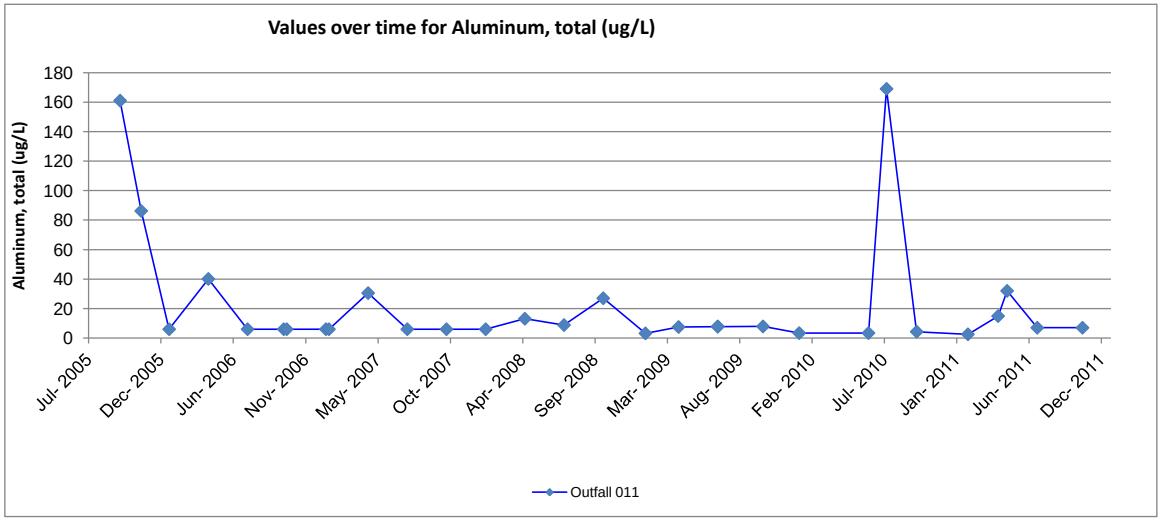
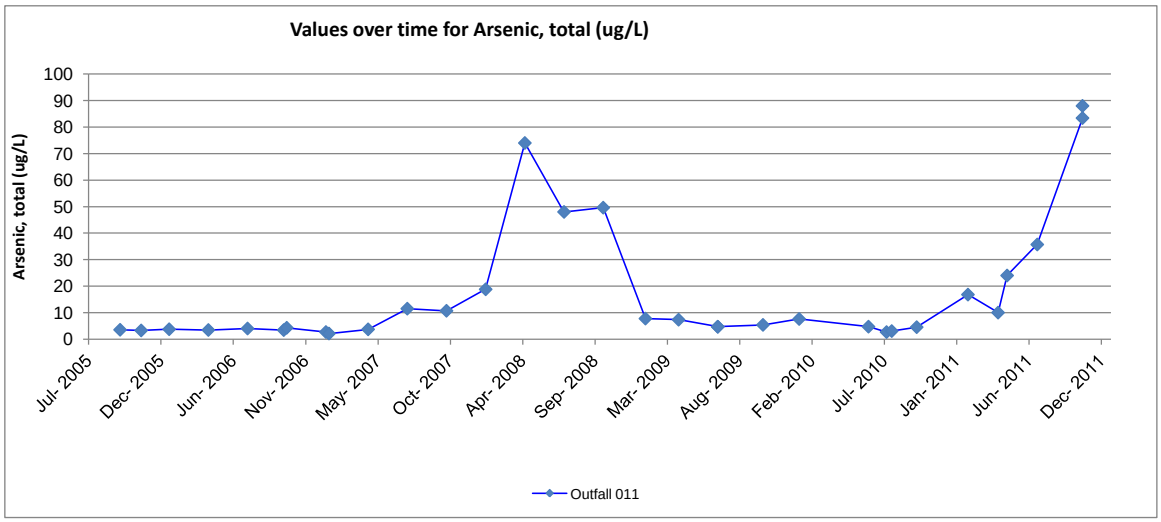
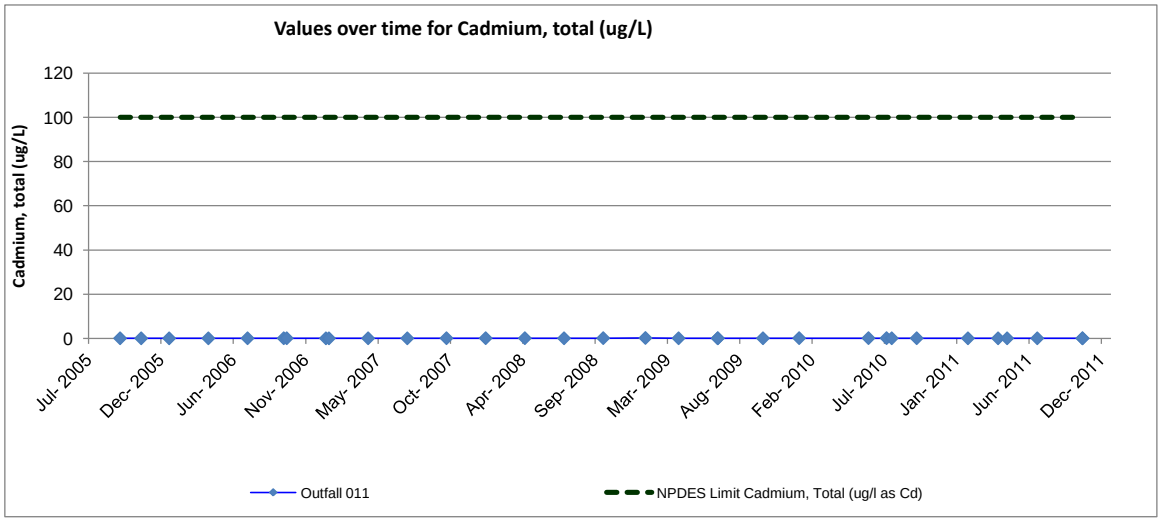
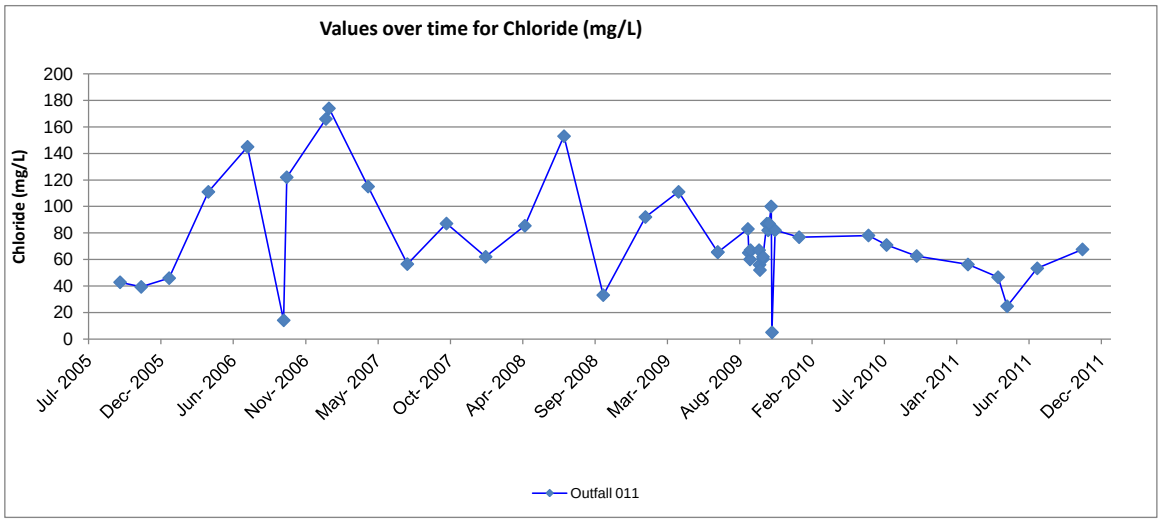
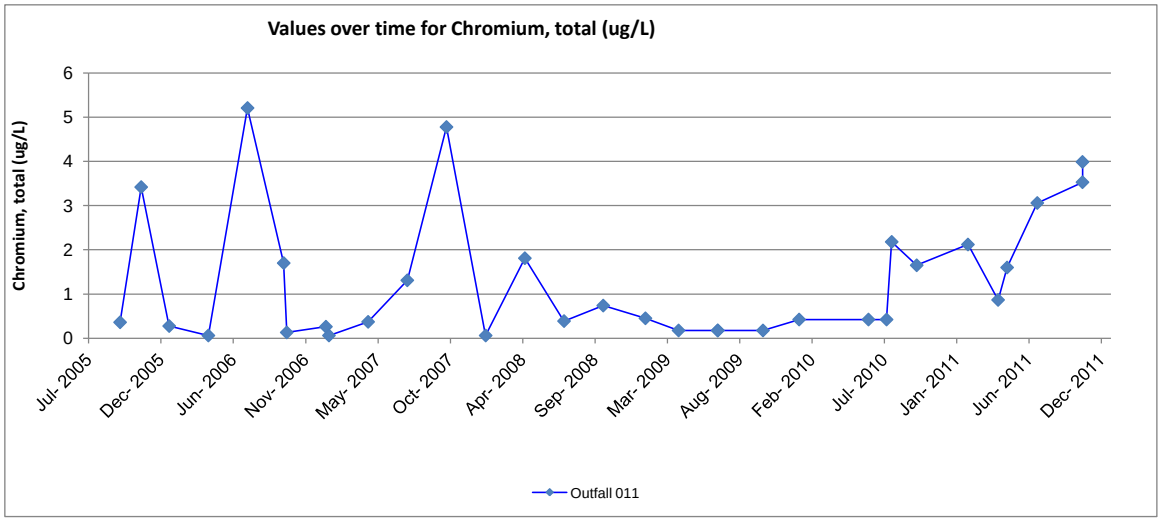
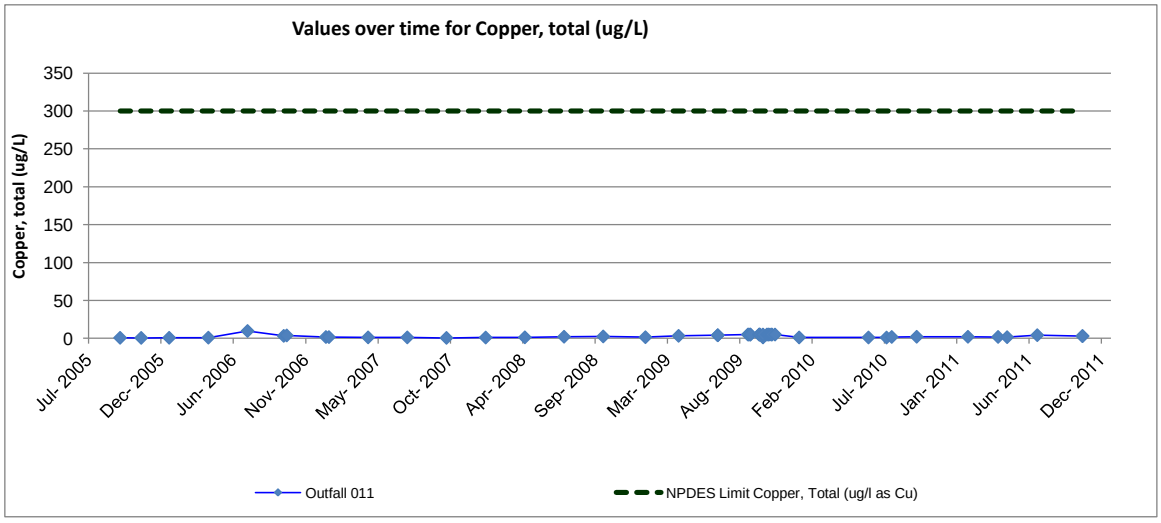

Values over time for Aluminum, total (ug/L)
Aluminum, total (ug/L)
180
160
140
120
100
80
60
40
20
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

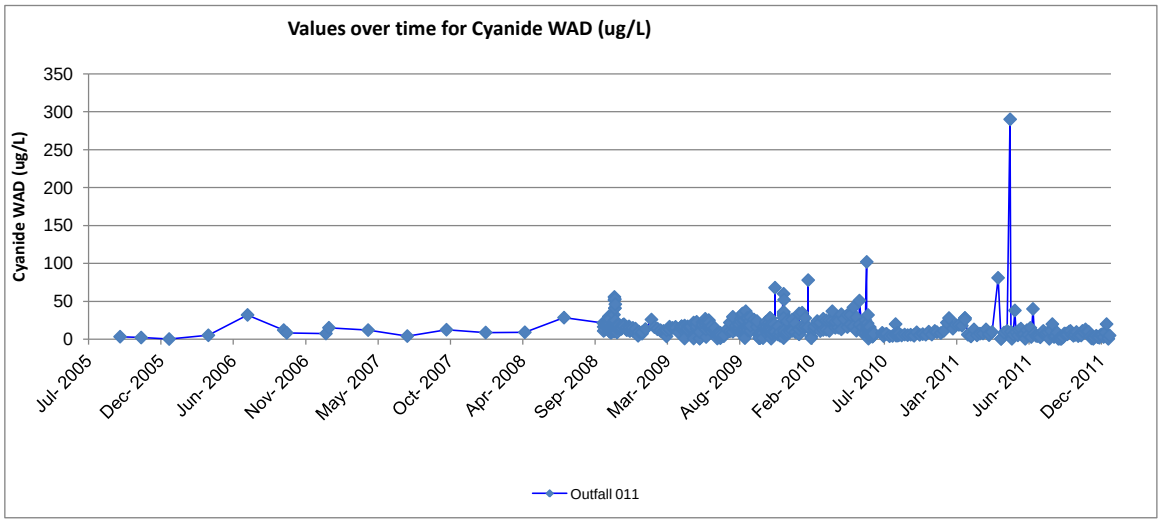

Values over time for Arsenic, total (ug/L)
Arsenic, total (ug/L)
100
90
80
70
60
50
40
30
20
10
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

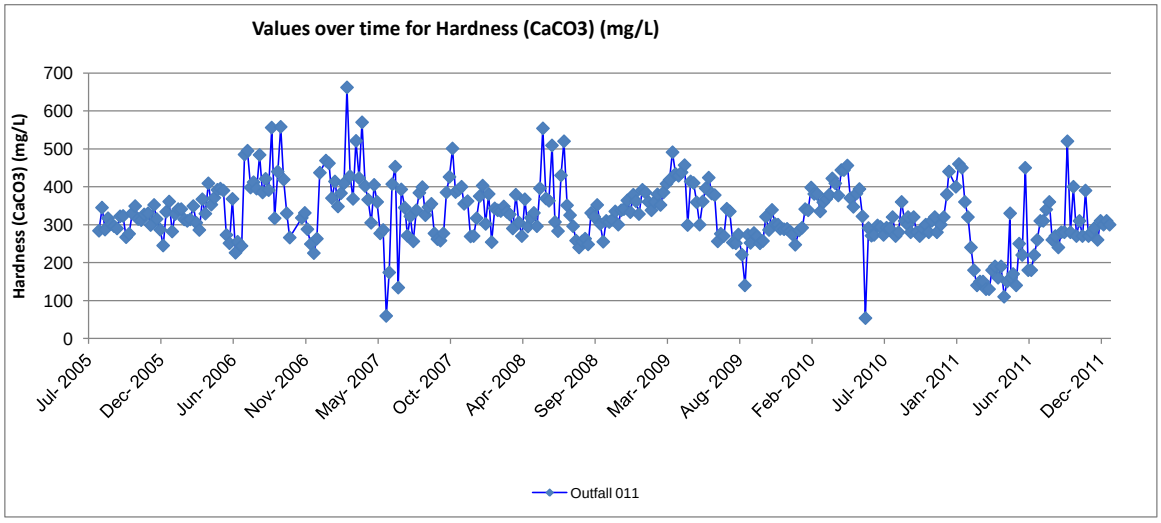

Values over time for Cadmium, total (ug/L)
Cadmium, total (ug/L)
120
100
80
60
40
20
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Cadmium, Total (ug/l as Cd)

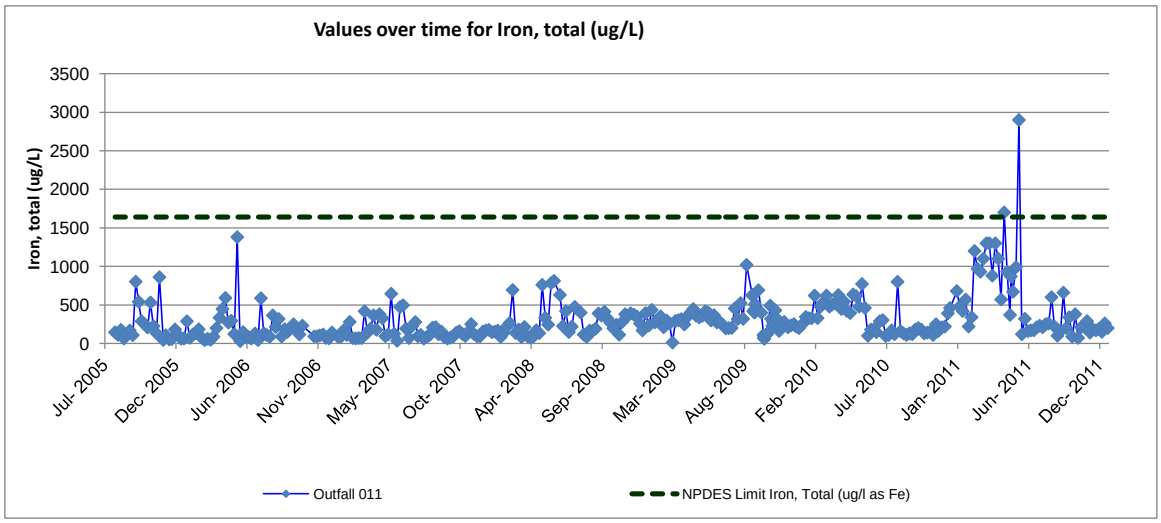

Values over time for Chloride (mg/L)
Chloride (mg/L)
200
180
160
140
120
100
80
60
40
20
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

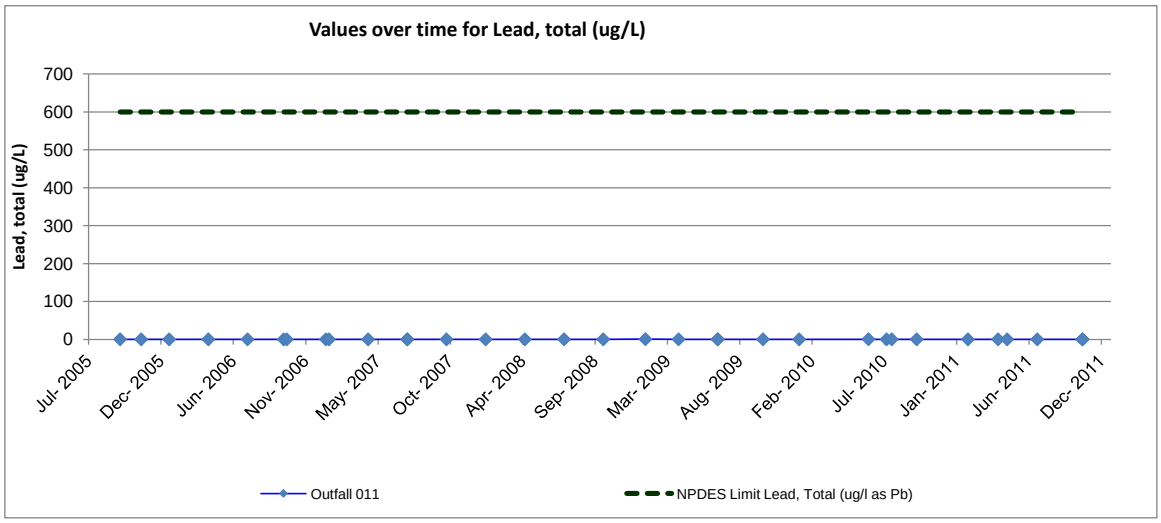

Values over time for Chromium, total (ug/L)
Chromium, total (ug/L)
6
5
4
3
2
1
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

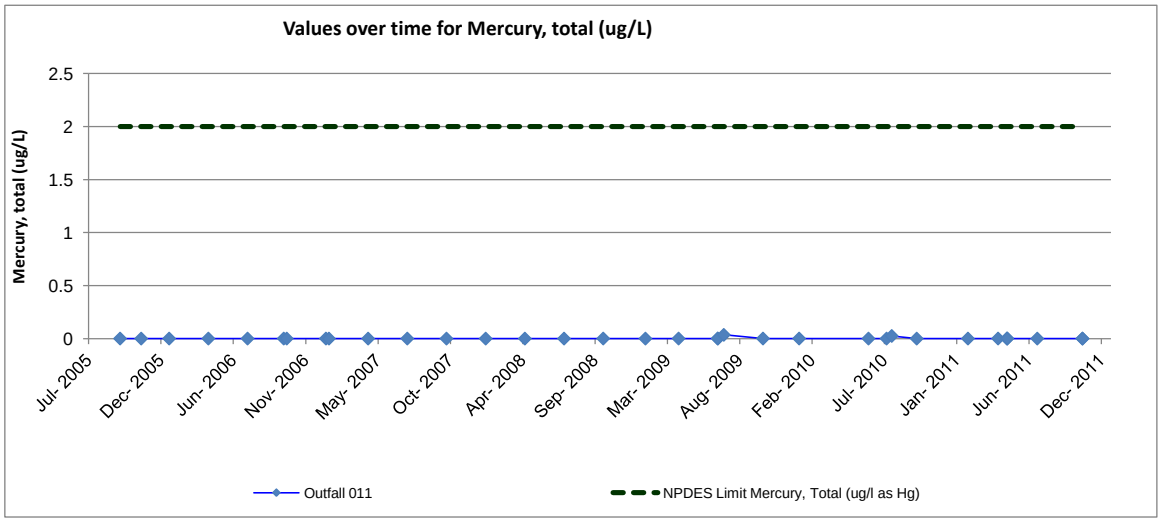

Values over time for Copper, total (ug/L)
Copper, total (ug/L)
350
300
250
200
150
100
50
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Copper, Total (ug/l as Cu)

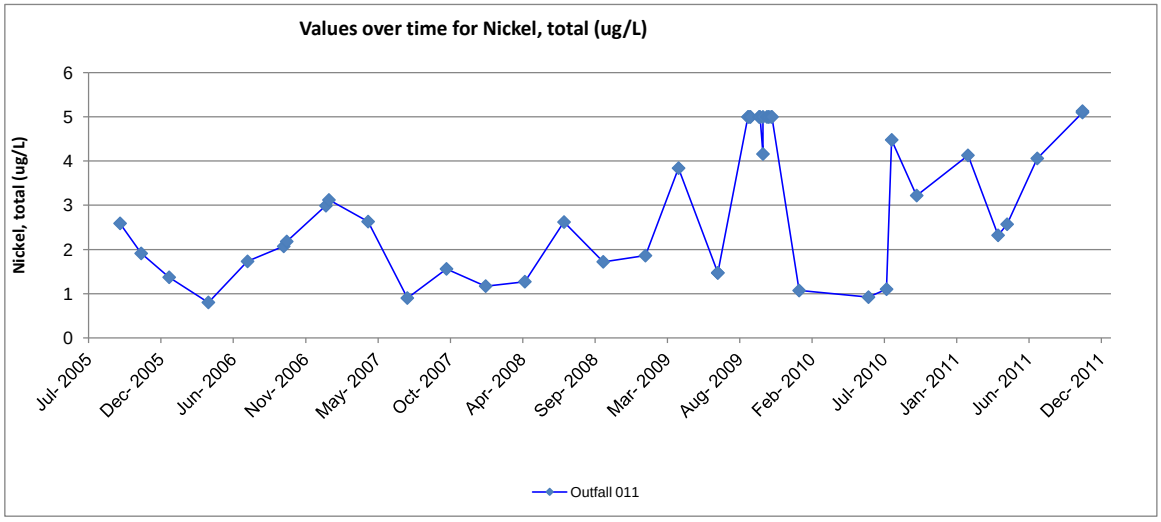

Values over time for Cyanide WAD (ug/L)
Cyanide WAD (ug/L)
350
300
250
200
150
100
50
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

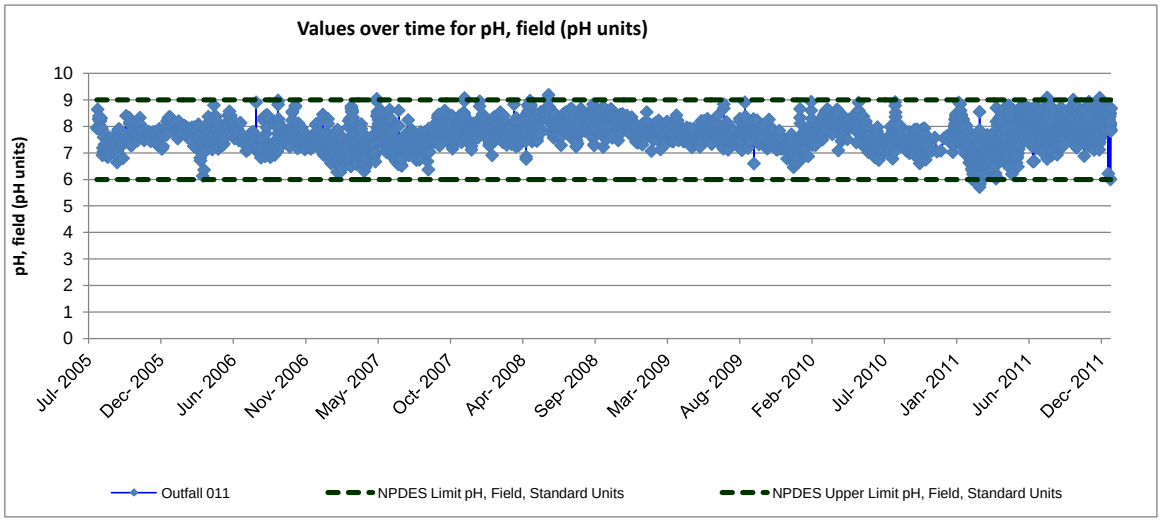

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3) (mg/L)
700
600
500
400
300
200
100
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

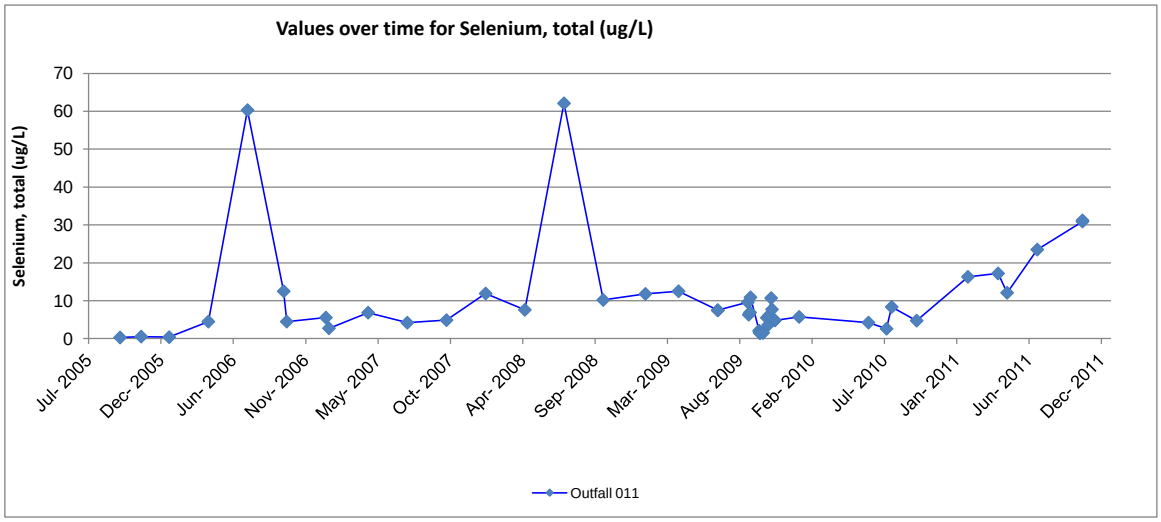

Values over time for Iron, total (ug/L)
Iron, total (ug/L)
3500
3000
2500
2000
1500
1000
500
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Iron, Total (ug/l as Fe)

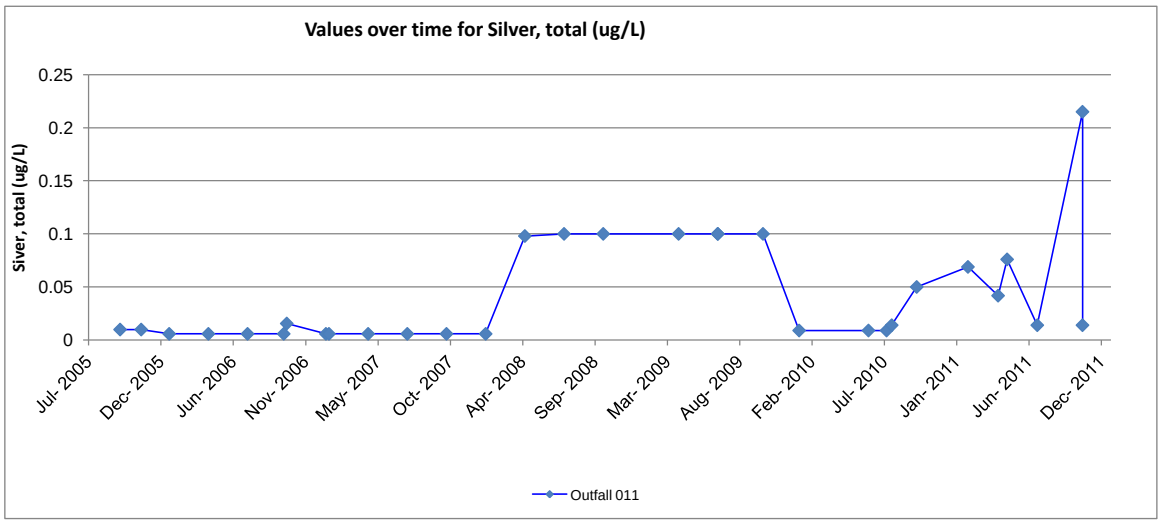

Values over time for Lead, total (ug/L)
Lead, total (ug/L)
700
600
500
400
300
200
100
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Lead, Total (ug/l as Pb)

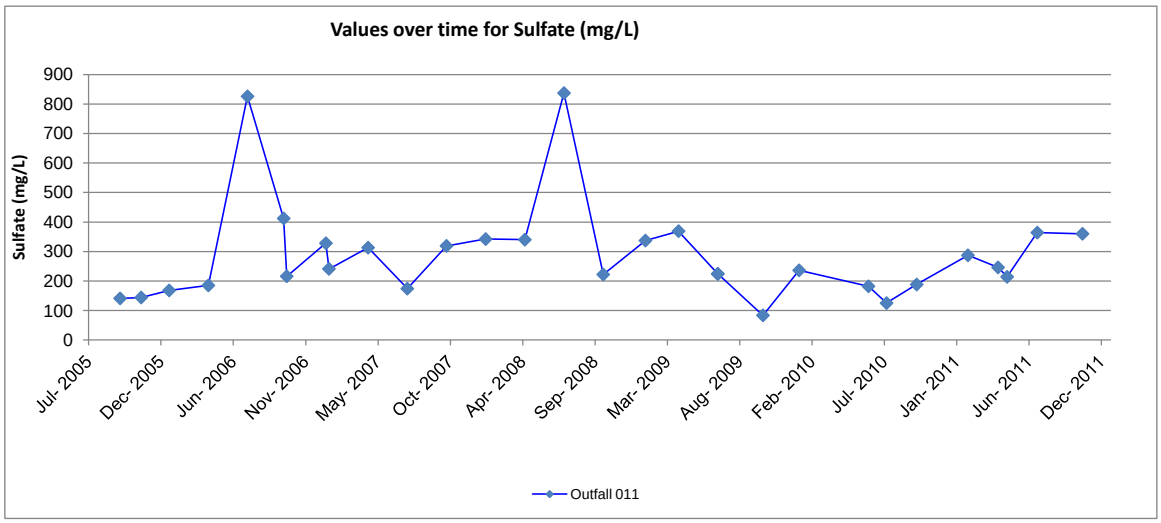

Values over time for Mercury, total (ug/L)
Mercury, total (ug/L)
2.5
2
1.5
1
0.5
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Mercury, Total (ug/l as Hg)

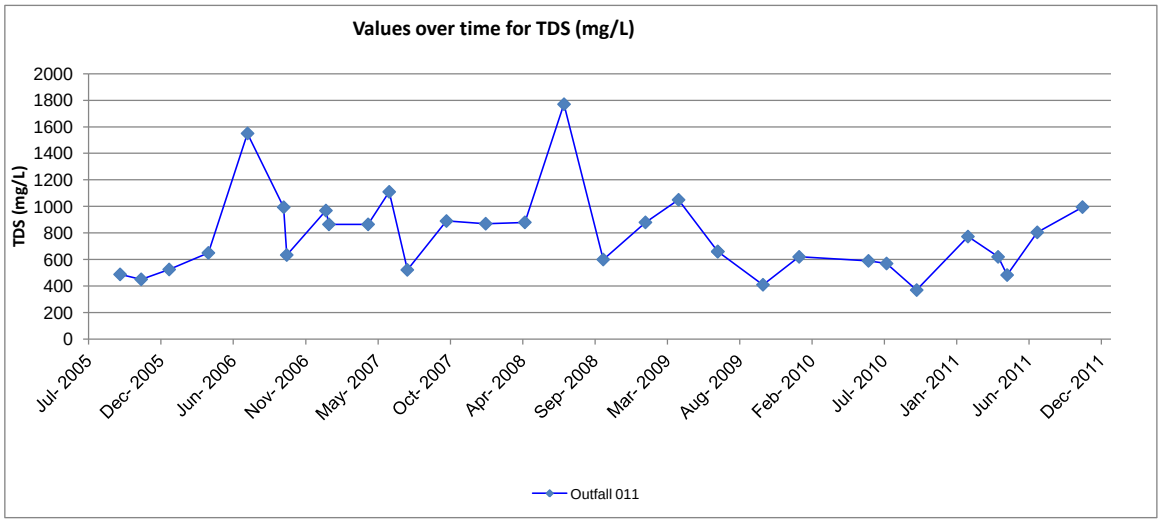

Values over time for Nickel, total (ug/L)
Nickel, total (ug/L)
6
5
4
3
2
1
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

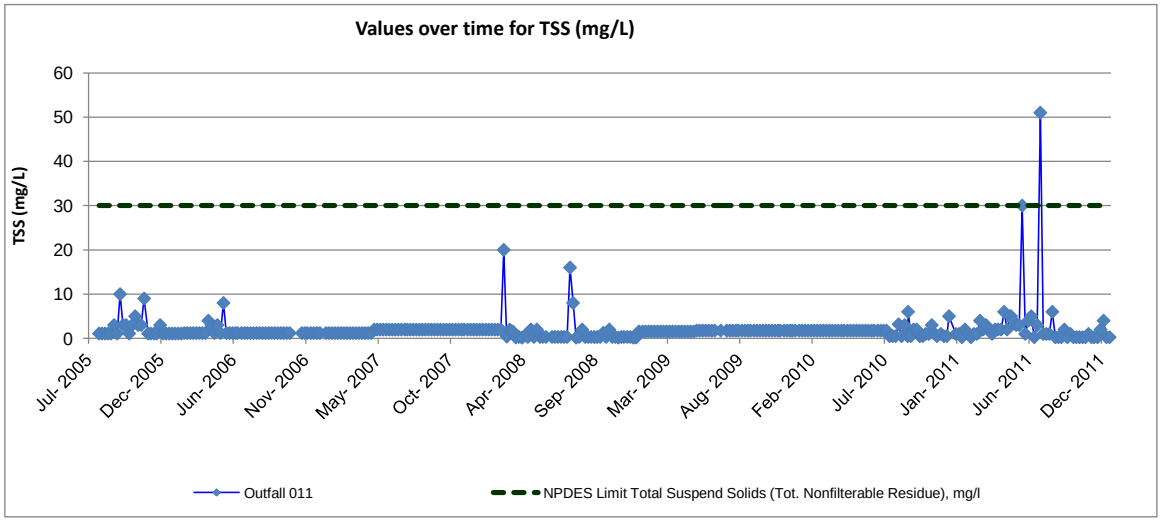

Values over time for pH, field (pH units)
pH, field (pH units)
10
9
8
7
6
5
4
3
2
1
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit pH, Field, Standard Units
NPDES Upper Limit pH, Field, Standard Units

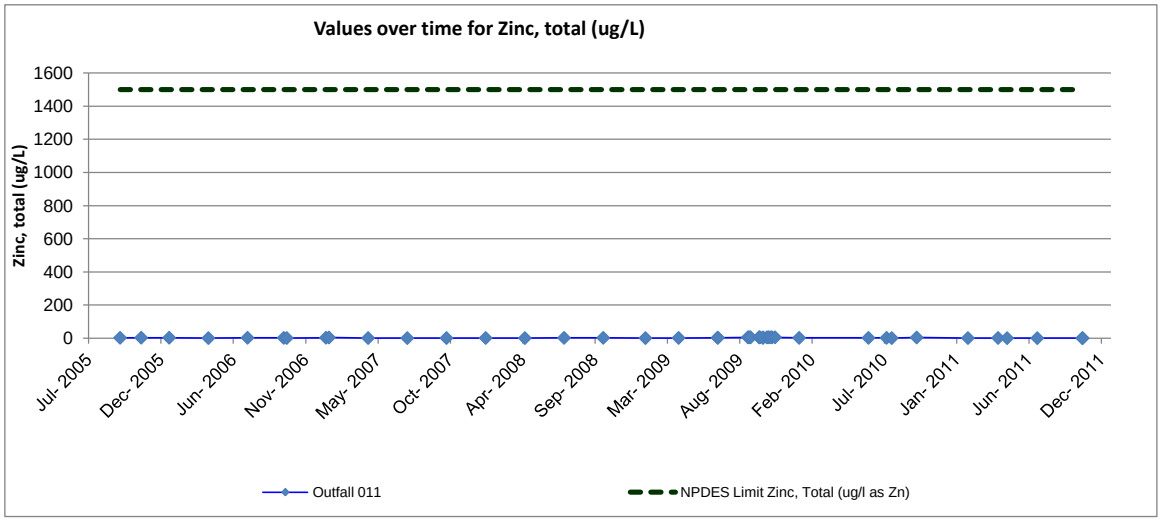

Values over time for Selenium, total (ug/L)
Selenium, total (ug/L)
70
60
50
40
30
20
10
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

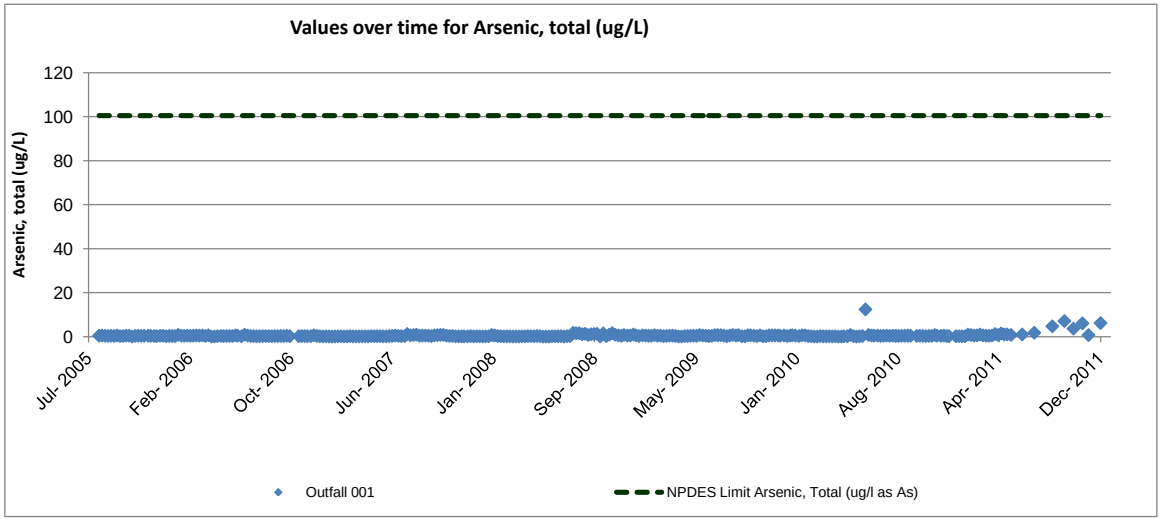

Values over time for Silver, total (ug/L)
Siver, total (ug/L)
0.25
0.2
0.15
0.1
0.05
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

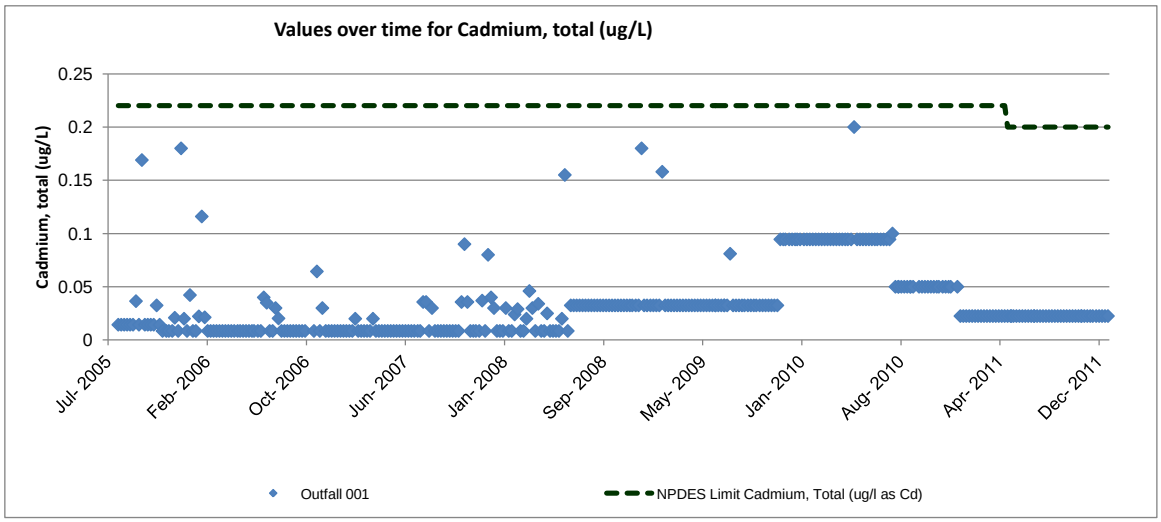

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
900
800
700
600
500
400
300
200
100
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

