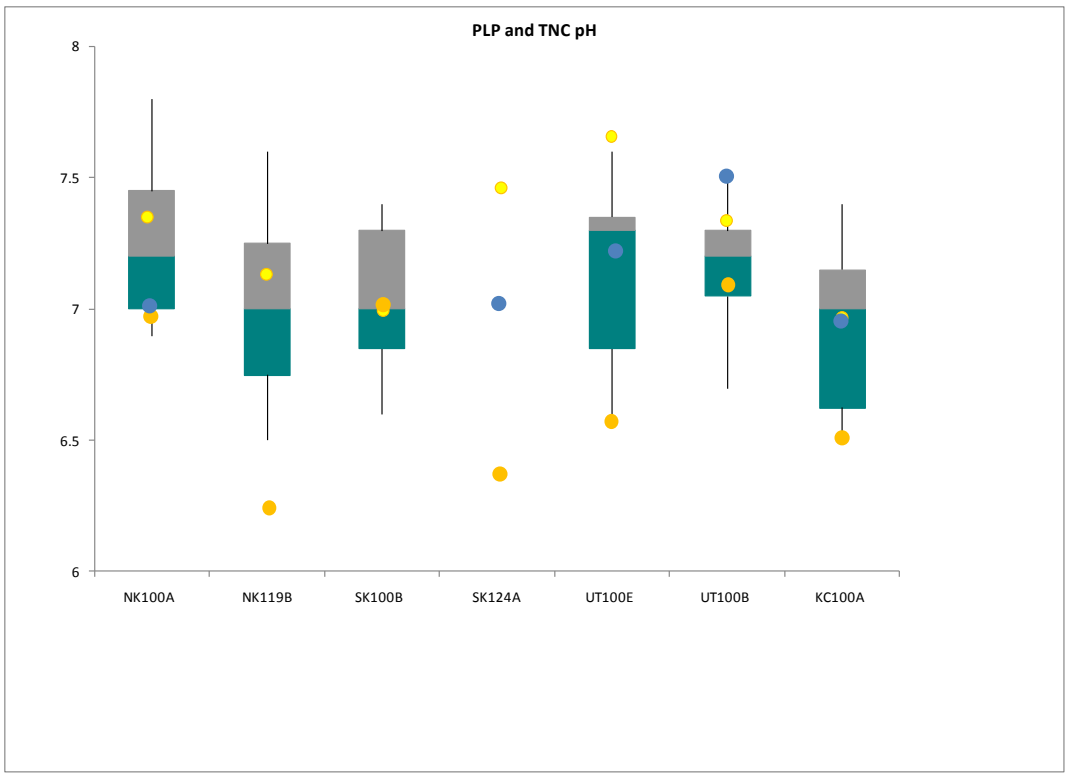
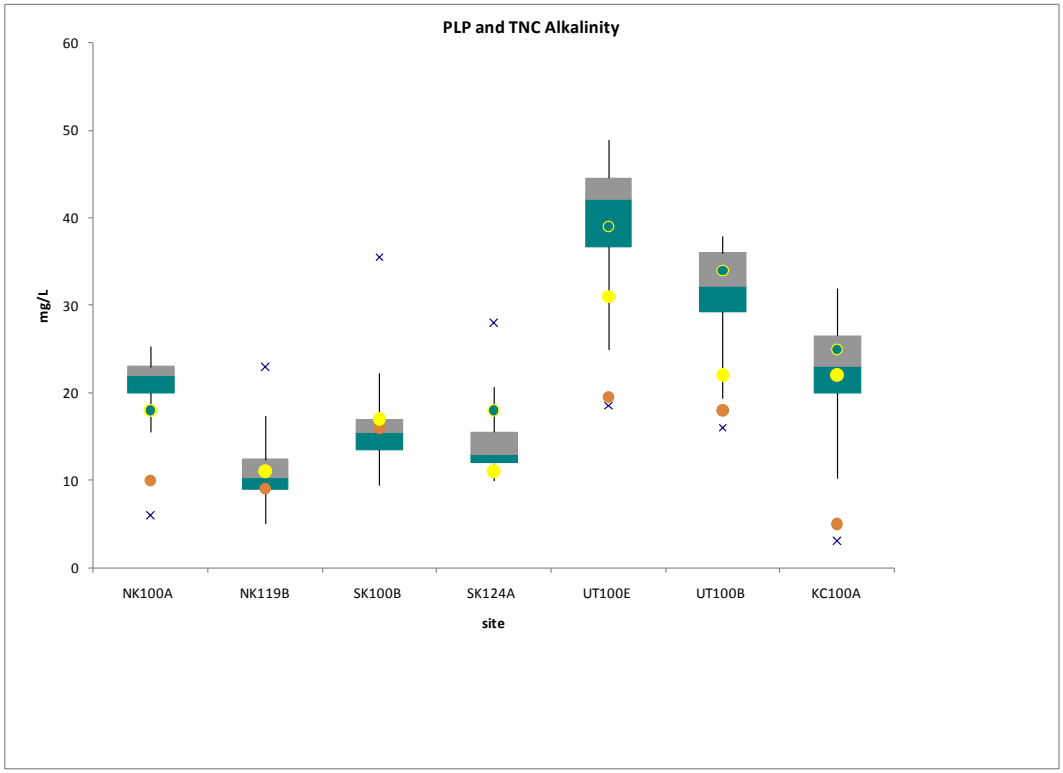
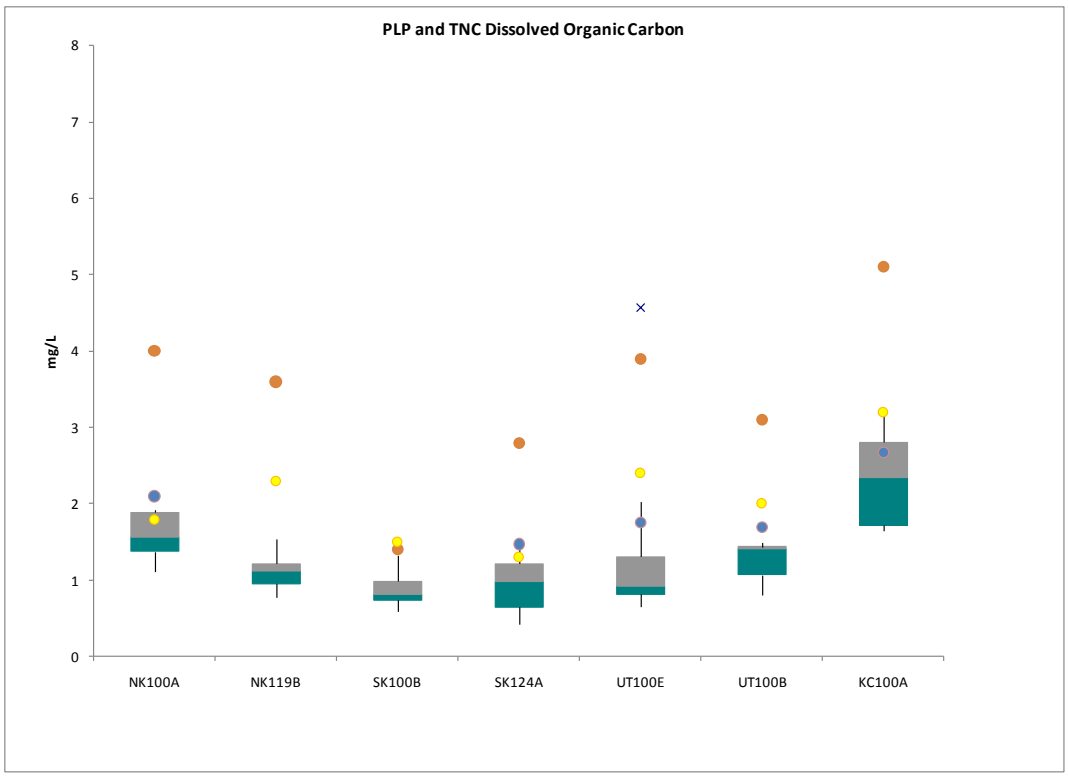
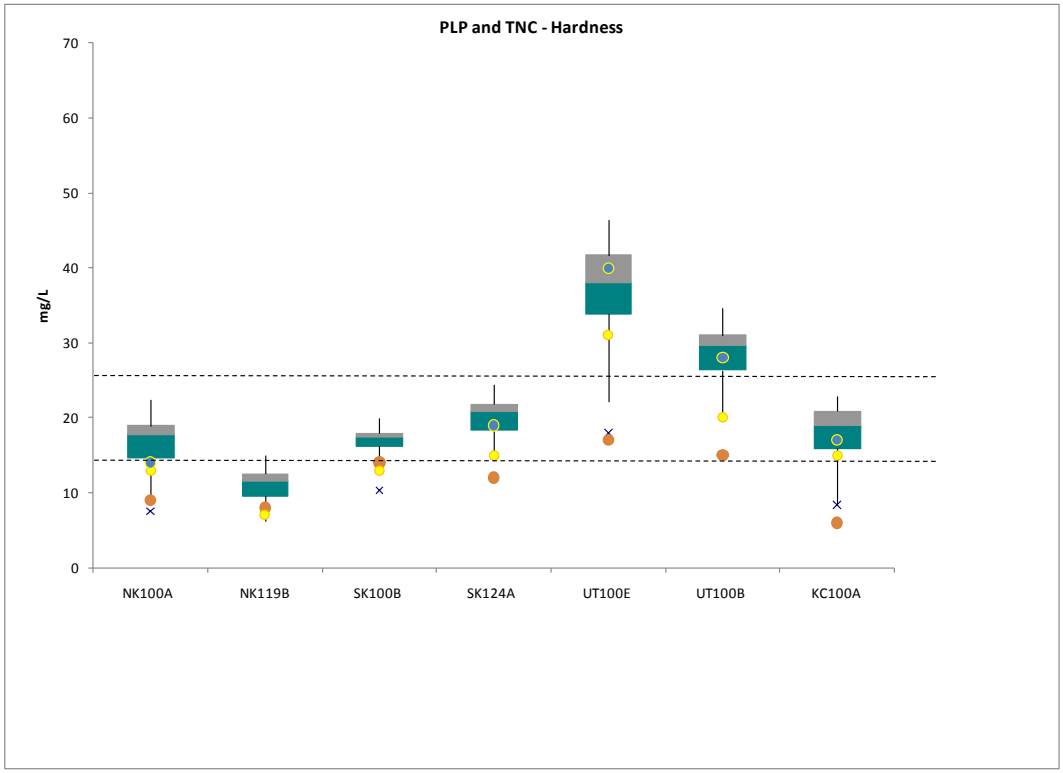
Appendix G

