08	3	PPM	82	2	87	4	86	82	93	11
forest_0000_08	4	PPM	93	2	87	4	86	82	93	11
forest_0000_08	5	PPM	88	1	87	4	86	82	93	11
forest_0000_08	6	PPM	86	1	87	4	86	82	93	11
forest_0000_08	7	PPM	86	2	87	4	86	82	93	11
forest_0008_23	8	PPM	87	2	83.71429	1.889822	83	81	87	6
forest_0008_23	9	PPM	83	1	83.71429	1.889822	83	81	87	6
forest_0008_23	10	PPM	83	1	83.71429	1.889822	83	81	87	6
forest_0008_23	11	PPM	84	1	83.71429	1.889822	83	81	87	6
forest_0008_23	12	PPM	85	1	83.71429	1.889822	83	81	87	6
forest_0008_23	13	PPM	81	1	83.71429	1.889822	83	81	87	6
forest_0008_23	14	PPM	83	1	83.71429	1.889822	83	81	87	6
forest_0023_48	15	PPM	83	1	87	4.618802	84	83	94	11
forest_0023_48	16	PPM	83	1	87	4.618802	84	83	94	11
forest_0023_48	17	PPM	84	2	87	4.618802	84	83	94	11
forest_0023_48	18	PPM	89	2	87	4.618802	84	83	94	11
forest_0023_48	19	PPM	84	1	87	4.618802	84	83	94	11
forest_0023_48	20	PPM	92	2	87	4.618802	84	83	94	11
forest_0023_48	21	PPM	94	2	87	4.618802	84	83	94	11
forest_0048_78	22	PPM	86	2	83.14286	2.035401	84	80	86	6
forest_0048_78	23	PPM	83	1	83.14286	2.035401	84	80	86	6
forest_0048_78	24	PPM	81	1	83.14286	2.035401	84	80	86	6
forest_0048_78	25	PPM	84	1	83.14286	2.035401	84	80	86	6
forest_0048_78	26	PPM	80	1	83.14286	2.035401	84	80	86	6
forest_0048_78	27	PPM	84	2	83.14286	2.035401	84	80	86	6
forest_0048_78	28	PPM	84	1	83.14286	2.035401	84	80	86	6
forest_0078_87	29	PPM	83	1	83.28571	7.134757	83	70	91	21
forest_0078_87	30	PPM	81	1	83.28571	7.134757	83	70	91	21
forest_0078_87	31	PPM	91	2	83.28571	7.134757	83	70	91	21
forest_0078_87	32	PPM	85	1	83.28571	7.134757	83	70	91	21
forest_0078_87	33	PPM	91	2	83.28571	7.134757	83	70	91	21
forest_0078_87	34	PPM	82	1	83.28571	7.134757	83	70	91	21
forest_0087_115	35	PPM	70	3	78.33333	2.250926	78.5	76	82	6
forest_0087_115	36	PPM	76	2	78.33333	2.250926	78.5	76	82	6
forest_0087_115	37	PPM	79	2	78.33333	2.250926	78.5	76	82	6
forest_0087_115	38	PPM	82	2	78.33333	2.250926	78.5	76	82	6
forest_0087_115	39	PPM	76	2	78.33333	2.250926	78.5	76	82	6
forest_0087_115	40	PPM	78	2	78.33333	2.250926	78.5	76	82	6
forest_0087_115	41	PPM	79	2	78.33333	2.250926	78.5	76	82	6

Rubidium (ppm): Calculations

Rb						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	87	4	86	82	93	11
forest_0008_23	83.71428571	1.889822365	83	81	87	6
forest_0023_48	87	4.618802154	84	83	94	11
forest_0048_76	83.14285714	2.035400978	84	80	86	6
forest_0076_87	85.5	4.460941605	84	81	91	10
forest_0087_115	77.14285714	3.760699023	78	70	82	12

Rb ( data ground)						
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115	
83	87	83	86	83	70	
91	83	83	83	81	76	
82	83	84	81	91	79	
93	84	89	84	85	82	
88	85	84	80	91	76	
86	81	92	84	82	78	
86	83	94	84		79	