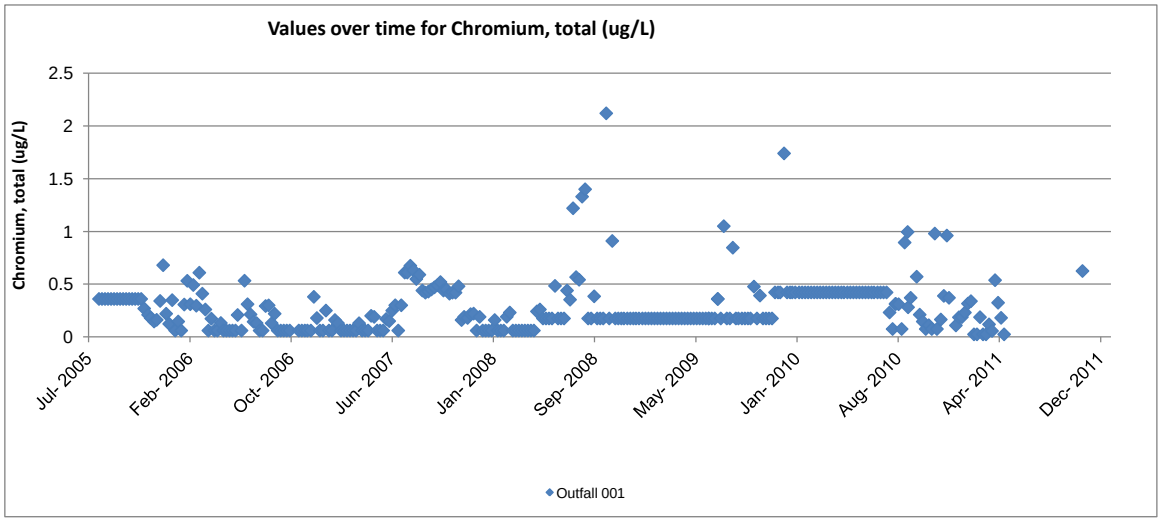

Values over time for TDS (mg/L)
TDS (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011

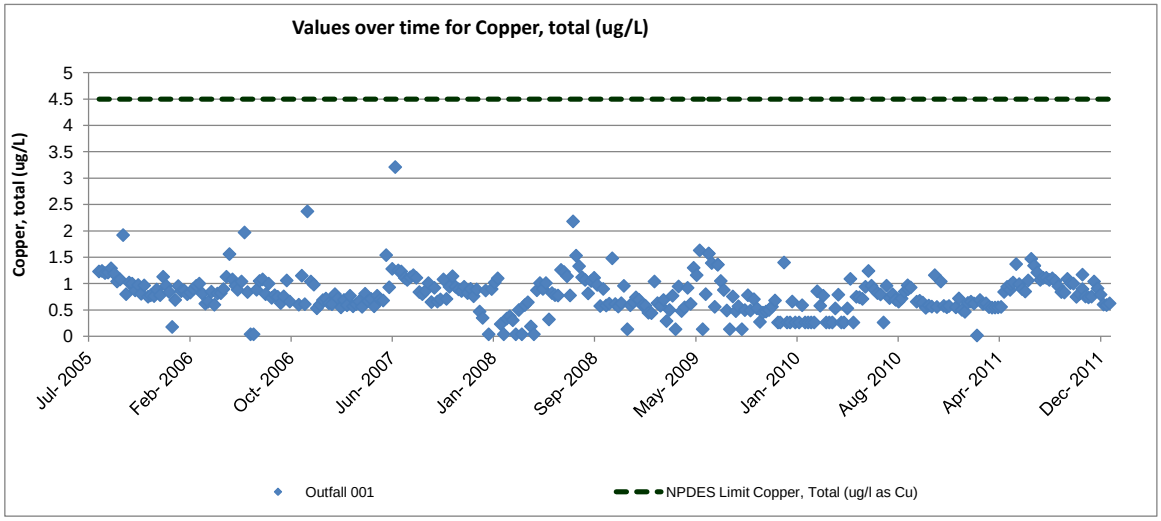

Values over time for TSS (mg/L)
TSS (mg/L)
60
50
40
30
20
10
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Total Suspend Solids (Tot. Nonfilterable Residue), mg/l

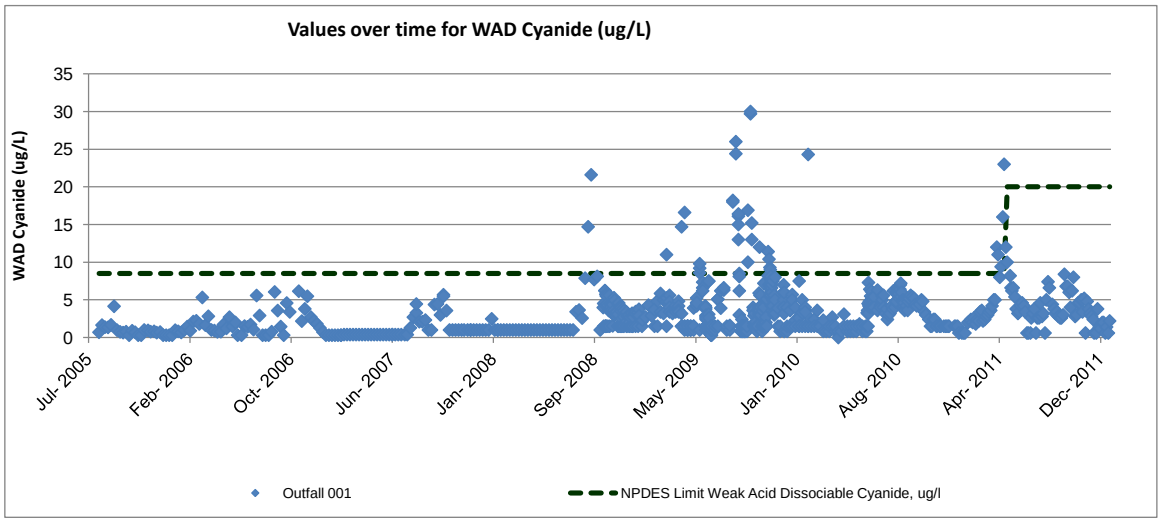

Values over time for Zinc, total (ug/L)
Zinc, total (ug/L)
1600
1400
1200
1000
800
600
400
200
0
Jul- 2005
Dec- 2005
Jun- 2006
Nov- 2006
May- 2007
Oct- 2007
Apr- 2008
Sep- 2008
Mar- 2009
Aug- 2009
Feb- 2010
Jul- 2010
Jan- 2011
Jun- 2011
Dec- 2011
Outfall 011
NPDES Limit Zinc, Total (ug/l as Zn)

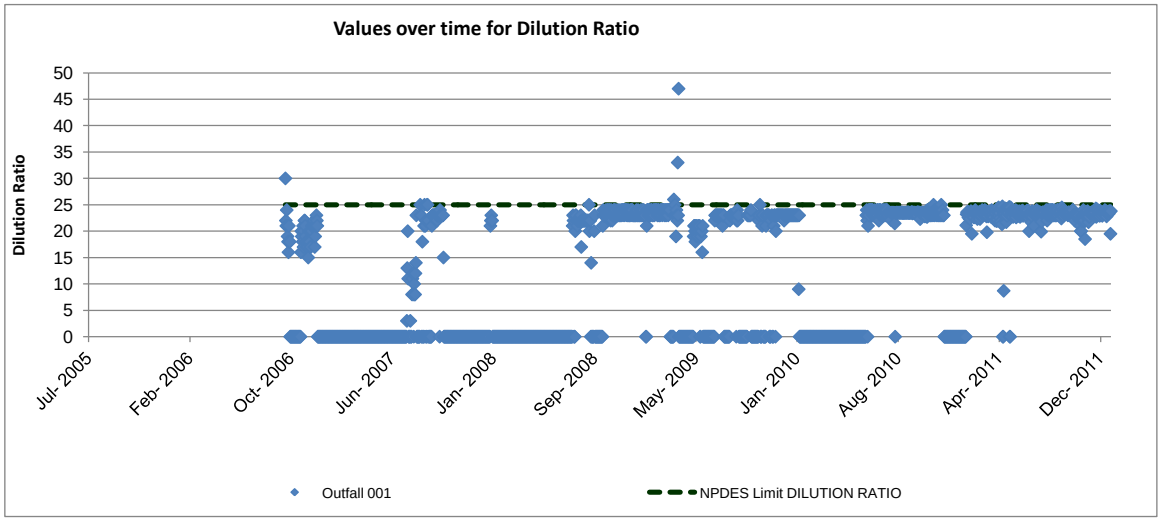

Values over time for Arsenic, total (ug/L)
Arsenic, total (ug/L)
120
100
80
60
40
20
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Arsenic, Total (ug/l as As)

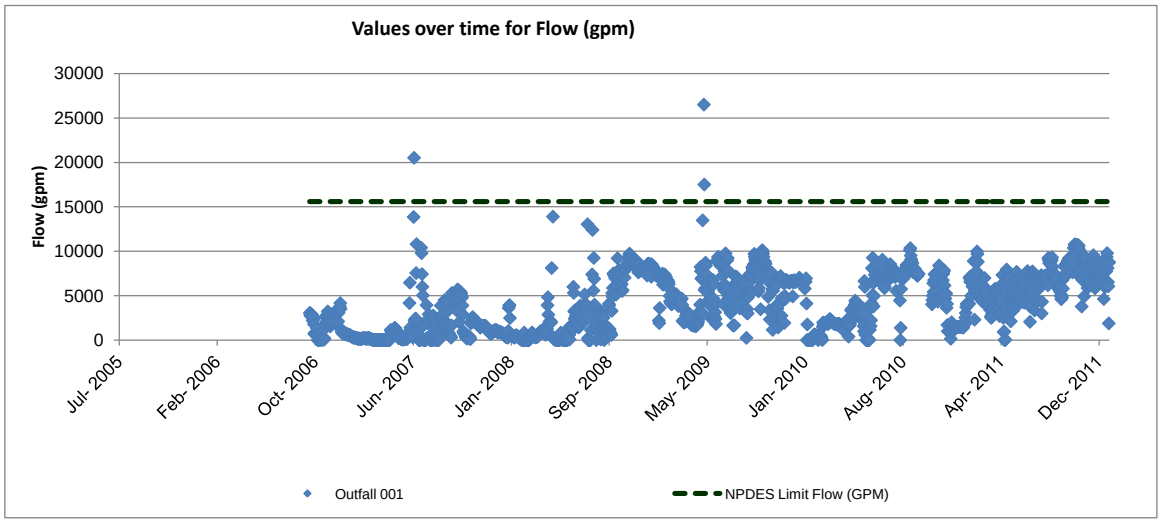

Values over time for Cadmium, total (ug/L)
Cadmium, total (ug/L)
0.25
0.2
0.15
0.1
0.05
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Cadmium, Total (ug/l as Cd)

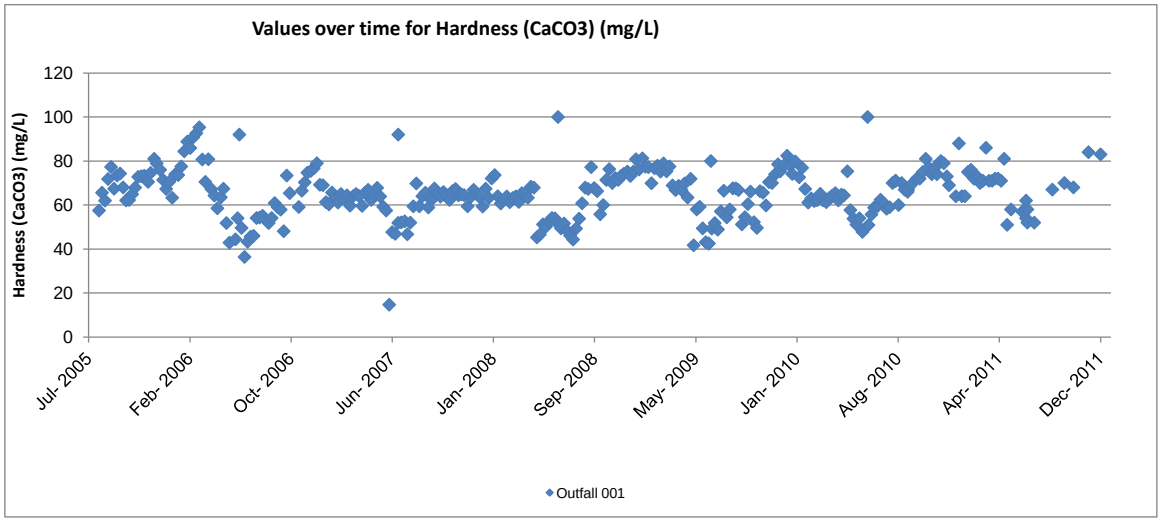

Values over time for Chromium, total (ug/L)
Chromium, total (ug/L)
2.5
2
1.5
1
0.5
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001

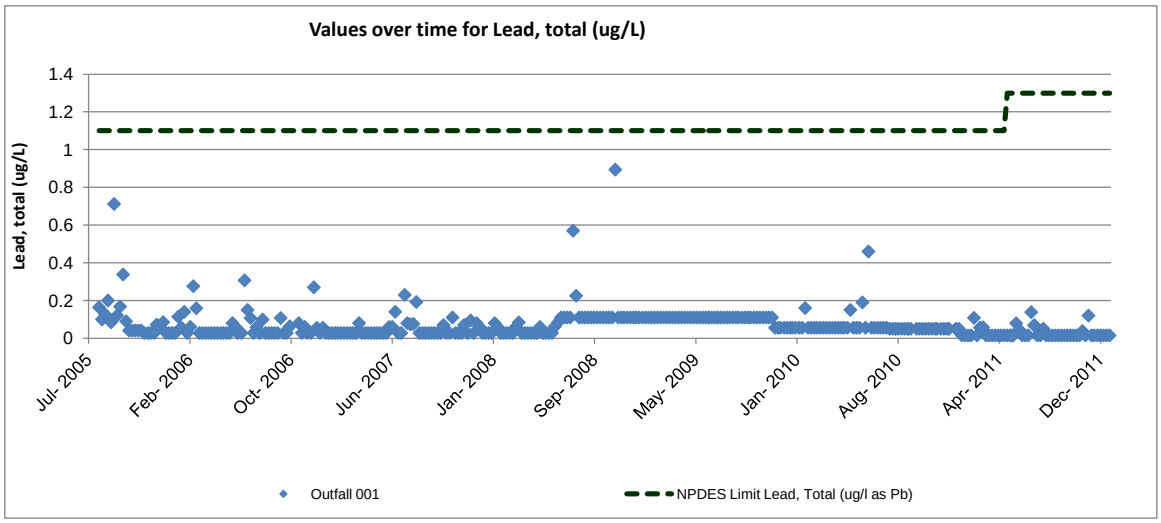

Values over time for Copper, total (ug/L)
Copper, total (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Copper, Total (ug/l as Cu)

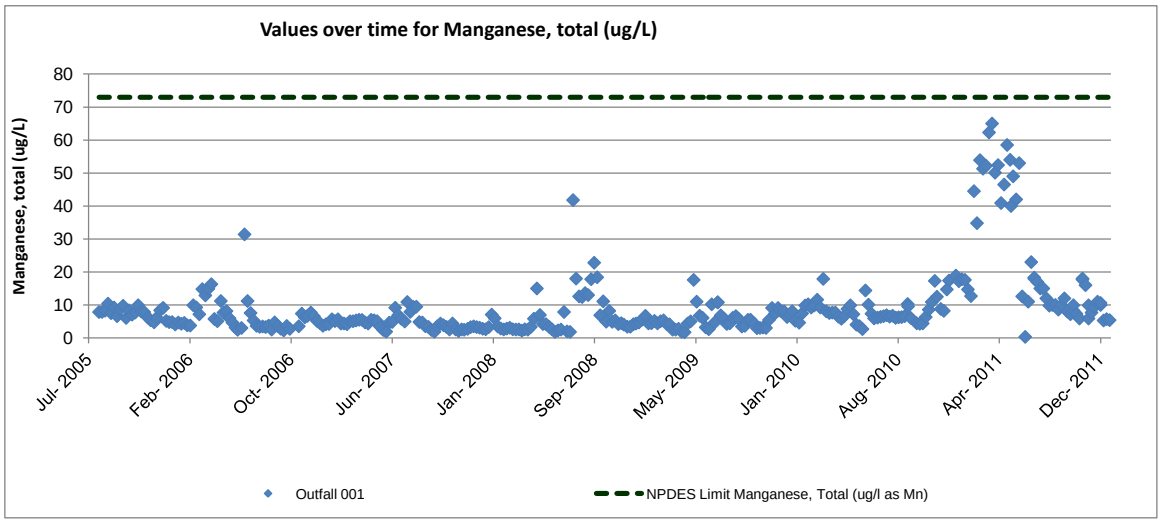

Values over time for WAD Cyanide (ug/L)
WAD Cyanide (ug/L)
35
30
25
20
15
10
5
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Weak Acid Dissociable Cyanide, ug/l

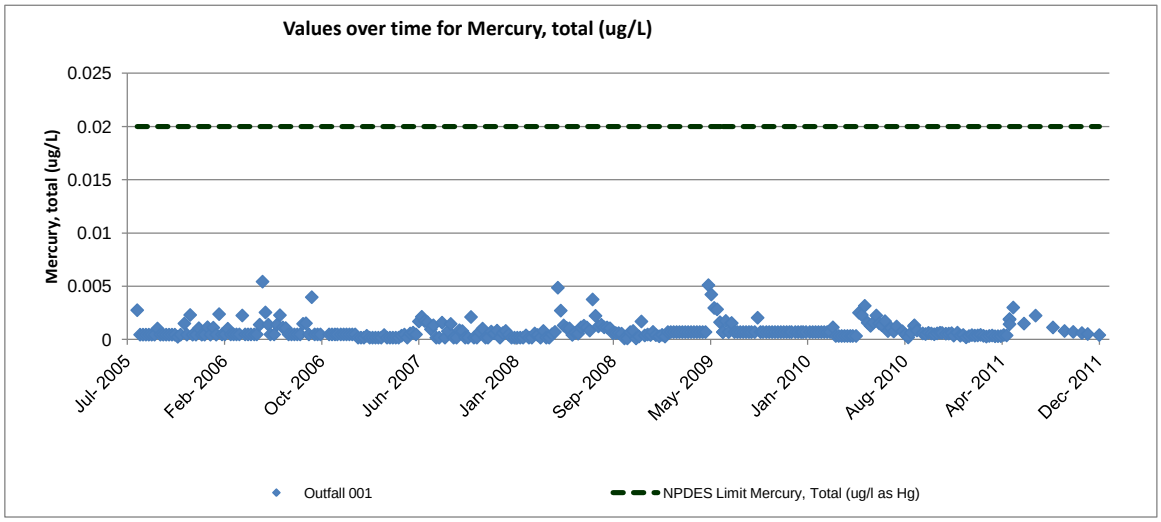

Values over time for Dilution Ratio
Dilution Ratio
50
45
40
35
30
25
20
15
10
5
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit DILUTION RATIO

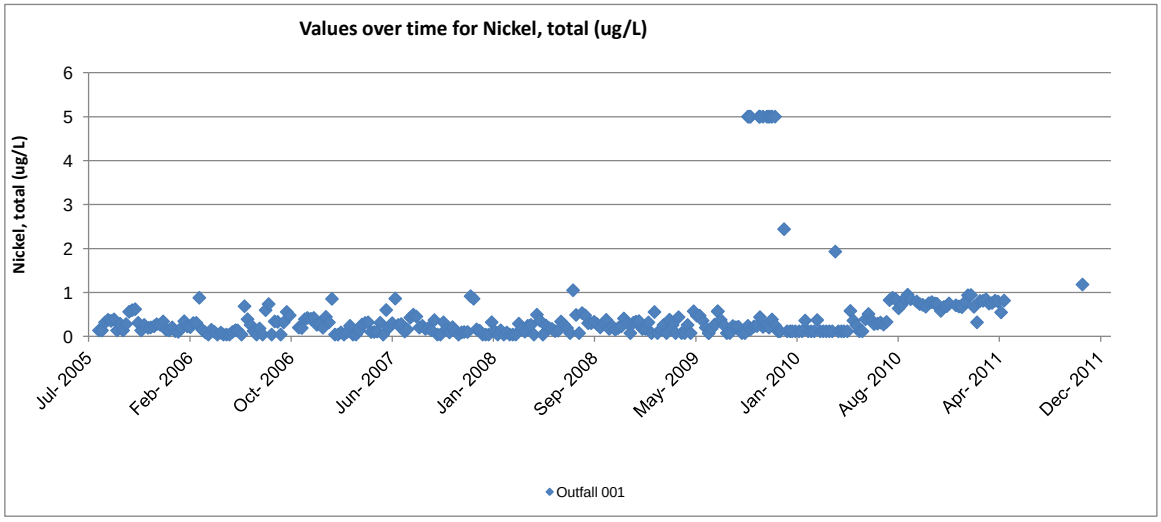

Values over time for Flow (gpm)
Flow (gpm)
30000
25000
20000
15000
10000
5000
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Flow (GPM)

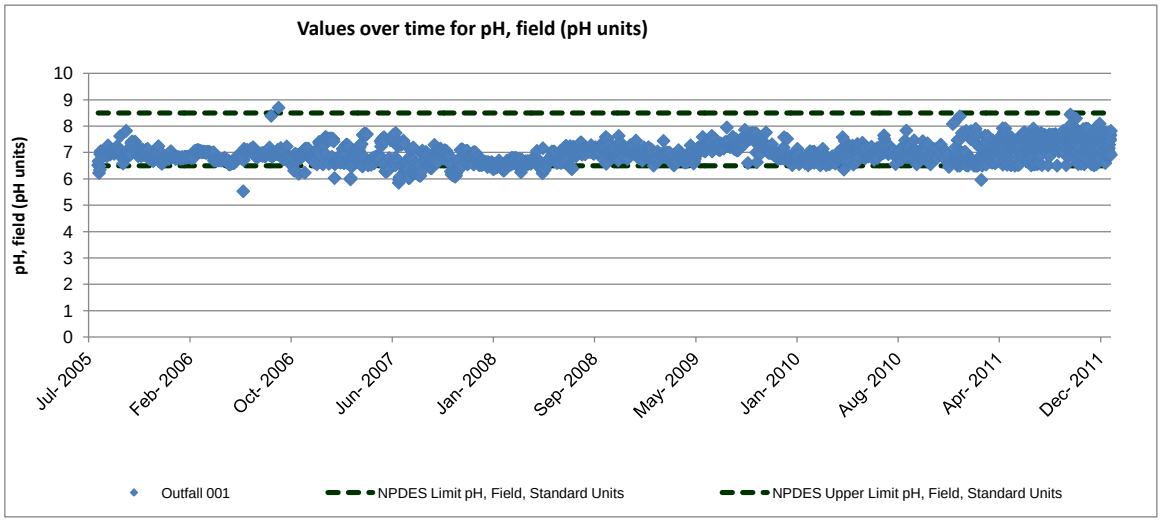

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3) (mg/L)
120
100
80
60
40
20
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001

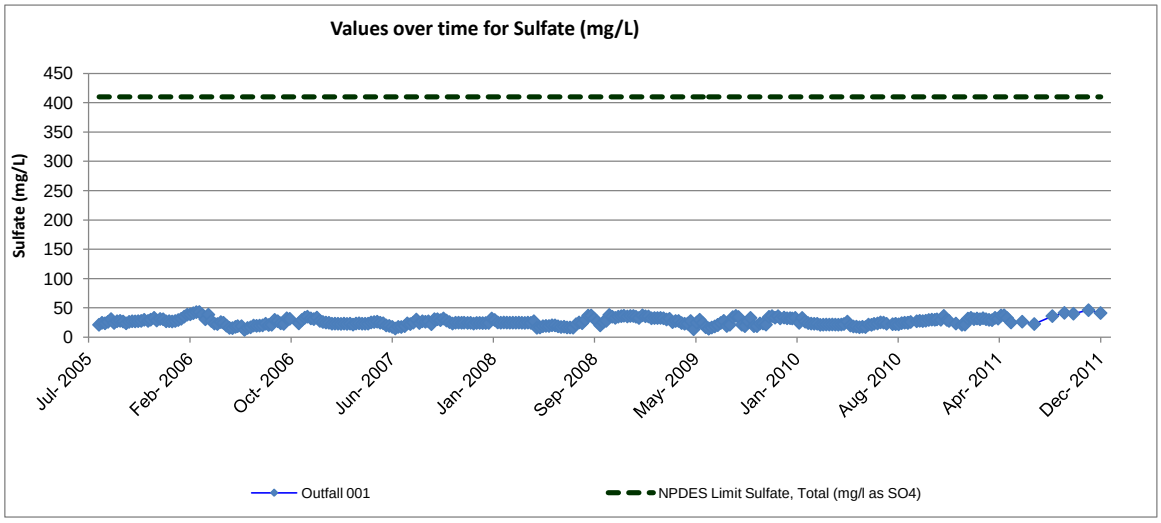

Values over time for Lead, total (ug/L)
Lead, total (ug/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Lead, Total (ug/l as Pb)

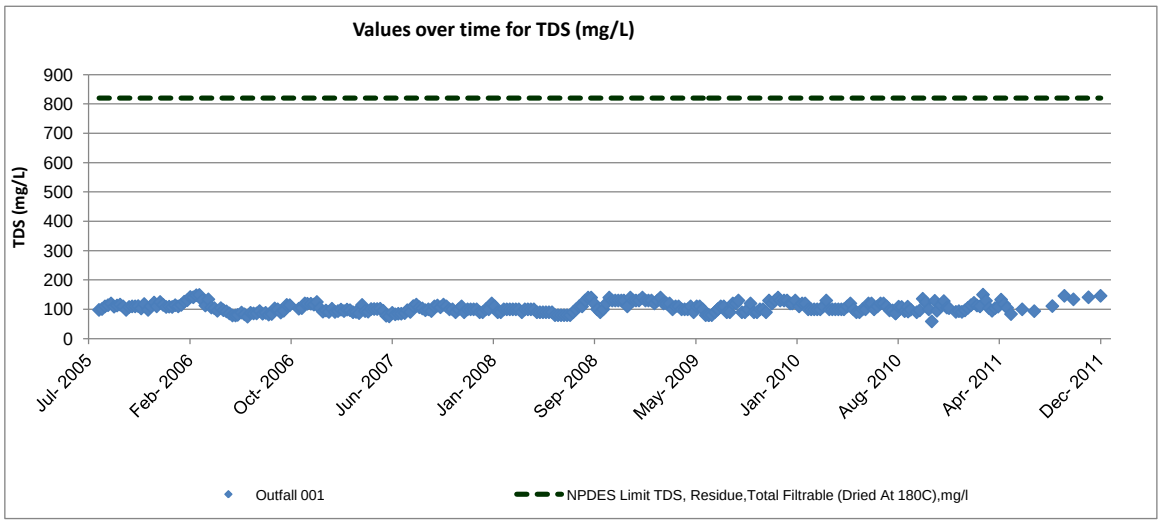

Values over time for Manganese, total (ug/L)
Manganese, total (ug/L)
80
70
60
50
40
30
20
10
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Manganese, Total (ug/l as Mn)

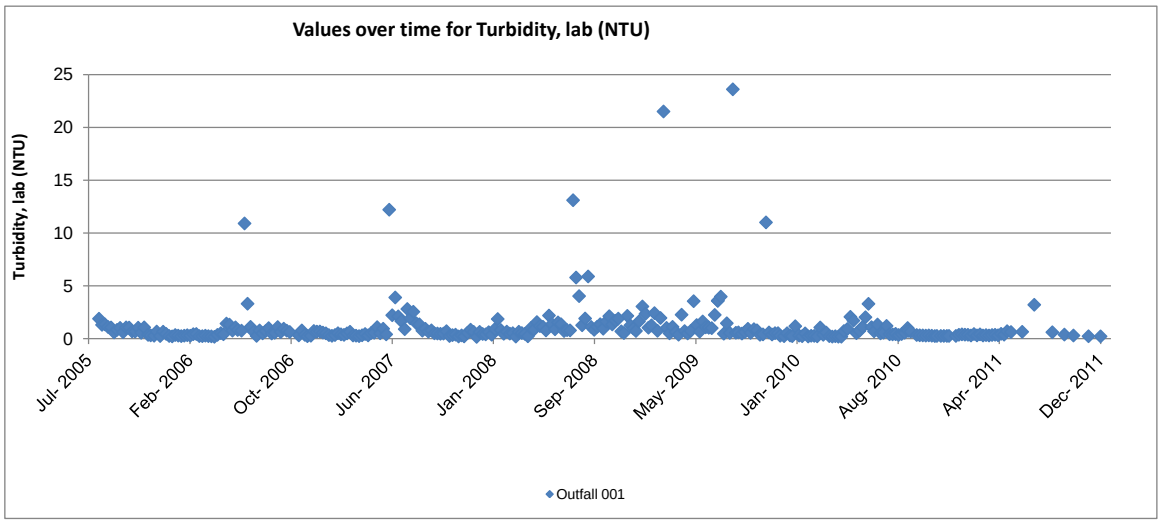

Values over time for Mercury, total (ug/L)
Mercury, total (ug/L)
0.025
0.02
0.015
0.01
0.005
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Mercury, Total (ug/l as Hg)

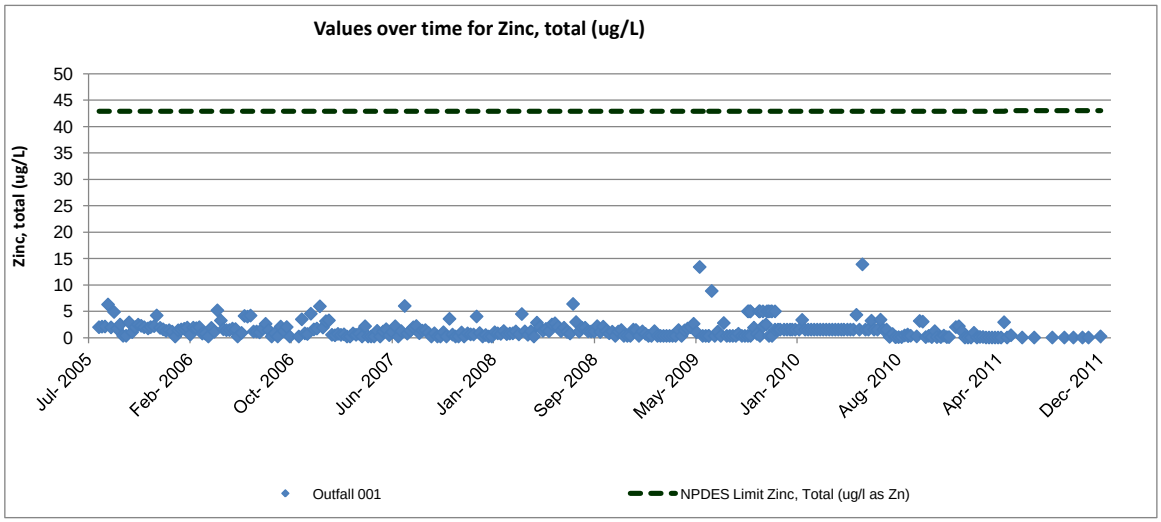

Values over time for Nickel, total (ug/L)
Nickel, total (ug/L)
6
5
4
3
2
1
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001

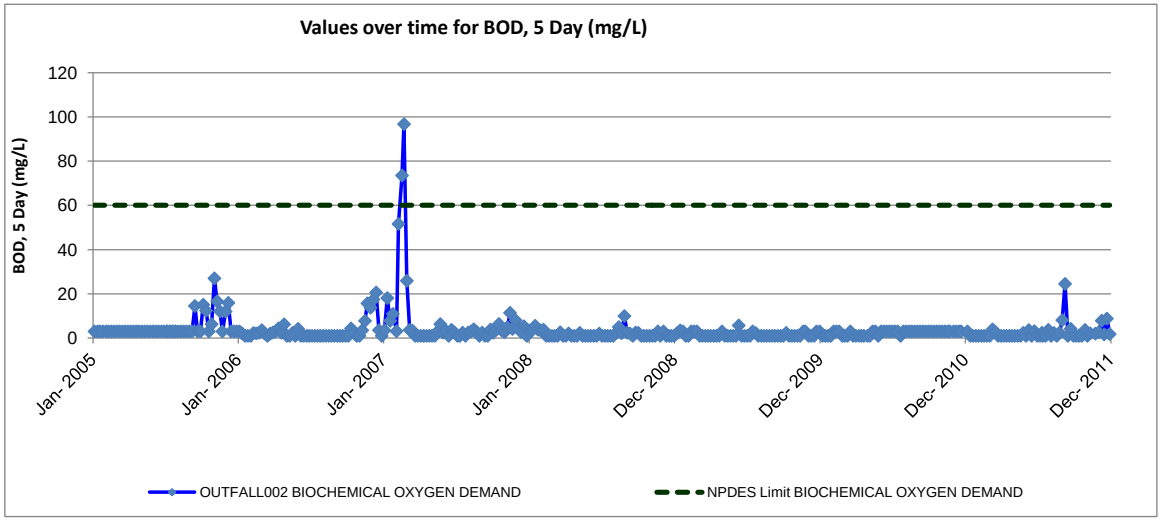

Values over time for pH, field (pH units)
pH, field (pH units)
10
9
8
7
6
5
4
3
2
1
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit pH, Field, Standard Units
NPDES Upper Limit pH, Field, Standard Units

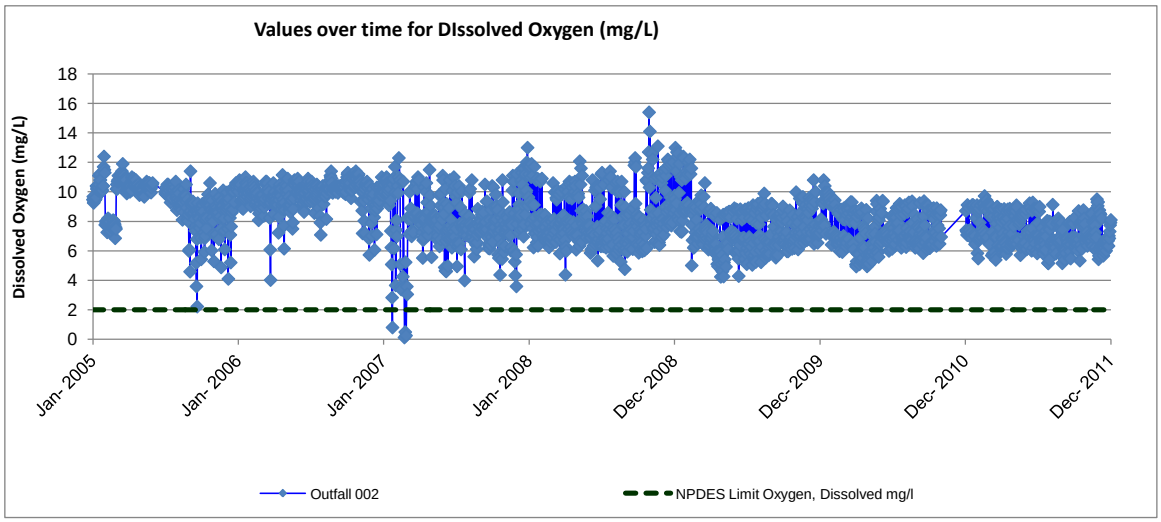

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
450
400
350
300
250
200
150
100
50
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Sulfate, Total (mg/l as SO4)

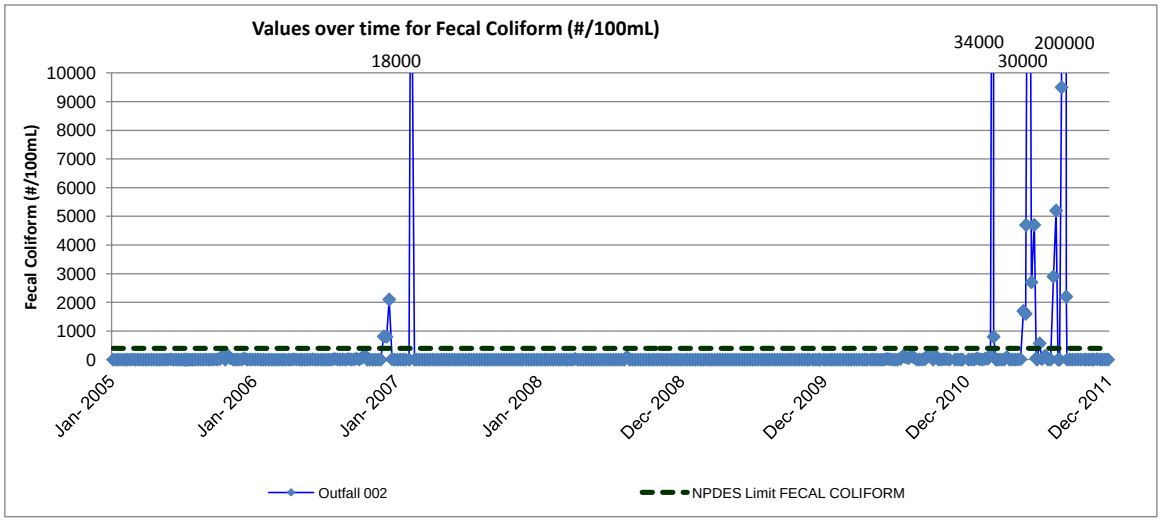

Values over time for TDS (mg/L)
TDS (mg/L)
900
800
700
600
500
400
300
200
100
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit TDS, Residue,Total Filtrable (Dried At 180C),mg/l

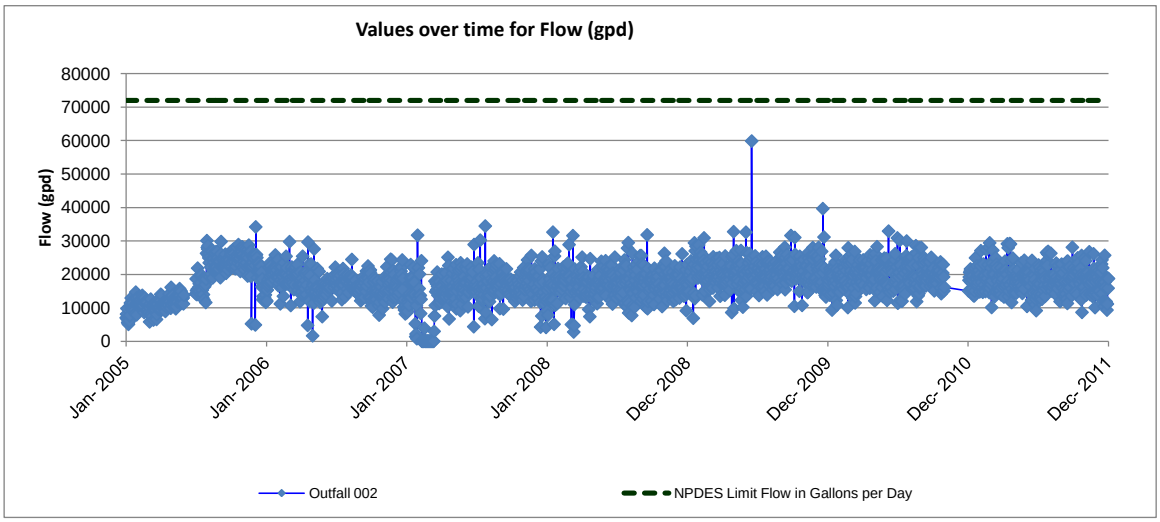

Values over time for Turbidity, lab (NTU)
Turbidity, lab (NTU)
25
20
15
10
5
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001

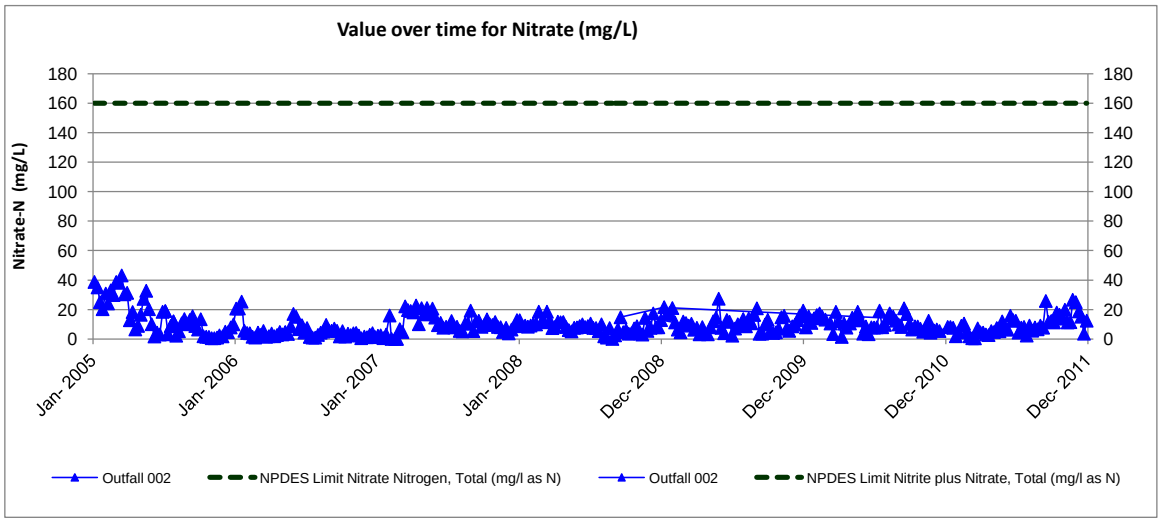

Values over time for Zinc, total (ug/L)
Zinc, total (ug/L)
50
45
40
35
30
25
20
15
10
5
0
Jul- 2005
Feb- 2006
Oct- 2006
Jun- 2007
Jan- 2008
Sep- 2008
May- 2009
Jan- 2010
Aug- 2010
Apr- 2011
Dec- 2011
Outfall 001
NPDES Limit Zinc, Total (ug/l as Zn)