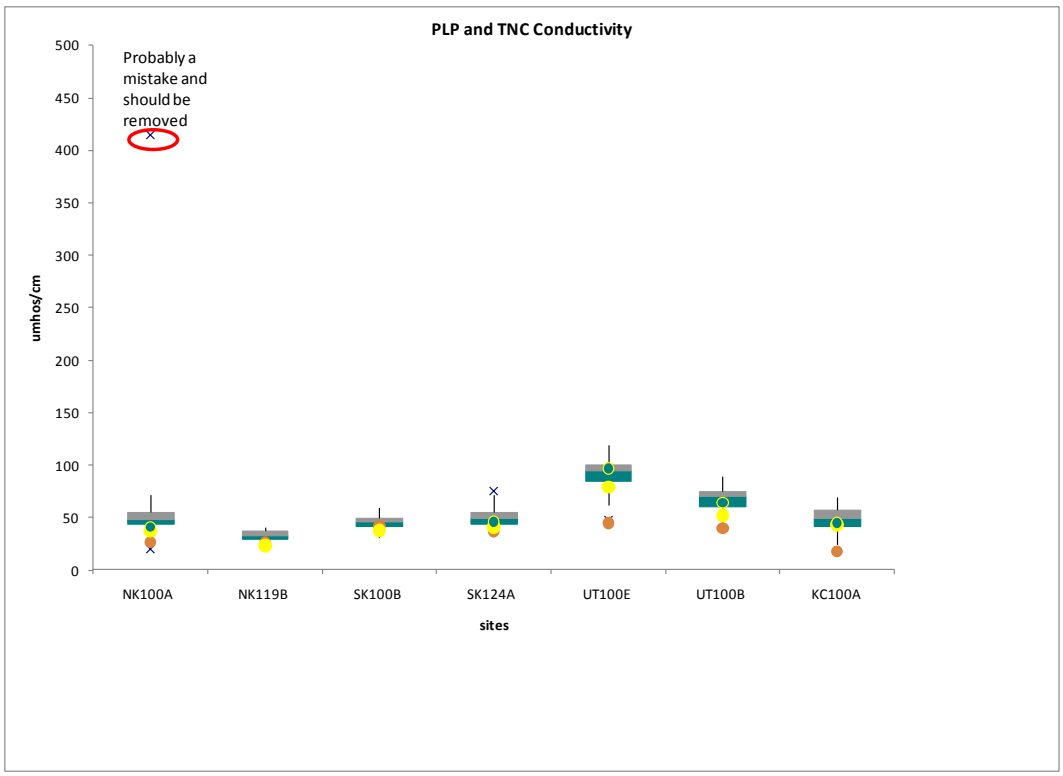
Box plots of analytical data, co-located Pebble Partnership and Nature Conservancy sites

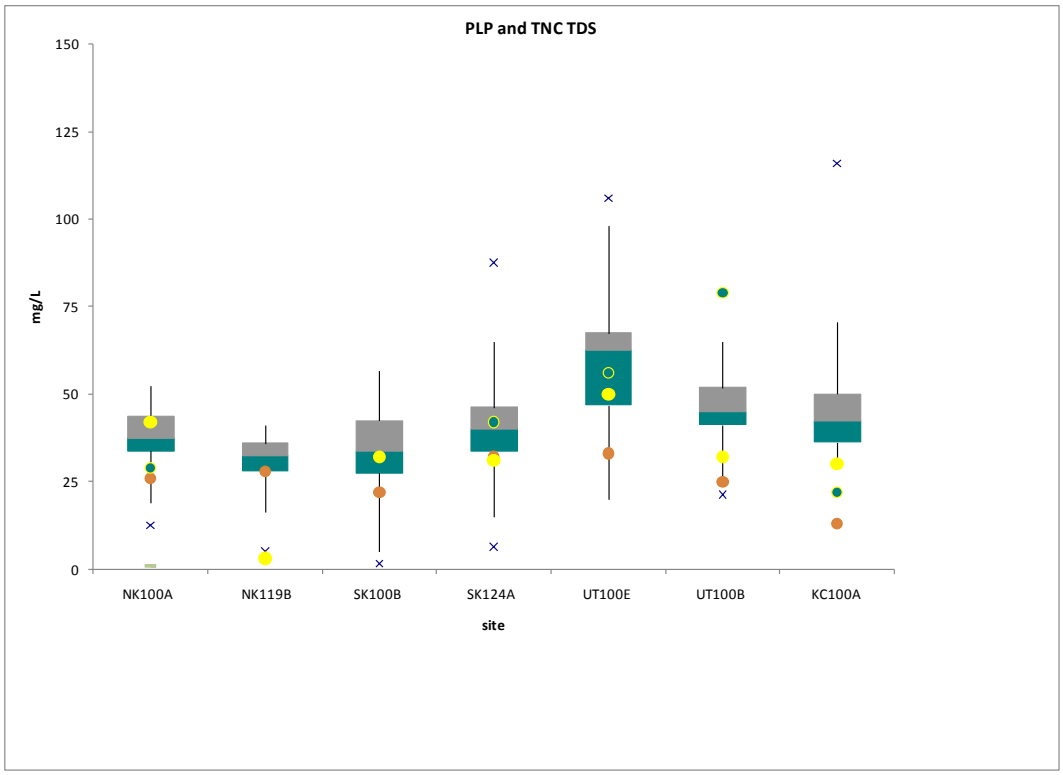

PLP and TNC pH
8
7.5
7
6.5
6
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A