**Titanium (ppm): treatment**

info	Reading #	Units	Ti Concentration	Ti Error1s	Mean	SD	Median	Min	Max	Range
forest_0000_08	1	PPM	3559	120	4015	426.135	3801	3559	4691	1132
forest_0000_08	2	PPM	3801	164	4015	426.135	3801	3559	4691	1132
forest_0000_08	3	PPM	4484	135	4015	426.135	3801	3559	4691	1132
forest_0000_08	4	PPM	4691	145	4015	426.135	3801	3559	4691	1132
forest_0000_08	5	PPM	3765	121	4015	426.135	3801	3559	4691	1132
forest_0000_08	6	PPM	3714	119	4015	426.135	3801	3559	4691	1132
forest_0000_08	7	PPM	4091	128	4015	426.135	3801	3559	4691	1132
forest_0008_23	8	PPM	4638	137	4184.429	281.416	4126	3848	4638	790
forest_0008_23	9	PPM	4323	129	4184.429	281.416	4126	3848	4638	790
forest_0008_23	10	PPM	4126	125	4184.429	281.416	4126	3848	4638	790
forest_0008_23	11	PPM	3907	122	4184.429	281.416	4126	3848	4638	790
forest_0008_23	12	PPM	4061	122	4184.429	281.416	4126	3848	4638	790
forest_0008_23	13	PPM	3848	118	4184.429	281.416	4126	3848	4638	790
forest_0008_23	14	PPM	4388	125	4184.429	281.416	4126	3848	4638	790
forest_0023_48	15	PPM	4276	128	4315	355.154	4261	3923	4892	969
forest_0023_48	16	PPM	4071	124	4315	355.154	4261	3923	4892	969
forest_0023_48	17	PPM	4261	135	4315	355.154	4261	3923	4892	969
forest_0023_48	18	PPM	4079	126	4315	355.154	4261	3923	4892	969
forest_0023_48	19	PPM	3923	121	4315	355.154	4261	3923	4892	969
forest_0023_48	20	PPM	4703	133	4315	355.154	4261	3923	4892	969
forest_0023_48	21	PPM	4892	148	4315	355.154	4261	3923	4892	969
forest_0048_78	22	PPM	4317	130	4061.857	307.1446	4098	3508	4425	917
forest_0048_78	23	PPM	4425	127	4061.857	307.1446	4098	3508	4425	917
forest_0048_78	24	PPM	3508	116	4061.857	307.1446	4098	3508	4425	917
forest_0048_78	25	PPM	4164	125	4061.857	307.1446	4098	3508	4425	917
forest_0048_78	26	PPM	3838	124	4061.857	307.1446	4098	3508	4425	917
forest_0048_78	27	PPM	4083	134	4061.857	307.1446	4098	3508	4425	917
forest_0048_78	28	PPM	4098	124	4061.857	307.1446	4098	3508	4425	917
forest_0078_87	29	PPM	3923	120	4004.286	196.728	3944	3812	4345	533
forest_0078_87	30	PPM	3944	123	4004.286	196.728	3944	3812	4345	533
forest_0078_87	31	PPM	4184	143	4004.286	196.728	3944	3812	4345	533
forest_0078_87	32	PPM	3813	122	4004.286	196.728	3944	3812	4345	533
forest_0078_87	33	PPM	4345	134	4004.286	196.728	3944	3812	4345	533
forest_0078_87	34	PPM	4009	124	4004.286	196.728	3944	3812	4345	533
forest_0087_115	35	PPM	3812	225	3856.667	346.556	3972.5	3425	4237	812
forest_0087_115	36	PPM	3998	215	3856.667	346.556	3972.5	3425	4237	812
forest_0087_115	37	PPM	4102	181	3856.667	346.556	3972.5	3425	4237	812
forest_0087_115	38	PPM	3431	128	3856.667	346.556	3972.5	3425	4237	812
forest_0087_115	39	PPM	3947	138	3856.667	346.556	3972.5	3425	4237	812
forest_0087_115	40	PPM	3425	130	3856.667	346.556	3972.5	3425	4237	812
forest_0087_115	41	PPM	4237	148	3856.667	346.556	3972.5	3425	4237	812

### Titanium (ppm): Calculations

Ti						
	Mean	SD	Median	Min	Max	Range
forest_0000_08	4015	426.1349551	3801	3559	4691	1132
forest_0008_23	4184.428571	281.4159775	4126	3848	4638	790
forest_0023_48	4315	355.1539572	4261	3923	4892	969
forest_0048_76	4061.857143	307.1446069	4098	3508	4425	917
forest_0076_87	4036.333333	194.4609644	3976.5	3813	4345	532
forest_0087_115	3850.285714	316.8110448	3947	3425	4237	812

Ti ( data ground)					
forest_0000_08	forest_0008_23	forest_0023_48	forest_0048_76	forest_0076_87	forest_0087_115
3559	4638	4276	4317	3923	3812
3801	4323	4071	4425	3944	3998
4484	4126	4261	3508	4184	4102
4691	3907	4079	4164	3813	3431
3765	4061	3923	3838	4345	3947
3714	3848	4703	4083	4009	3425
4091	4388	4892	4098		4237