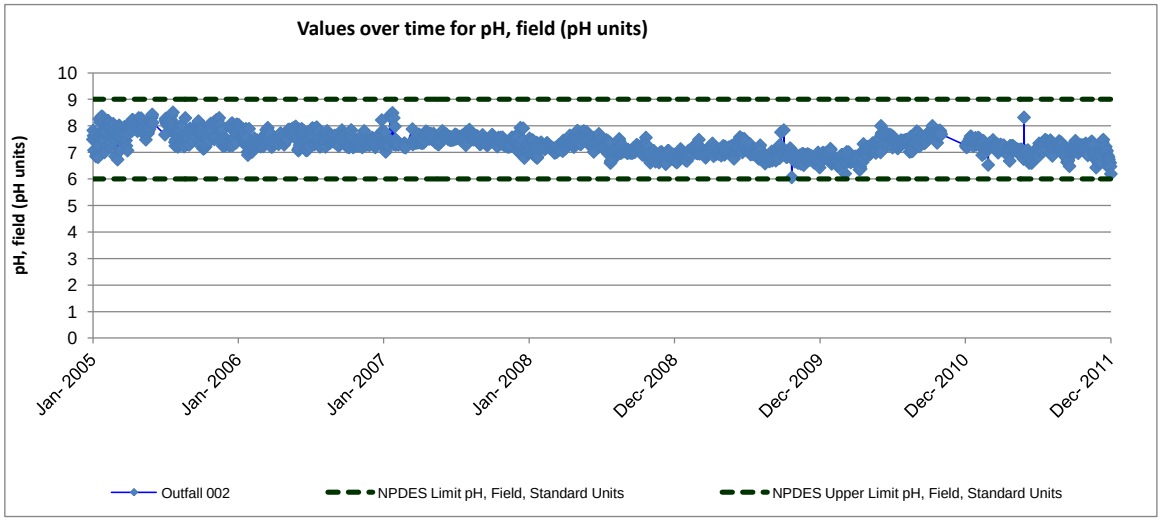

Values over time for BOD, 5 Day (mg/L)
BOD, 5 Day (mg/L)
120
100
80
60
40
20
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
OUTFALL002 BIOCHEMICAL OXYGEN DEMAND
NPDES Limit BIOCHEMICAL OXYGEN DEMAND

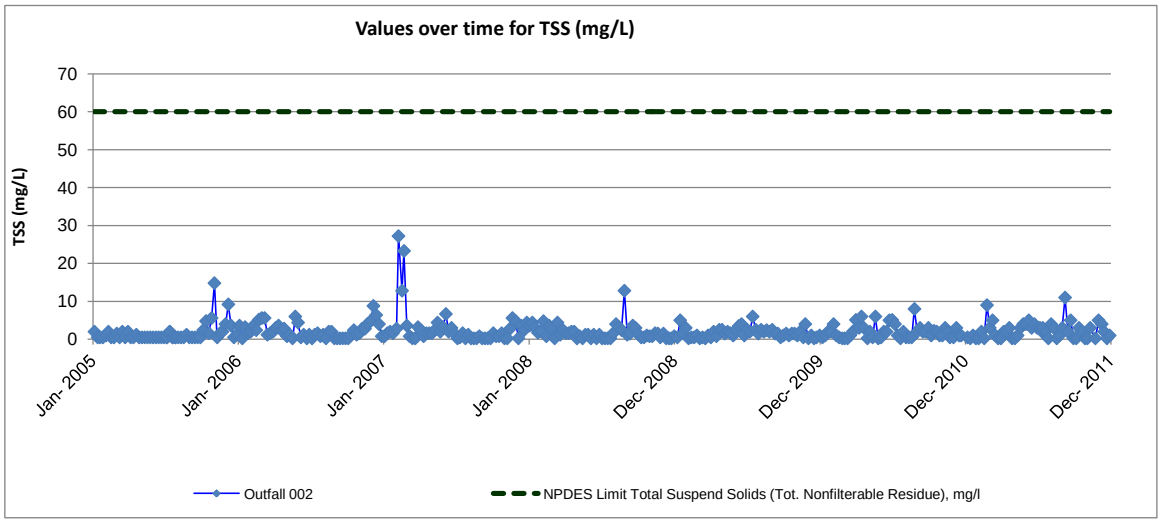

Values over time for DIssolved Oxygen (mg/L)
Dissolved Oxygen (mg/L)
18
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
Outfall 002
NPDES Limit Oxygen, Dissolved mg/l

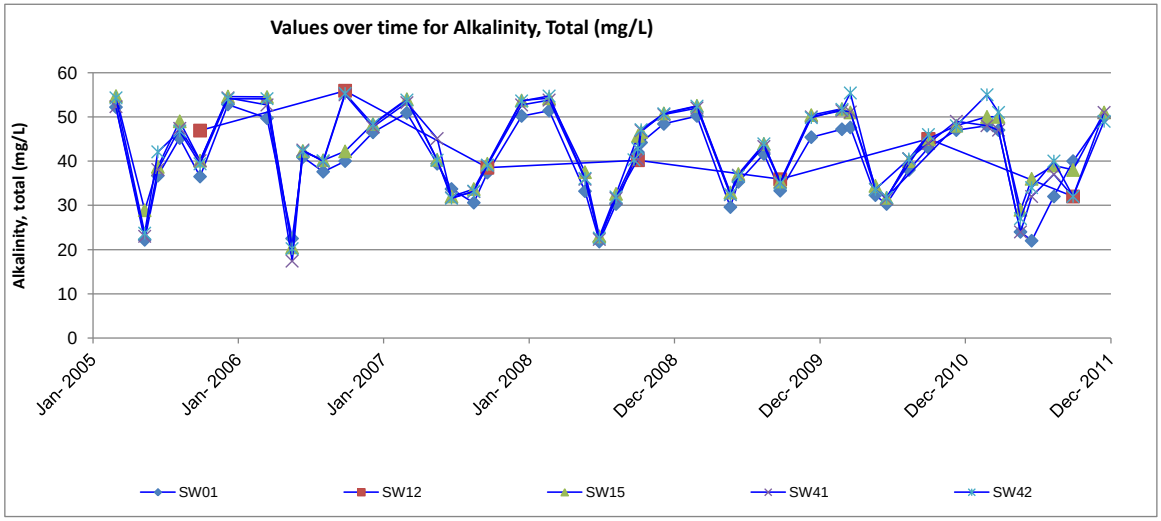

Values over time for Fecal Coliform (#/100mL)
Fecal Coliform (#/100mL)
18000
34000
30000
200000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
Outfall 002
NPDES Limit FECAL COLIFORM

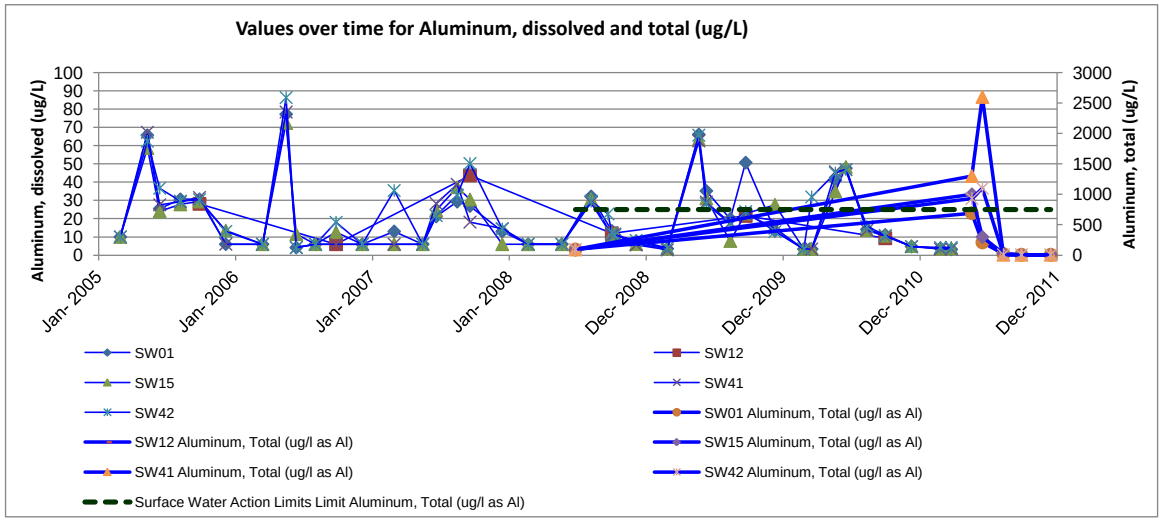

Values over time for Flow (gpd)
Flow (gpd)
80000
70000
60000
50000
40000
30000
20000
10000
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
Outfall 002
NPDES Limit Flow in Gallons per Day

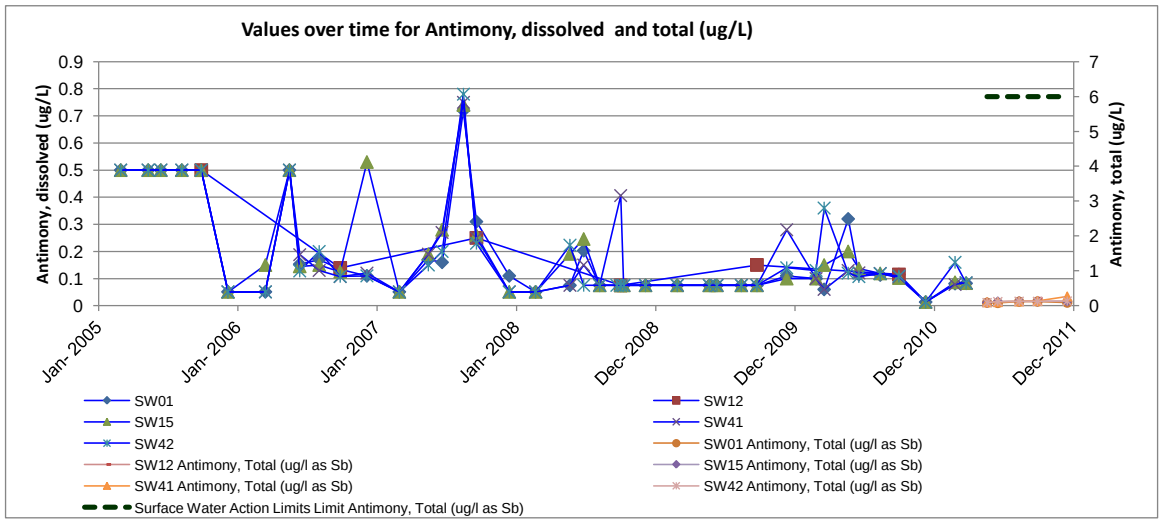

Value over time for Nitrate (mg/L)
Nitrate-N (mg/L)
180
160
140
120
100
80
60
40
20
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
Outfall 002
NPDES Limit Nitrate Nitrogen, Total (mg/l as N)
Outfall 002
NPDES Limit Nitrite plus Nitrate, Total (mg/l as N)

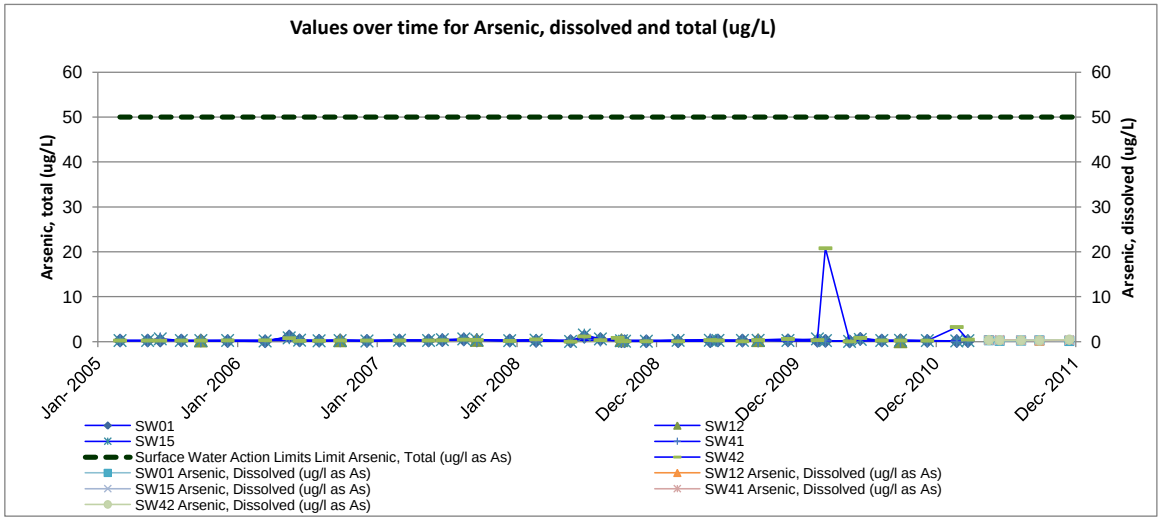

Values over time for pH, field (pH units)
pH, field (pH units)
10
9
8
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
Outfall 002
NPDES Limit pH, Field, Standard Units
NPDES Upper Limit pH, Field, Standard Units

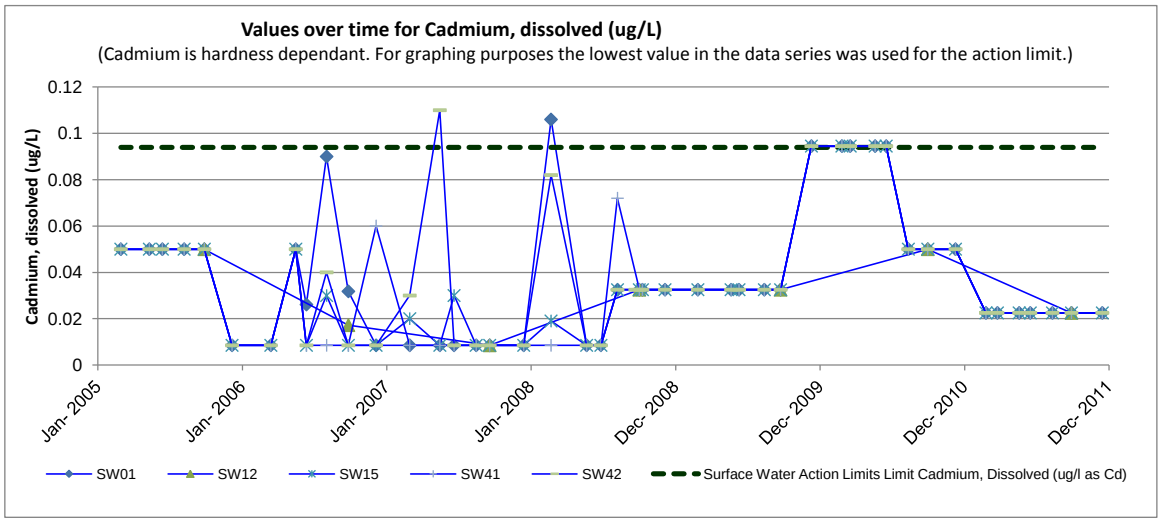

Values over time for TSS (mg/L)
TSS (mg/L)
70
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
Outfall 002
NPDES Limit Total Suspend Solids (Tot. Nonfilterable Residue), mg/l

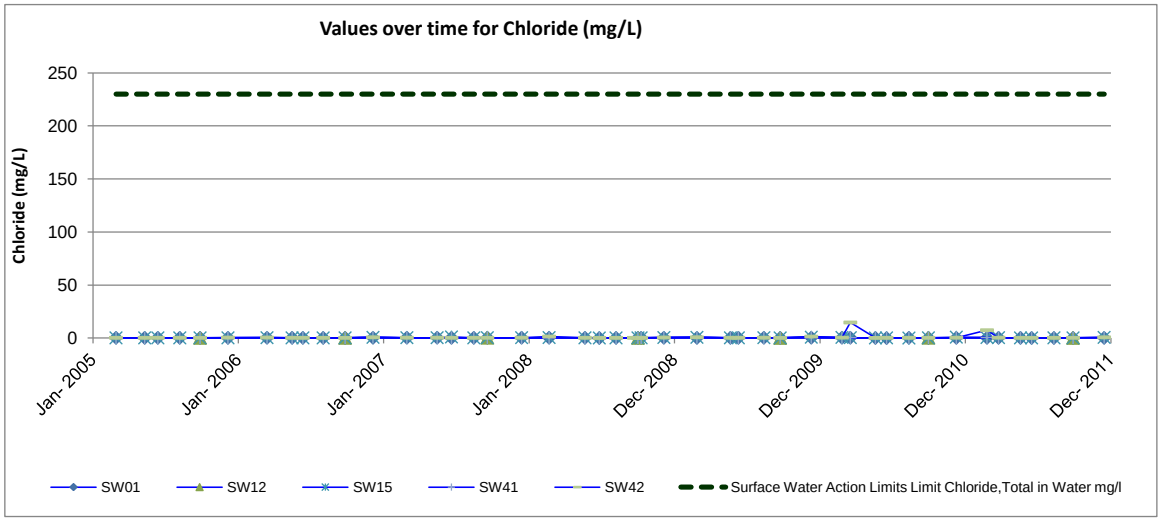

Values over time for Alkalinity, Total (mg/L)
Alkalinity, total (mg/L)
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

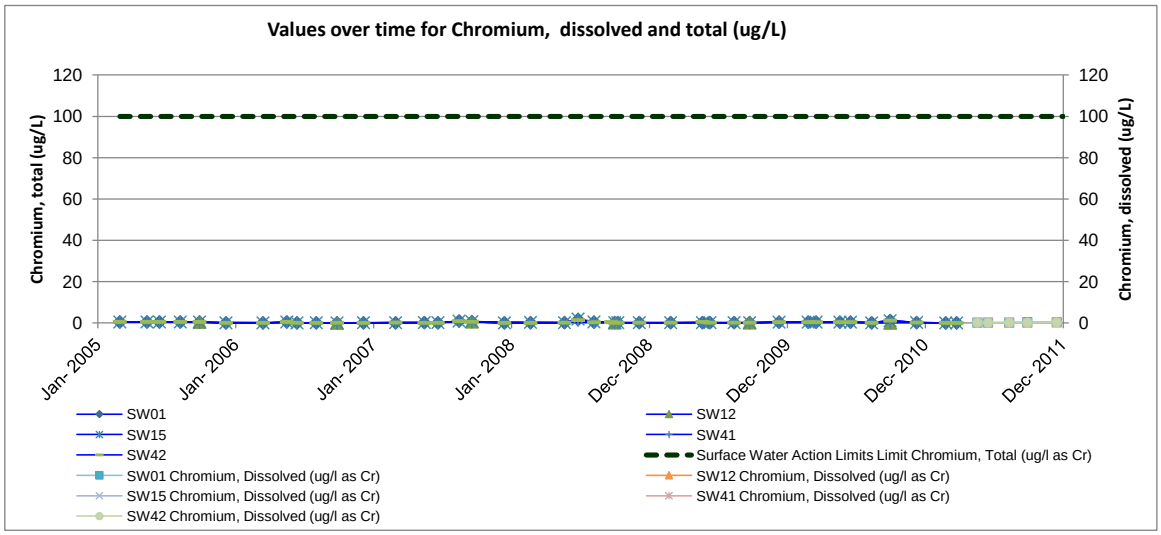

Values over time for Aluminum, dissolved and total (ug/L)
Aluminum, dissolved (ug/L)
Aluminum, total (ug/L)
100
90
80
70
60
50
40
30
20
10
0
3000
2500
2000
1500
1000
500
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
SW01 Aluminum, Total (ug/l as Al)
SW12 Aluminum, Total (ug/l as Al)
SW15 Aluminum, Total (ug/l as Al)
SW41 Aluminum, Total (ug/l as Al)
SW42 Aluminum, Total (ug/l as Al)
Surface Water Action Limits Limit Aluminum, Total (ug/l as Al)

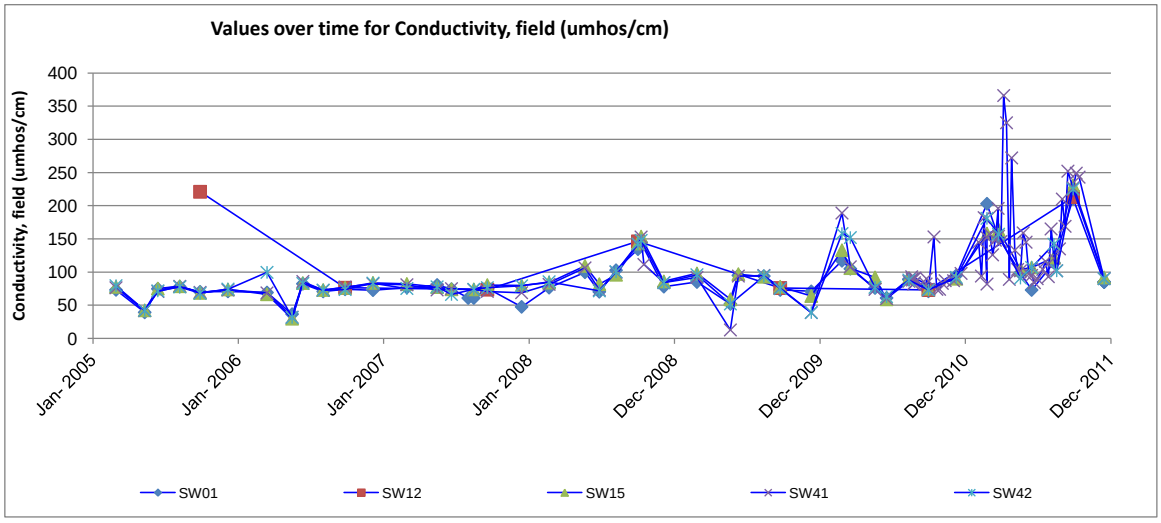

Values over time for Antimony, dissolved and total (ug/L)
Antimony, dissolved (ug/L)
Antimony, total (ug/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
SW01 Antimony, Total (ug/l as Sb)
SW12 Antimony, Total (ug/l as Sb)
SW15 Antimony, Total (ug/l as Sb)
SW41 Antimony, Total (ug/l as Sb)
SW42 Antimony, Total (ug/l as Sb)
Surface Water Action Limits Limit Antimony, Total (ug/l as Sb)

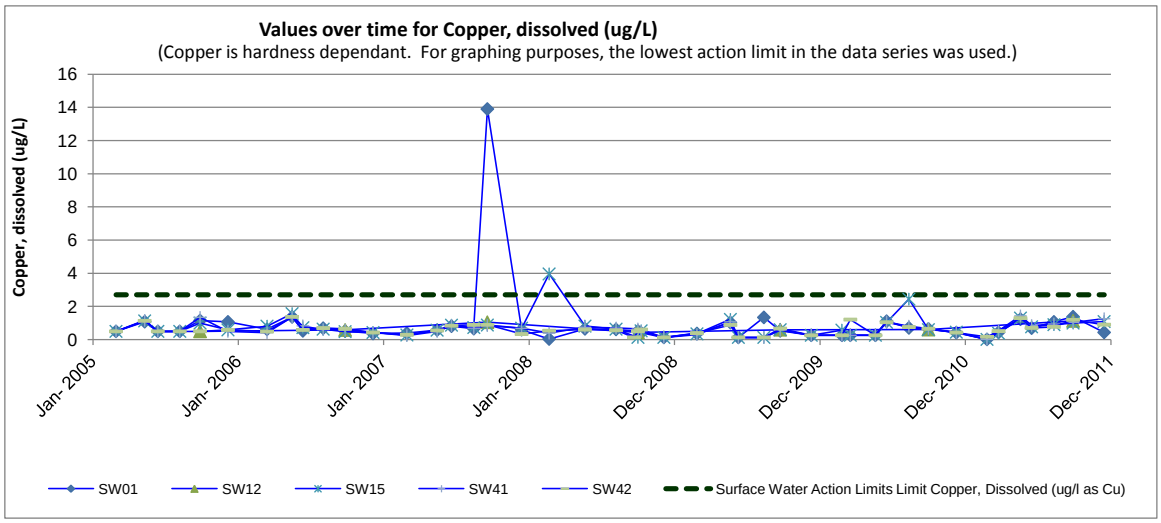

Values over time for Arsenic, dissolved and total (ug/L)
Arsenic, total (ug/L)
Arsenic, dissolved (ug/L)
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
Surface Water Action Limits Limit Arsenic, Total (ug/l as As)
SW42
SW01 Arsenic, Dissolved (ug/l as As)
SW12 Arsenic, Dissolved (ug/l as As)
SW15 Arsenic, Dissolved (ug/l as As)
SW41 Arsenic, Dissolved (ug/l as As)
SW42 Arsenic, Dissolved (ug/l as As)

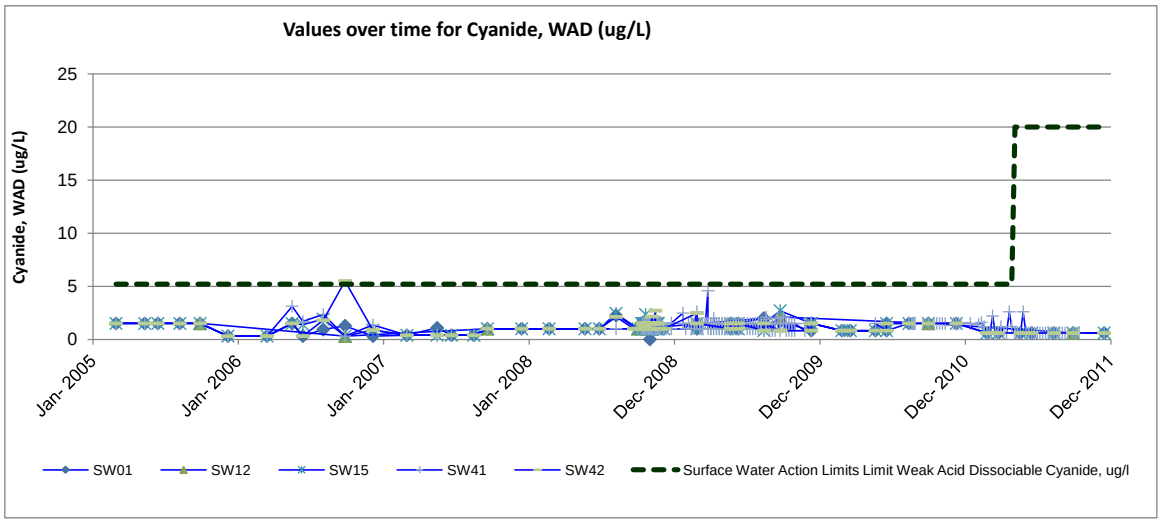

Values over time for Cadmium, dissolved (ug/L)
(Cadmium is hardness dependant. For graphing purposes the lowest value in the data series was used for the action limit.)
Cadmium, dissolved (ug/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Cadmium, Dissolved (ug/l as Cd)

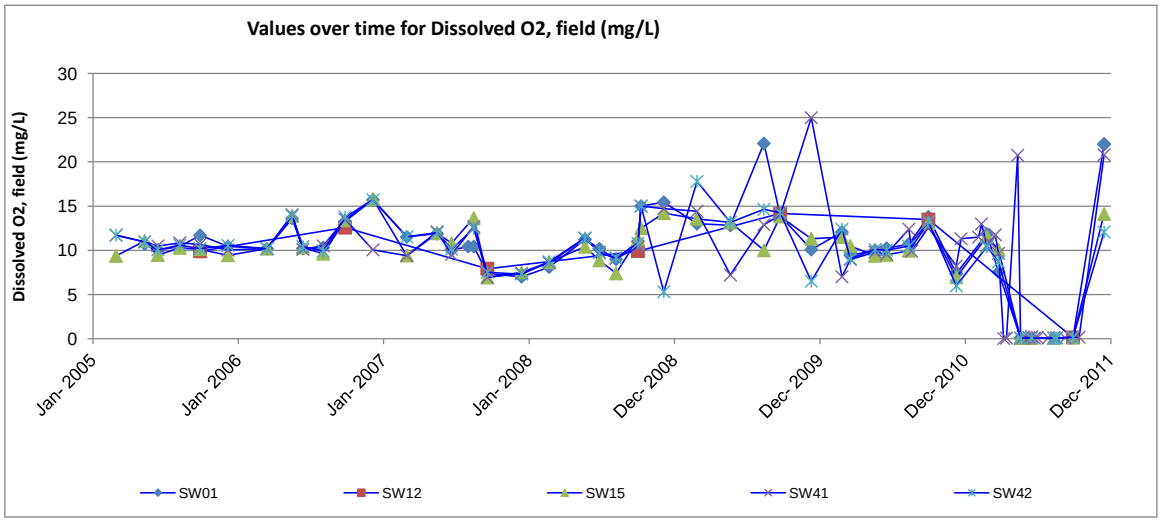

Values over time for Chloride (mg/L)
Chloride (mg/L)
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Chloride,Total in Water mg/l

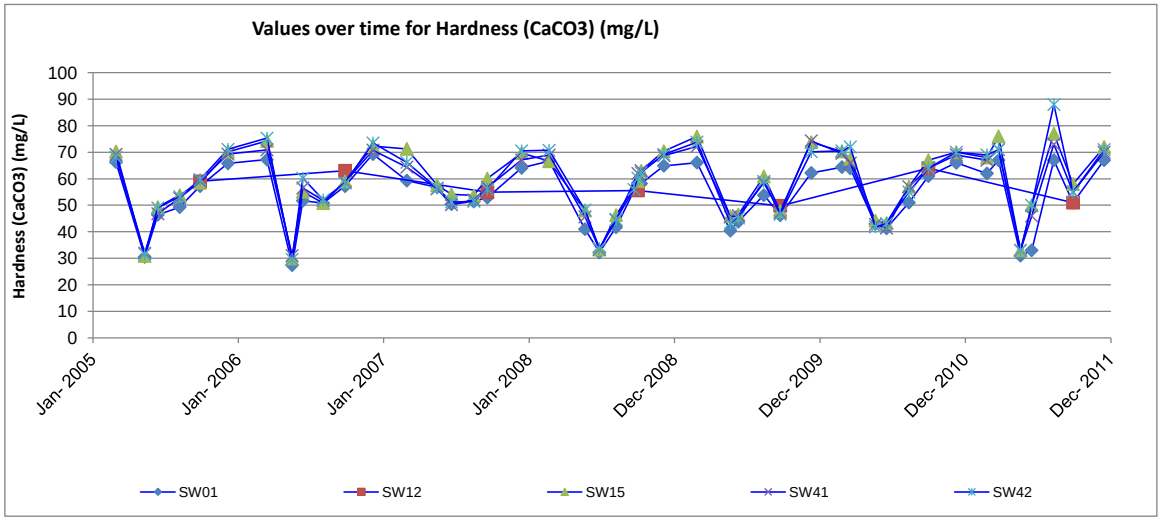

Values over time for Chromium, dissolved and total (ug/L)
Chromium, total (ug/L)
Chromium, dissolved (ug/L)
120
100
80
60
40
20
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Chromium, Total (ug/l as Cr)
SW01 Chromium, Dissolved (ug/l as Cr)
SW12 Chromium, Dissolved (ug/l as Cr)
SW15 Chromium, Dissolved (ug/l as Cr)
SW41 Chromium, Dissolved (ug/l as Cr)
SW42 Chromium, Dissolved (ug/l as Cr)

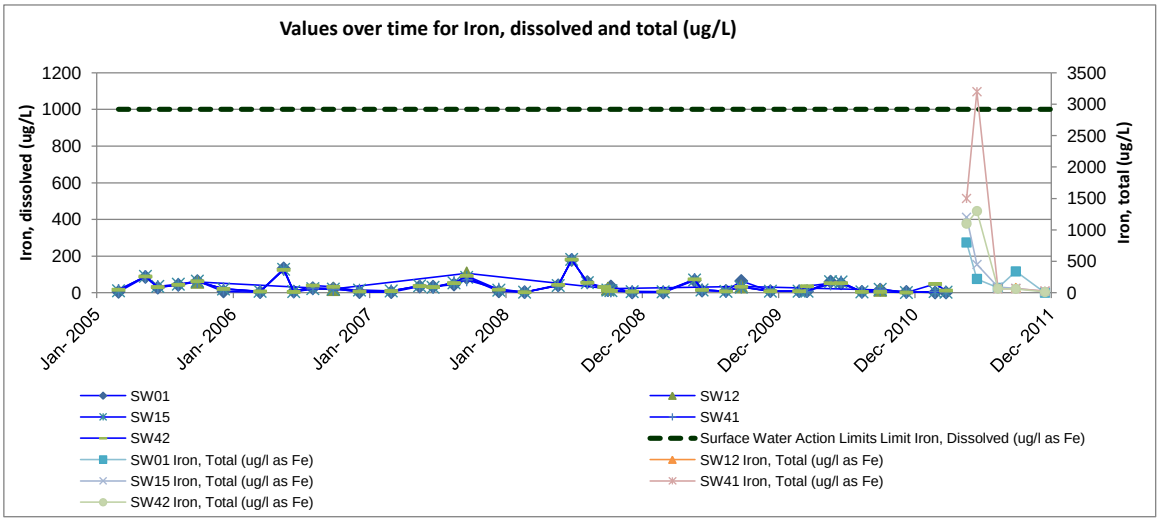

Values over time for Conductivity, field (umhos/cm)
Conductivity, field (umhos/cm)
400
350
300
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

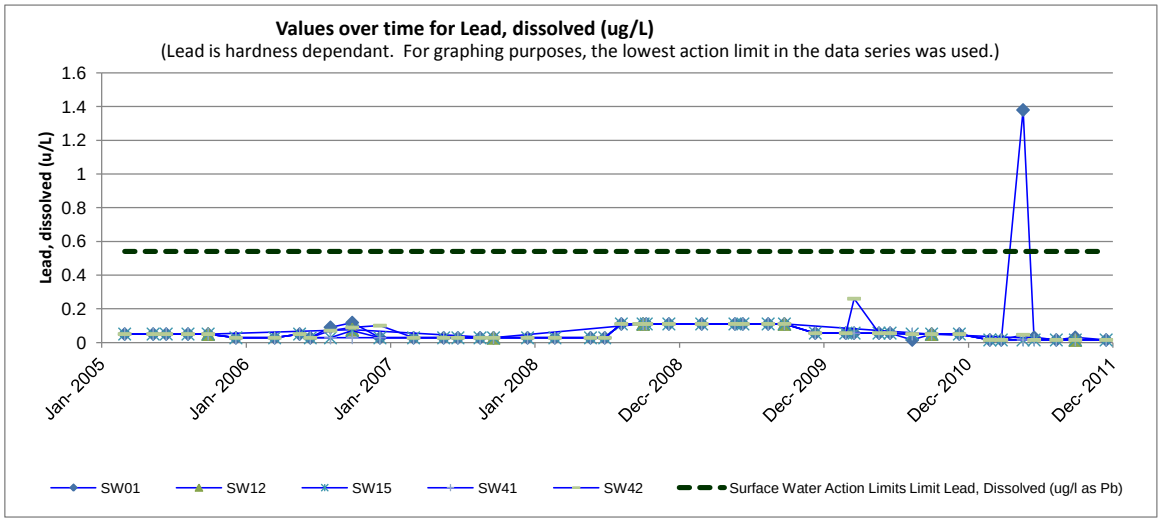

Values over time for Copper, dissolved (ug/L)
(Copper is hardness dependant. For graphing purposes, the lowest action limit in the data series was used.)
Copper, dissolved (ug/L)
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Copper, Dissolved (ug/l as Cu)

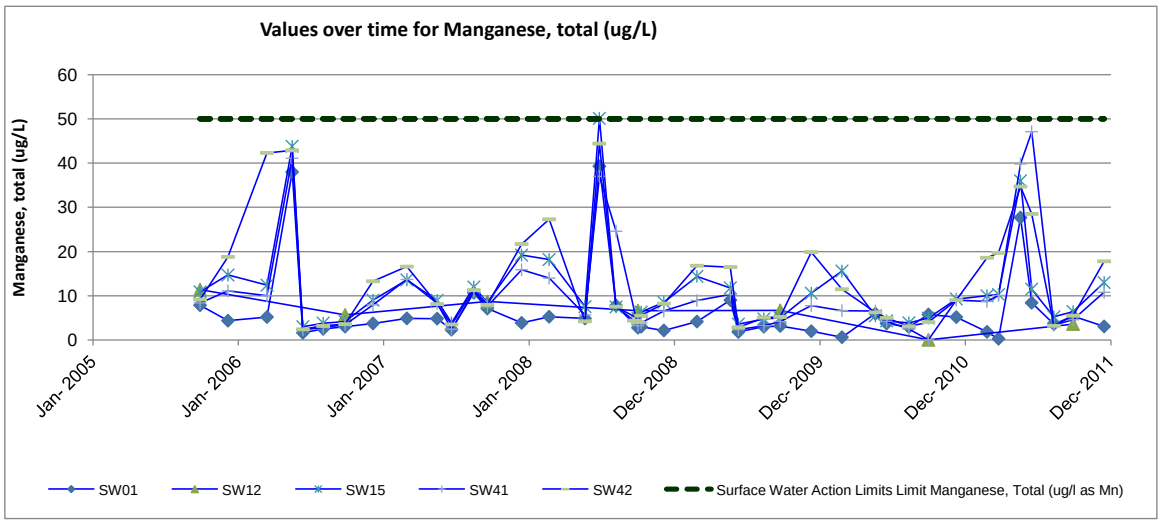

Values over time for Cyanide, WAD (ug/L)
Cyanide, WAD (ug/L)
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Weak Acid Dissociable Cyanide, ug/l

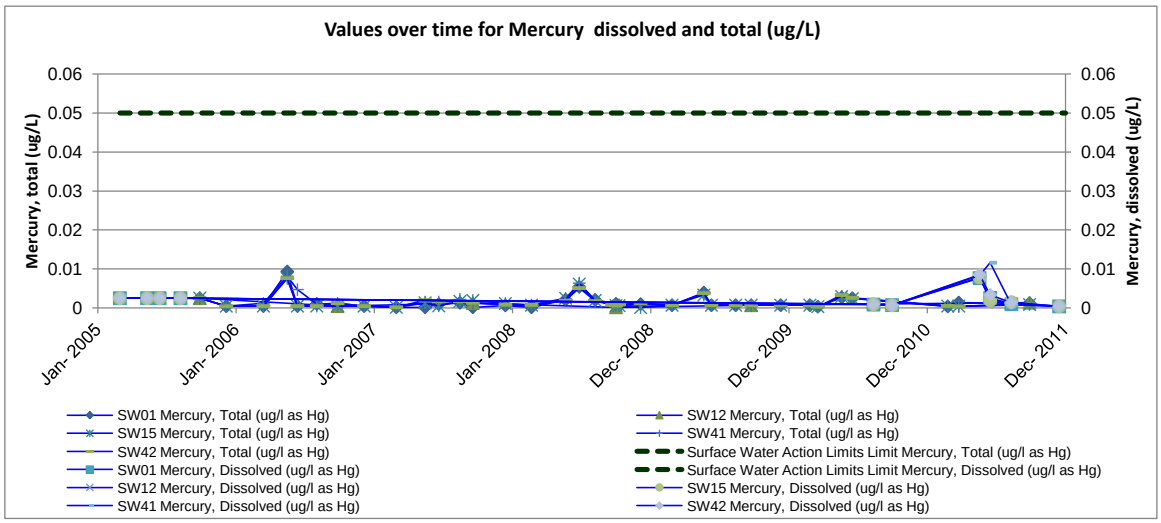

Values over time for Dissolved O2, field (mg/L)
Dissolved O2, field (mg/L)
30
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

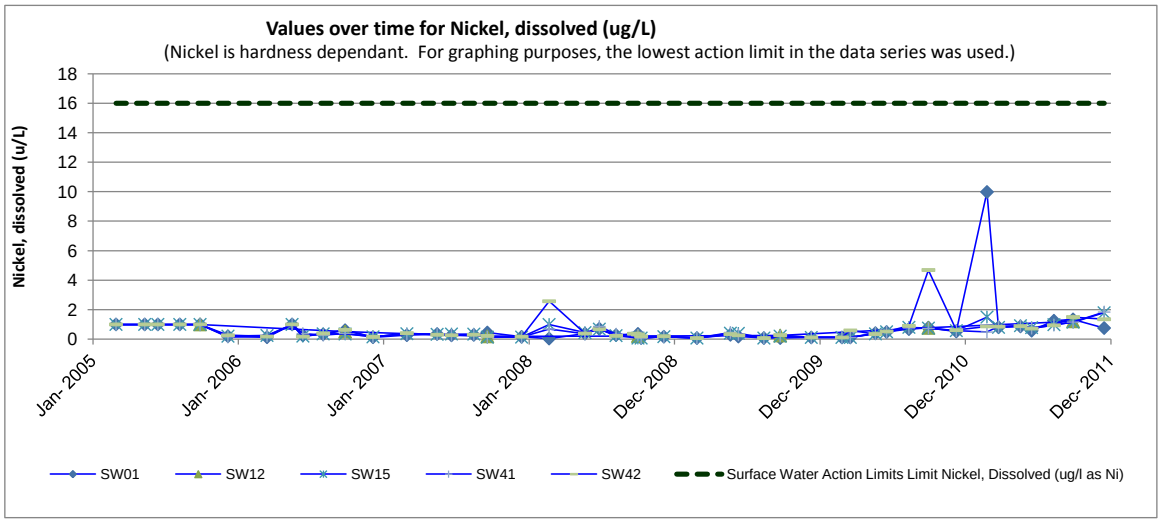

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3) (mg/L)
100
90
80
70
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

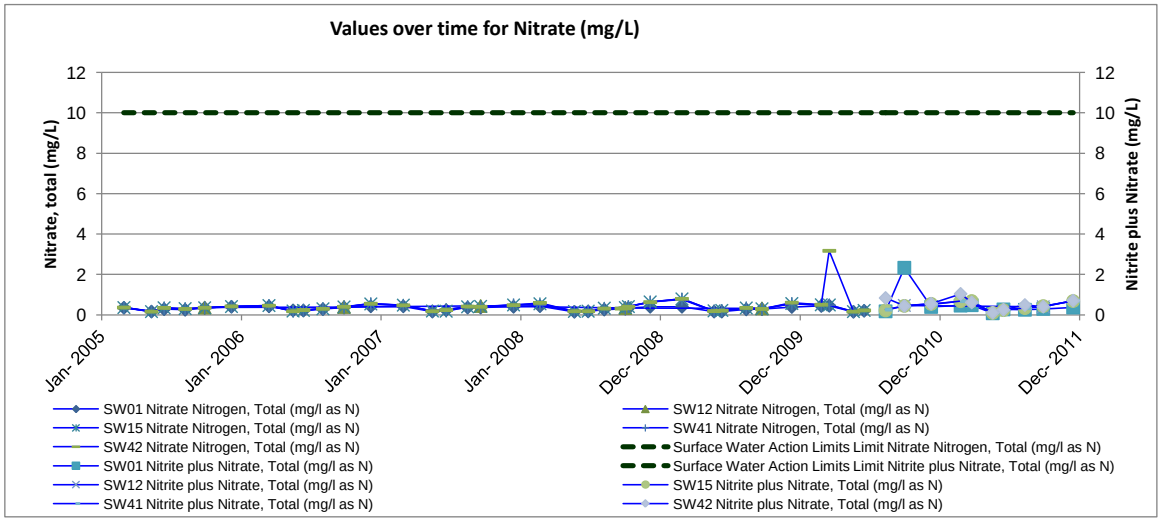

Values over time for Iron, dissolved and total (ug/L)
Iron, dissolved (ug/L)
Iron, total (ug/L)
1200
1000
800
600
400
200
0
3500
3000
2500
2000
1500
1000
500
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Iron, Dissolved (ug/l as Fe)
SW01 Iron, Total (ug/l as Fe)
SW12 Iron, Total (ug/l as Fe)
SW15 Iron, Total (ug/l as Fe)
SW41 Iron, Total (ug/l as Fe)
SW42 Iron, Total (ug/l as Fe)