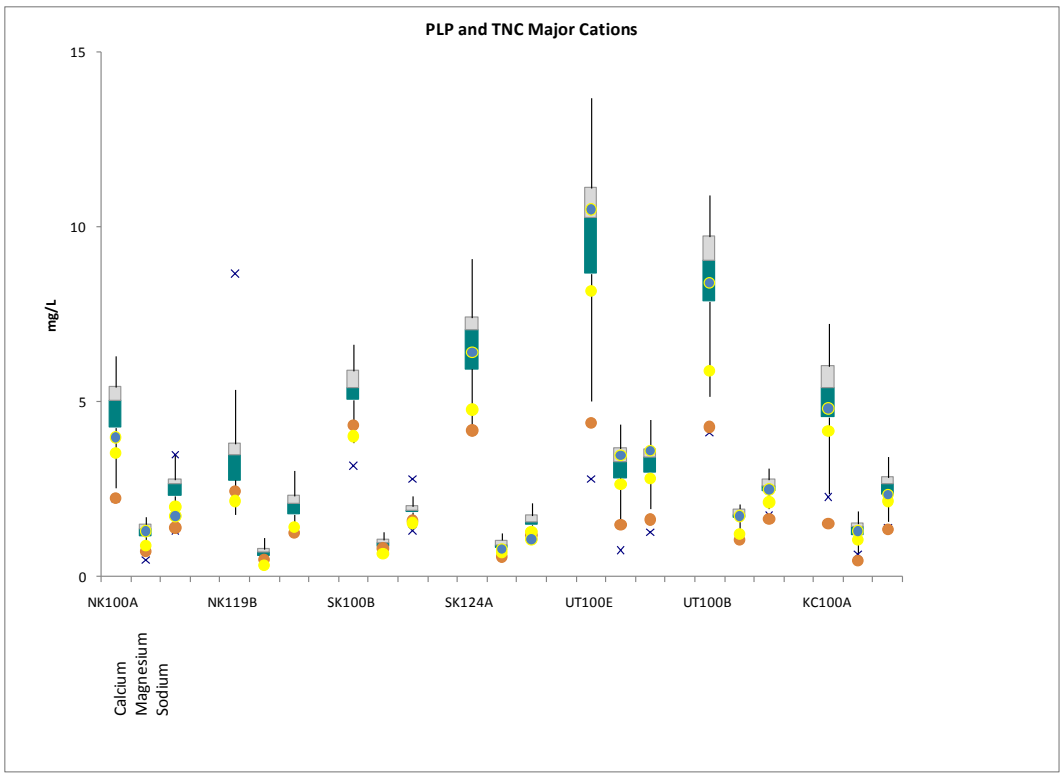

PLP and TNC Alkalinity
60
50
40
30
20
10
0
mg/L
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
site

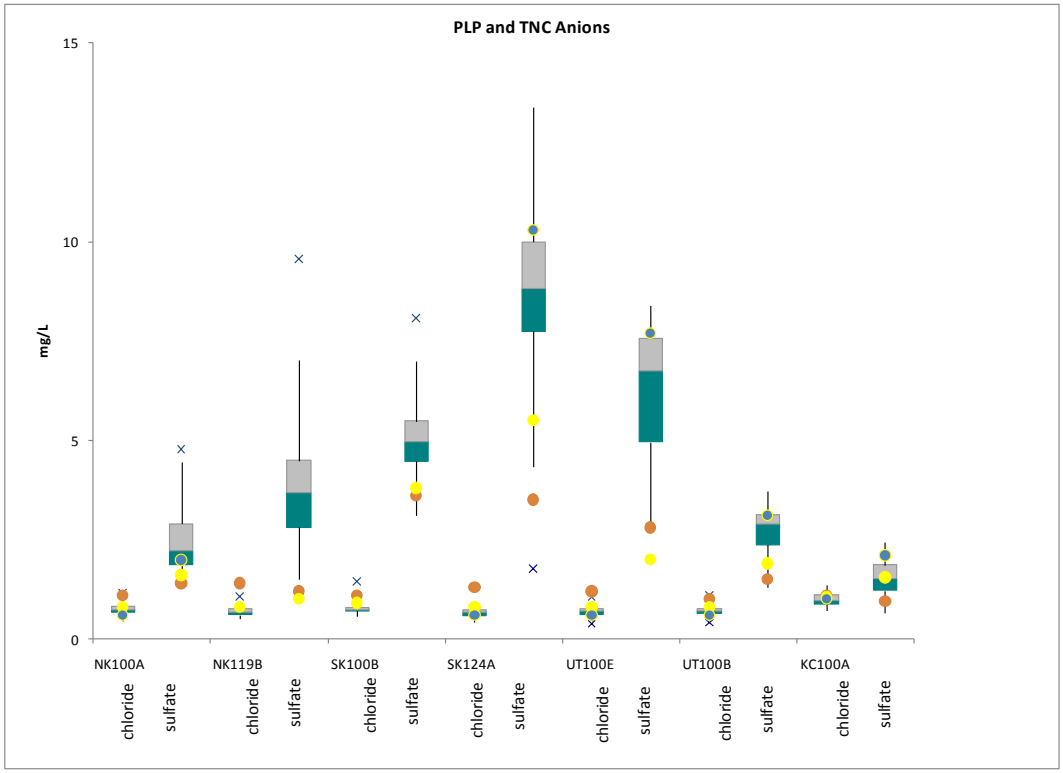

PLP and TNC Dissolved Organic Carbon
mg/L
0
1
2
3
4
5
6
7
8
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A

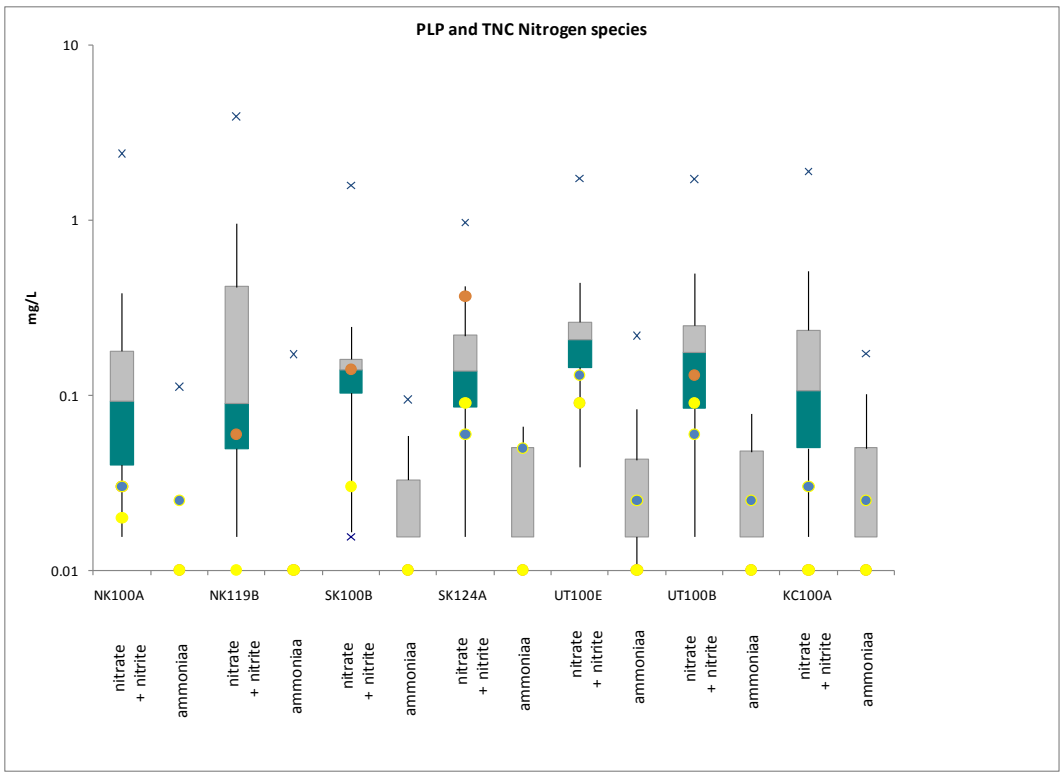

PLP and TNC - Hardness
mg/L
0
10
20
30
40
50
60
70
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A

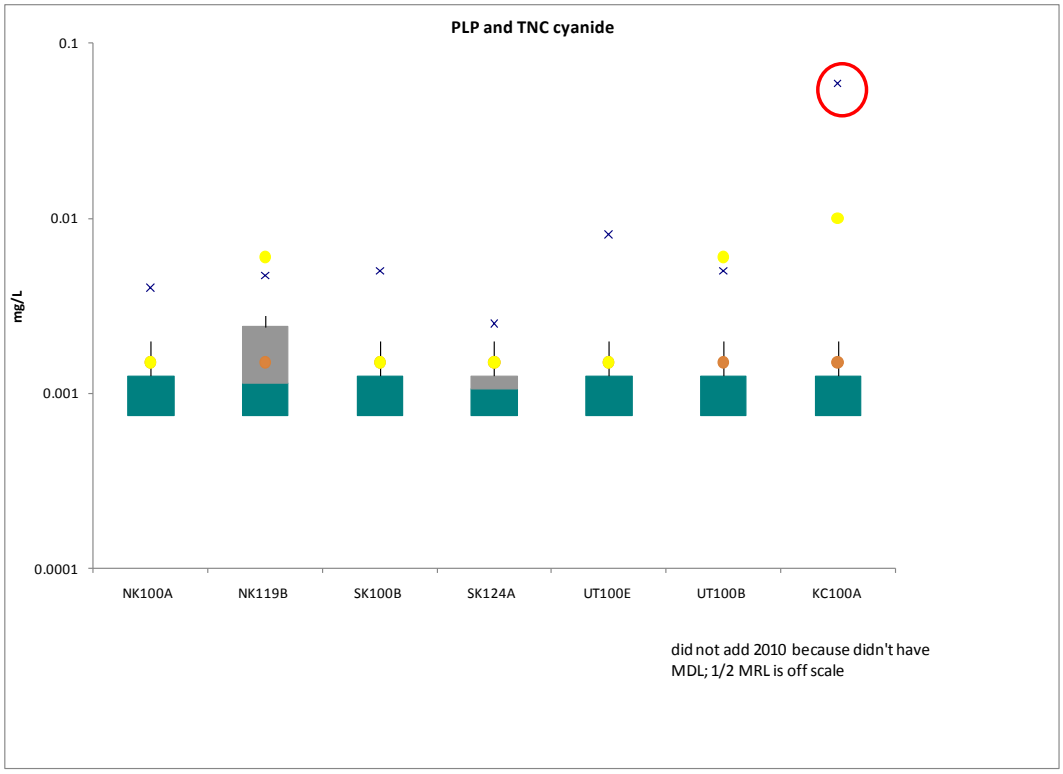

PLP and TNC Conductivity
Probably a mistake and should be removed
umhos/cm
500
450
400
350
300
250
200
150
100
50
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
sites

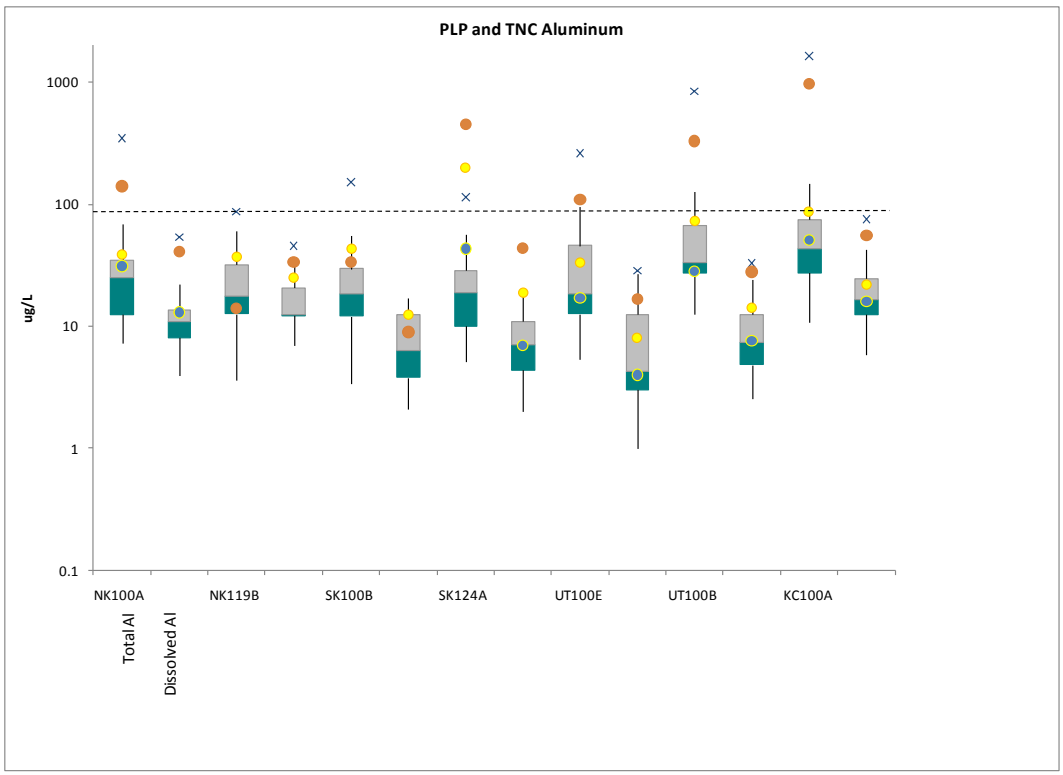

PLP and TNC TDS
mg/L
150
125
100
75
50
25
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
site