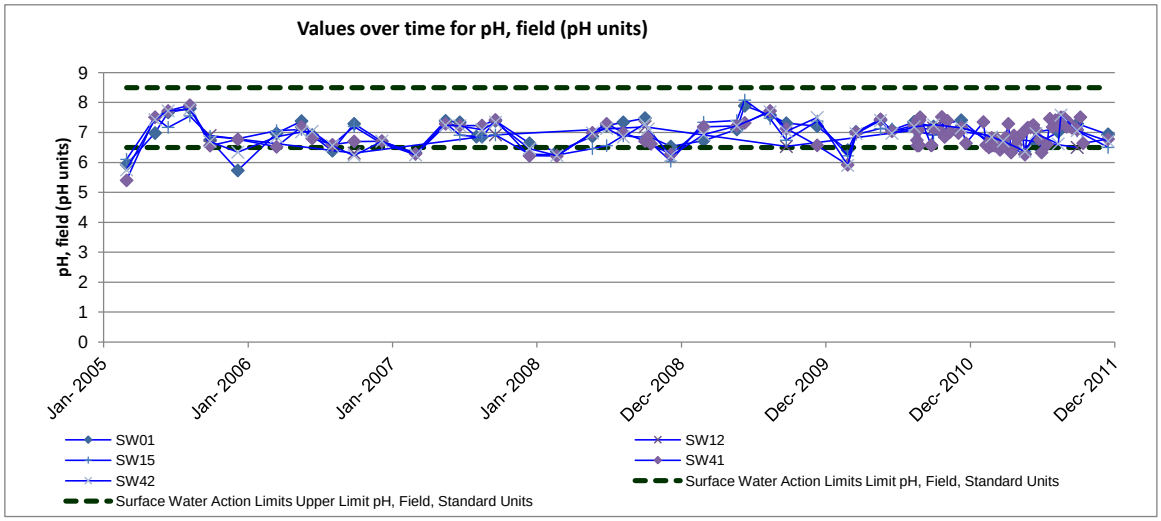

Values over time for Lead, dissolved (ug/L)
(Lead is hardness dependant. For graphing purposes, the lowest action limit in the data series was used.)
Lead, dissolved (u/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Lead, Dissolved (ug/l as Pb)

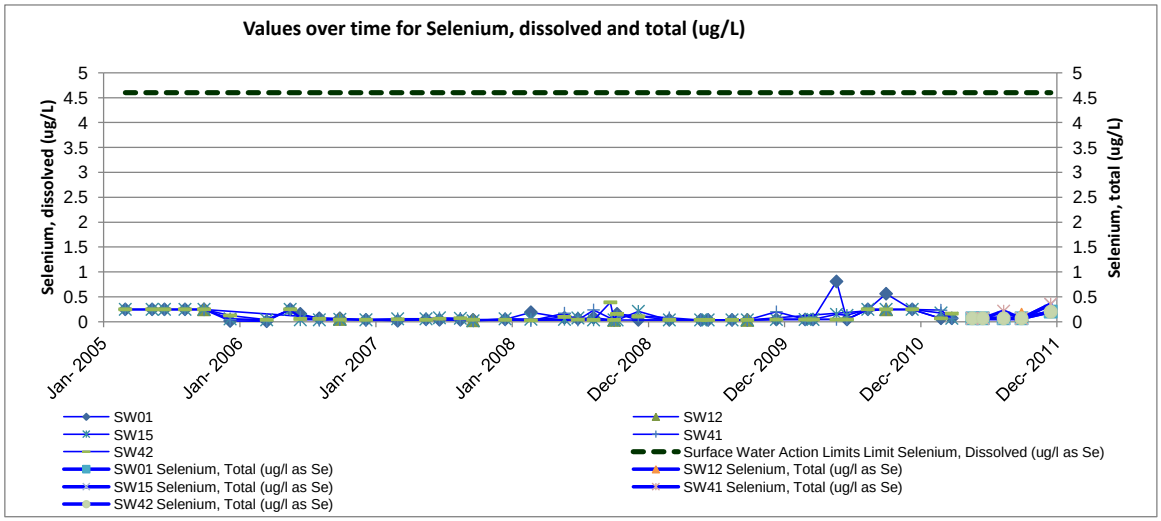

Values over time for Manganese, total (ug/L)
Manganese, total (ug/L)
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Manganese, Total (ug/l as Mn)

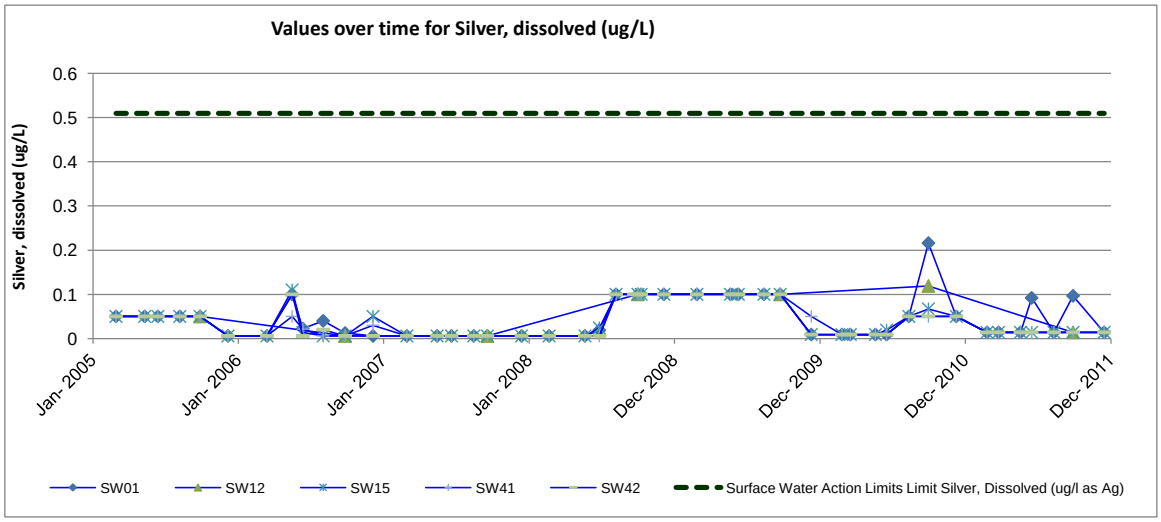

Values over time for Mercury dissolved and total (ug/L)
Mercury, total (ug/L)
Mercury, dissolved (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01 Mercury, Total (ug/l as Hg)
SW12 Mercury, Total (ug/l as Hg)
SW15 Mercury, Total (ug/l as Hg)
SW41 Mercury, Total (ug/l as Hg)
SW42 Mercury, Total (ug/l as Hg)
Surface Water Action Limits Limit Mercury, Total (ug/l as Hg)
SW01 Mercury, Dissolved (ug/l as Hg)
Surface Water Action Limits Limit Mercury, Dissolved (ug/l as Hg)
SW12 Mercury, Dissolved (ug/l as Hg)
SW15 Mercury, Dissolved (ug/l as Hg)
SW41 Mercury, Dissolved (ug/l as Hg)
SW42 Mercury, Dissolved (ug/l as Hg)

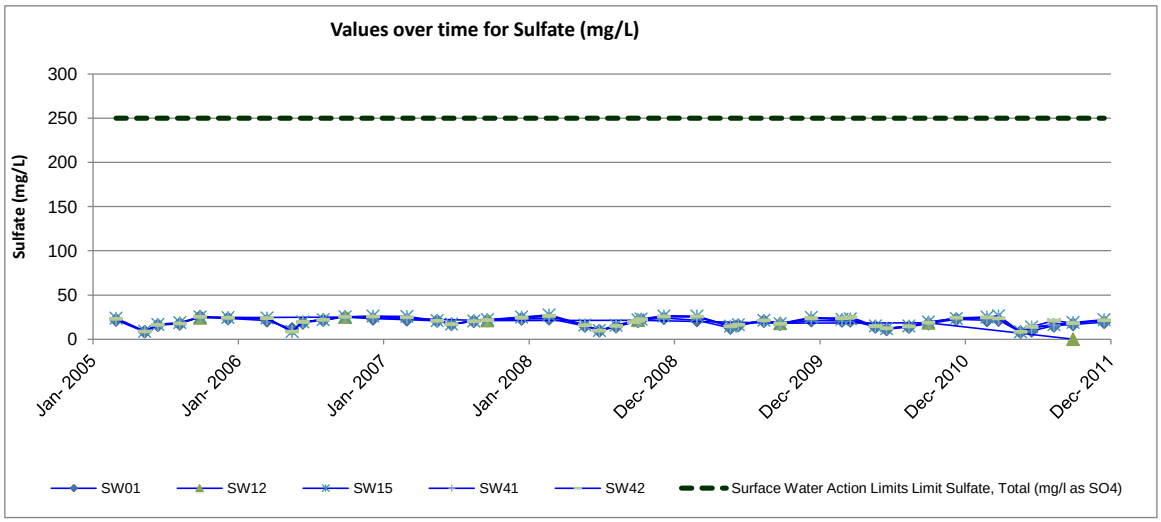

Values over time for Nickel, dissolved (ug/L)
(Nickel is hardness dependant. For graphing purposes, the lowest action limit in the data series was used.)
Nickel, dissolved (u/L)
18
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Nickel, Dissolved (ug/l as Ni)

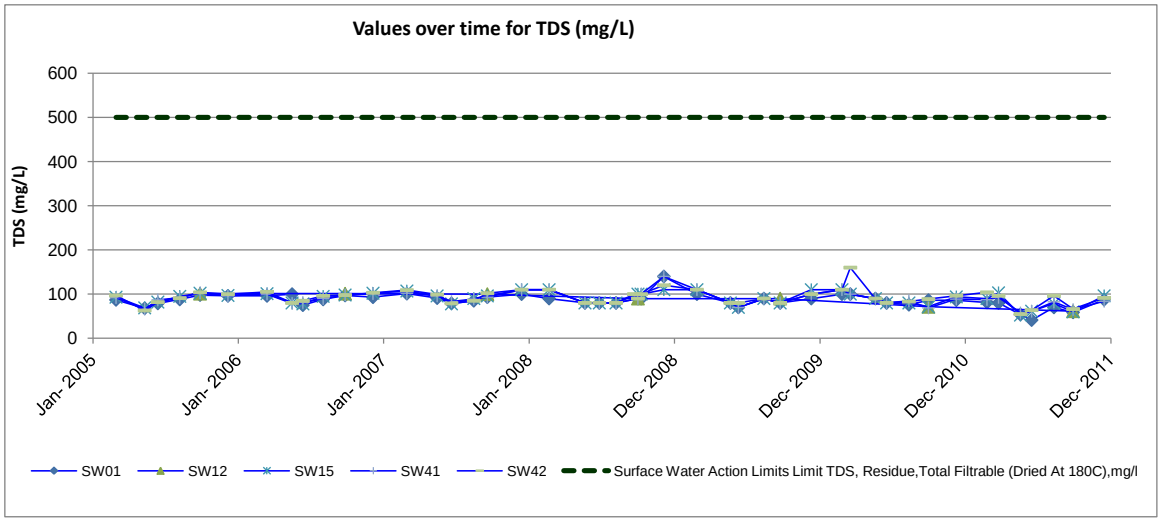

Values over time for Nitrate (mg/L)
Nitrate, total (mg/L)
Nitrite plus Nitrate (mg/L)
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01 Nitrate Nitrogen, Total (mg/l as N)
SW12 Nitrate Nitrogen, Total (mg/l as N)
SW15 Nitrate Nitrogen, Total (mg/l as N)
SW41 Nitrate Nitrogen, Total (mg/l as N)
SW42 Nitrate Nitrogen, Total (mg/l as N)
Surface Water Action Limits Limit Nitrate Nitrogen, Total (mg/l as N)
SW01 Nitrite plus Nitrate, Total (mg/l as N)
Surface Water Action Limits Limit Nitrite plus Nitrate, Total (mg/l as N)
SW12 Nitrite plus Nitrate, Total (mg/l as N)
SW15 Nitrite plus Nitrate, Total (mg/l as N)
SW41 Nitrite plus Nitrate, Total (mg/l as N)
SW42 Nitrite plus Nitrate, Total (mg/l as N)

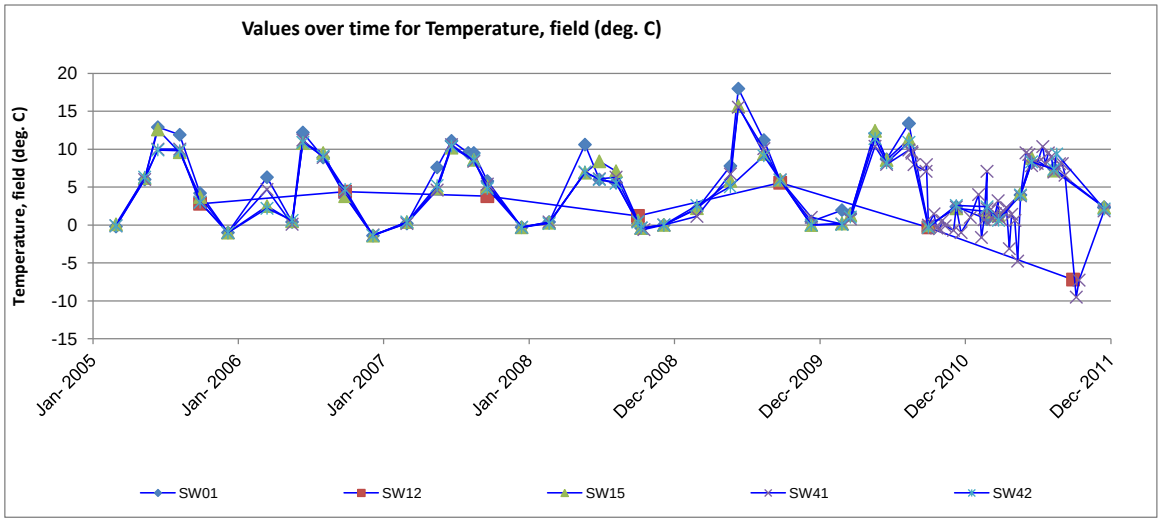

Values over time for pH, field (pH units)
pH, field (pH units)
9
8
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit pH, Field, Standard Units
Surface Water Action Limits Upper Limit pH, Field, Standard Units

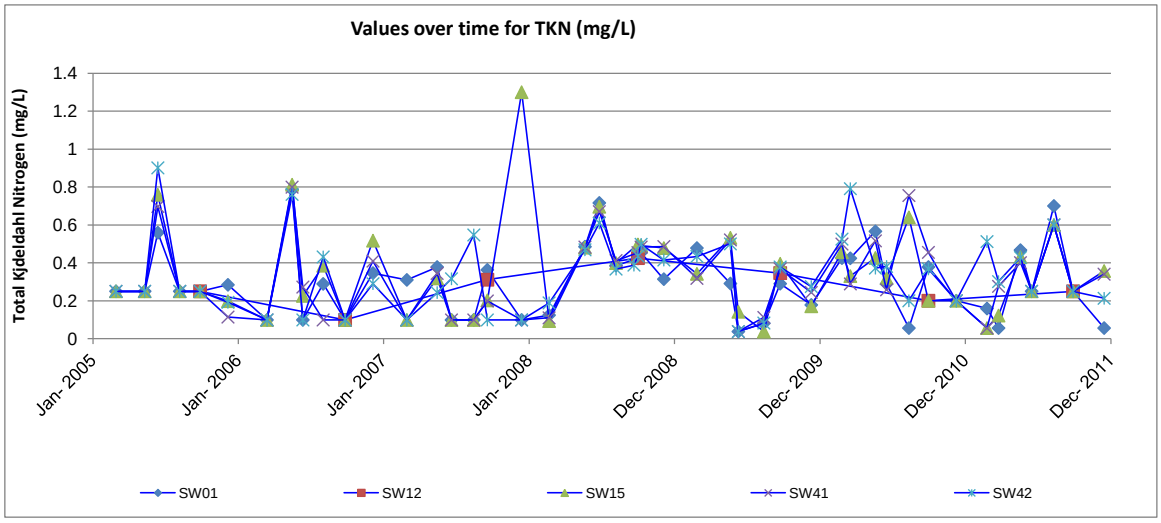

Values over time for Selenium, dissolved and total (ug/L)
Selenium, dissolved (ug/L)
Selenium, total (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Selenium, Dissolved (ug/l as Se)
SW01 Selenium, Total (ug/l as Se)
SW12 Selenium, Total (ug/l as Se)
SW15 Selenium, Total (ug/l as Se)
SW41 Selenium, Total (ug/l as Se)
SW42 Selenium, Total (ug/l as Se)

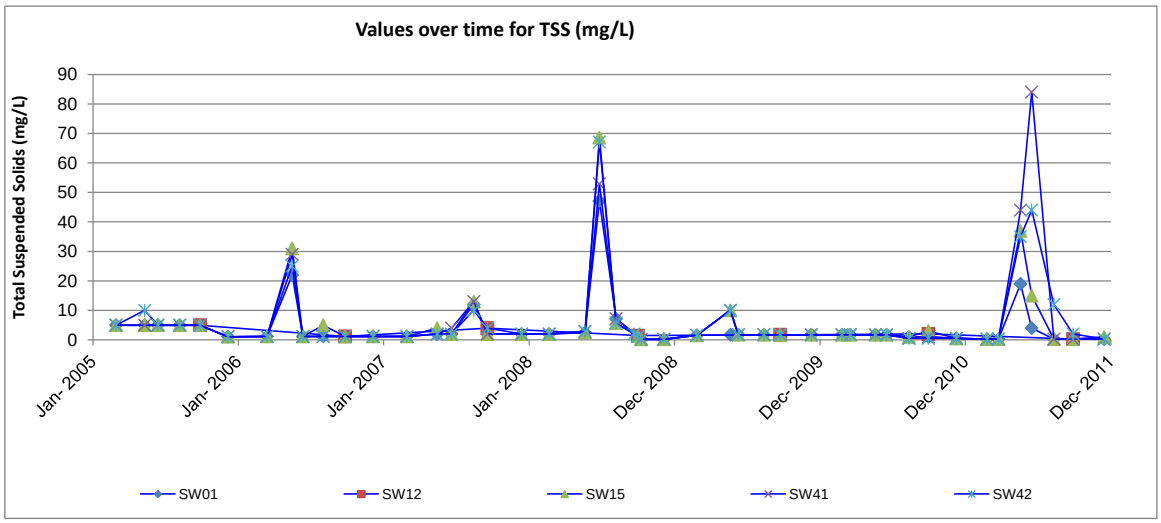

Values over time for Silver, dissolved (ug/L)
Silver, dissolved (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Silver, Dissolved (ug/l as Ag)

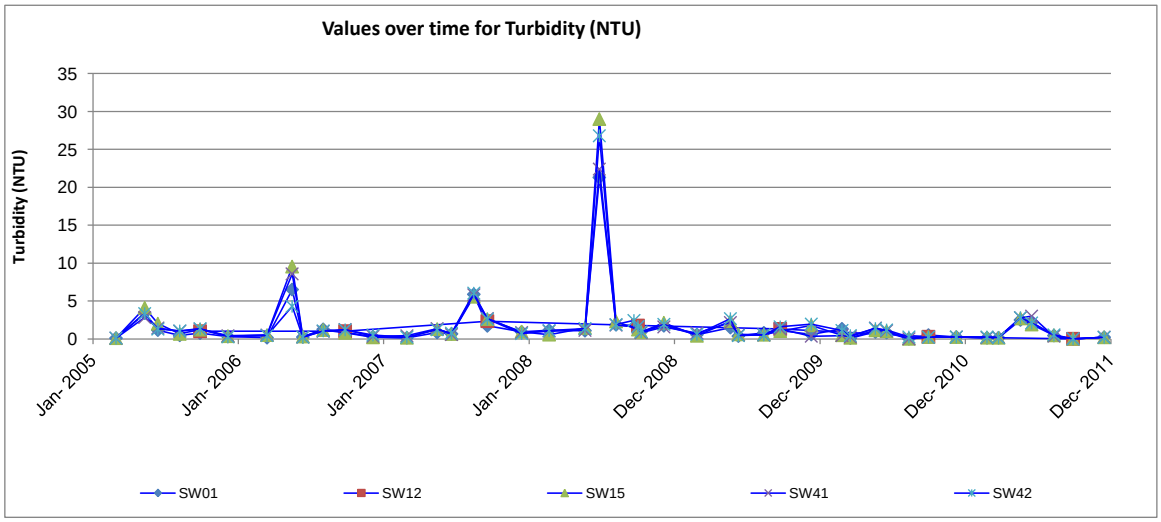

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
300
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Sulfate, Total (mg/l as SO4)

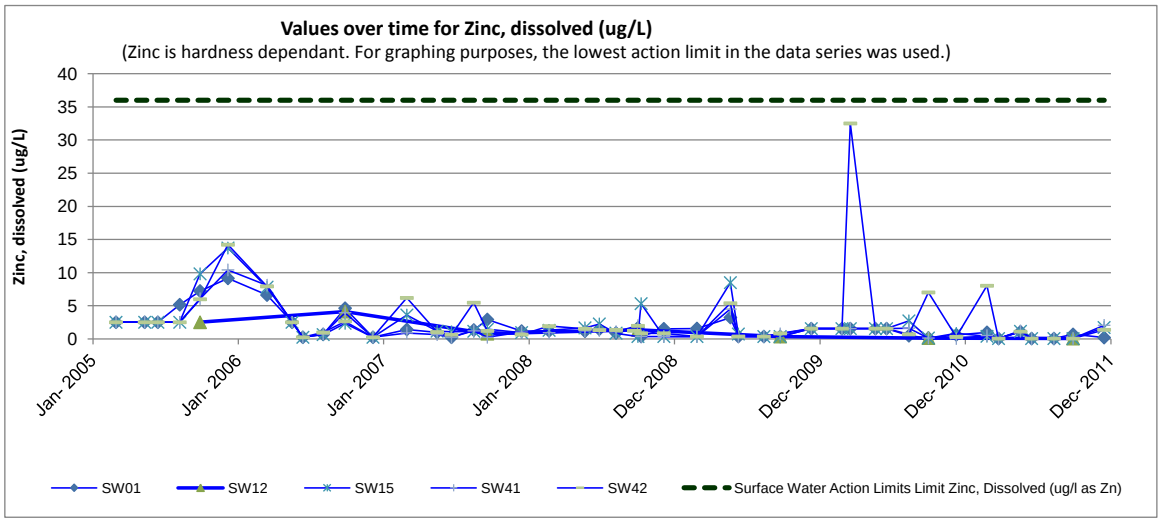

Values over time for TDS (mg/L)
TDS (mg/L)
600
500
400
300
200
100
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit TDS, Residue,Total Filtrable (Dried At 180C),mg/l

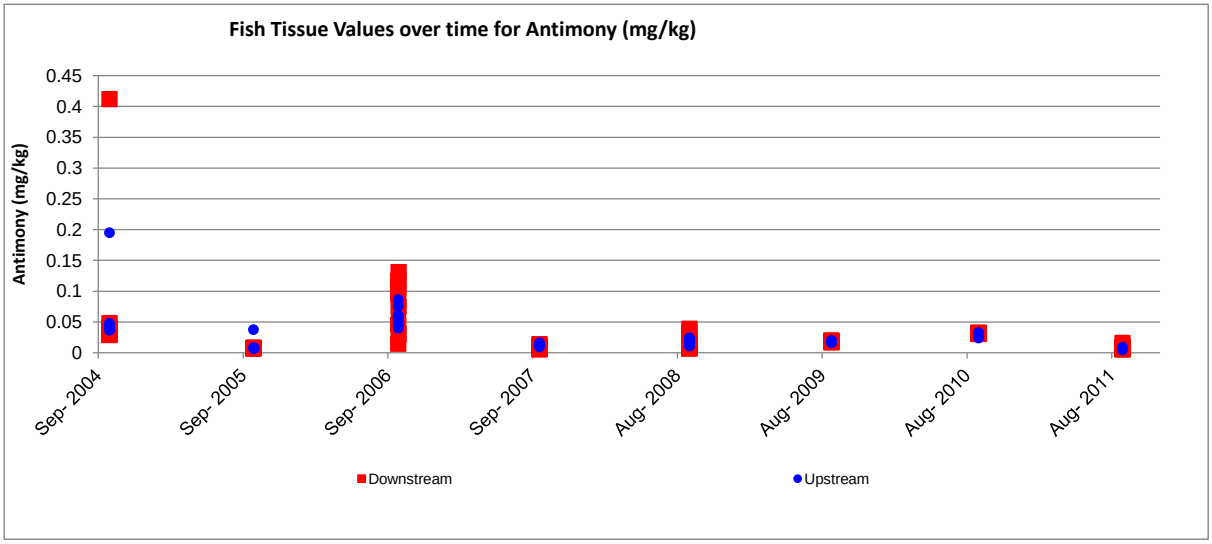

Values over time for Temperature, field (deg. C)
Temperature, field (deg. C)
20
15
10
5
0
-5
-10
-15
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

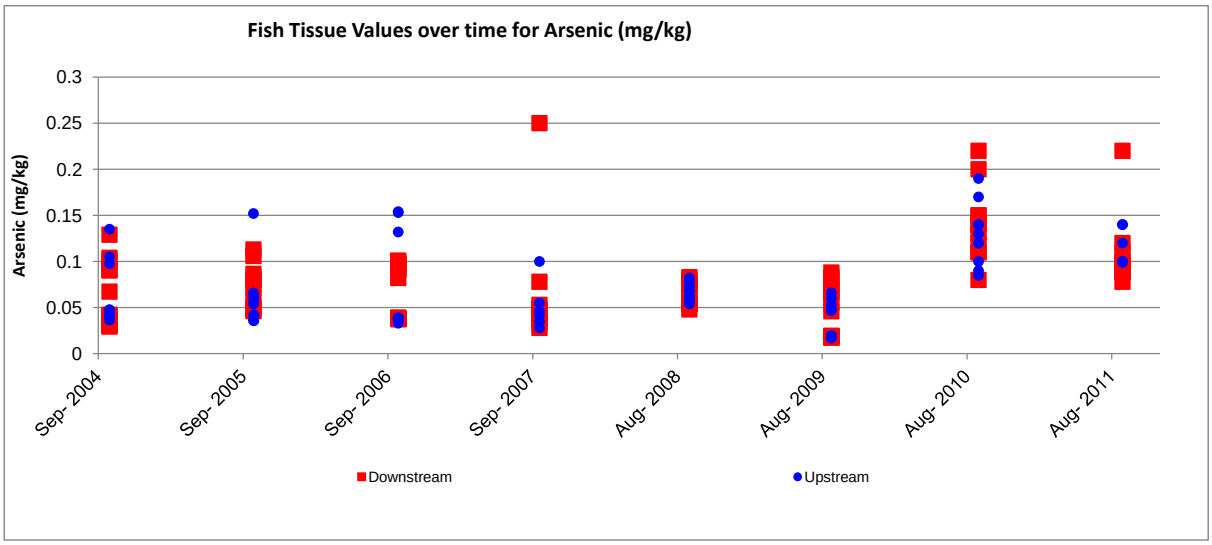

Values over time for TKN (mg/L)
Total Kjeldahl Nitrogen (mg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

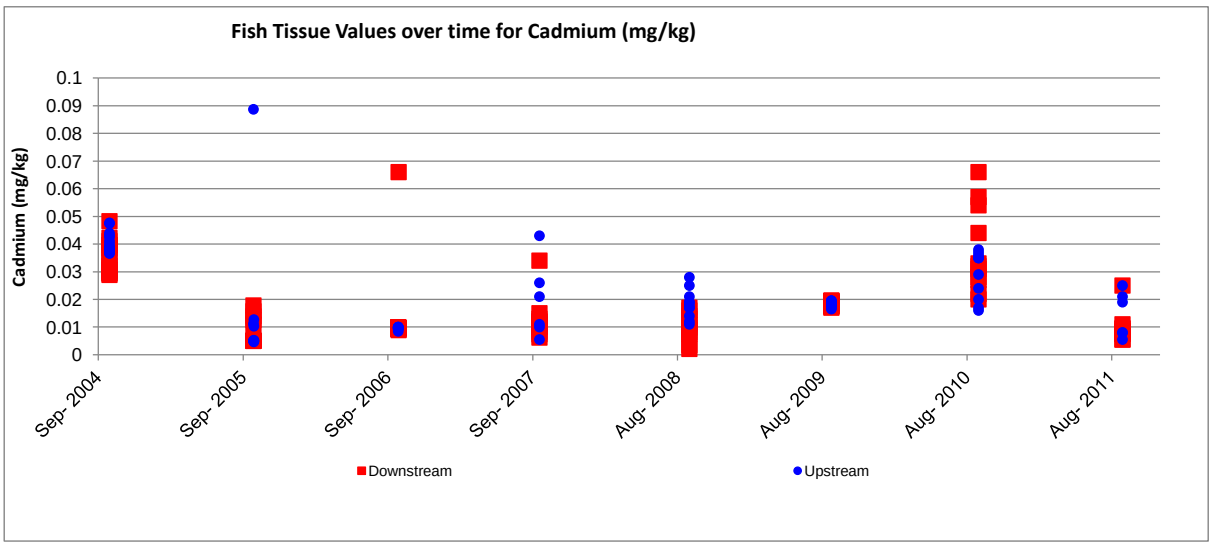

Values over time for TSS (mg/L)
Total Suspended Solids (mg/L)
90
80
70
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

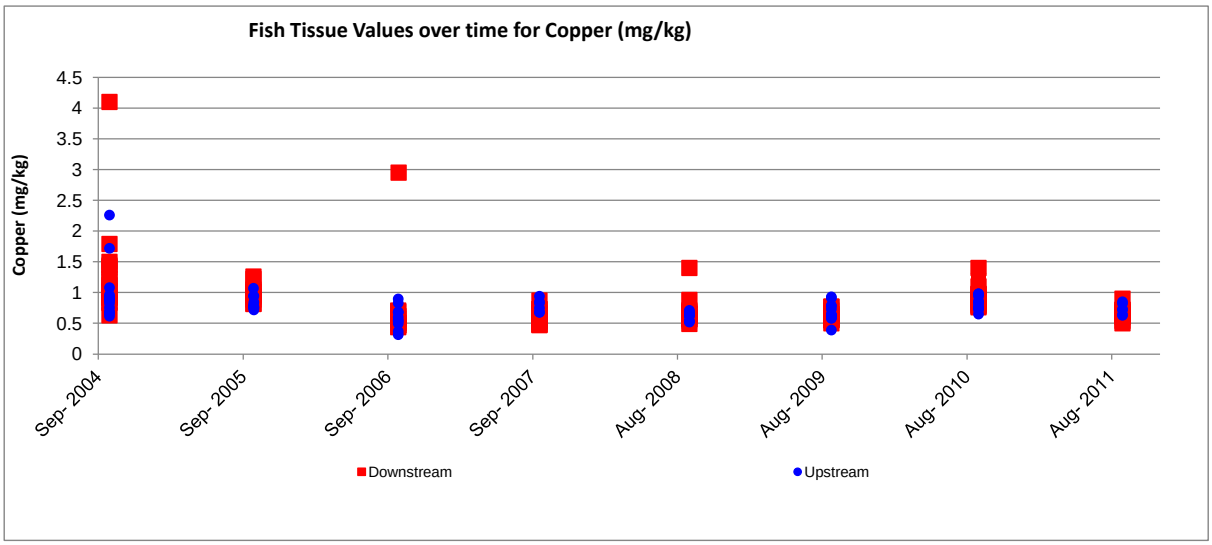

Values over time for Turbidity (NTU)
Turbidity (NTU)
35
30
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42

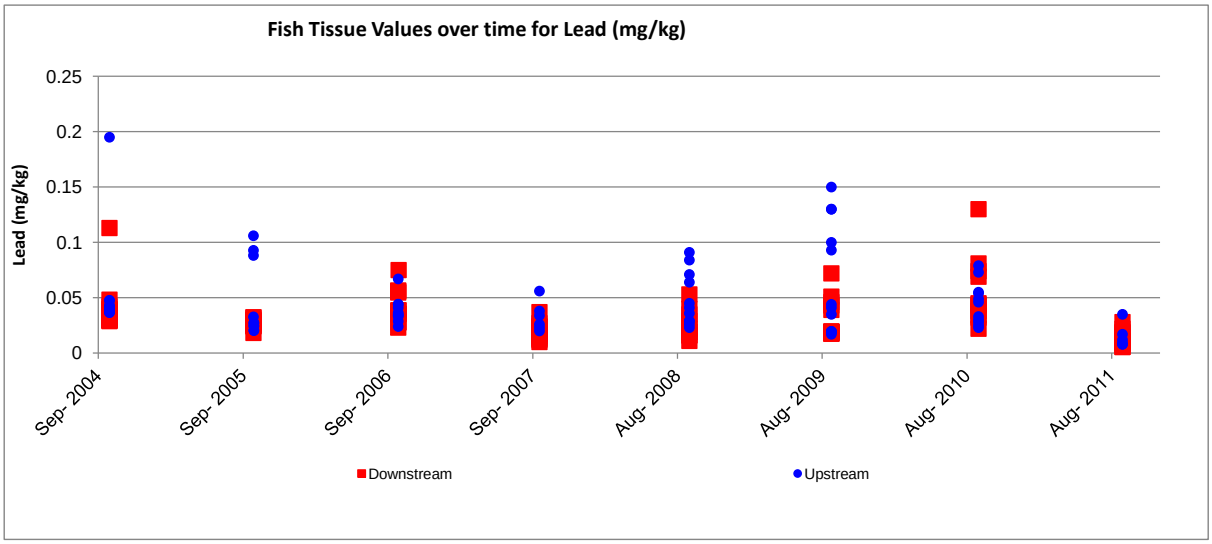

Values over time for Zinc, dissolved (ug/L)
(Zinc is hardness dependant. For graphing purposes, the lowest action limit in the data series was used.)
Zinc, dissolved (ug/L)
40
35
30
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
SW01
SW12
SW15
SW41
SW42
Surface Water Action Limits Limit Zinc, Dissolved (ug/l as Zn)

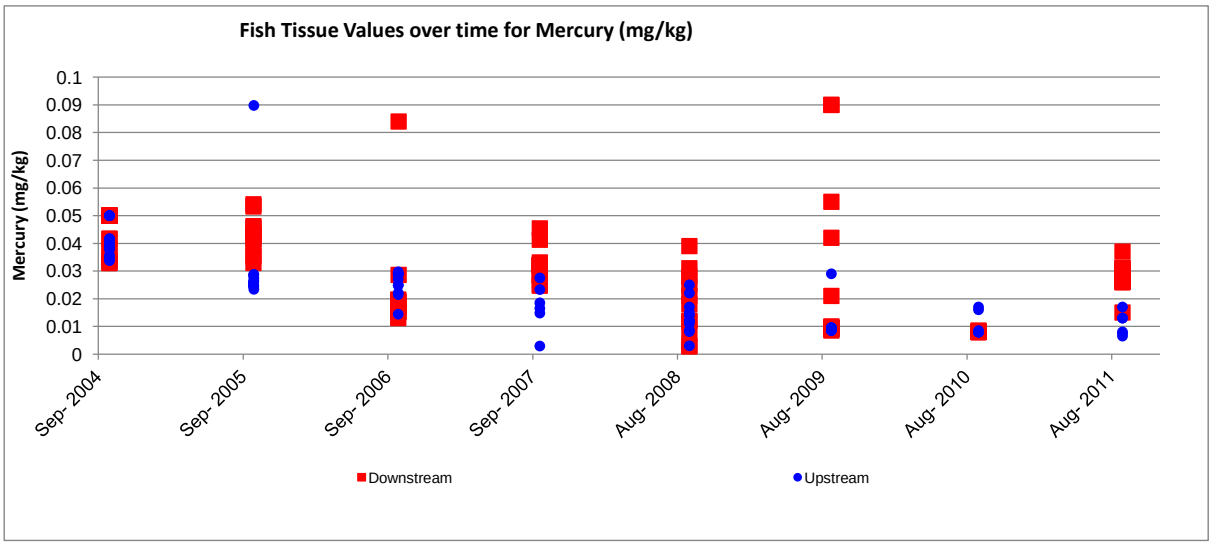

Fish Tissue Values over time for Antimony (mg/kg)
Antimony (mg/kg)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

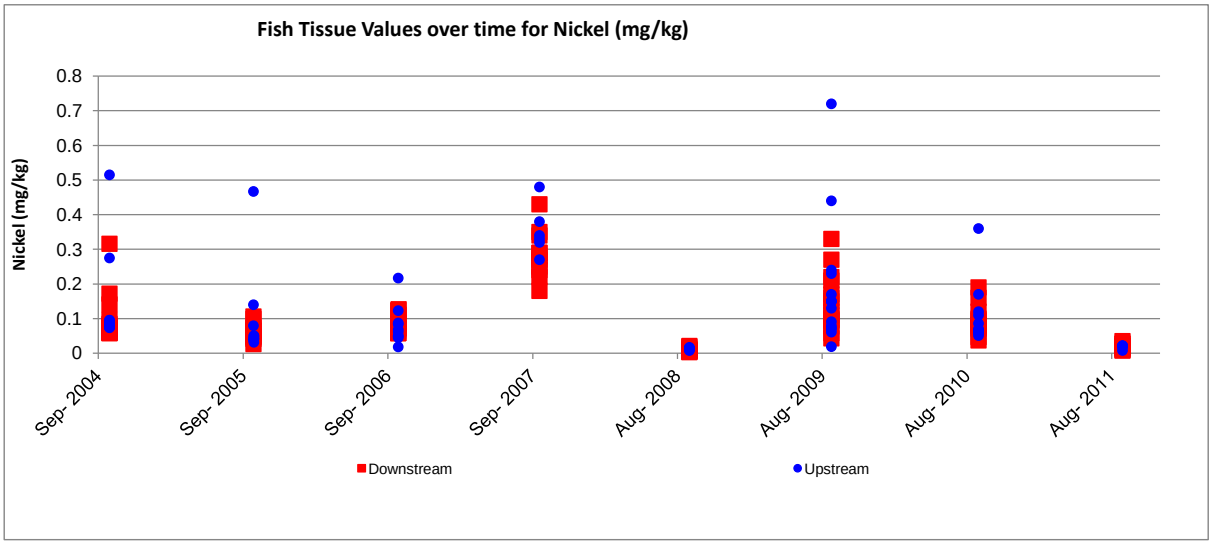

Fish Tissue Values over time for Arsenic (mg/kg)
Arsenic (mg/kg)
0.3
0.25
0.2
0.15
0.1
0.05
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

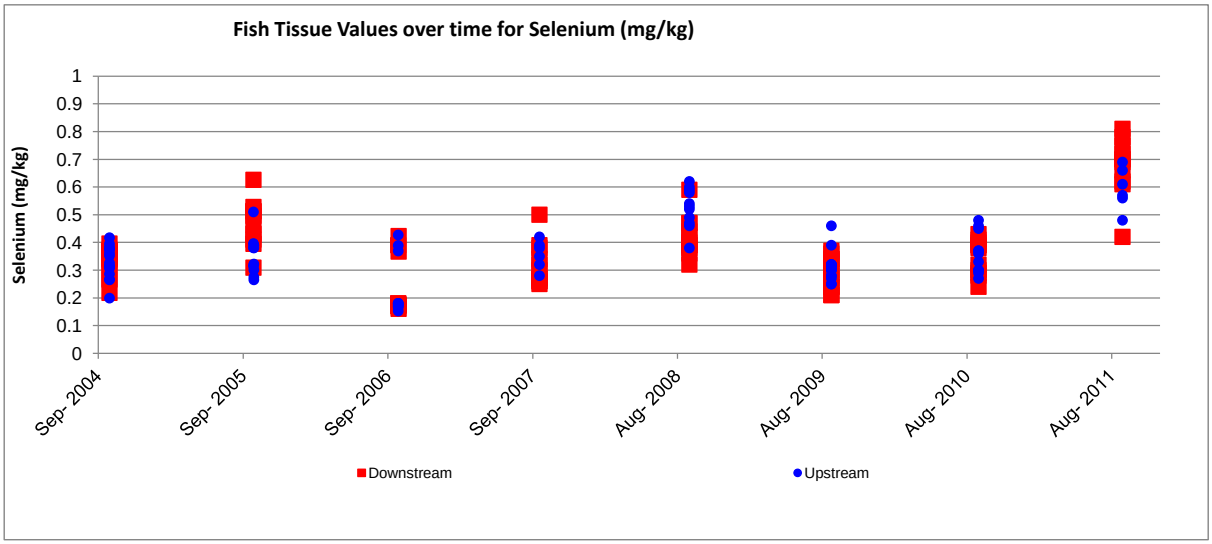

Fish Tissue Values over time for Cadmium (mg/kg)
Cadmium (mg/kg)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

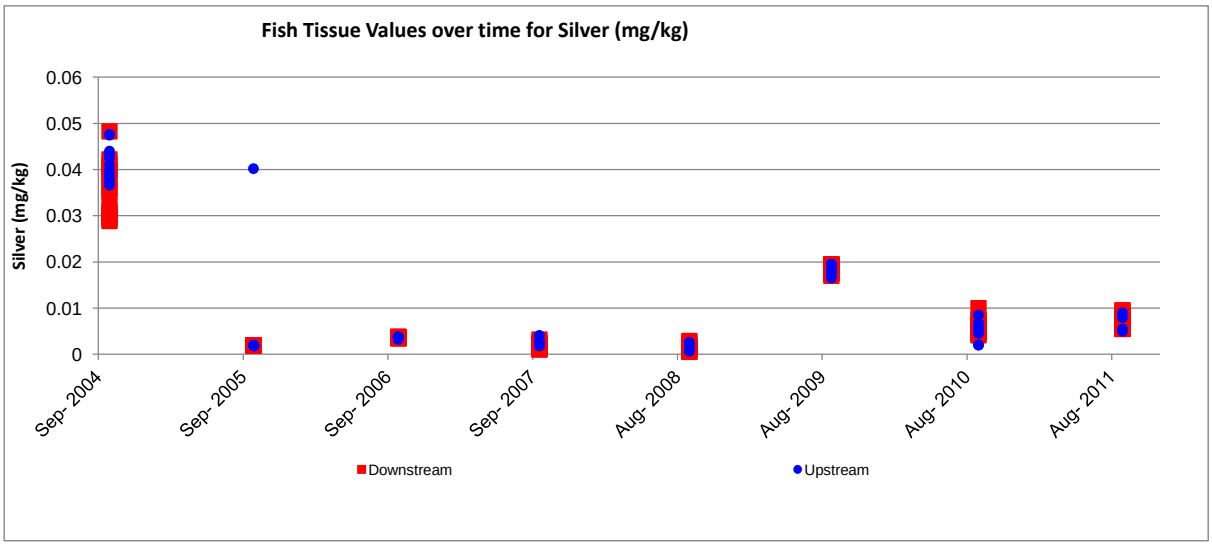

Fish Tissue Values over time for Copper (mg/kg)
Copper (mg/kg)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

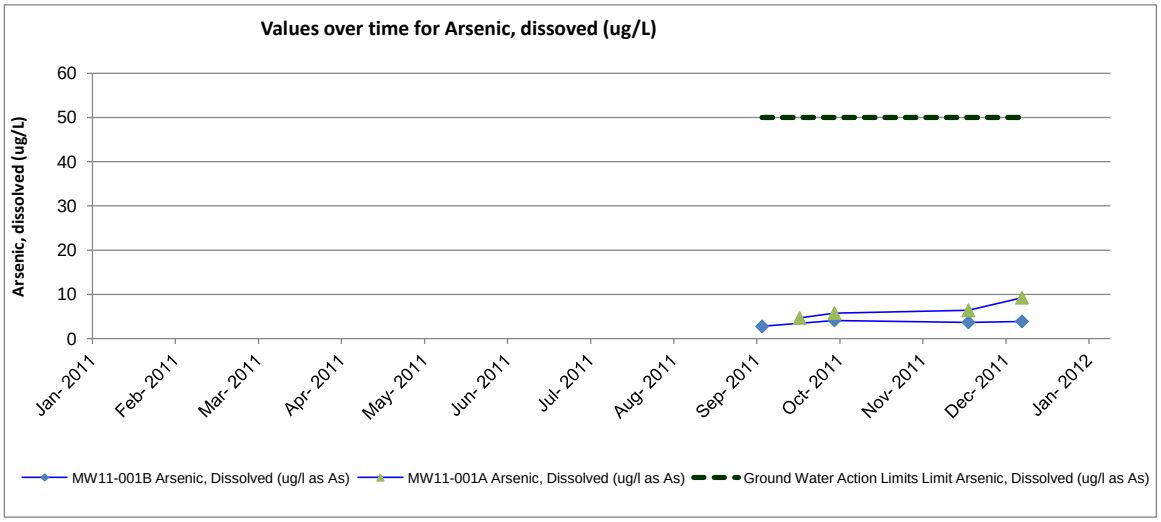

Fish Tissue Values over time for Lead (mg/kg)
Lead (mg/kg)
0.25
0.2
0.15
0.1
0.05
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

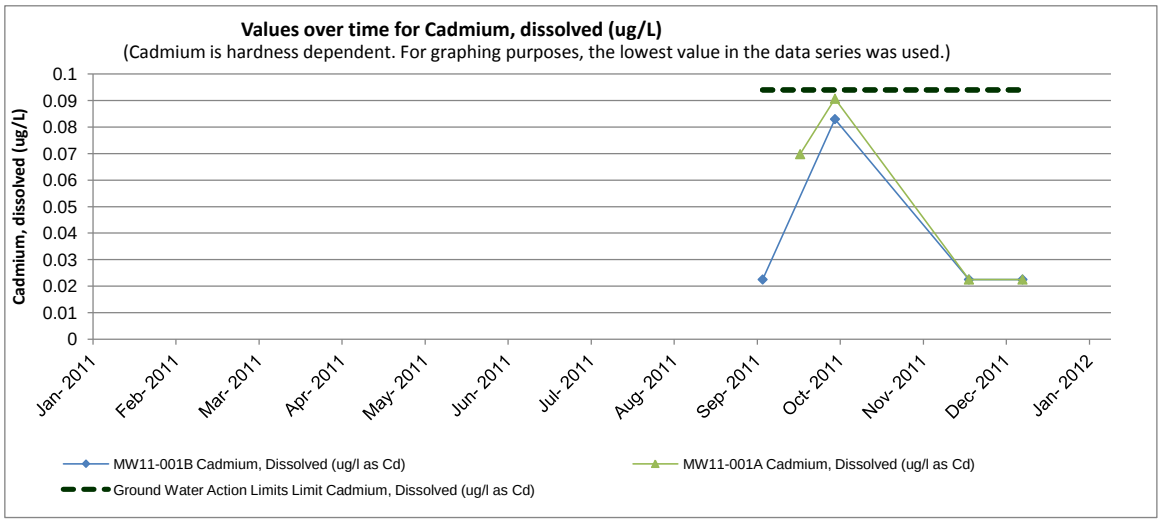

Fish Tissue Values over time for Mercury (mg/kg)
Mercury (mg/kg)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

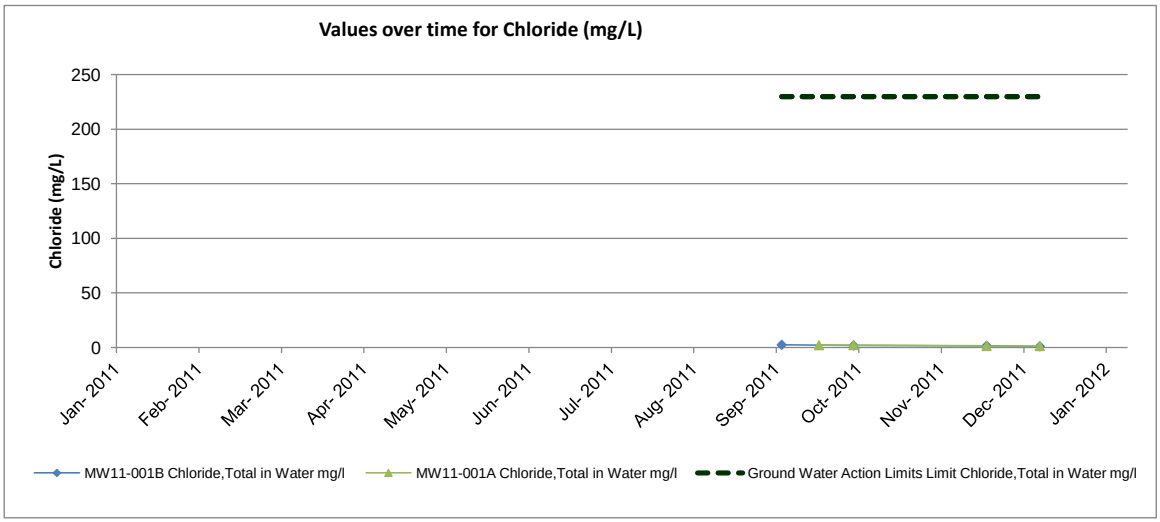

Fish Tissue Values over time for Nickel (mg/kg)
Nickel (mg/kg)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

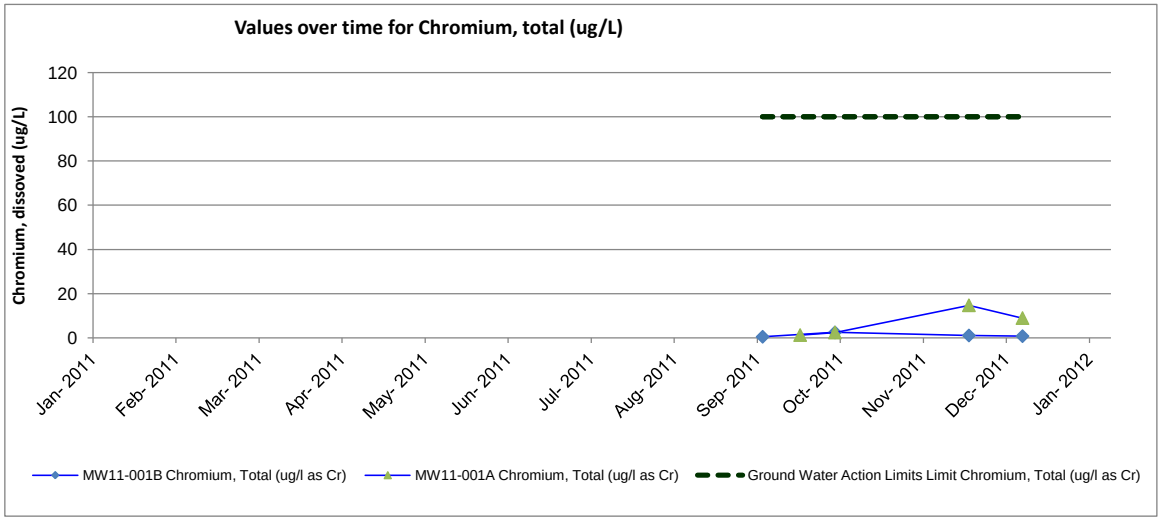

Fish Tissue Values over time for Selenium (mg/kg)
Selenium (mg/kg)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

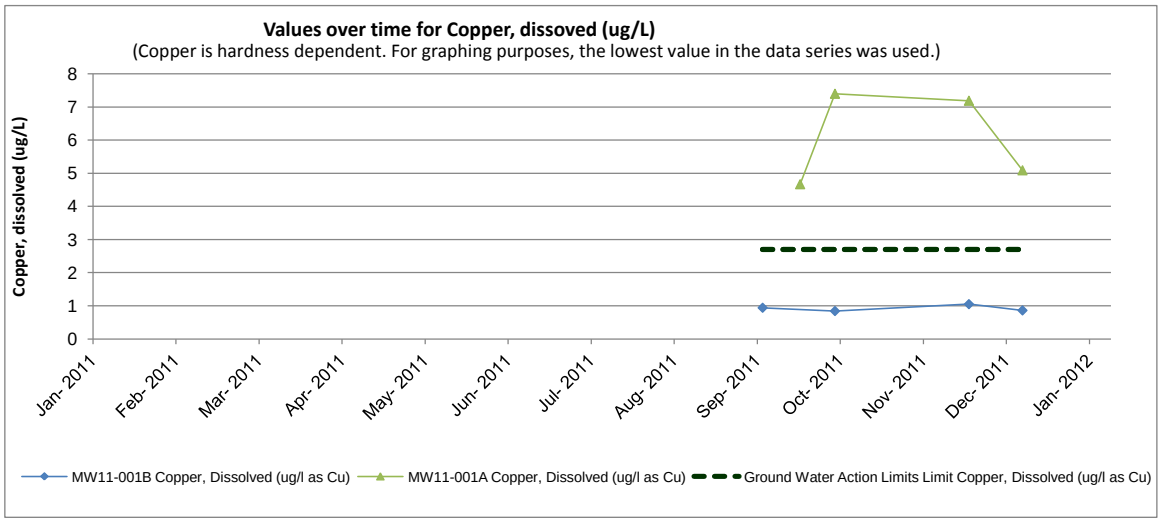

Fish Tissue Values over time for Silver (mg/kg)
Silver (mg/kg)
0.06
0.05
0.04
0.03
0.02
0.01
0
Sep- 2004
Sep- 2005
Sep- 2006
Sep- 2007
Aug- 2008
Aug- 2009
Aug- 2010
Aug- 2011
Downstream
Upstream

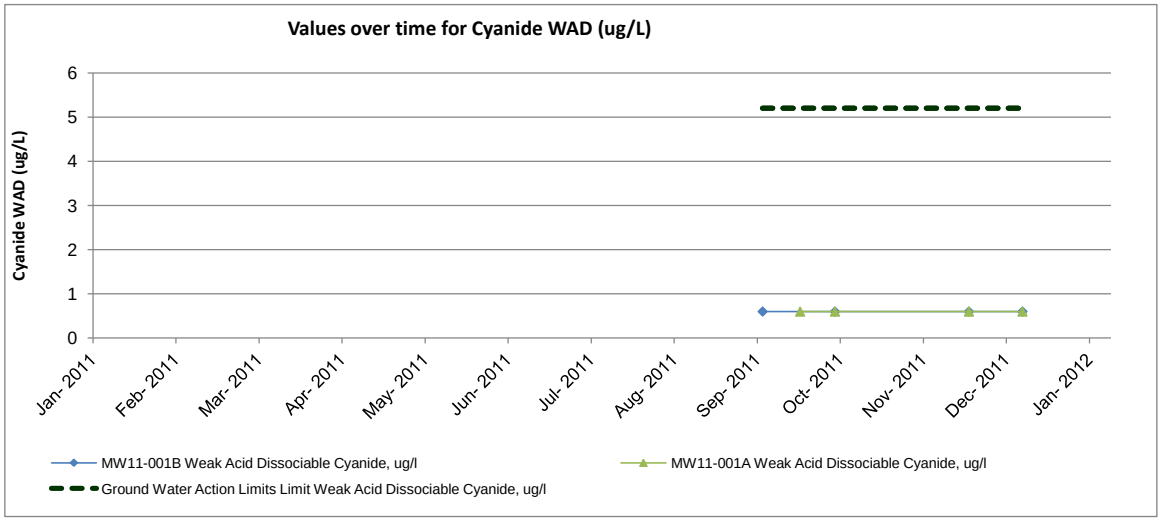

Values over time for Arsenic, dissoved (ug/L)
Arsenic, dissolved (ug/L)
60
50
40
30
20
10
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Arsenic, Dissolved (ug/l as As)
MW11-001A Arsenic, Dissolved (ug/l as As)
Ground Water Action Limits Limit Arsenic, Dissolved (ug/l as As)

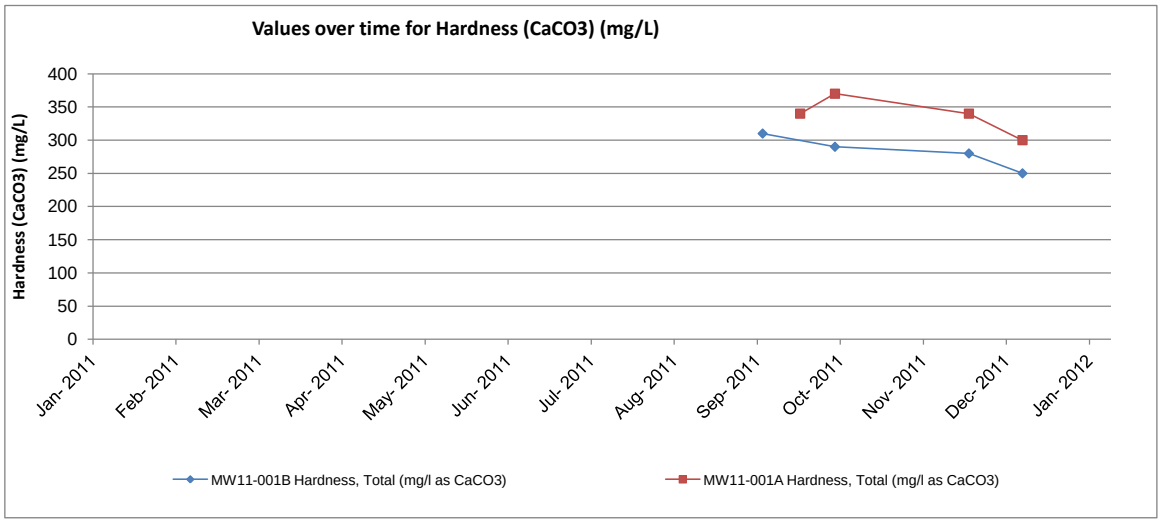

Values over time for Cadmium, dissolved (ug/L)
(Cadmium is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Cadmium, dissolved (ug/L)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Cadmium, Dissolved (ug/l as Cd)
MW11-001A Cadmium, Dissolved (ug/l as Cd)
Ground Water Action Limits Limit Cadmium, Dissolved (ug/l as Cd)

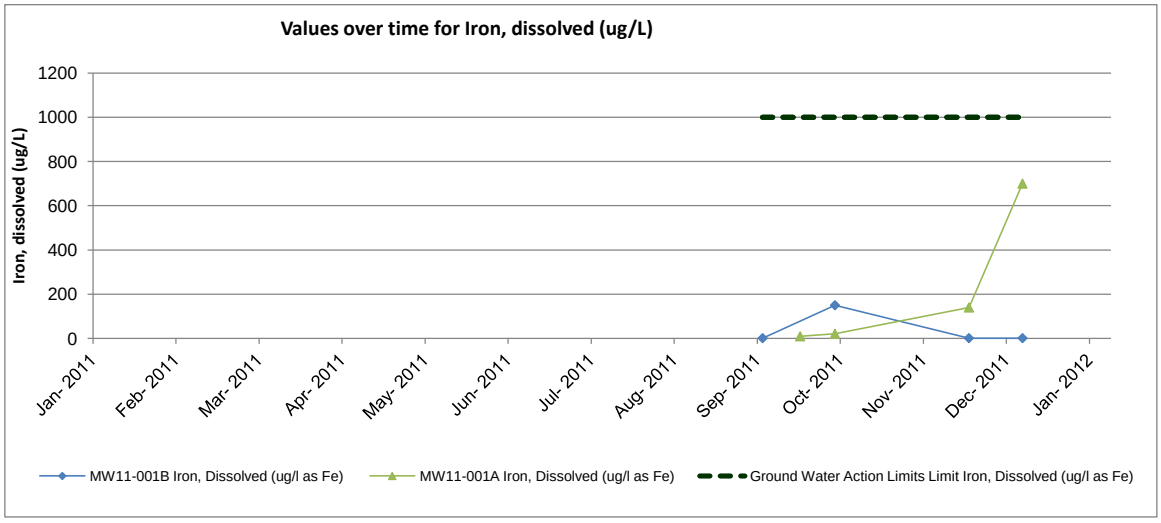

Values over time for Chloride (mg/L)
Chloride (mg/L)
250
200
150
100
50
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Chloride,Total in Water mg/l
MW11-001A Chloride,Total in Water mg/l
Ground Water Action Limits Limit Chloride,Total in Water mg/l

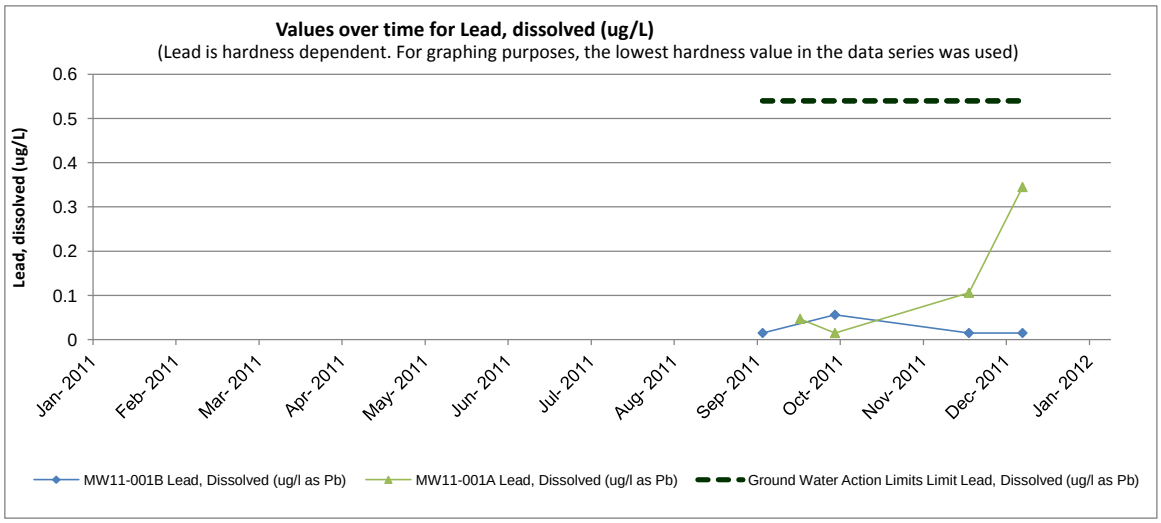

Values over time for Chromium, total (ug/L)
Chromium, dissoved (ug/L)
120
100
80
60
40
20
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Chromium, Total (ug/l as Cr)
MW11-001A Chromium, Total (ug/l as Cr)
Ground Water Action Limits Limit Chromium, Total (ug/l as Cr)

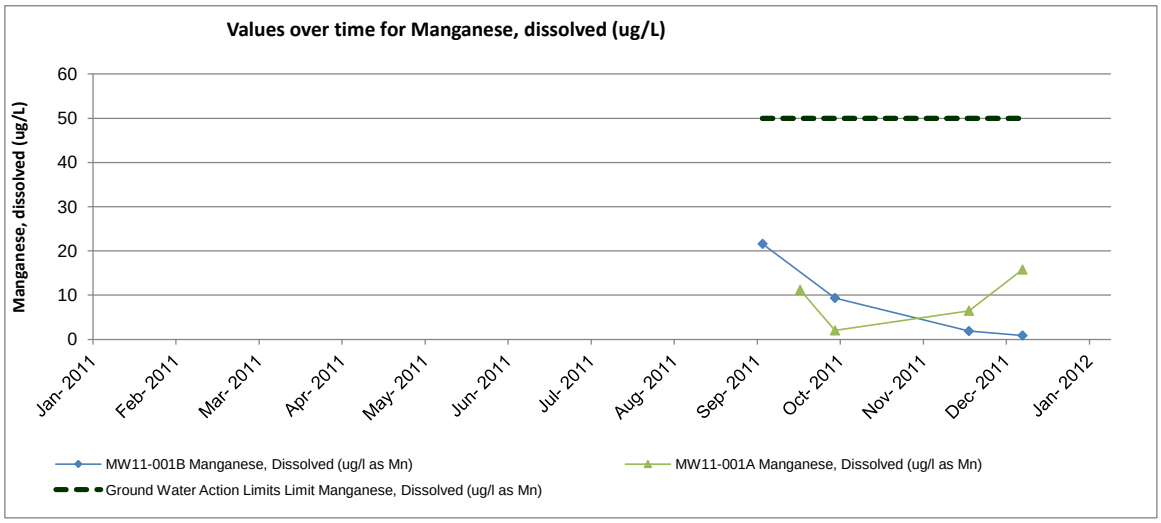

Values over time for Copper, dissoved (ug/L)
(Copper is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Copper, dissolved (ug/L)
8
7
6
5
4
3
2
1
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Copper, Dissolved (ug/l as Cu)
MW11-001A Copper, Dissolved (ug/l as Cu)
Ground Water Action Limits Limit Copper, Dissolved (ug/l as Cu)

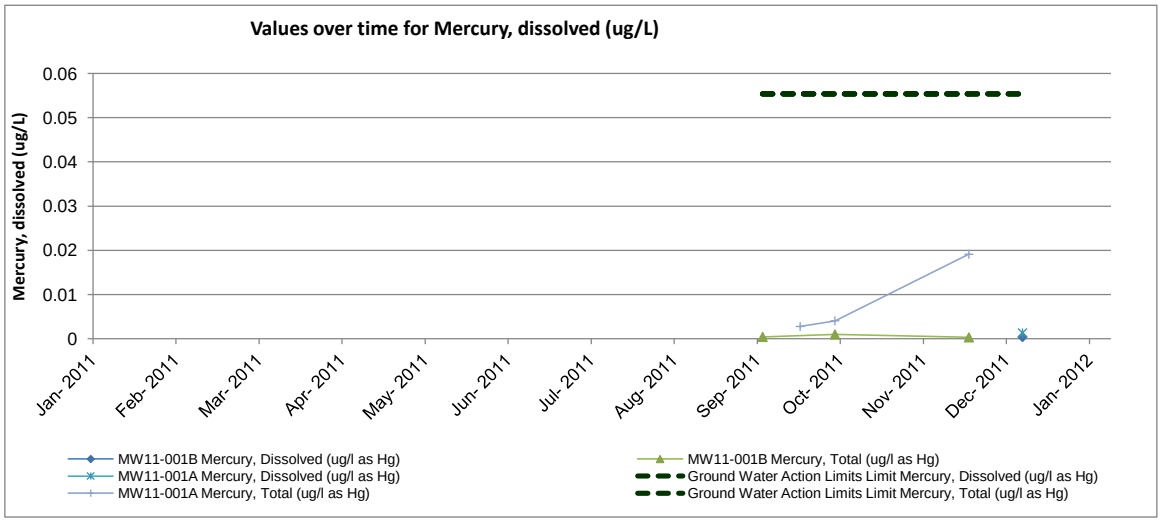

Values over time for Cyanide WAD (ug/L)
Cyanide WAD (ug/L)
6
5
4
3
2
1
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Weak Acid Dissociable Cyanide, ug/l
MW11-001A Weak Acid Dissociable Cyanide, ug/l
Ground Water Action Limits Limit Weak Acid Dissociable Cyanide, ug/l

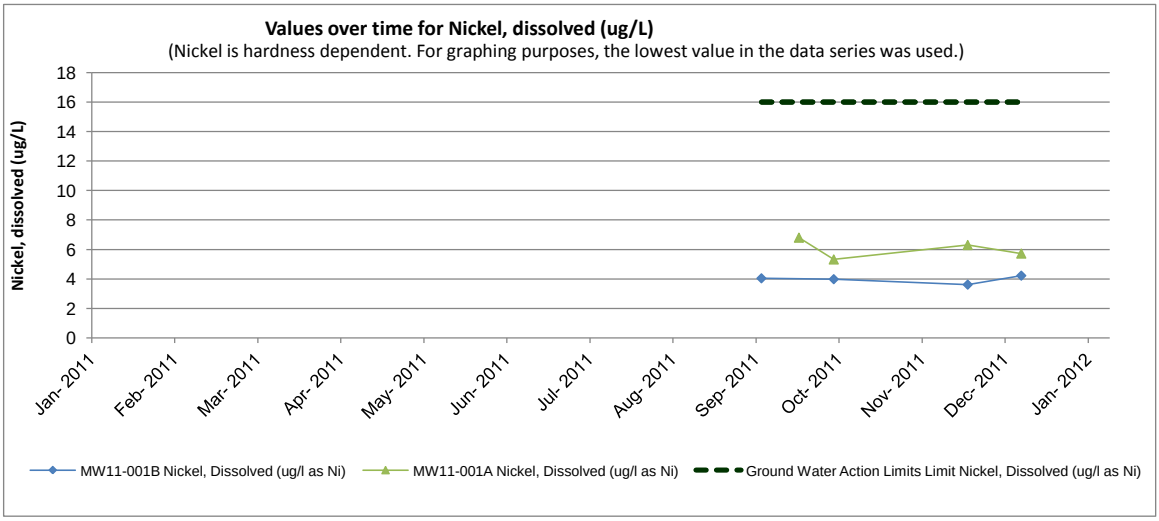

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3) (mg/L)
400
350
300
250
200
150
100
50
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Hardness, Total (mg/l as CaCO3)
MW11-001A Hardness, Total (mg/l as CaCO3)

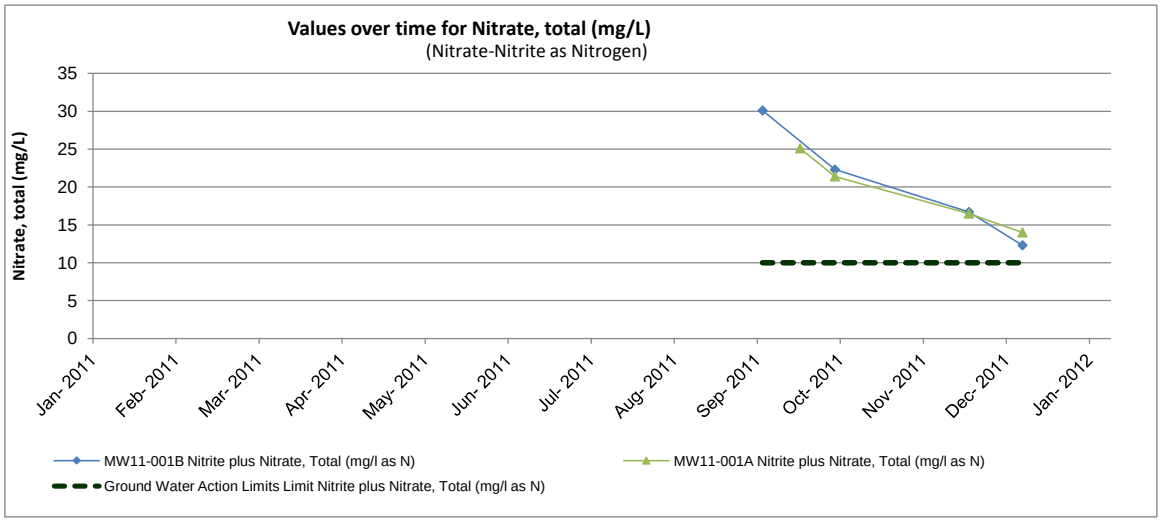

Values over time for Iron, dissolved (ug/L)
Iron, dissolved (ug/L)
1200
1000
800
600
400
200
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Iron, Dissolved (ug/l as Fe)
MW11-001A Iron, Dissolved (ug/l as Fe)
Ground Water Action Limits Limit Iron, Dissolved (ug/l as Fe)

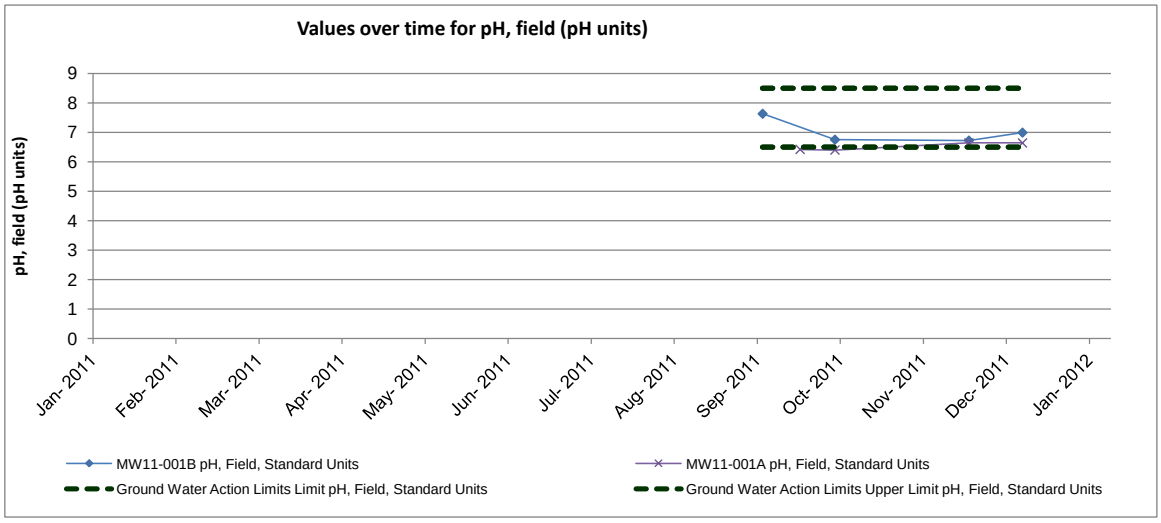

Values over time for Lead, dissolved (ug/L)
(Lead is hardness dependent. For graphing purposes, the lowest hardness value in the data series was used)
Lead, dissolved (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Lead, Dissolved (ug/l as Pb)
MW11-001A Lead, Dissolved (ug/l as Pb)
Ground Water Action Limits Limit Lead, Dissolved (ug/l as Pb)

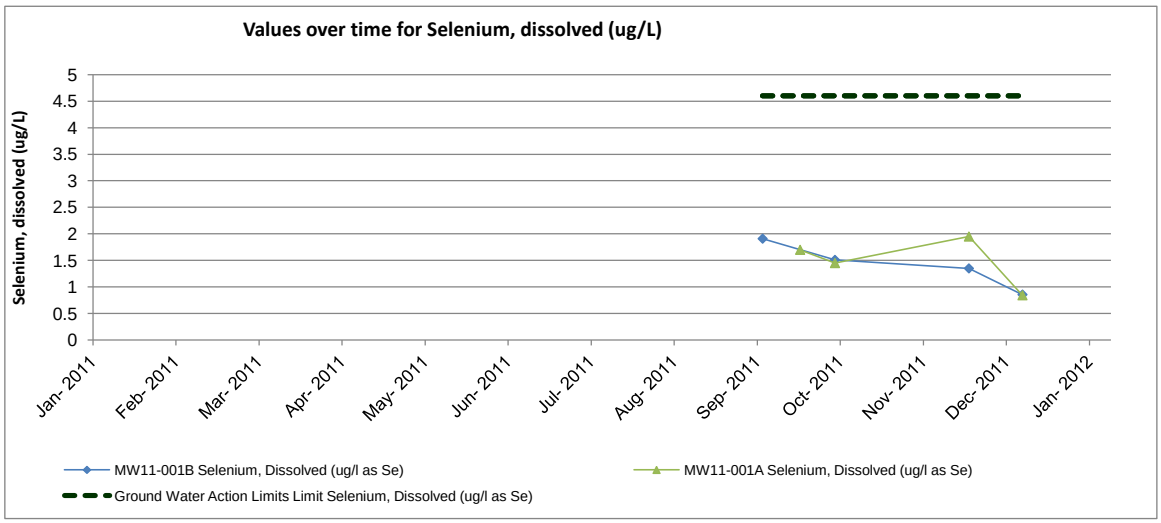

Values over time for Manganese, dissolved (ug/L)
Manganese, dissolved (ug/L)
60
50
40
30
20
10
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Manganese, Dissolved (ug/l as Mn)
MW11-001A Manganese, Dissolved (ug/l as Mn)
Ground Water Action Limits Limit Manganese, Dissolved (ug/l as Mn)

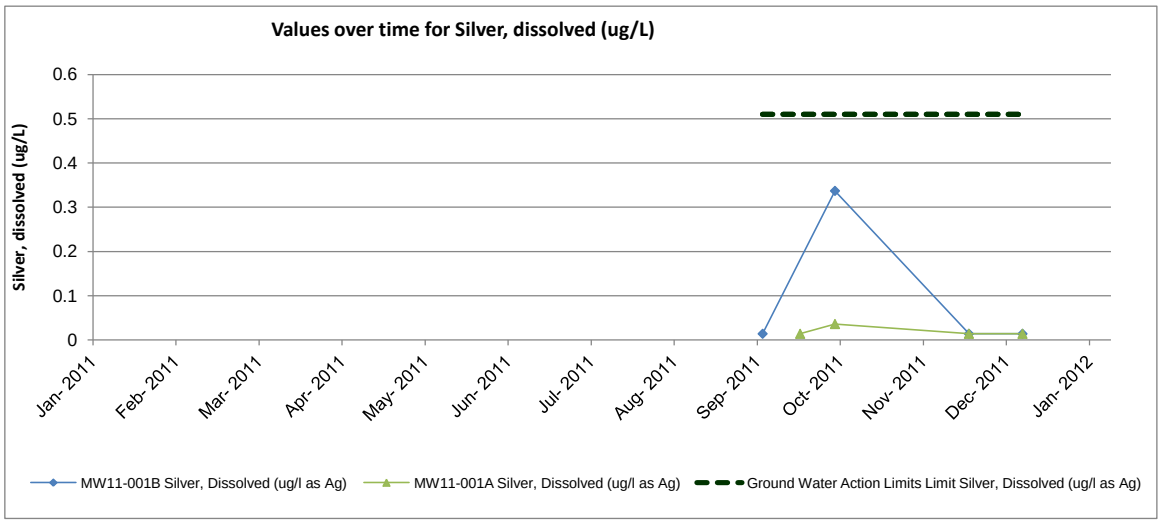

Values over time for Mercury, dissolved (ug/L)
Mercury, dissolved (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Mercury, Dissolved (ug/l as Hg)
MW11-001A Mercury, Dissolved (ug/l as Hg)
MW11-001A Mercury, Total (ug/l as Hg)
MW11-001B Mercury, Total (ug/l as Hg)
Ground Water Action Limits Limit Mercury, Dissolved (ug/l as Hg)
Ground Water Action Limits Limit Mercury, Total (ug/l as Hg)

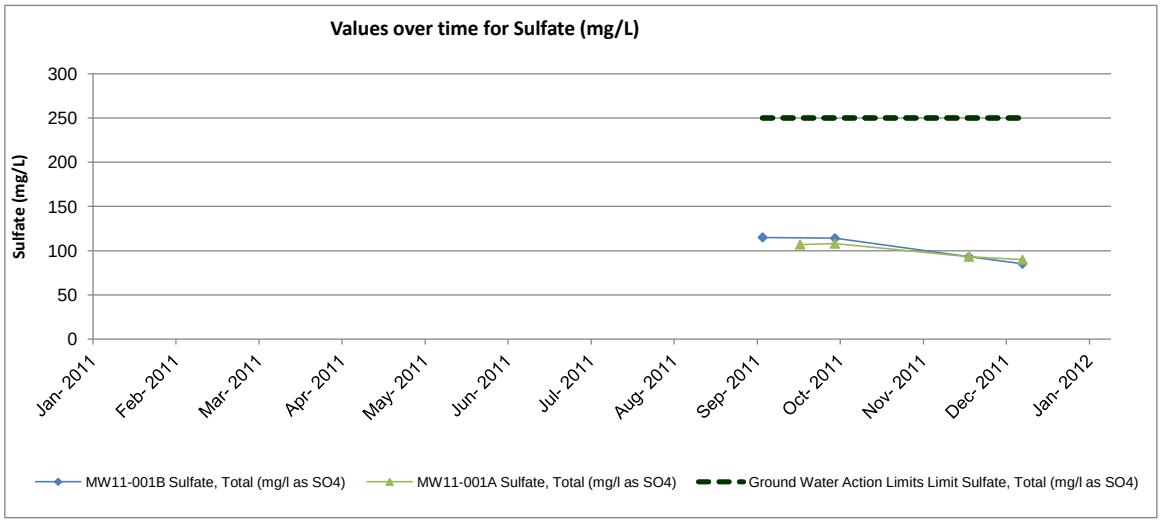

Values over time for Nickel, dissolved (ug/L)
(Nickel is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Nickel, dissolved (ug/L)
18
16
14
12
10
8
6
4
2
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Nickel, Dissolved (ug/l as Ni)
MW11-001A Nickel, Dissolved (ug/l as Ni)
Ground Water Action Limits Limit Nickel, Dissolved (ug/l as Ni)

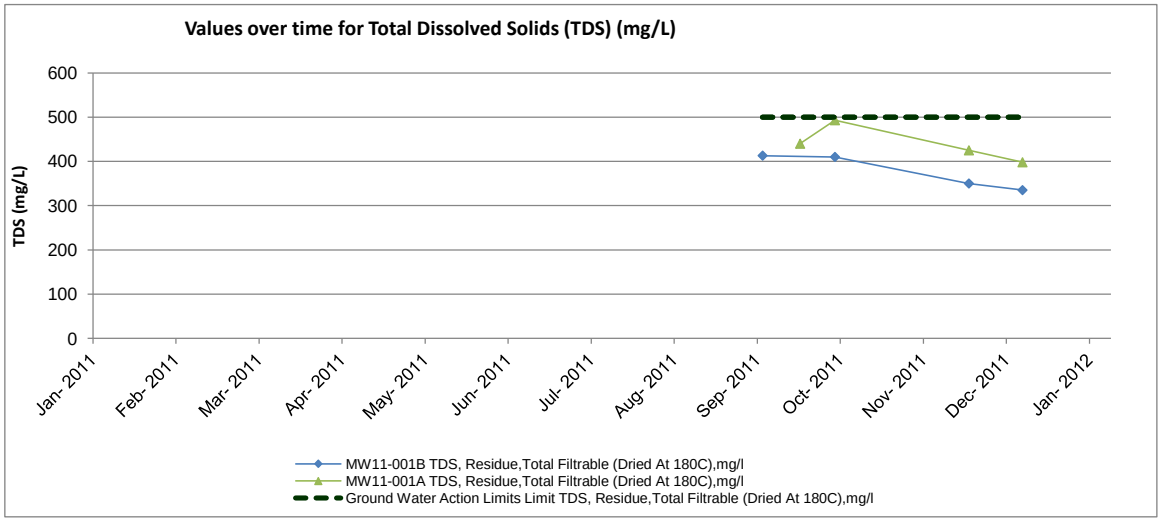

Values over time for Nitrate, total (mg/L)
(Nitrate-Nitrite as Nitrogen)
Nitrate, total (mg/L)
35
30
25
20
15
10
5
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Nitrite plus Nitrate, Total (mg/l as N)
MW11-001A Nitrite plus Nitrate, Total (mg/l as N)
Ground Water Action Limits Limit Nitrite plus Nitrate, Total (mg/l as N)

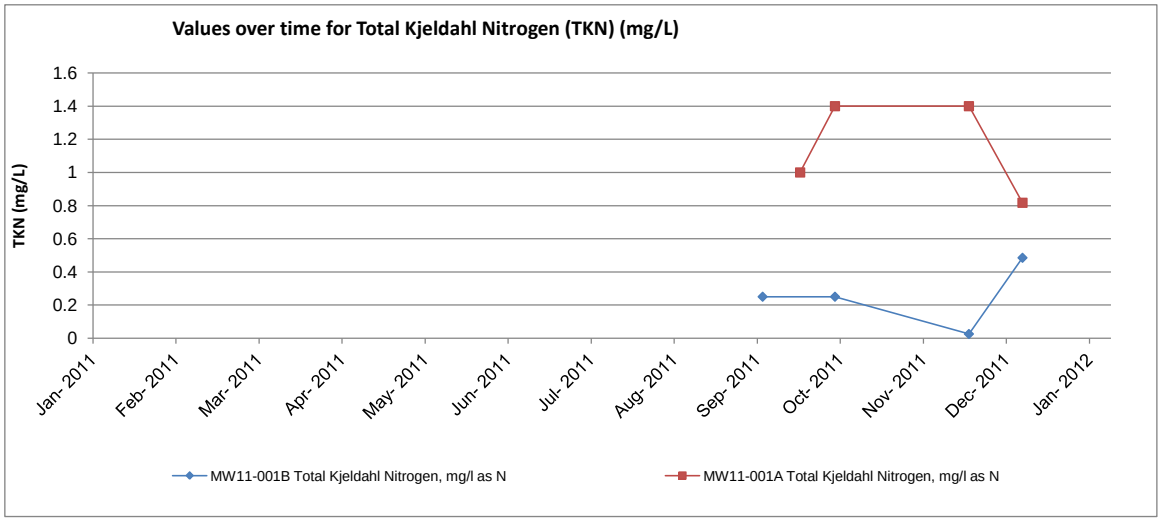

Values over time for pH, field (pH units)
pH, field (pH units)
9
8
7
6
5
4
3
2
1
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B pH, Field, Standard Units
MW11-001A pH, Field, Standard Units
Ground Water Action Limits Limit pH, Field, Standard Units
Ground Water Action Limits Upper Limit pH, Field, Standard Units