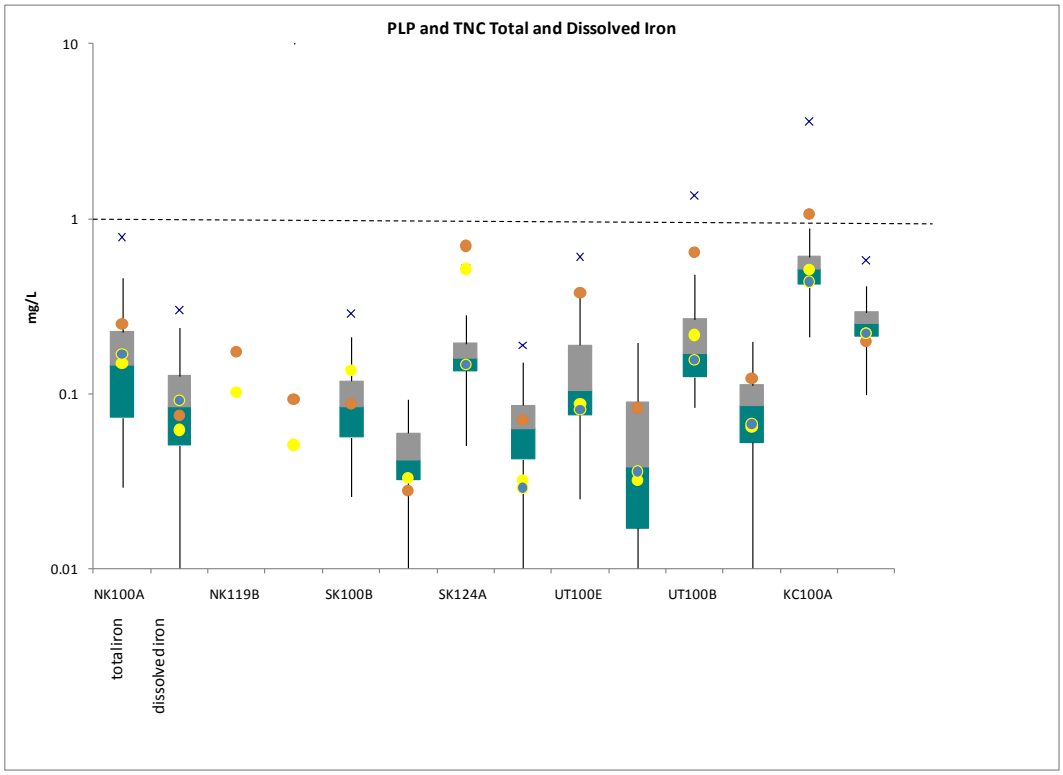

PLP and TNC Major Cations
mg/L
15
10
5
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
Calcium
Magnesium
Sodium

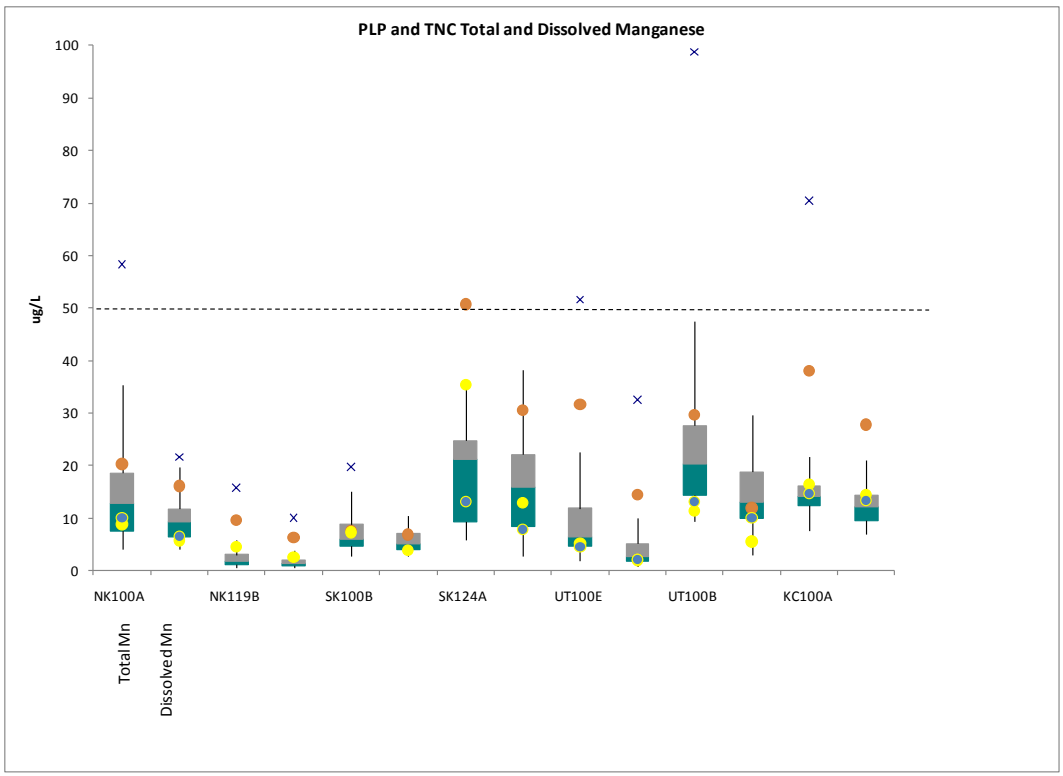

PLP and TNC Anions
mg/L
15
10
5
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
chloride
sulfate
chloride
sulfate
chloride
sulfate
chloride
sulfate
chloride
sulfate
chloride
sulfate
chloride
sulfate

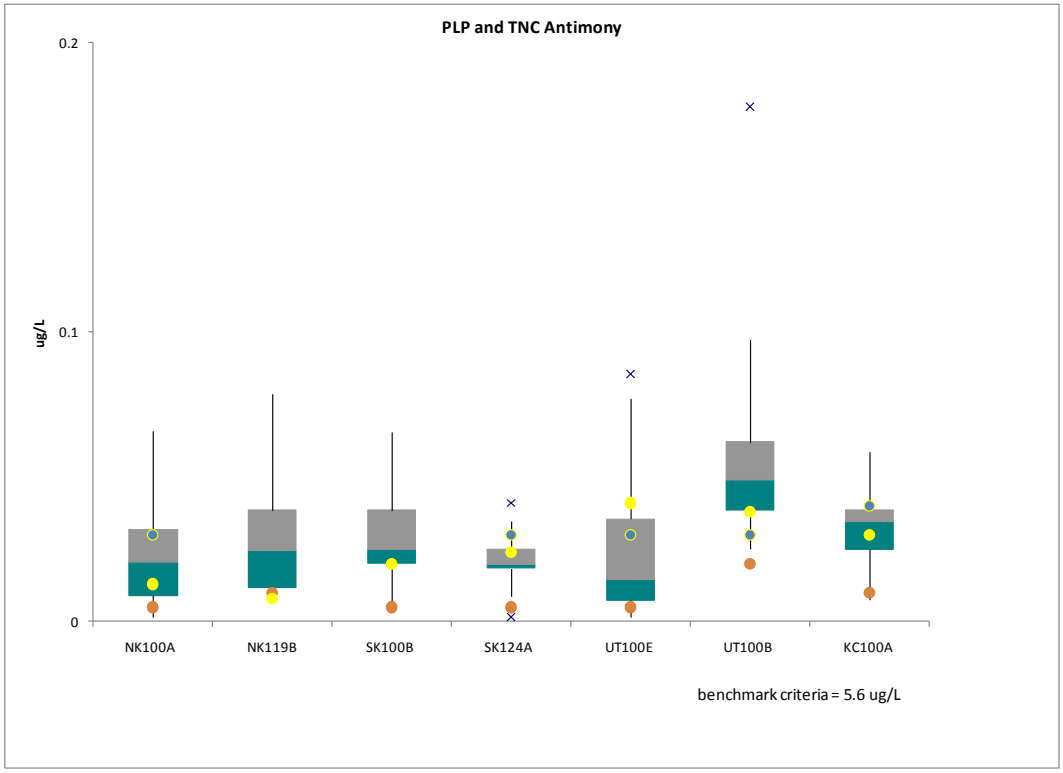

PLP and TNC Nitrogen species
mg/L
10
1
0.1
0.01
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
nitrate + nitrite
ammoniaa