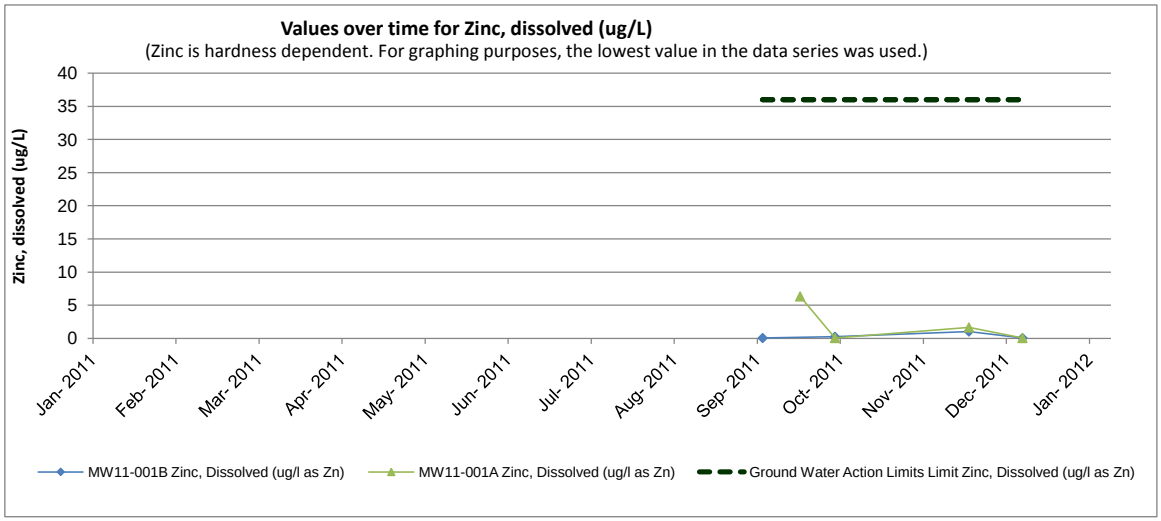

Values over time for Selenium, dissolved (ug/L)
Selenium, dissolved (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Selenium, Dissolved (ug/l as Se)
MW11-001A Selenium, Dissolved (ug/l as Se)
Ground Water Action Limits Limit Selenium, Dissolved (ug/l as Se)

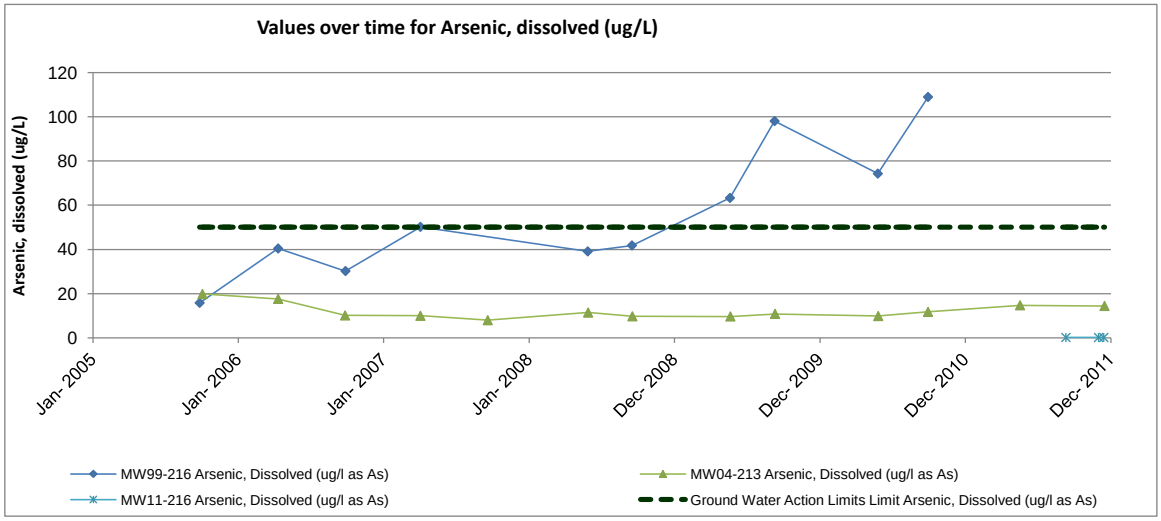

Values over time for Silver, dissolved (ug/L)
Silver, dissolved (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Silver, Dissolved (ug/l as Ag)
MW11-001A Silver, Dissolved (ug/l as Ag)
Ground Water Action Limits Limit Silver, Dissolved (ug/l as Ag)

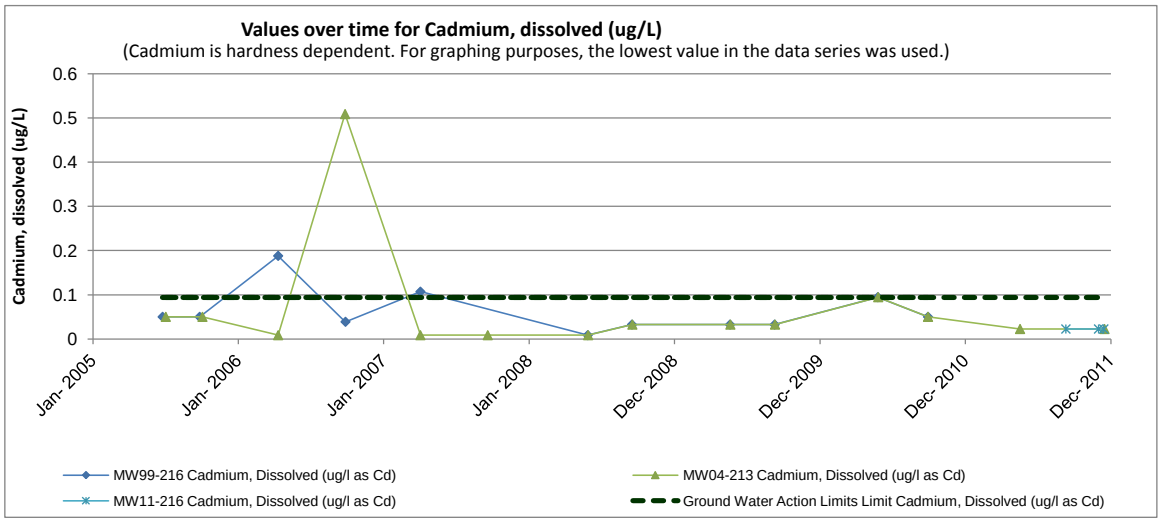

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
300
250
200
150
100
50
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Sulfate, Total (mg/l as SO4)
MW11-001A Sulfate, Total (mg/l as SO4)
Ground Water Action Limits Limit Sulfate, Total (mg/l as SO4)

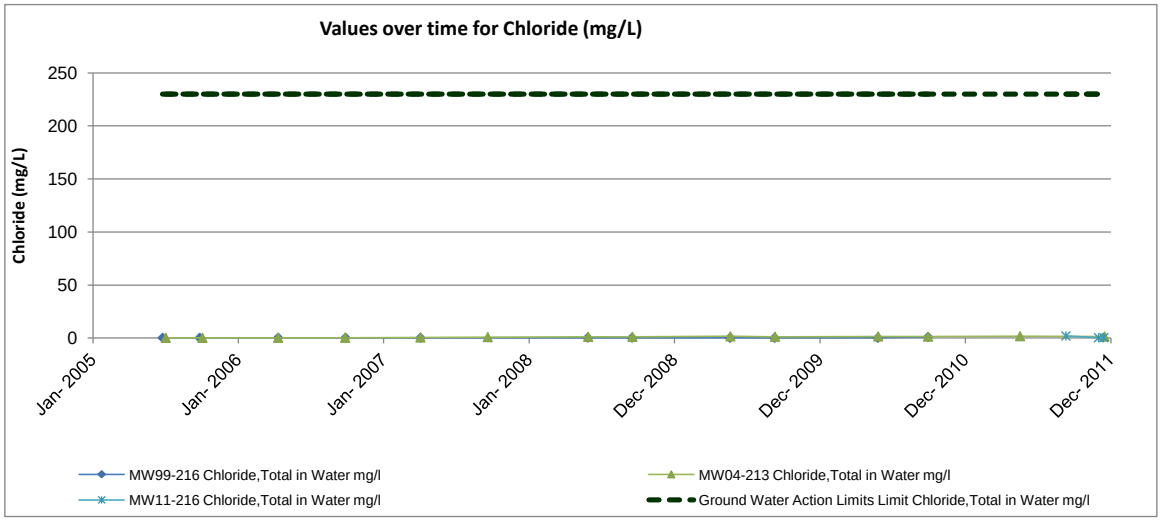

Values over time for Total Dissolved Solids (TDS) (mg/L)
TDS (mg/L)
600
500
400
300
200
100
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B TDS, Residue,Total Filtrable (Dried At 180C),mg/l
MW11-001A TDS, Residue,Total Filtrable (Dried At 180C),mg/l
Ground Water Action Limits Limit TDS, Residue,Total Filtrable (Dried At 180C),mg/l

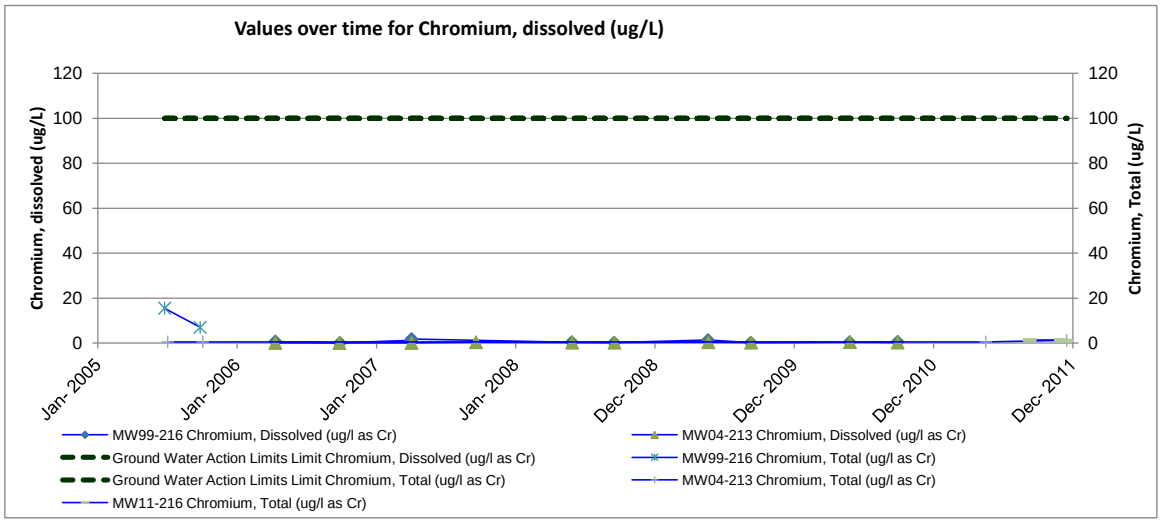

Values over time for Total Kjeldahl Nitrogen (TKN) (mg/L)
TKN (mg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Total Kjeldahl Nitrogen, mg/l as N
MW11-001A Total Kjeldahl Nitrogen, mg/l as N

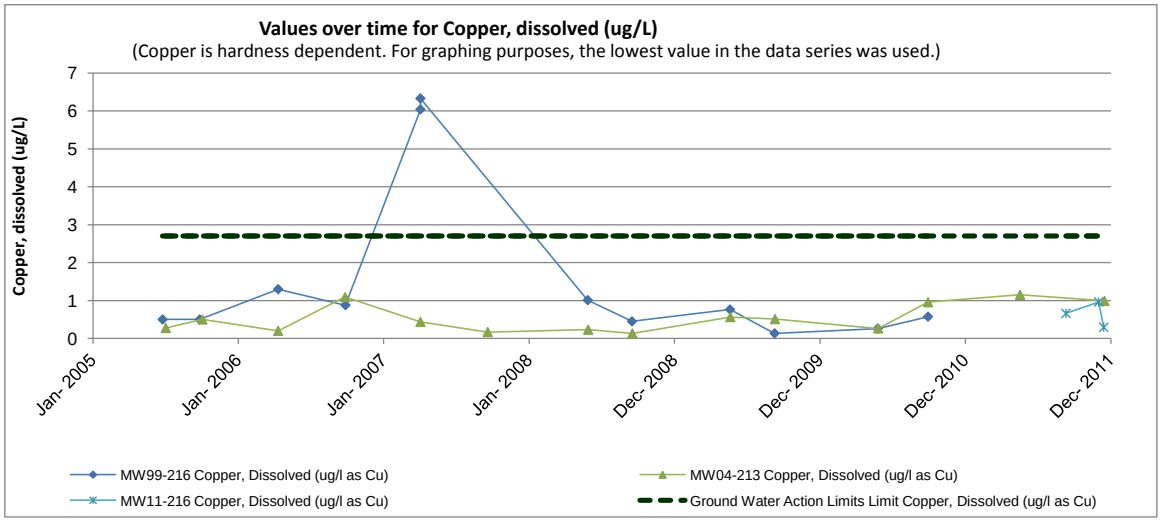

Values over time for Zinc, dissolved (ug/L)
(Zinc is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Zinc, dissolved (ug/L)
40
35
30
25
20
15
10
5
0
Jan- 2011
Feb- 2011
Mar- 2011
Apr- 2011
May- 2011
Jun- 2011
Jul- 2011
Aug- 2011
Sep- 2011
Oct- 2011
Nov- 2011
Dec- 2011
Jan- 2012
MW11-001B Zinc, Dissolved (ug/l as Zn)
MW11-001A Zinc, Dissolved (ug/l as Zn)
Ground Water Action Limits Limit Zinc, Dissolved (ug/l as Zn)

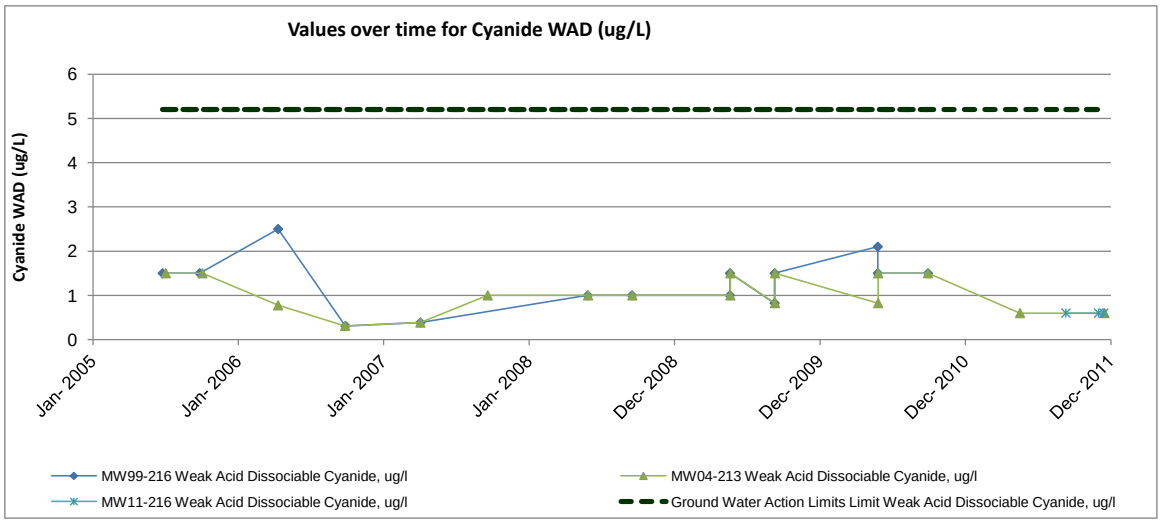

Values over time for Arsenic, dissolved (ug/L)
Arsenic, dissolved (ug/L)
120
100
80
60
40
20
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Arsenic, Dissolved (ug/l as As)
MW04-213 Arsenic, Dissolved (ug/l as As)
MW11-216 Arsenic, Dissolved (ug/l as As)
Ground Water Action Limits Limit Arsenic, Dissolved (ug/l as As)

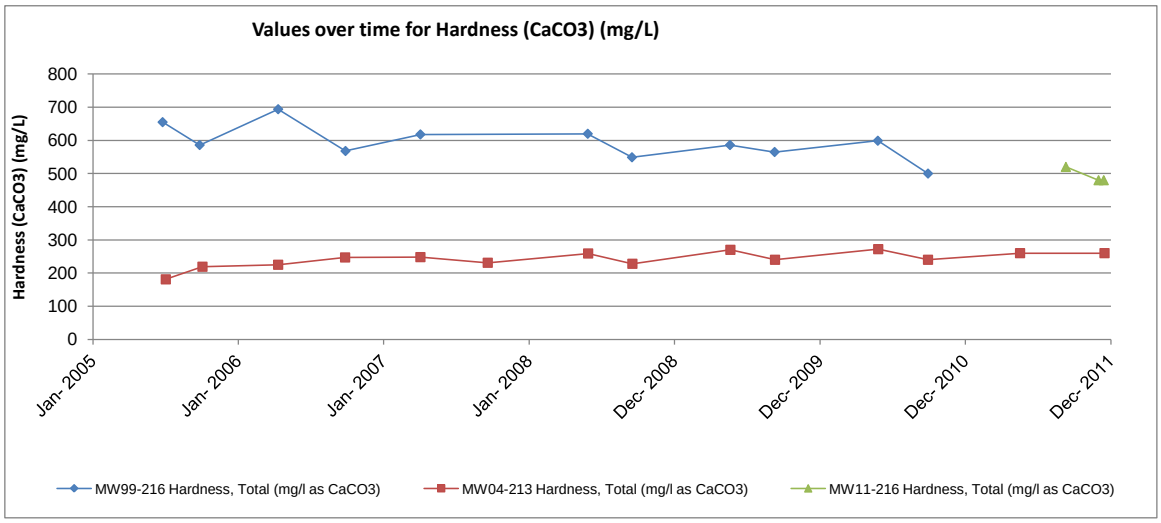

Values over time for Cadmium, dissolved (ug/L)
(Cadmium is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Cadmium, dissolved (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Cadmium, Dissolved (ug/l as Cd)
MW04-213 Cadmium, Dissolved (ug/l as Cd)
MW11-216 Cadmium, Dissolved (ug/l as Cd)
Ground Water Action Limits Limit Cadmium, Dissolved (ug/l as Cd)

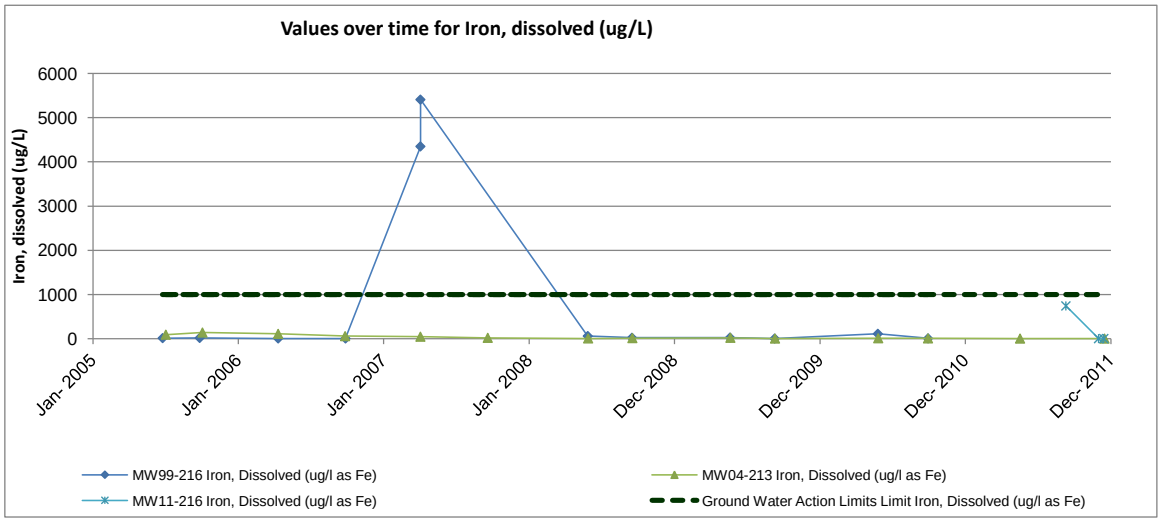

Values over time for Chloride (mg/L)
Chloride (mg/L)
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Chloride,Total in Water mg/l
MW04-213 Chloride,Total in Water mg/l
MW11-216 Chloride,Total in Water mg/l
Ground Water Action Limits Limit Chloride,Total in Water mg/l

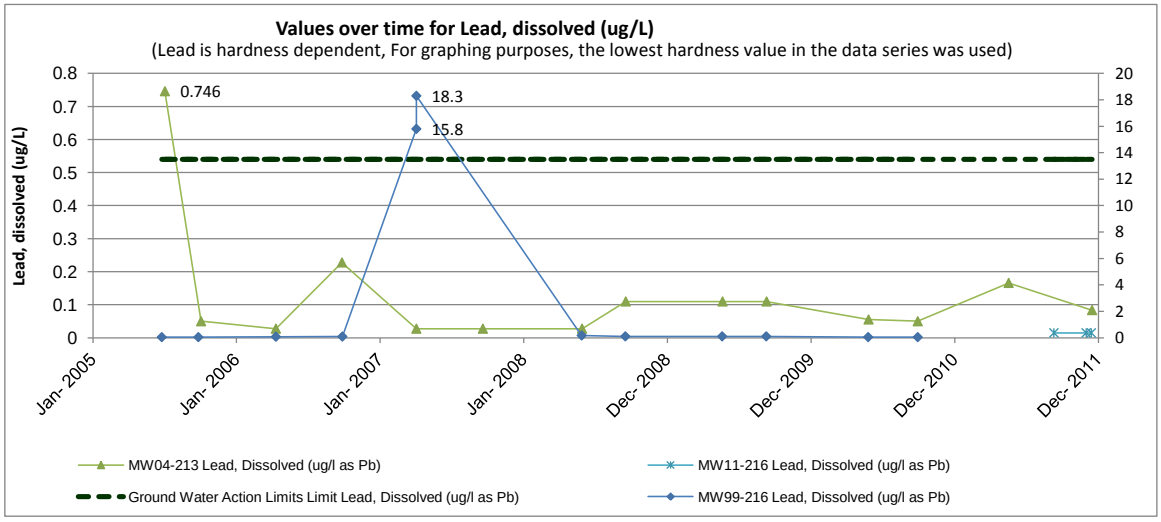

Values over time for Chromium, dissolved (ug/L)
Chromium, dissolved (ug/L)
Chromium, Total (ug/L)
120
100
80
60
40
20
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Chromium, Dissolved (ug/l as Cr)
MW04-213 Chromium, Dissolved (ug/l as Cr)
Ground Water Action Limits Limit Chromium, Dissolved (ug/l as Cr)
MW99-216 Chromium, Total (ug/l as Cr)
Ground Water Action Limits Limit Chromium, Total (ug/l as Cr)
MW04-213 Chromium, Total (ug/l as Cr)
MW11-216 Chromium, Total (ug/l as Cr)

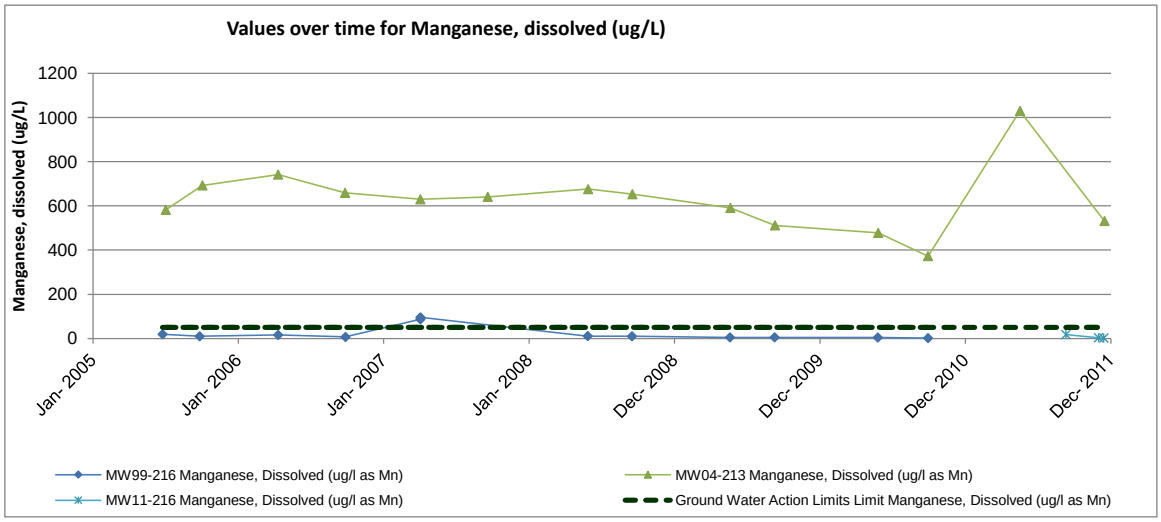

Values over time for Copper, dissolved (ug/L)
(Copper is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Copper, dissolved (ug/L)
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Copper, Dissolved (ug/l as Cu)
MW04-213 Copper, Dissolved (ug/l as Cu)
MW11-216 Copper, Dissolved (ug/l as Cu)
Ground Water Action Limits Limit Copper, Dissolved (ug/l as Cu)

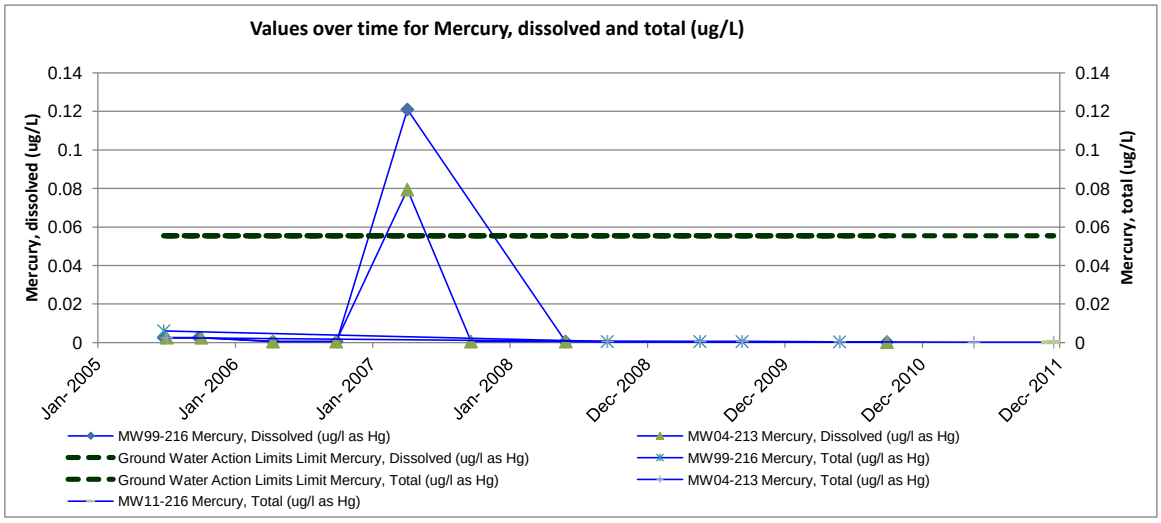

Values over time for Cyanide WAD (ug/L)
Cyanide WAD (ug/L)
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Weak Acid Dissociable Cyanide, ug/l
MW04-213 Weak Acid Dissociable Cyanide, ug/l
MW11-216 Weak Acid Dissociable Cyanide, ug/l
Ground Water Action Limits Limit Weak Acid Dissociable Cyanide, ug/l

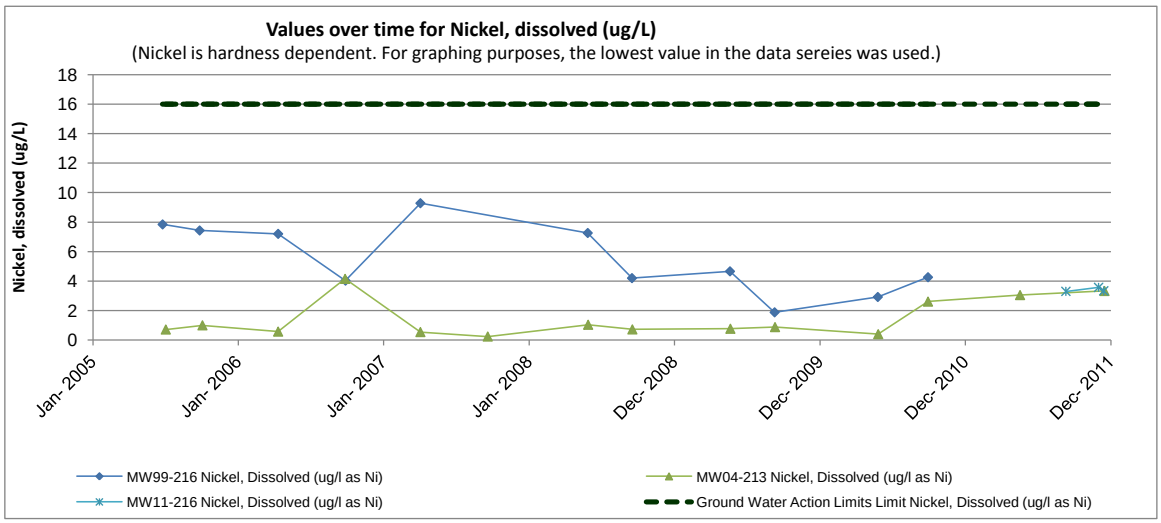

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3) (mg/L)
800
700
600
500
400
300
200
100
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Hardness, Total (mg/l as CaCO3)
MW04-213 Hardness, Total (mg/l as CaCO3)
MW11-216 Hardness, Total (mg/l as CaCO3)

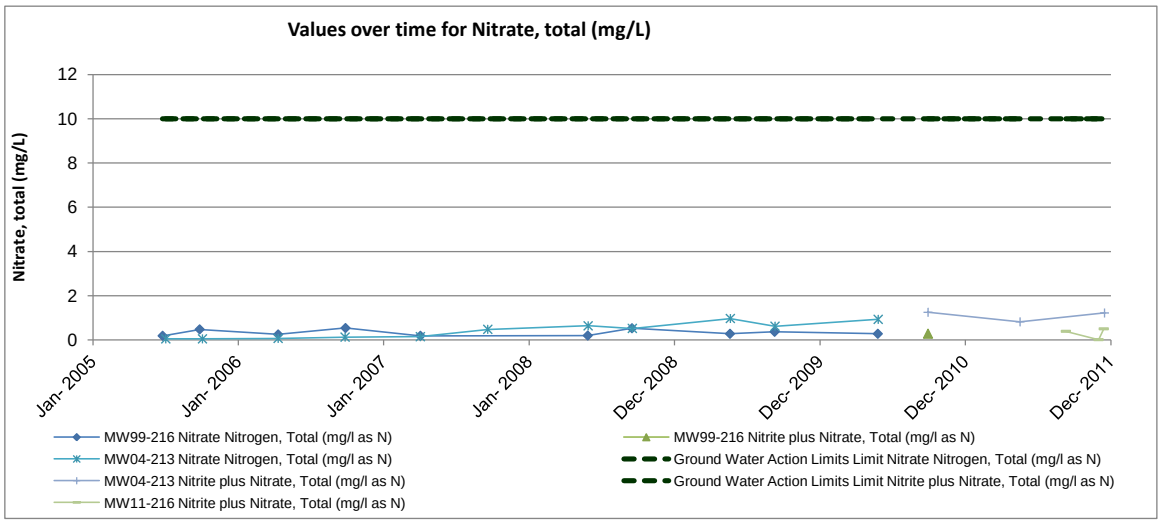

Values over time for Iron, dissolved (ug/L)
Iron, dissolved (ug/L)
6000
5000
4000
3000
2000
1000
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Iron, Dissolved (ug/l as Fe)
MW04-213 Iron, Dissolved (ug/l as Fe)
MW11-216 Iron, Dissolved (ug/l as Fe)
Ground Water Action Limits Limit Iron, Dissolved (ug/l as Fe)

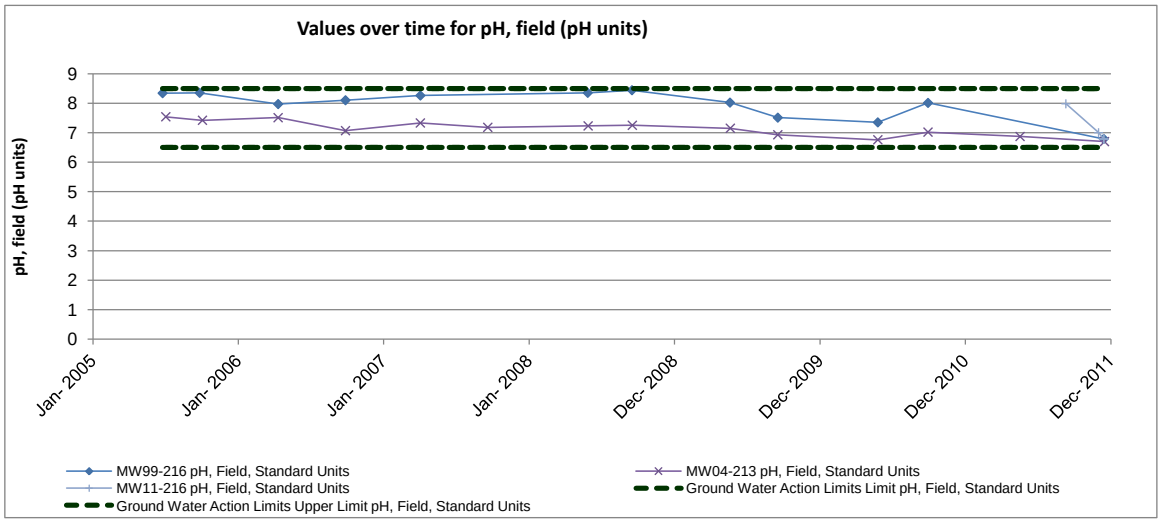

Values over time for Lead, dissolved (ug/L)
(Lead is hardness dependent, For graphing purposes, the lowest hardness value in the data series was used)
Lead, dissolved (ug/L)
0.746
18.3
15.8
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
20
18
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW04-213 Lead, Dissolved (ug/l as Pb)
MW11-216 Lead, Dissolved (ug/l as Pb)
Ground Water Action Limits Limit Lead, Dissolved (ug/l as Pb)
MW99-216 Lead, Dissolved (ug/l as Pb)

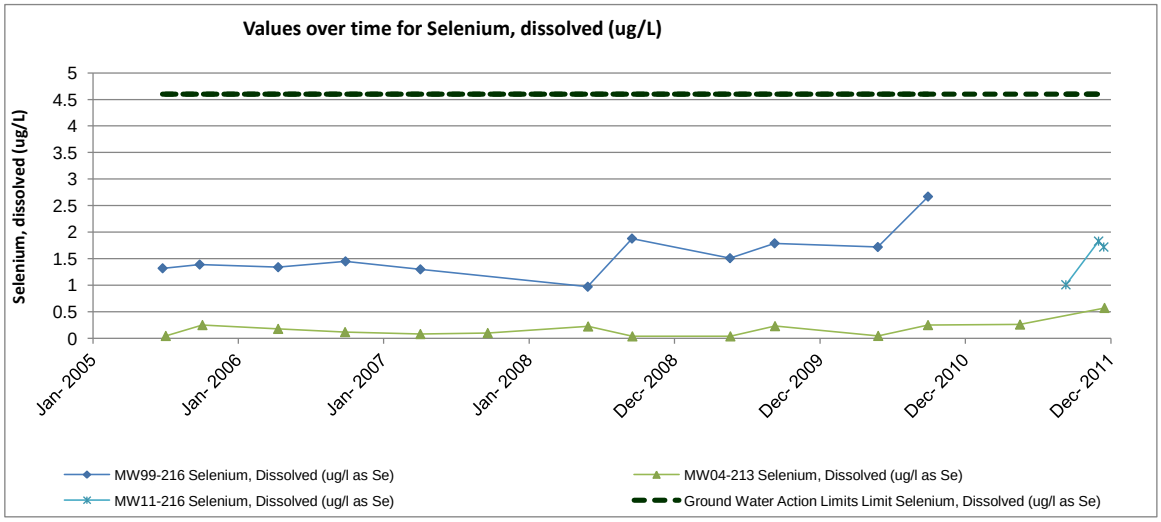

Values over time for Manganese, dissolved (ug/L)
Manganese, dissolved (ug/L)
1200
1000
800
600
400
200
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Manganese, Dissolved (ug/l as Mn)
MW04-213 Manganese, Dissolved (ug/l as Mn)
MW11-216 Manganese, Dissolved (ug/l as Mn)
Ground Water Action Limits Limit Manganese, Dissolved (ug/l as Mn)

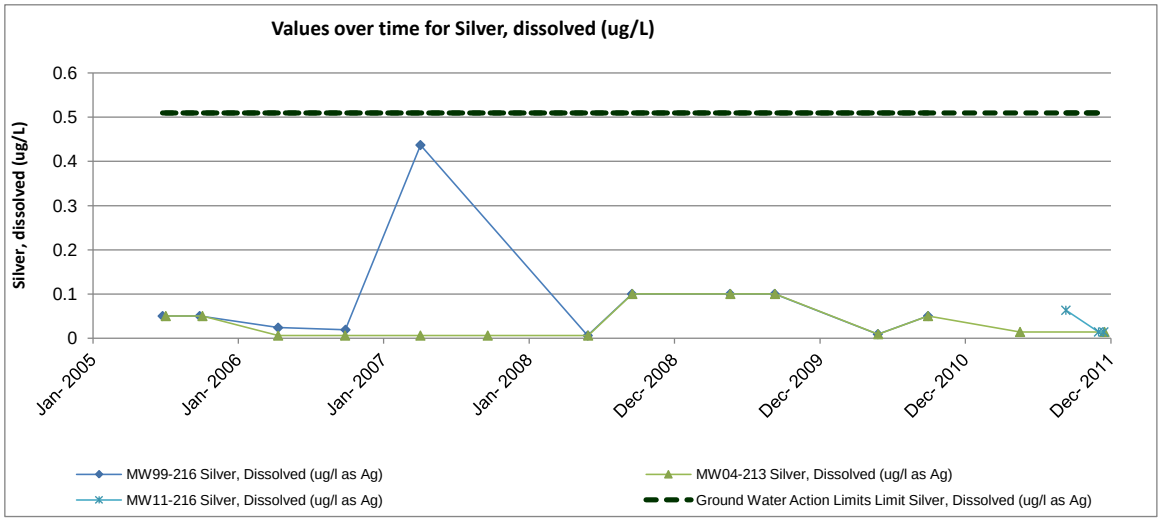

Values over time for Mercury, dissolved and total (ug/L)
Mercury, dissolved (ug/L)
Mercury, total (ug/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Mercury, Dissolved (ug/l as Hg)
MW04-213 Mercury, Dissolved (ug/l as Hg)
Ground Water Action Limits Limit Mercury, Dissolved (ug/l as Hg)
MW99-216 Mercury, Total (ug/l as Hg)
Ground Water Action Limits Limit Mercury, Total (ug/l as Hg)
MW04-213 Mercury, Total (ug/l as Hg)
MW11-216 Mercury, Total (ug/l as Hg)

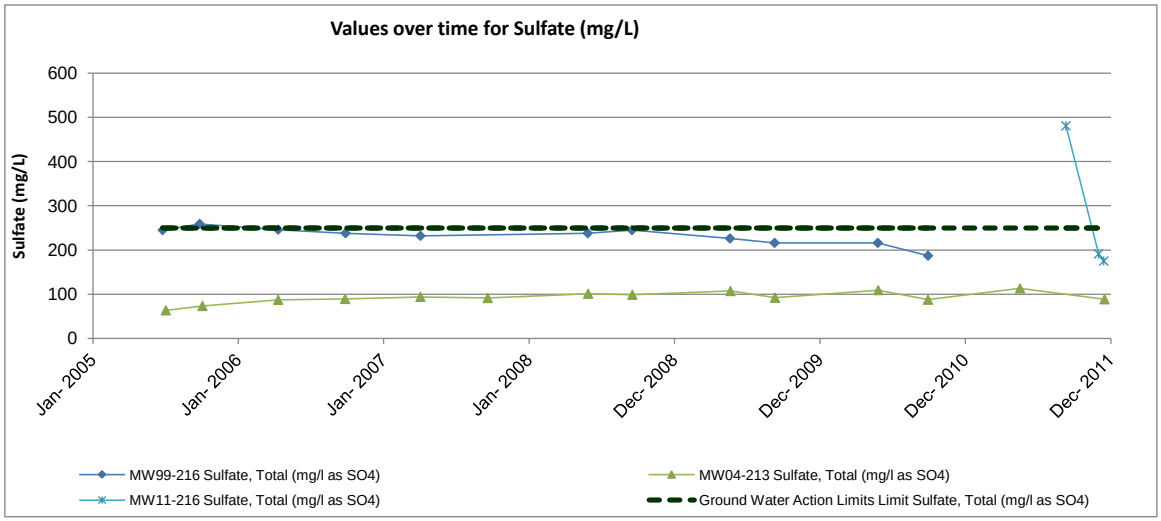

Values over time for Nickel, dissolved (ug/L)
(Nickel is hardness dependent. For graphing purposes, the lowest value in the data sereies was used.)
Nickel, dissolved (ug/L)
18
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Nickel, Dissolved (ug/l as Ni)
MW04-213 Nickel, Dissolved (ug/l as Ni)
MW11-216 Nickel, Dissolved (ug/l as Ni)
Ground Water Action Limits Limit Nickel, Dissolved (ug/l as Ni)