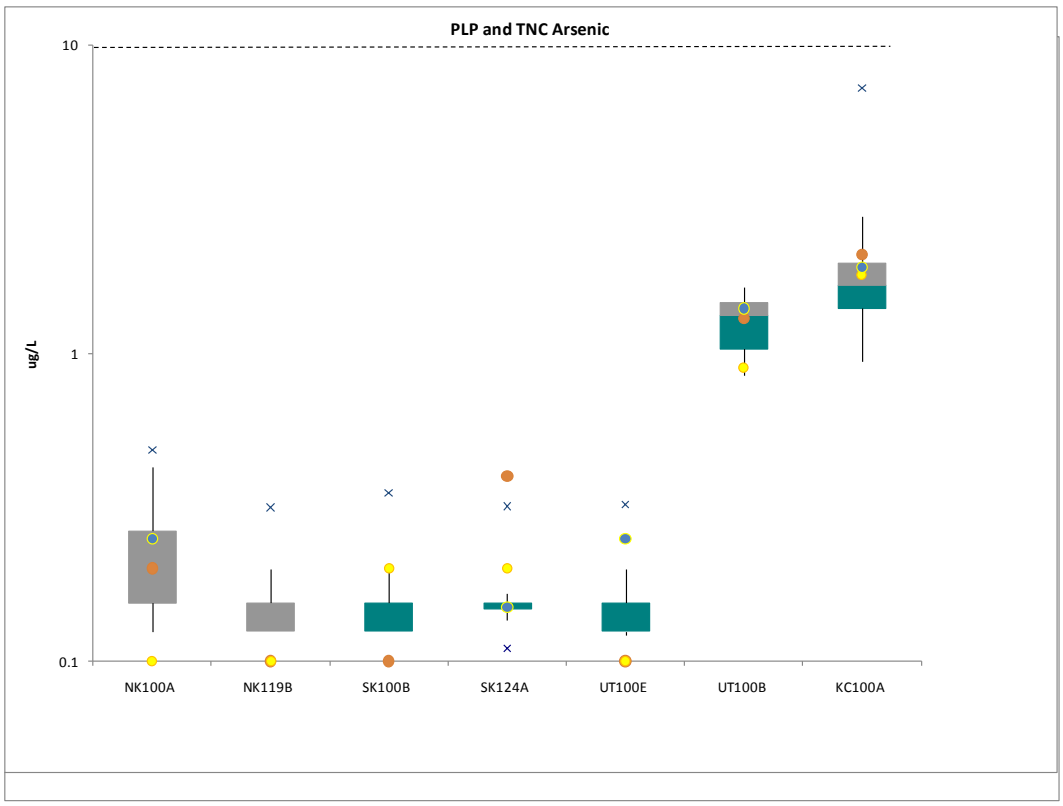

PLP and TNC cyanide
mg/L
0.1
0.01
0.001
0.0001
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
did not add 2010 because didn't have MDL; 1/2 MRL is off scale

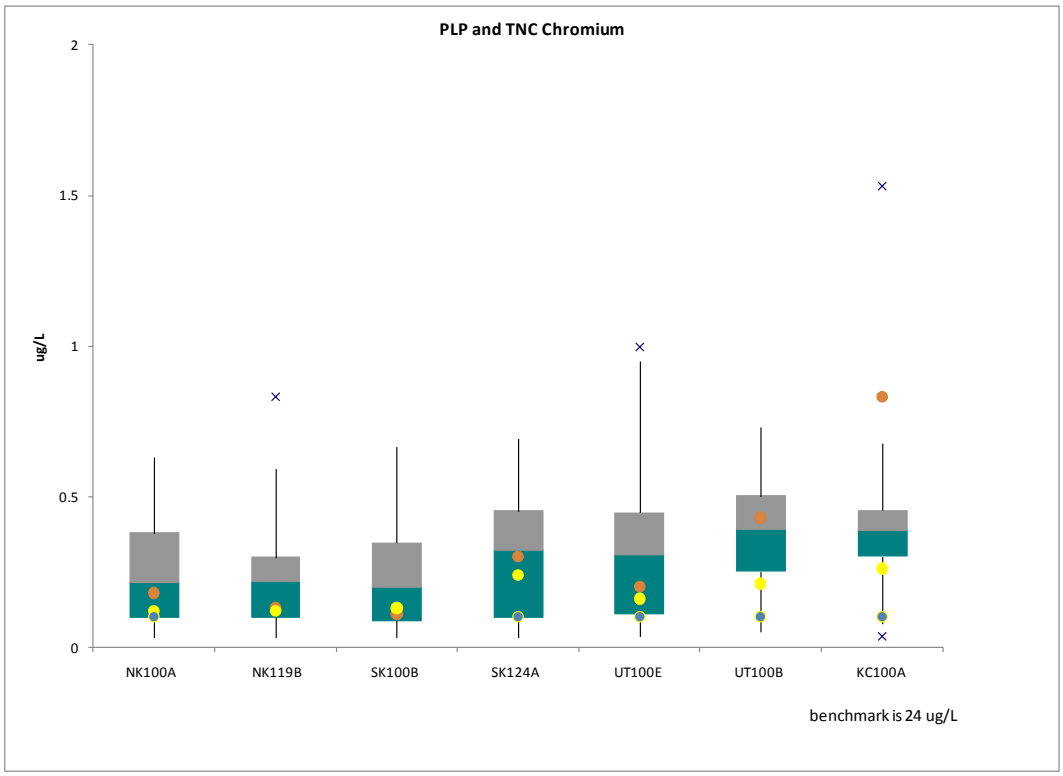

PLP and TNC Aluminum
ug/L
1000
100
10
1
0.1
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
Total Al
Dissolved Al

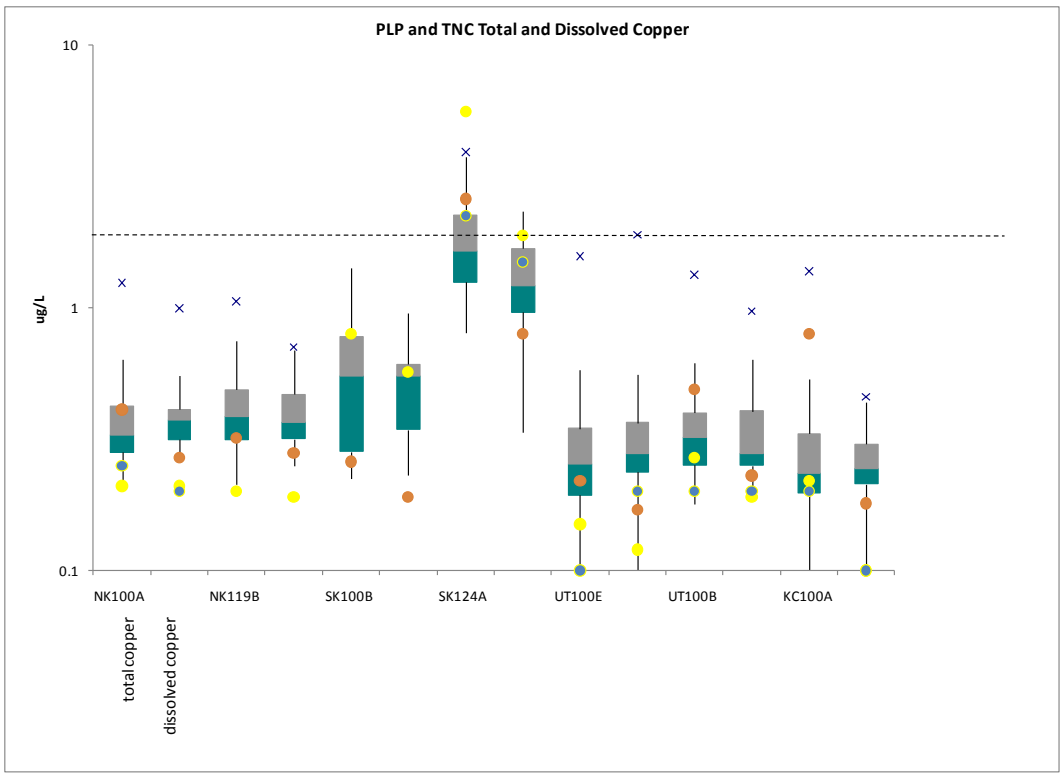

PLP and TNC Total and Dissolved Iron
mg/L
10
1
0.1
0.01
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
total iron
dissolved iron

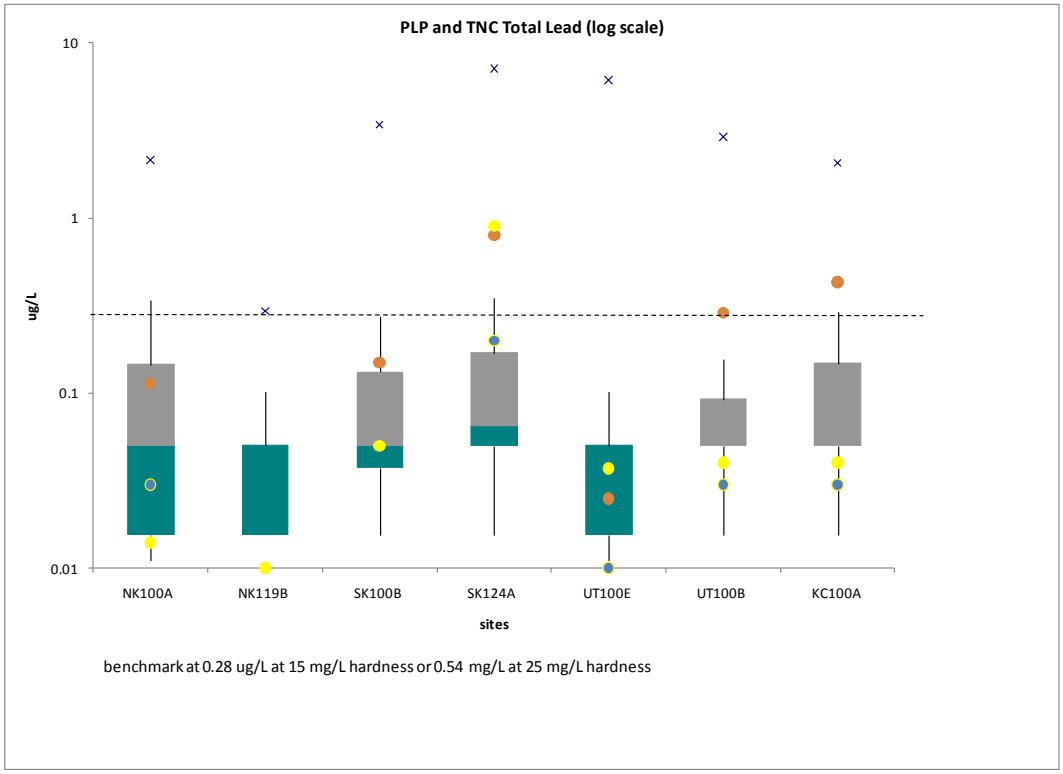

PLP and TNC Total and Dissolved Manganese
ug/L
100
90
80
70
60
50
40
30
20
10
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
Total Mn
Dissolved Mn

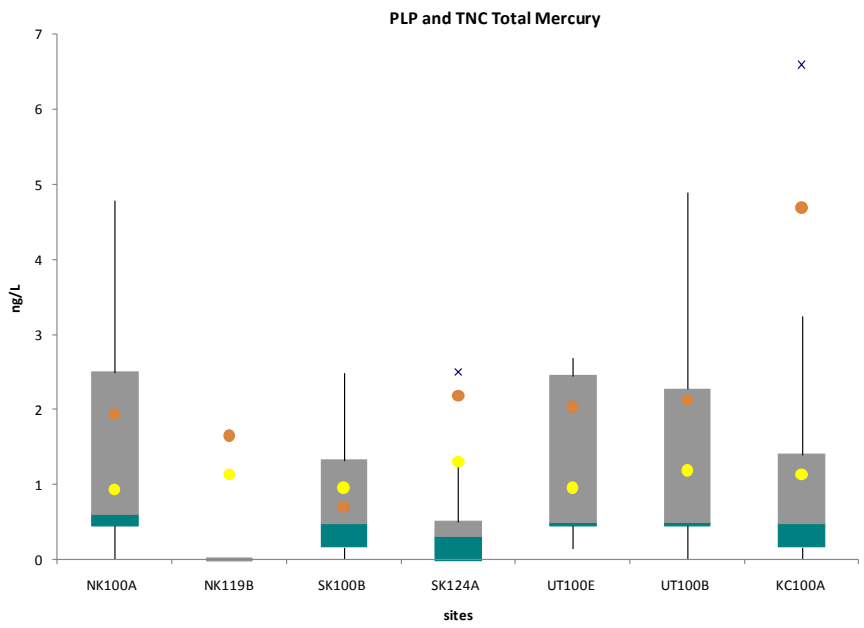

PLP and TNC Antimony
ug/L
0.2
0.1
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
benchmark criteria = 5.6 ug/L


PLP and TNC Arsenic
10
1
0.1
ug/L
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A

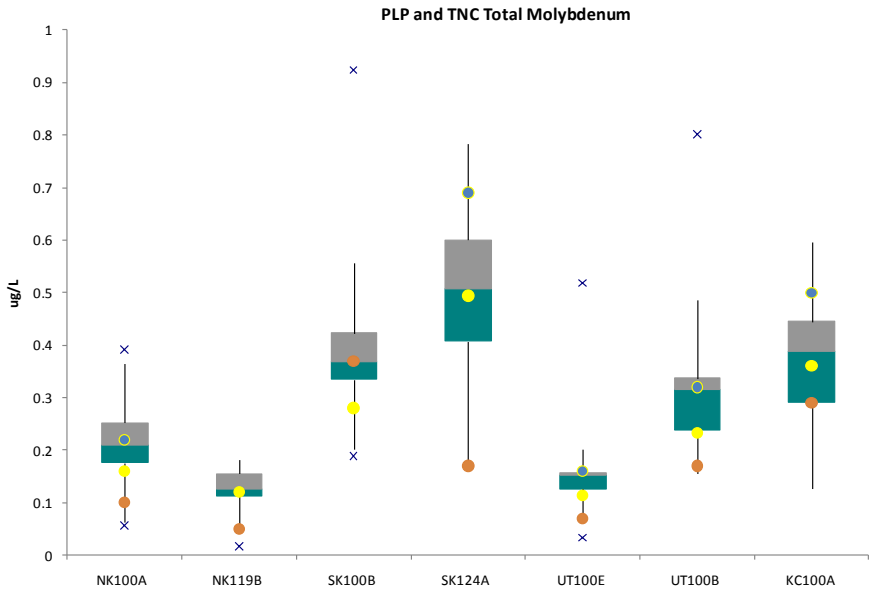

PLP and TNC Chromium
2
1.5
1
0.5
0
ug/L
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
benchmark is 24 ug/L


PLP and TNC Total and Dissolved Copper
10
1
0.1
ug/L
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
total copper
dissolved copper