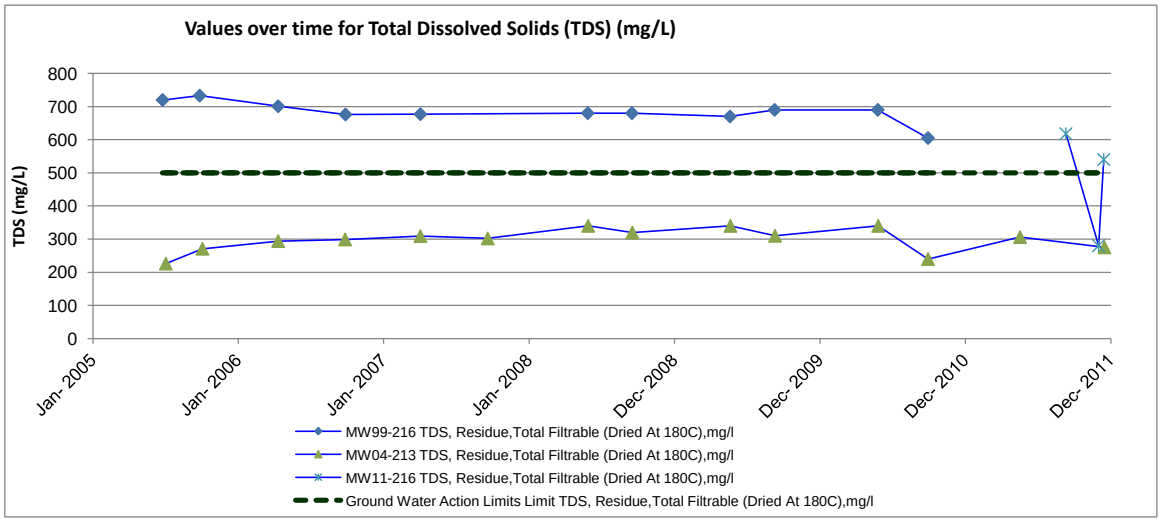

Values over time for Nitrate, total (mg/L)
Nitrate, total (mg/L)
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Nitrate Nitrogen, Total (mg/l as N)
MW99-216 Nitrite plus Nitrate, Total (mg/l as N)
MW04-213 Nitrate Nitrogen, Total (mg/l as N)
Ground Water Action Limits Limit Nitrate Nitrogen, Total (mg/l as N)
MW04-213 Nitrite plus Nitrate, Total (mg/l as N)
Ground Water Action Limits Limit Nitrite plus Nitrate, Total (mg/l as N)
MW11-216 Nitrite plus Nitrate, Total (mg/l as N)

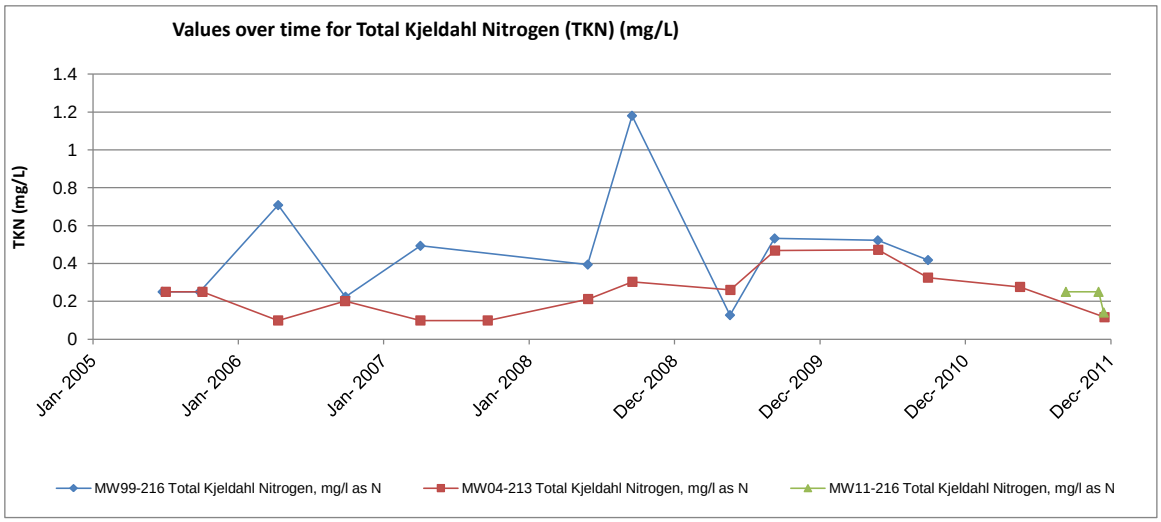

Values over time for pH, field (pH units)
pH, field (pH units)
9
8
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 pH, Field, Standard Units
MW04-213 pH, Field, Standard Units
MW11-216 pH, Field, Standard Units
Ground Water Action Limits Limit pH, Field, Standard Units
Ground Water Action Limits Upper Limit pH, Field, Standard Units

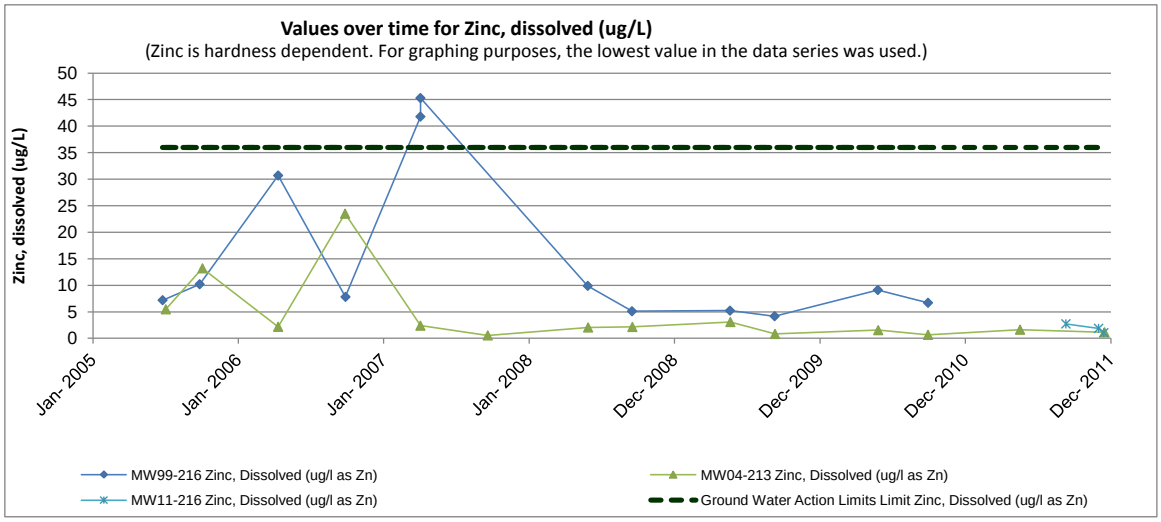

Values over time for Selenium, dissolved (ug/L)
Selenium, dissolved (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Selenium, Dissolved (ug/l as Se)
MW04-213 Selenium, Dissolved (ug/l as Se)
MW11-216 Selenium, Dissolved (ug/l as Se)
Ground Water Action Limits Limit Selenium, Dissolved (ug/l as Se)

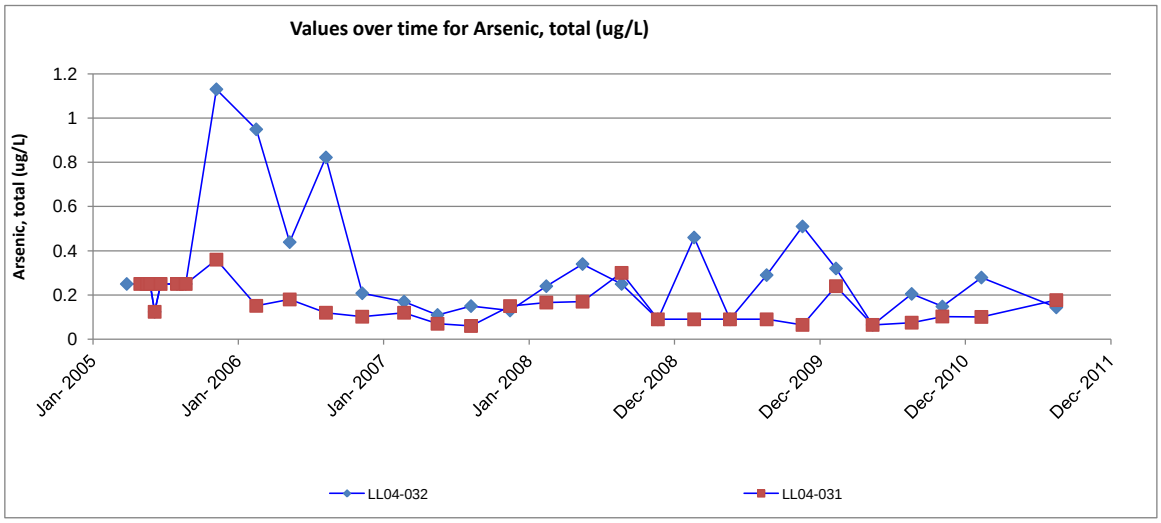

Values over time for Silver, dissolved (ug/L)
Silver, dissolved (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Silver, Dissolved (ug/l as Ag)
MW04-213 Silver, Dissolved (ug/l as Ag)
MW11-216 Silver, Dissolved (ug/l as Ag)
Ground Water Action Limits Limit Silver, Dissolved (ug/l as Ag)

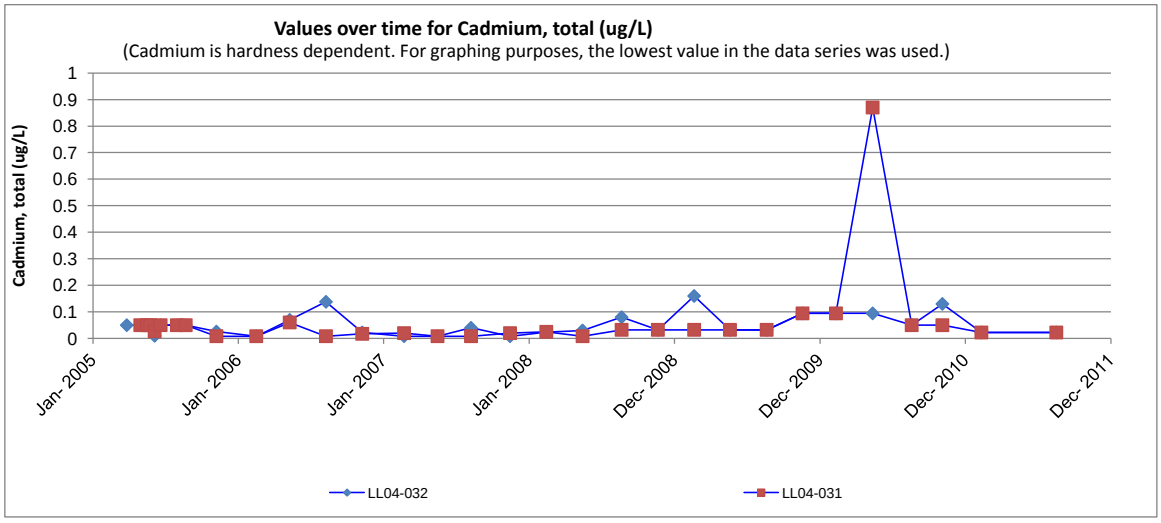

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
600
500
400
300
200
100
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Sulfate, Total (mg/l as SO4)
MW04-213 Sulfate, Total (mg/l as SO4)
MW11-216 Sulfate, Total (mg/l as SO4)
Ground Water Action Limits Limit Sulfate, Total (mg/l as SO4)

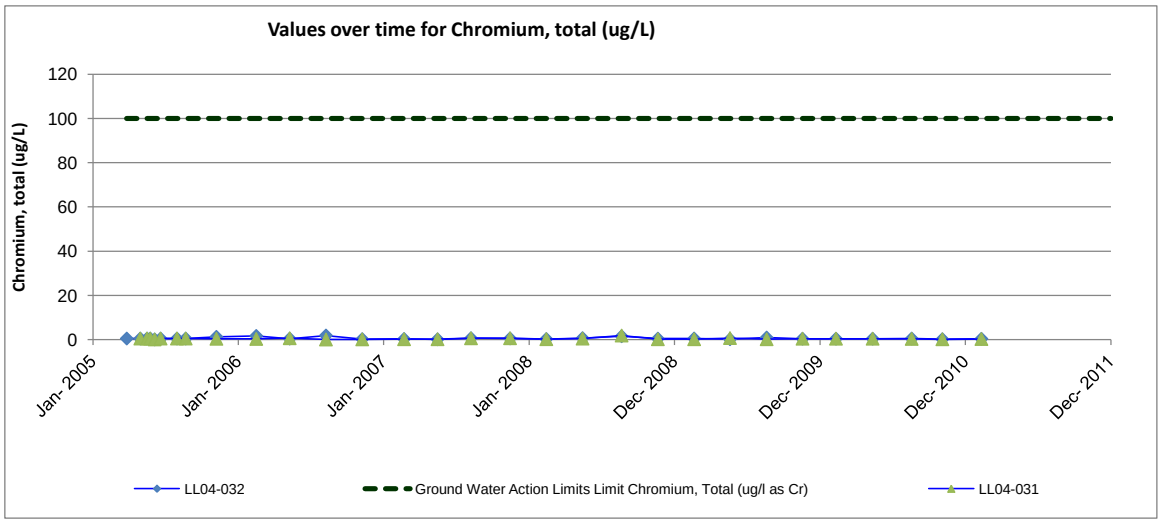

Values over time for Total Dissolved Solids (TDS) (mg/L)
TDS (mg/L)
800
700
600
500
400
300
200
100
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 TDS, Residue,Total Filtrable (Dried At 180C),mg/l
MW04-213 TDS, Residue,Total Filtrable (Dried At 180C),mg/l
MW11-216 TDS, Residue,Total Filtrable (Dried At 180C),mg/l
Ground Water Action Limits Limit TDS, Residue,Total Filtrable (Dried At 180C),mg/l

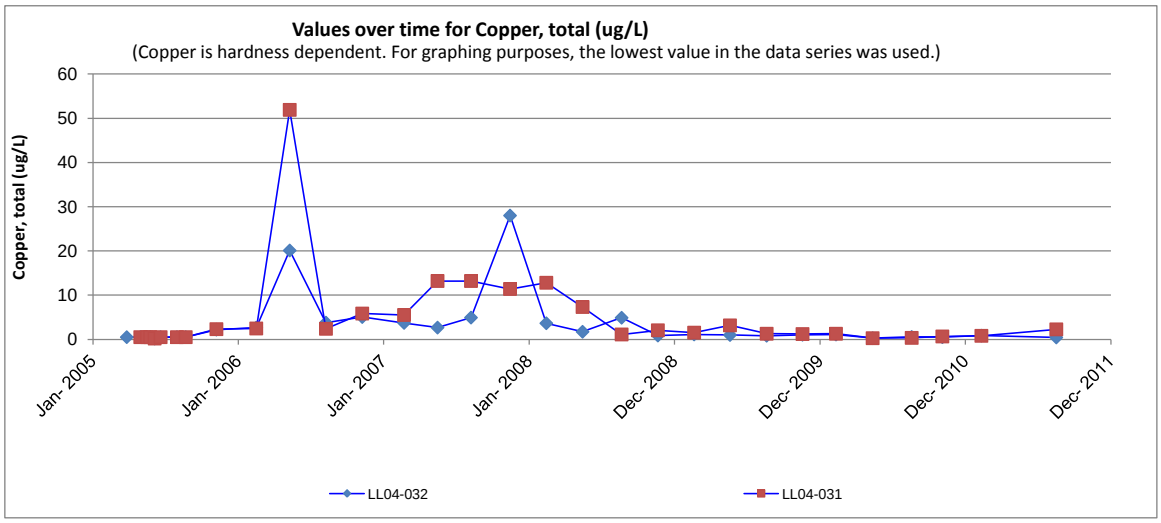

Values over time for Total Kjeldahl Nitrogen (TKN) (mg/L)
TKN (mg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Total Kjeldahl Nitrogen, mg/l as N
MW04-213 Total Kjeldahl Nitrogen, mg/l as N
MW11-216 Total Kjeldahl Nitrogen, mg/l as N

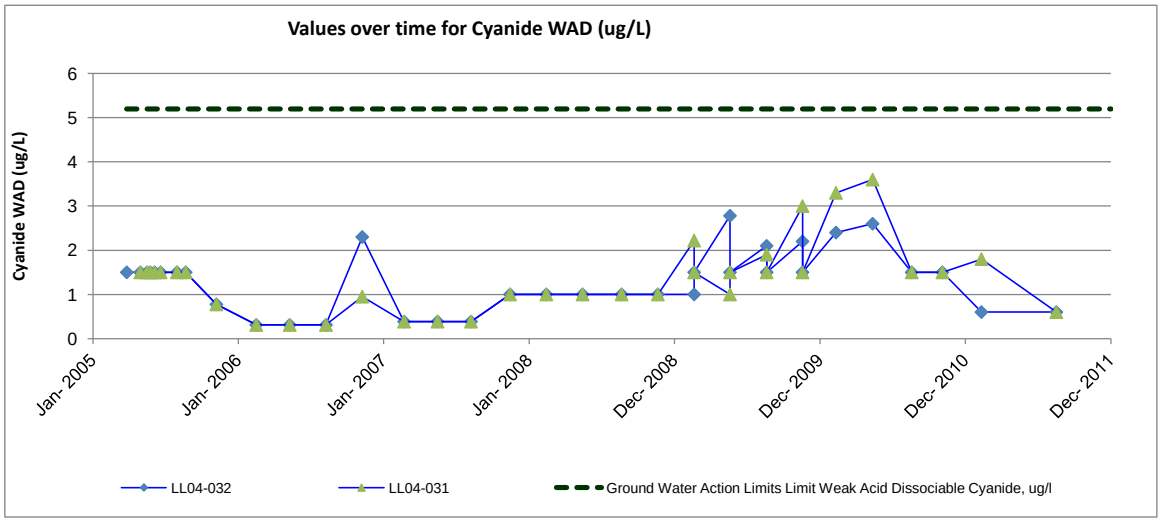

Values over time for Zinc, dissolved (ug/L)
(Zinc is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Zinc, dissolved (ug/L)
50
45
40
35
30
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW99-216 Zinc, Dissolved (ug/l as Zn)
MW04-213 Zinc, Dissolved (ug/l as Zn)
MW11-216 Zinc, Dissolved (ug/l as Zn)
Ground Water Action Limits Limit Zinc, Dissolved (ug/l as Zn)

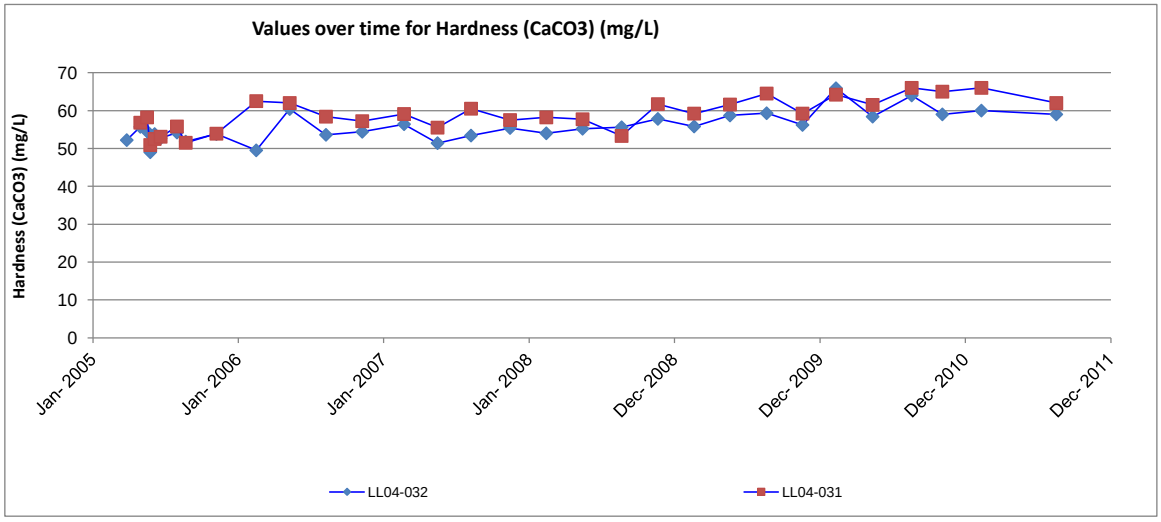

Values over time for Arsenic, total (ug/L)
Arsenic, total (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

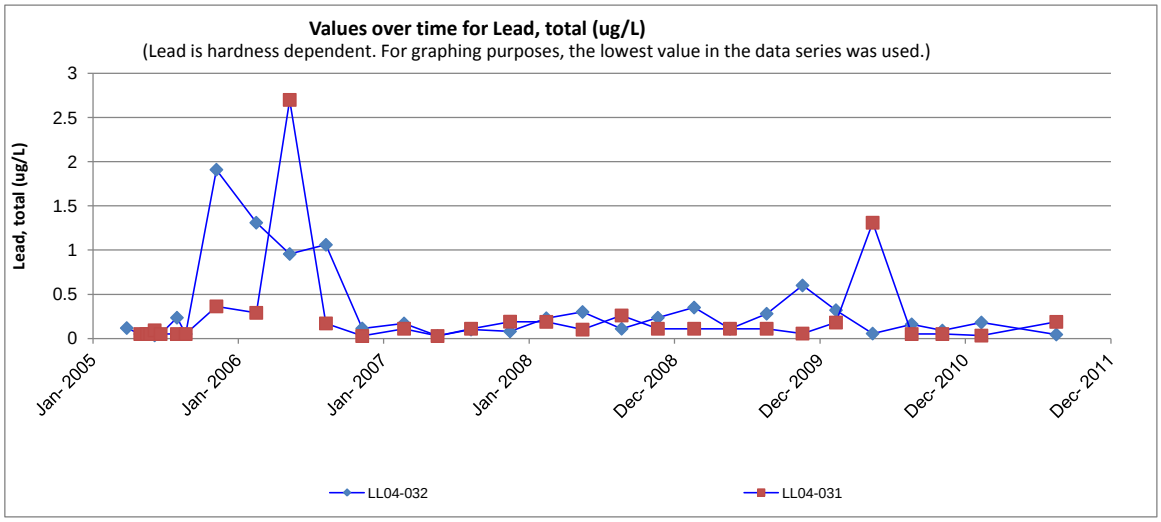

Values over time for Cadmium, total (ug/L)
(Cadmium is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Cadmium, total (ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

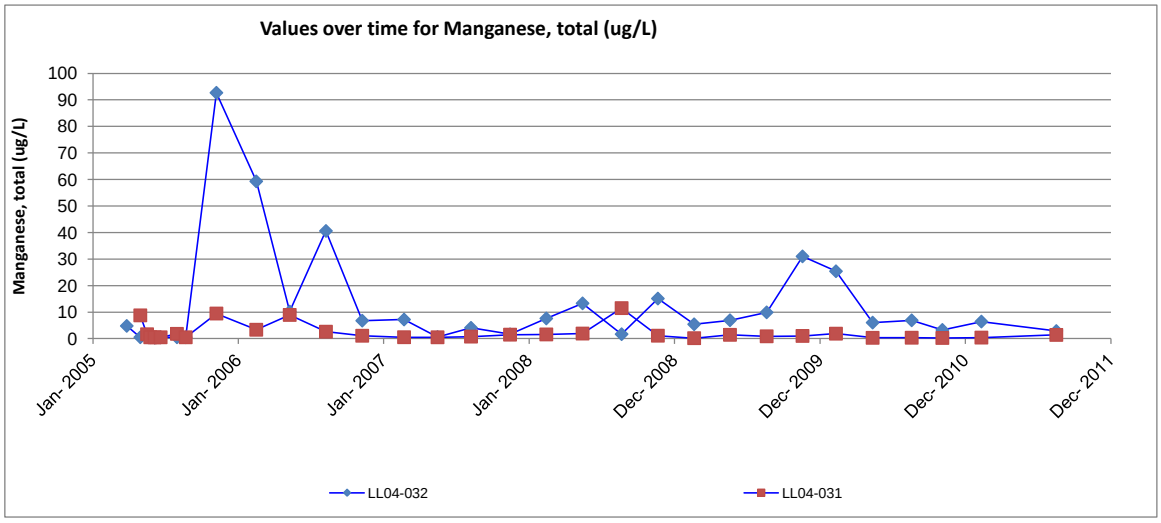

Values over time for Chromium, total (ug/L)
Chromium, total (ug/L)
120
100
80
60
40
20
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
Ground Water Action Limits Limit Chromium, Total (ug/l as Cr)
LL04-031

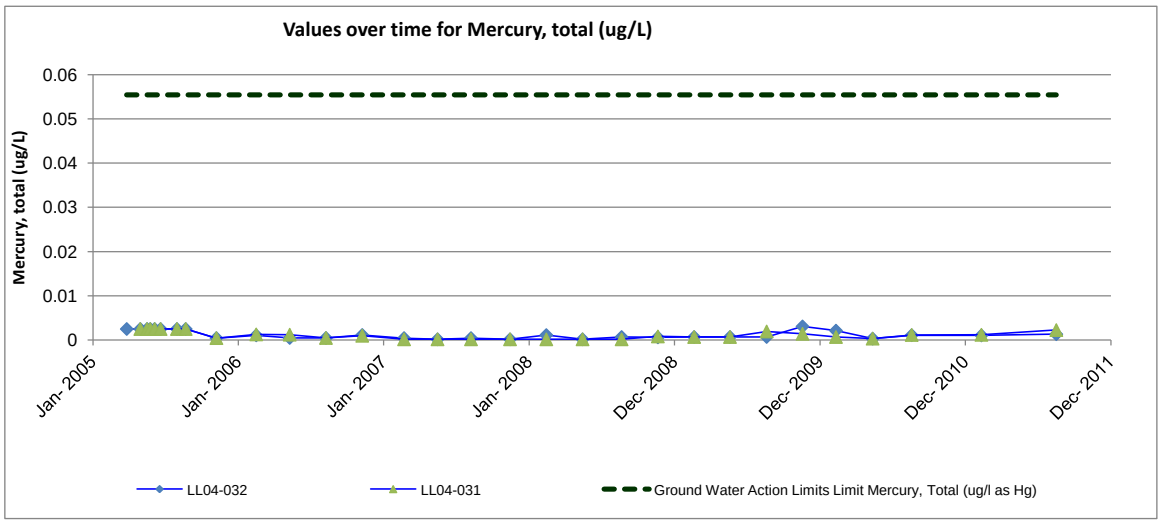

Values over time for Copper, total (ug/L)
(Copper is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Copper, total (ug/L)
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

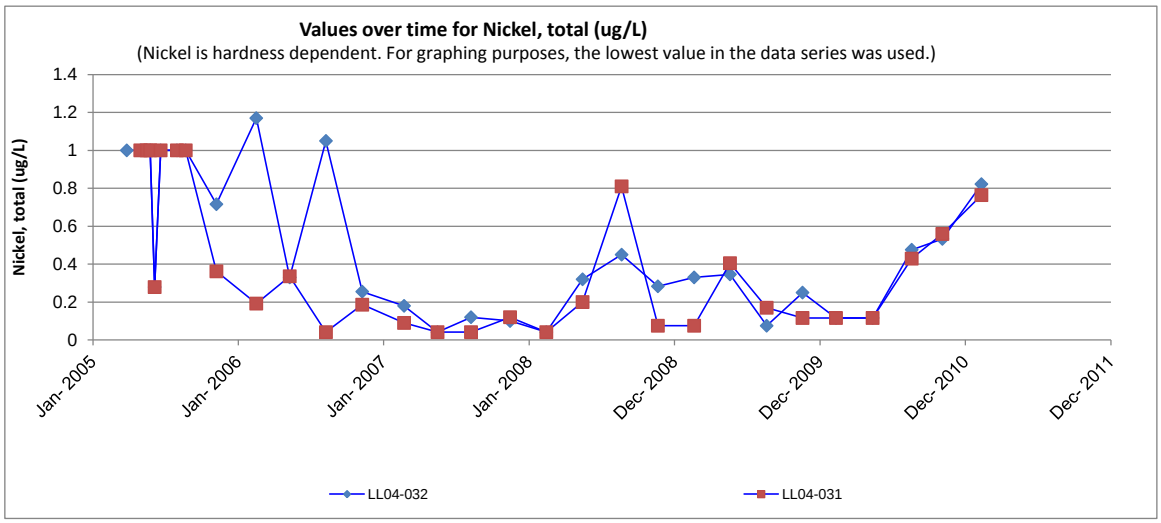

Values over time for Cyanide WAD (ug/L)
Cyanide WAD (ug/L)
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031
Ground Water Action Limits Limit Weak Acid Dissociable Cyanide, ug/l

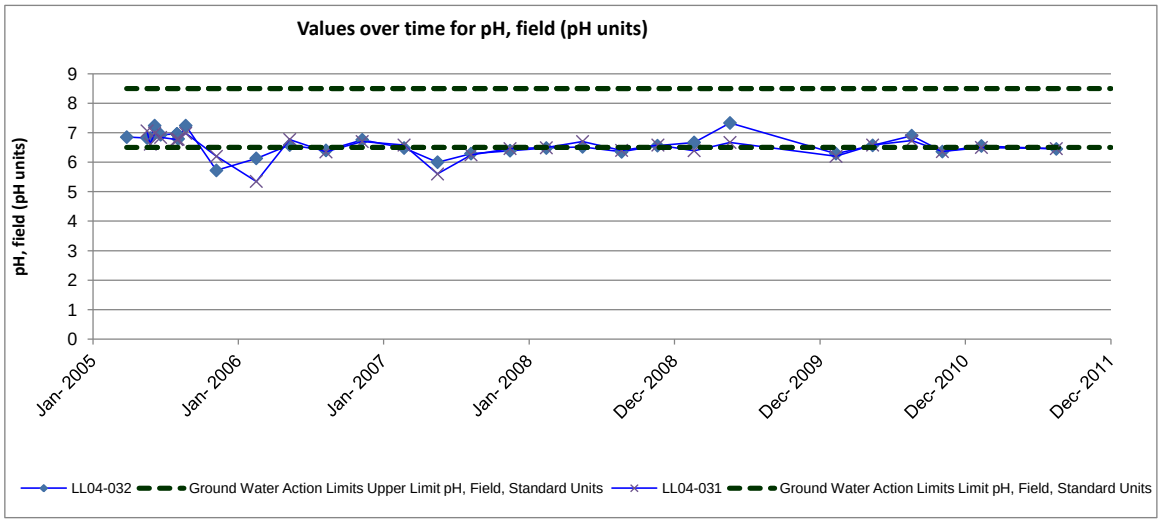

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3) (mg/L)
70
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

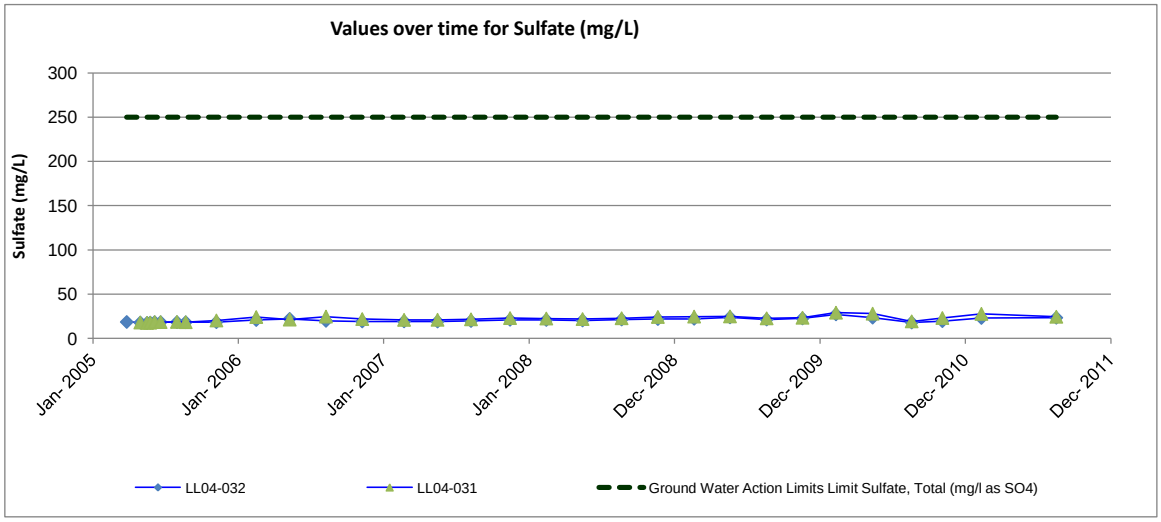

Values over time for Lead, total (ug/L)
(Lead is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Lead, total (ug/L)
3
2.5
2
1.5
1
0.5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

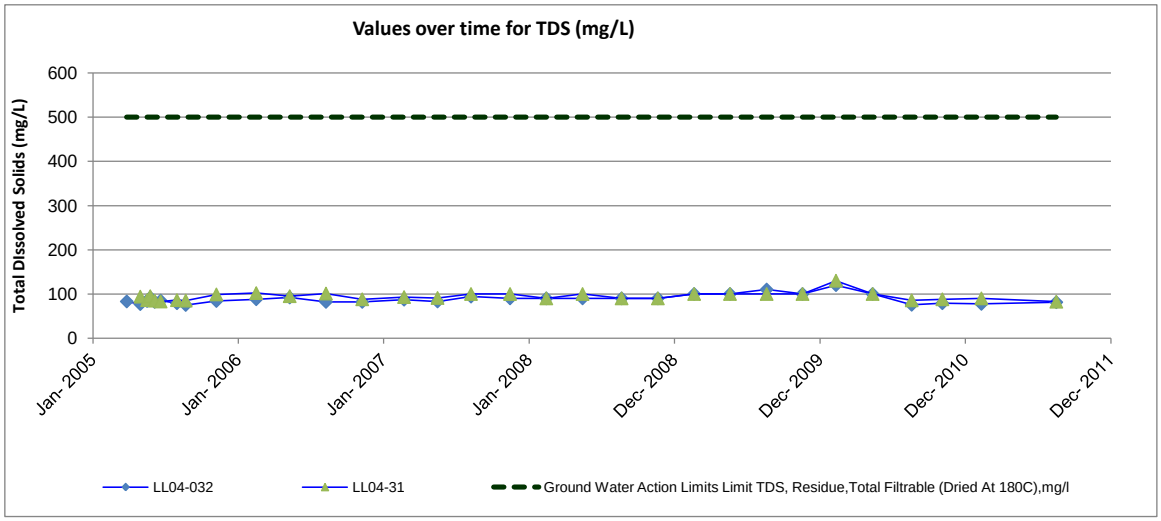

Values over time for Manganese, total (ug/L)
Manganese, total (ug/L)
100
90
80
70
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

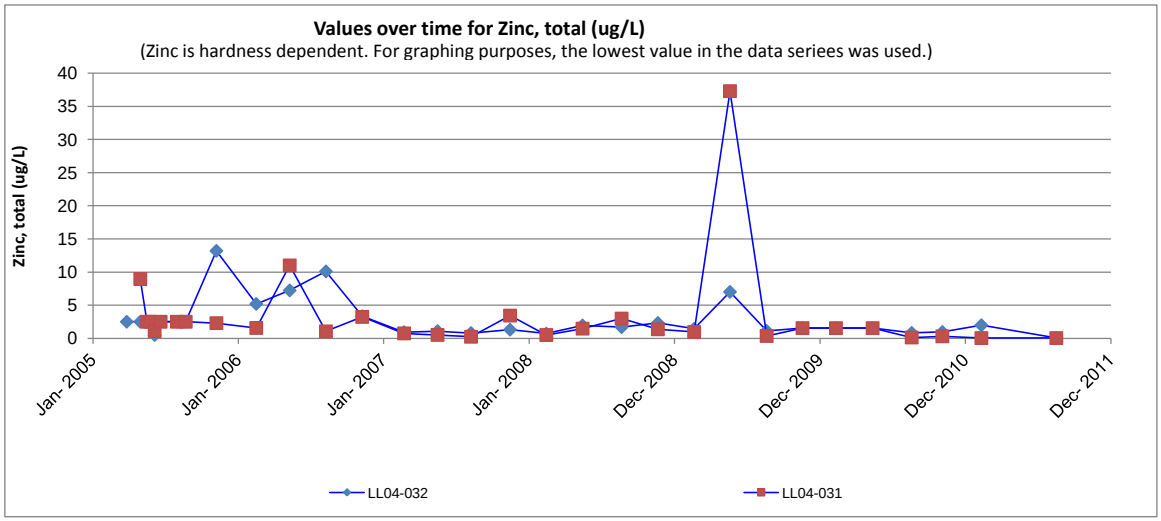

Values over time for Mercury, total (ug/L)
Mercury, total (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031
Ground Water Action Limits Limit Mercury, Total (ug/l as Hg)

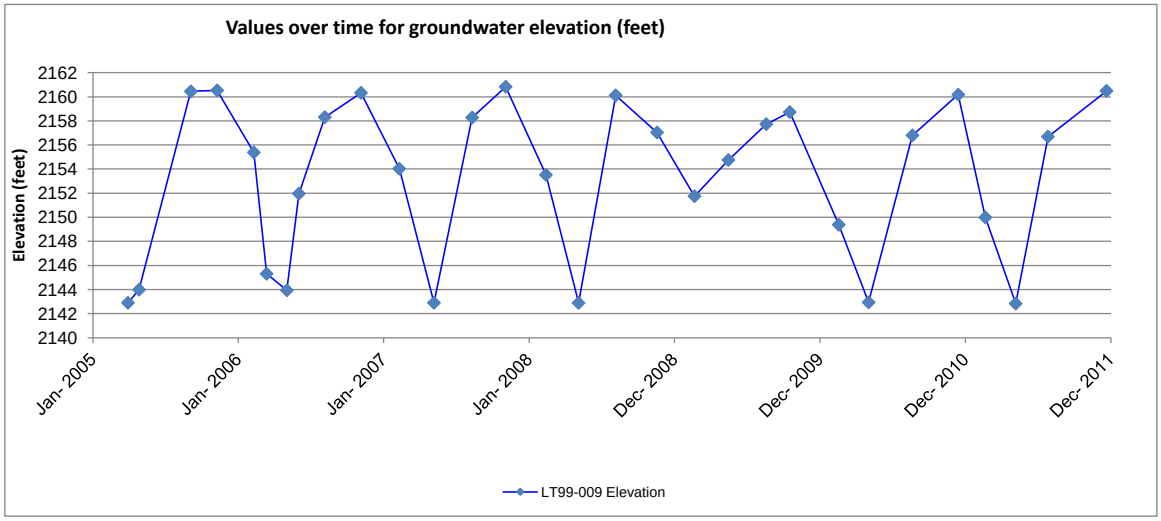

Values over time for Nickel, total (ug/L)
(Nickel is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Nickel, total (ug/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

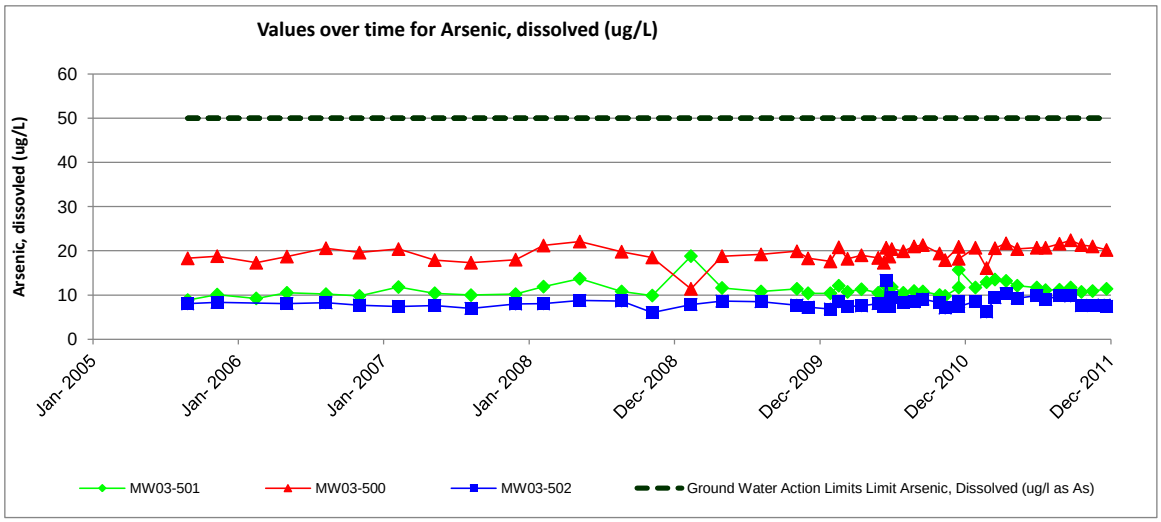

Values over time for pH, field (pH units)
pH, field (pH units)
9
8
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
Ground Water Action Limits Upper Limit pH, Field, Standard Units
LL04-031
Ground Water Action Limits Limit pH, Field, Standard Units

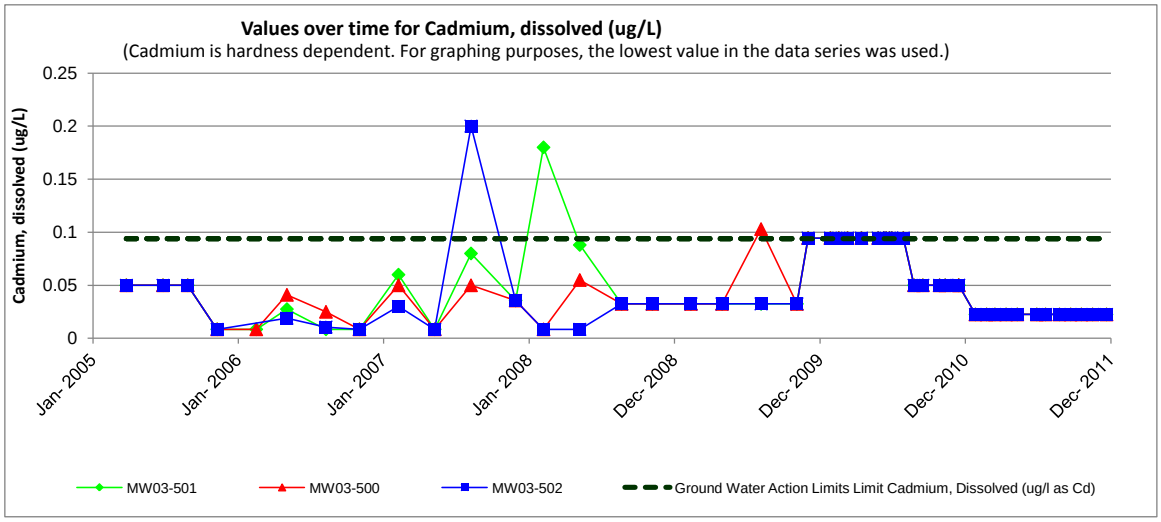

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
300
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031
Ground Water Action Limits Limit Sulfate, Total (mg/l as SO4)