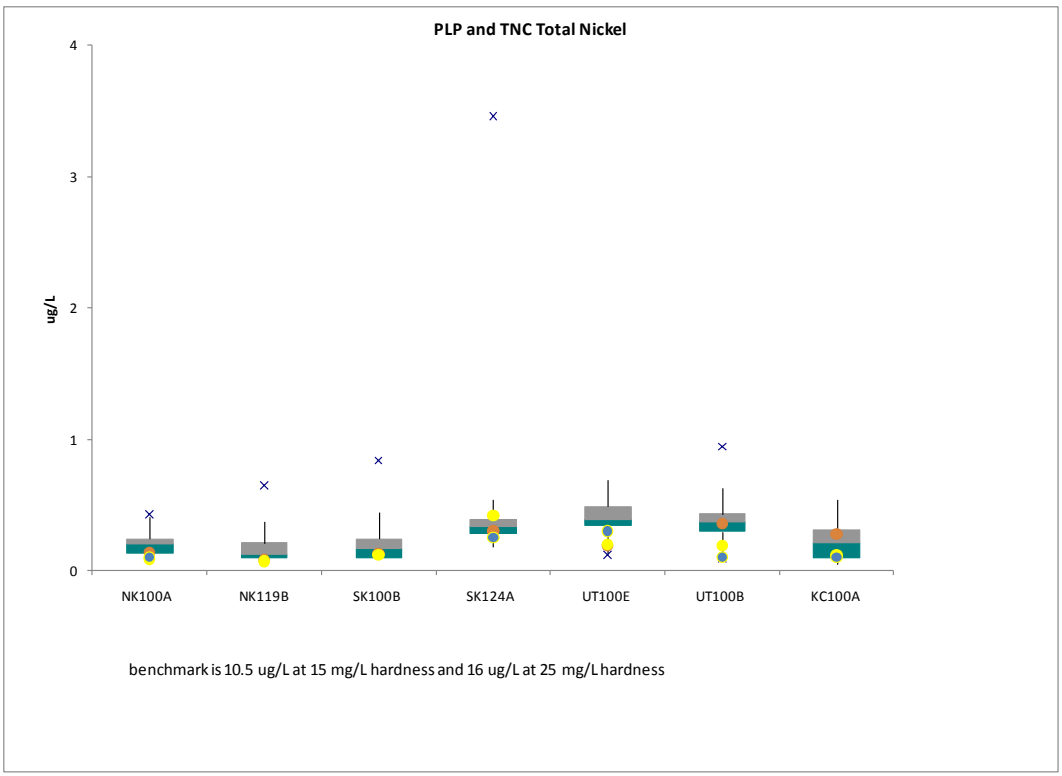

PLP and TNC Total Lead (log scale)
10
1
0.1
0.01
ug/L
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
sites
benchmark at 0.28 ug/L at 15 mg/L hardness or 0.54 mg/L at 25 mg/L hardness

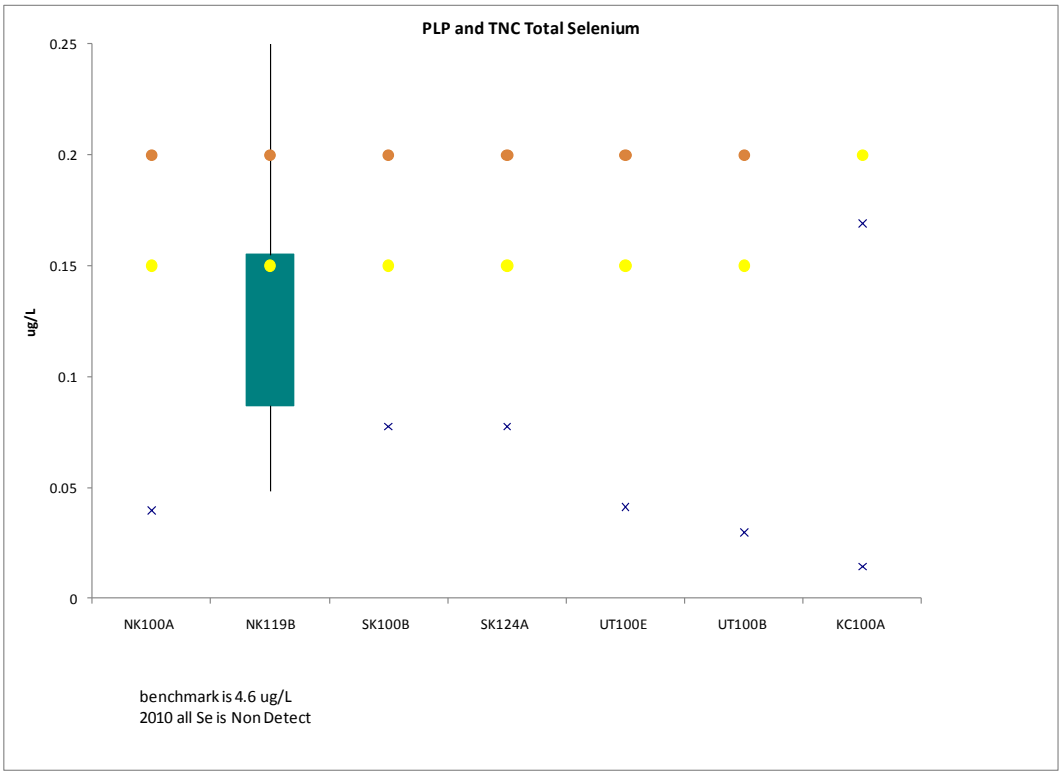


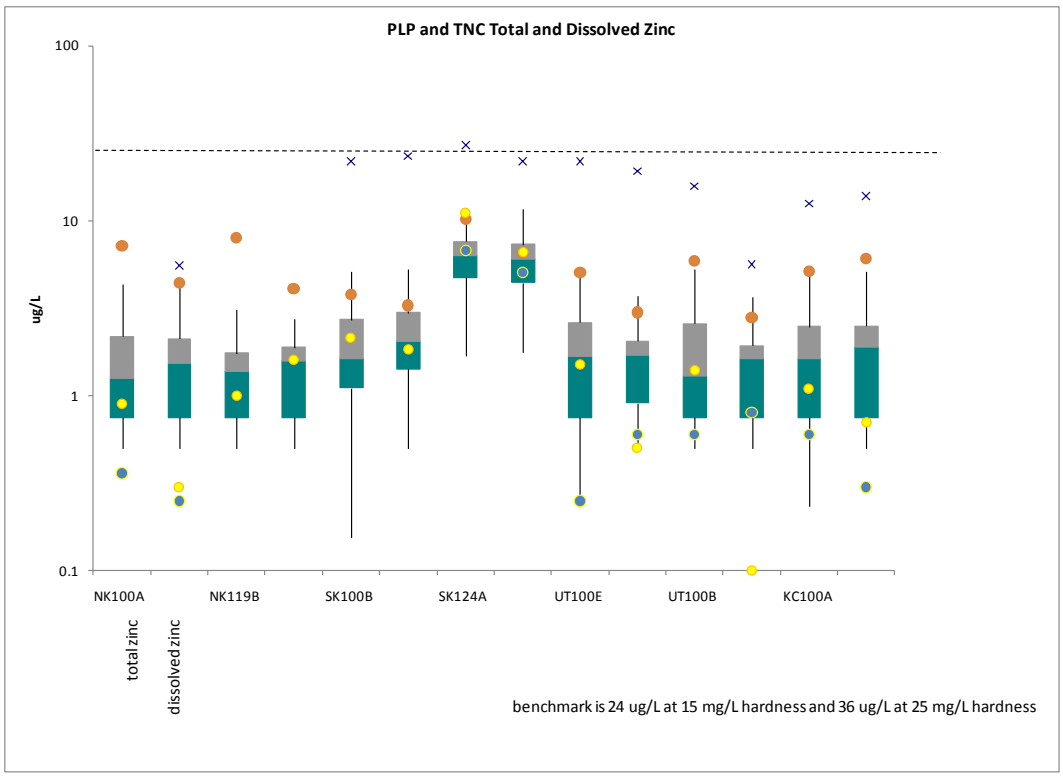
benchmark 50 ng/L
2010 Hg not included because it was not
Low Level Hg; all non detect but off the chart



Benchmark = 10 ug/L


PLP and TNC Total Nickel
ug/L
4
3
2
1
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
benchmark is 10.5 ug/L at 15 mg/L hardness and 16 ug/L at 25 mg/L hardness


PLP and TNC Total Selenium
ug/L
0.25
0.2
0.15
0.1
0.05
0
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
benchmark is 4.6 ug/L
2010 all Se is Non Detect


PLP and TNC Total and Dissolved Zinc
100
10
1
0.1
ug/L
NK100A
NK119B
SK100B
SK124A
UT100E
UT100B
KC100A
total zinc
dissolved zinc
benchmark is 24 ug/L at 15 mg/L hardness and 36 ug/L at 25 mg/L hardness