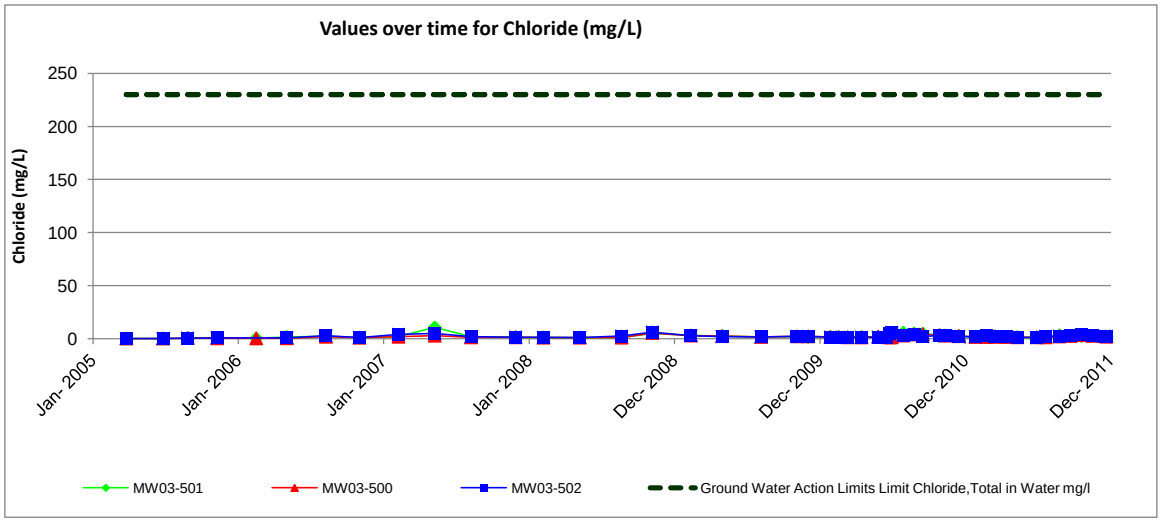

Values over time for TDS (mg/L)
Total Dissolved Solids (mg/L)
600
500
400
300
200
100
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-31
Ground Water Action Limits Limit TDS, Residue,Total Filtrable (Dried At 180C),mg/l

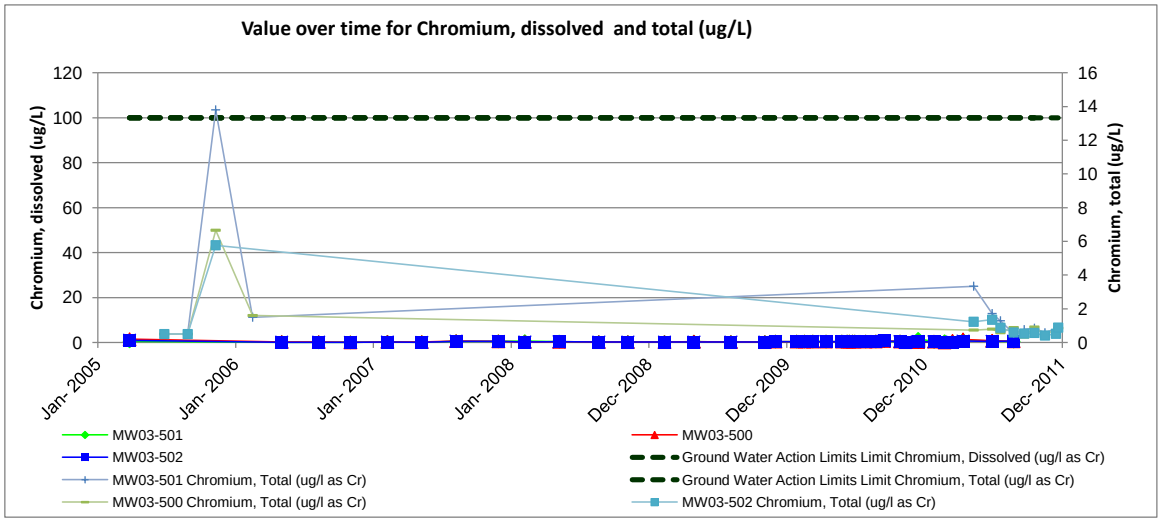

Values over time for Zinc, total (ug/L)
(Zinc is hardness dependent. For graphing purposes, the lowest value in the data seriees was used.)
Zinc, total (ug/L)
40
35
30
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LL04-032
LL04-031

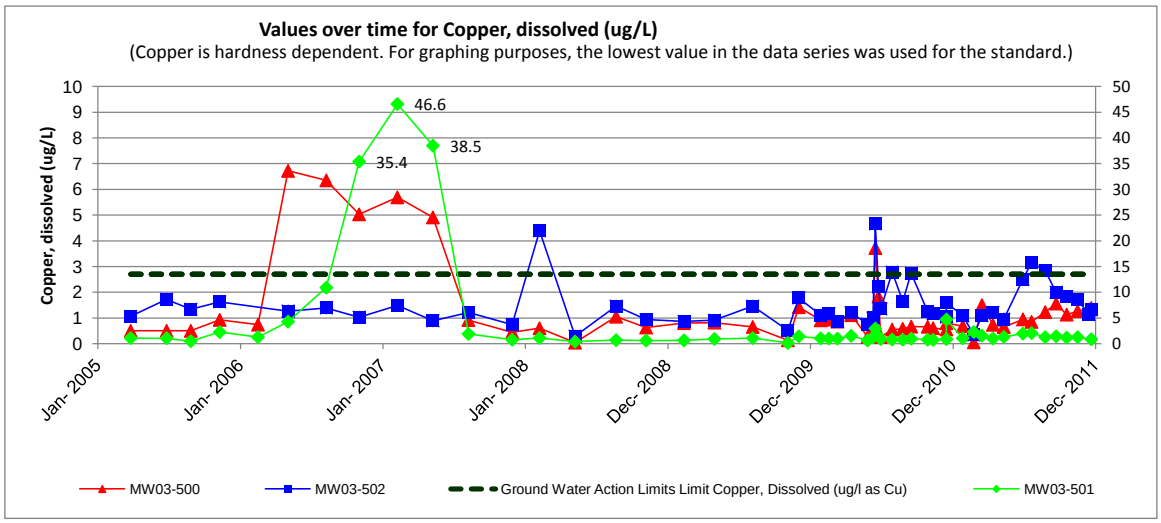

Values over time for groundwater elevation (feet)
Elevation (feet)
2162
2160
2158
2156
2154
2152
2150
2148
2146
2144
2142
2140
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
LT99-009 Elevation

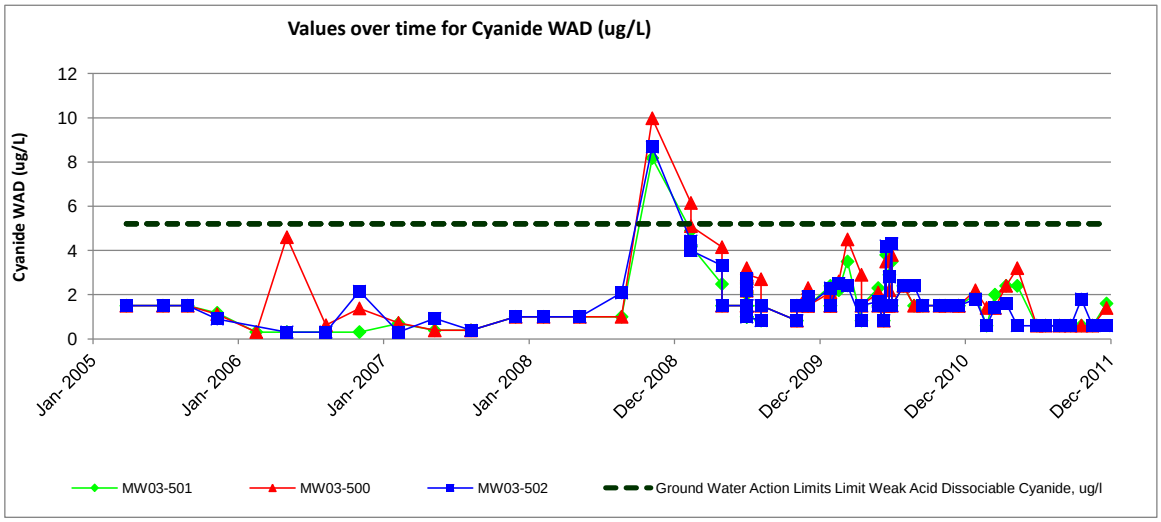

Values over time for Arsenic, dissolved (ug/L)
Arsenic, dissovled (ug/L)
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Arsenic, Dissolved (ug/l as As)

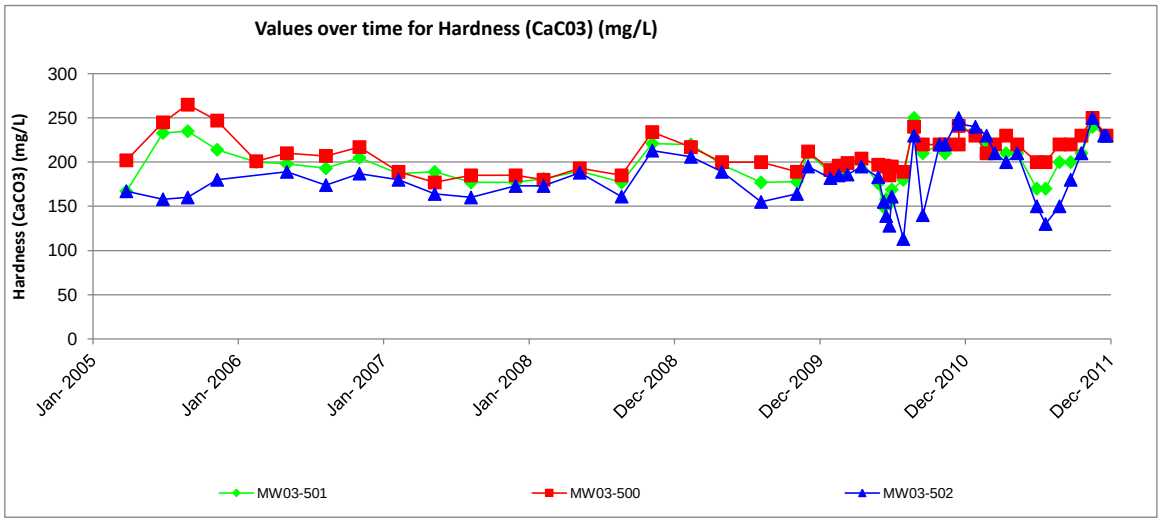

Values over time for Cadmium, dissolved (ug/L)
(Cadmium is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Cadmium, dissolved (ug/L)
0.25
0.2
0.15
0.1
0.05
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Cadmium, Dissolved (ug/l as Cd)

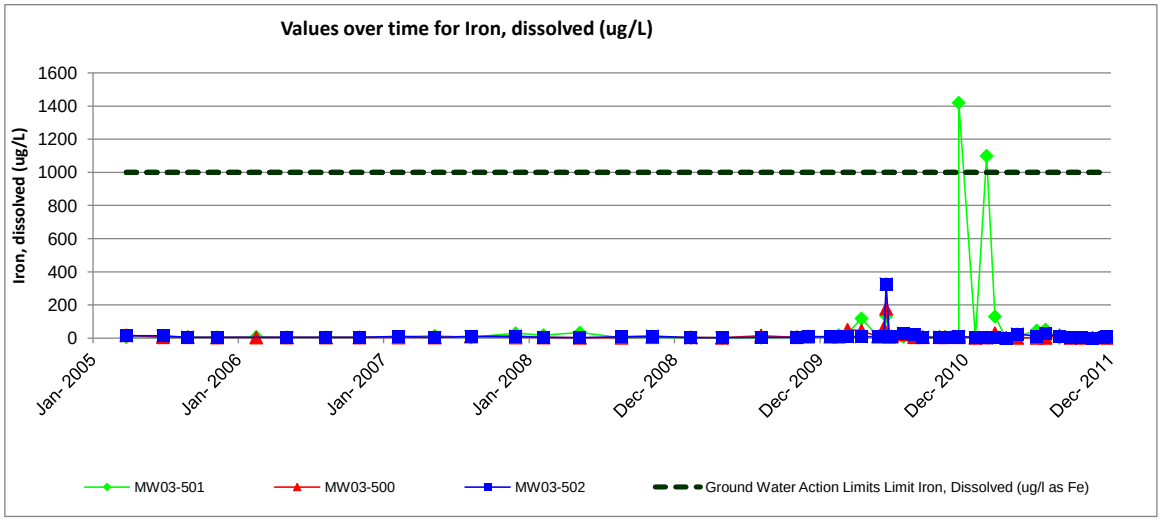

Values over time for Chloride (mg/L)
Chloride (mg/L)
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Chloride,Total in Water mg/l

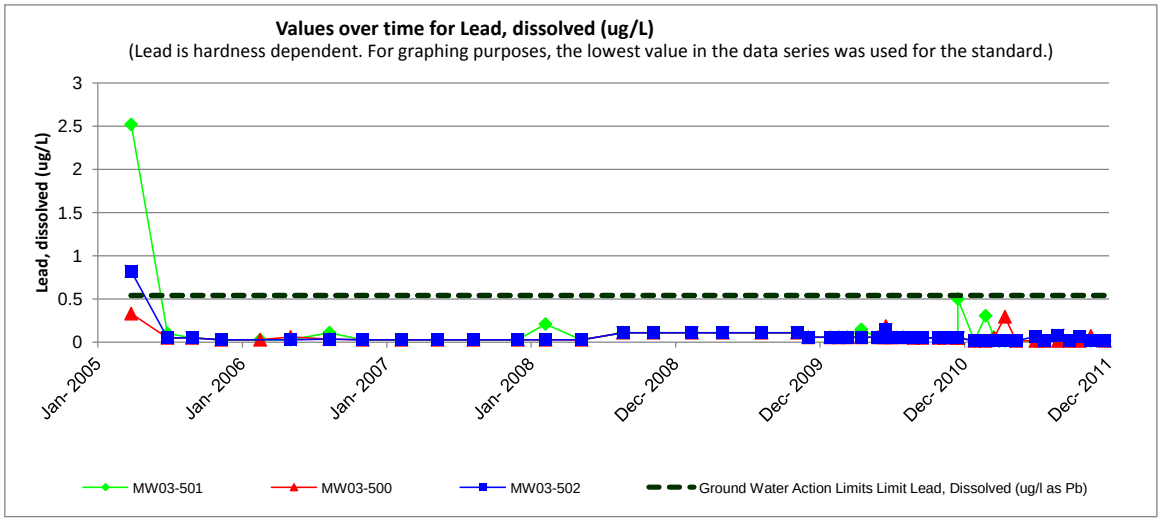

Value over time for Chromium, dissolved and total (ug/L)
Chromium, dissolved (ug/L)
Chromium, total (ug/L)
120
100
80
60
40
20
0
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Chromium, Dissolved (ug/l as Cr)
MW03-501 Chromium, Total (ug/l as Cr)
Ground Water Action Limits Limit Chromium, Total (ug/l as Cr)
MW03-500 Chromium, Total (ug/l as Cr)
MW03-502 Chromium, Total (ug/l as Cr)

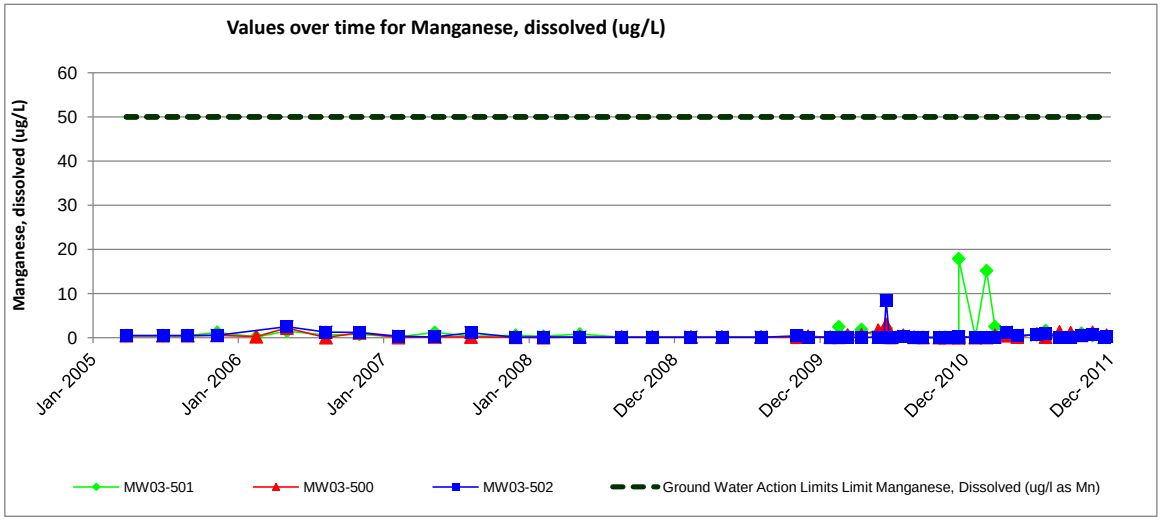

Values over time for Copper, dissolved (ug/L)
(Copper is hardness dependent. For graphing purposes, the lowest value in the data series was used for the standard.)
Copper, dissolved (ug/L)
10
9
8
7
6
5
4
3
2
1
0
50
45
40
35
30
25
20
15
10
5
0
46.6
38.5
35.4
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-500
MW03-502
Ground Water Action Limits Limit Copper, Dissolved (ug/l as Cu)
MW03-501

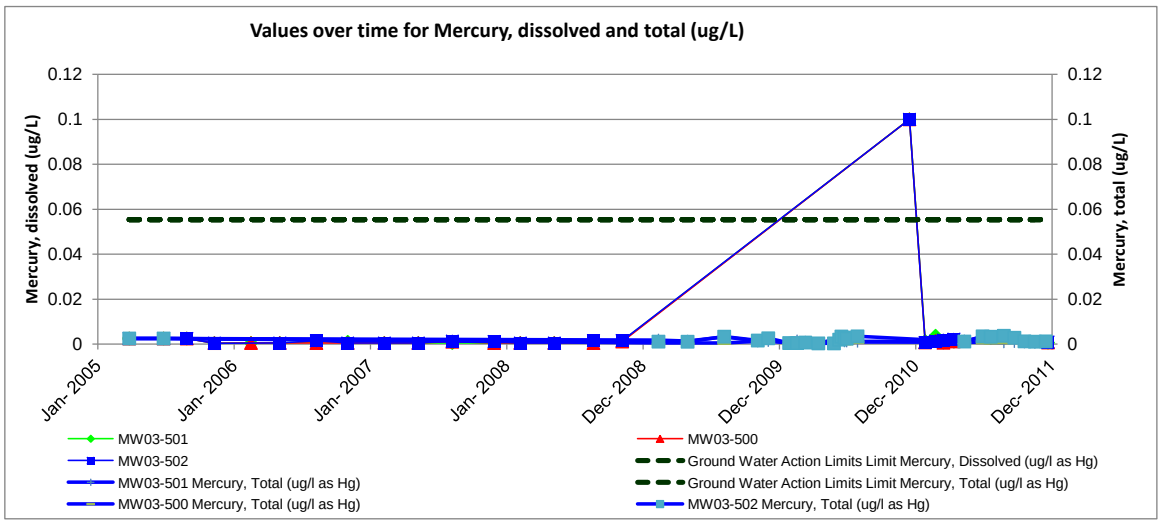

Values over time for Cyanide WAD (ug/L)
Cyanide WAD (ug/L)
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Weak Acid Dissociable Cyanide, ug/l

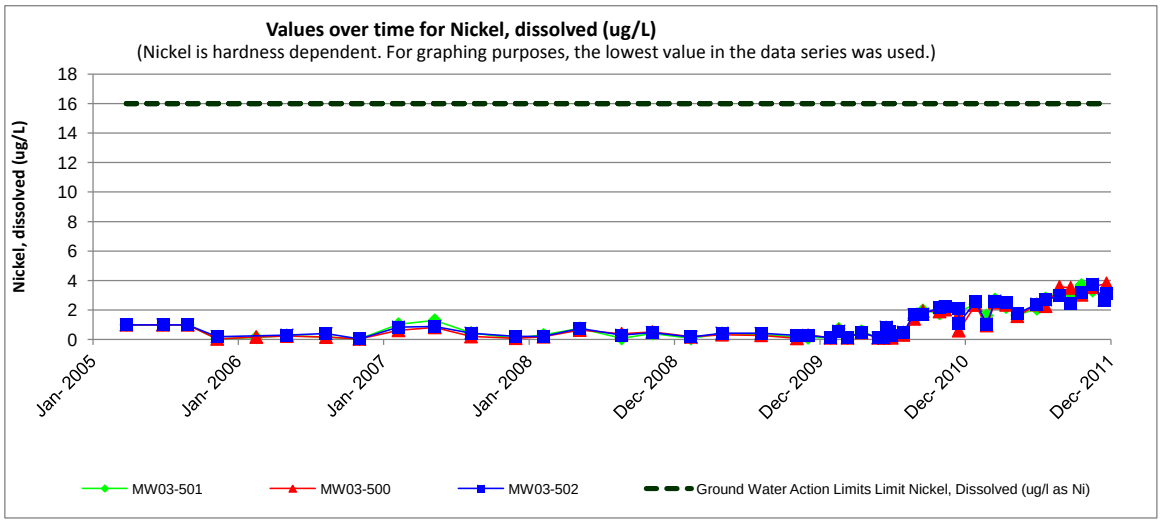

Values over time for Hardness (CaC03) (mg/L)
Hardness (CaCO3) (mg/L)
300
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502

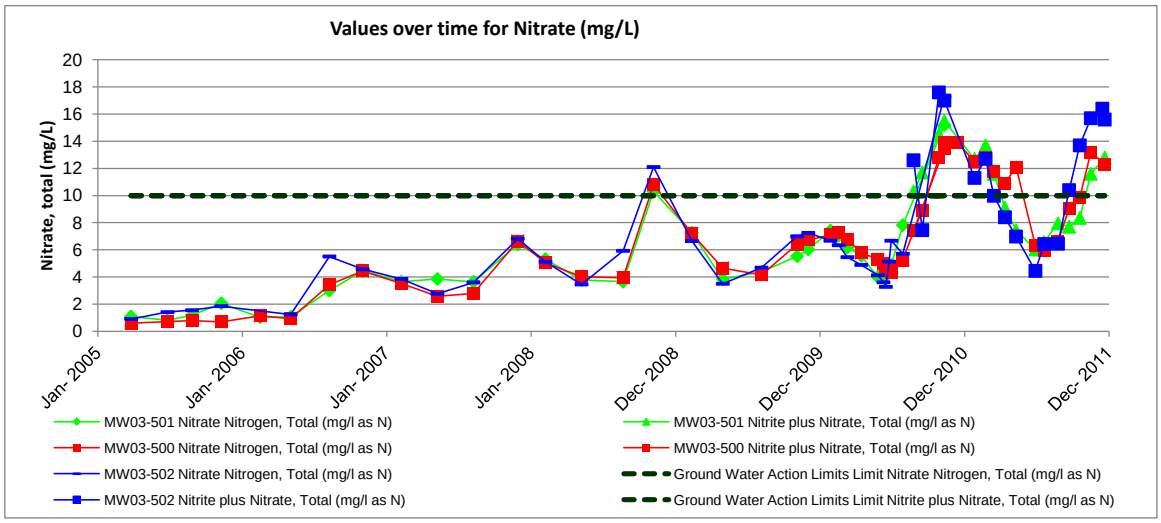

Values over time for Iron, dissolved (ug/L)
Iron, dissolved (ug/L)
1600
1400
1200
1000
800
600
400
200
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Iron, Dissolved (ug/l as Fe)

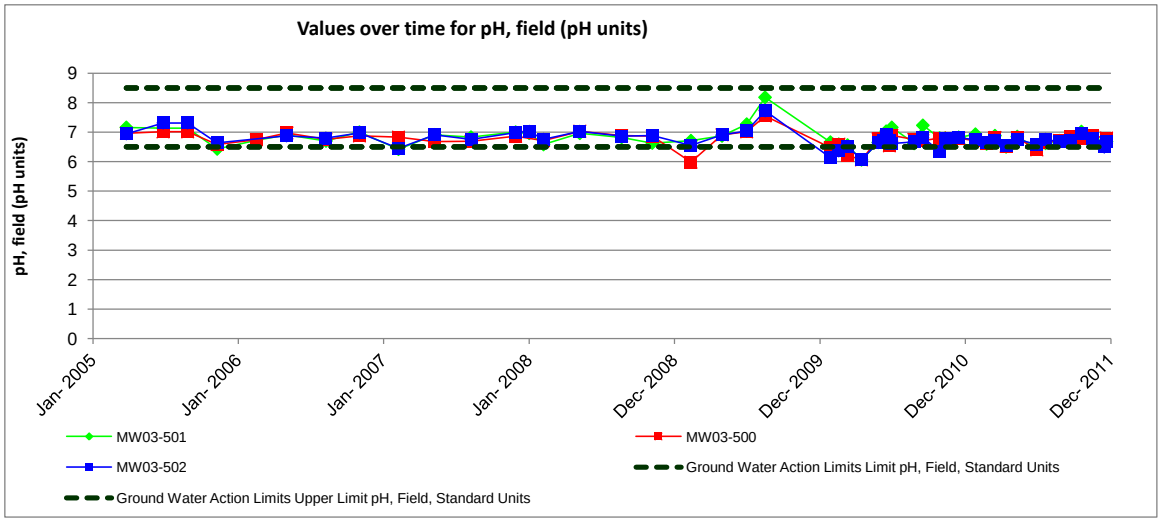

Values over time for Lead, dissolved (ug/L)
(Lead is hardness dependent. For graphing purposes, the lowest value in the data series was used for the standard.)
Lead, dissolved (ug/L)
3
2.5
2
1.5
1
0.5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Lead, Dissolved (ug/l as Pb)

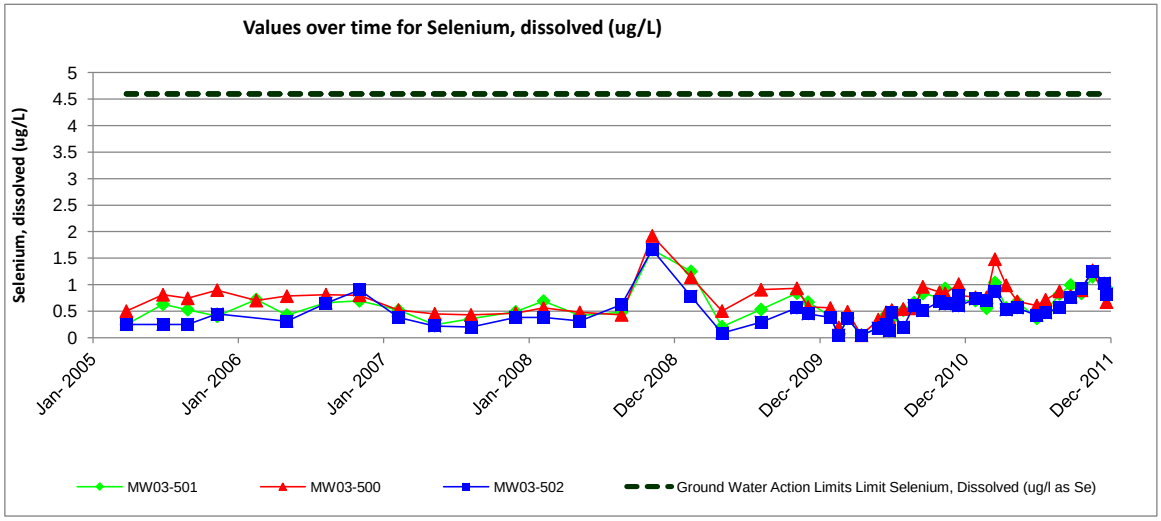

Values over time for Manganese, dissolved (ug/L)
Manganese, dissolved (ug/L)
60
50
40
30
20
10
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Manganese, Dissolved (ug/l as Mn)

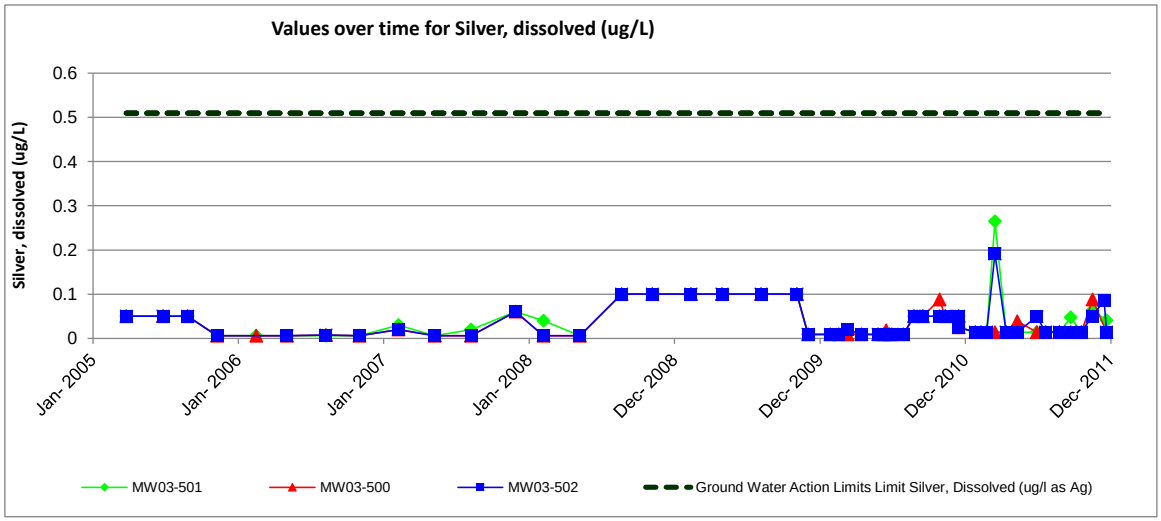

Values over time for Mercury, dissolved and total (ug/L)
Mercury, dissolved (ug/L)
Mercury, total (ug/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Mercury, Dissolved (ug/l as Hg)
MW03-501 Mercury, Total (ug/l as Hg)
Ground Water Action Limits Limit Mercury, Total (ug/l as Hg)
MW03-500 Mercury, Total (ug/l as Hg)
MW03-502 Mercury, Total (ug/l as Hg)

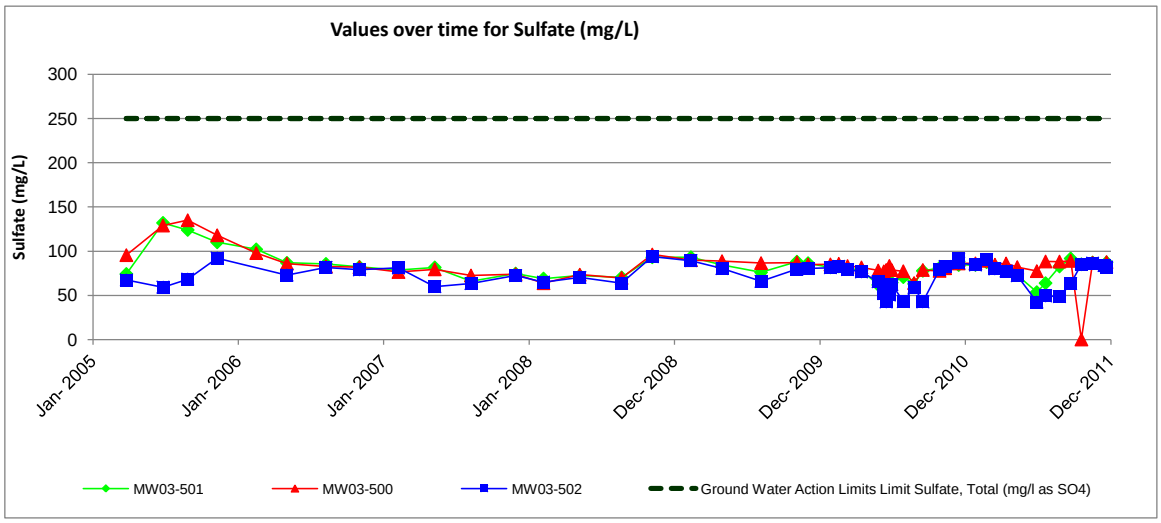

Values over time for Nickel, dissolved (ug/L)
(Nickel is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Nickel, dissolved (ug/L)
18
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Nickel, Dissolved (ug/l as Ni)

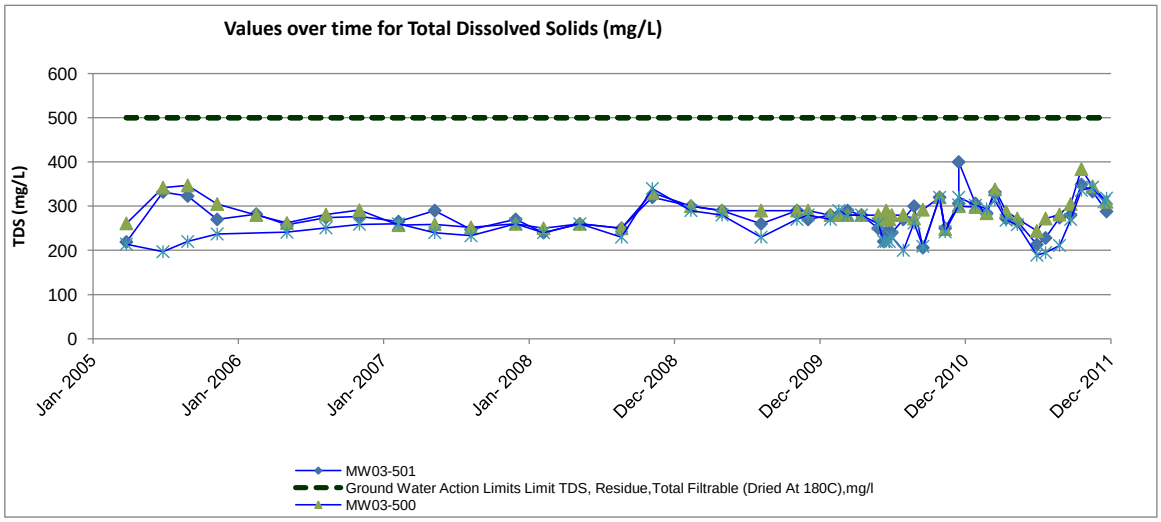

Values over time for Nitrate (mg/L)
Nitrate, total (mg/L)
20
18
16
14
12
10
8
6
4
2
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501 Nitrate Nitrogen, Total (mg/l as N)
MW03-501 Nitrite plus Nitrate, Total (mg/l as N)
MW03-500 Nitrate Nitrogen, Total (mg/l as N)
MW03-500 Nitrite plus Nitrate, Total (mg/l as N)
MW03-502 Nitrate Nitrogen, Total (mg/l as N)
Ground Water Action Limits Limit Nitrate Nitrogen, Total (mg/l as N)
MW03-502 Nitrite plus Nitrate, Total (mg/l as N)
Ground Water Action Limits Limit Nitrite plus Nitrate, Total (mg/l as N)

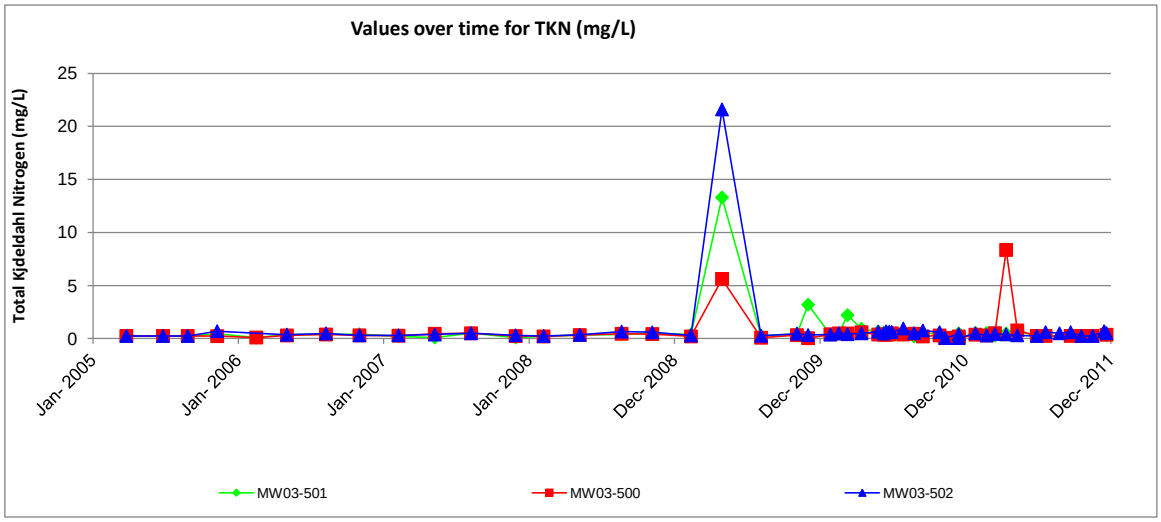

Values over time for pH, field (pH units)
pH, field (pH units)
9
8
7
6
5
4
3
2
1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit pH, Field, Standard Units
Ground Water Action Limits Upper Limit pH, Field, Standard Units

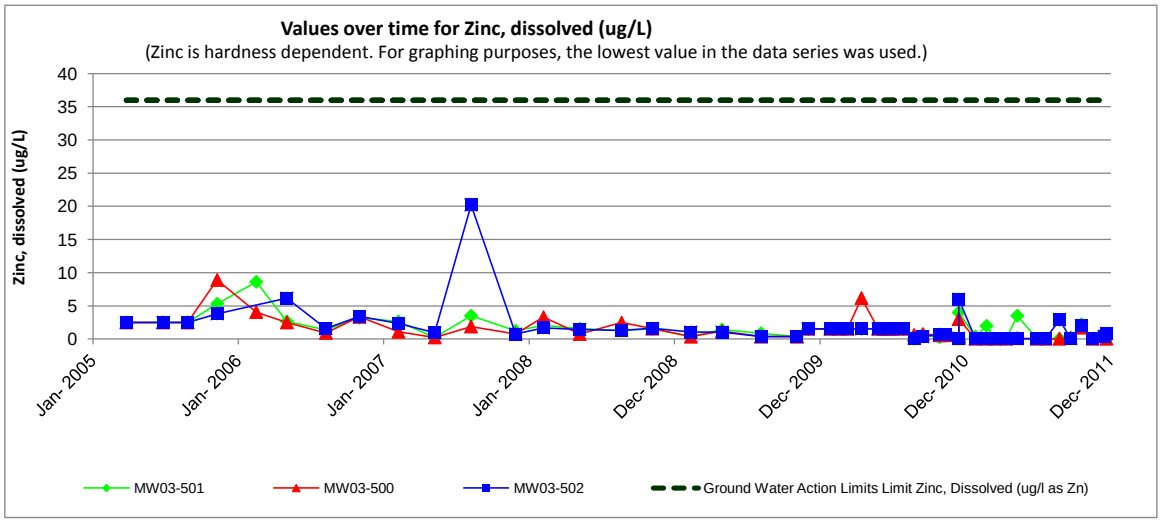

Values over time for Selenium, dissolved (ug/L)
Selenium, dissolved (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Selenium, Dissolved (ug/l as Se)

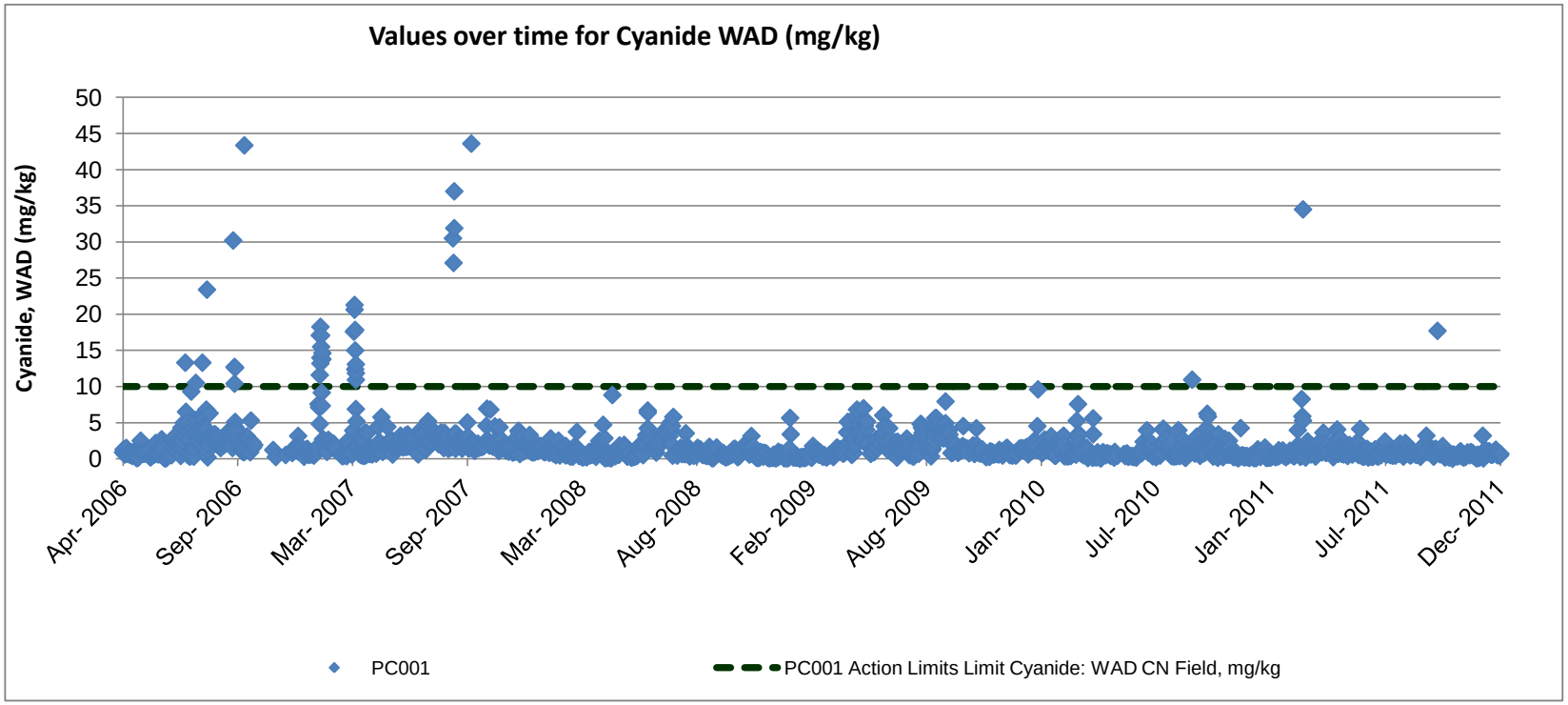

Values over time for Silver, dissolved (ug/L)
Silver, dissolved (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Silver, Dissolved (ug/l as Ag)

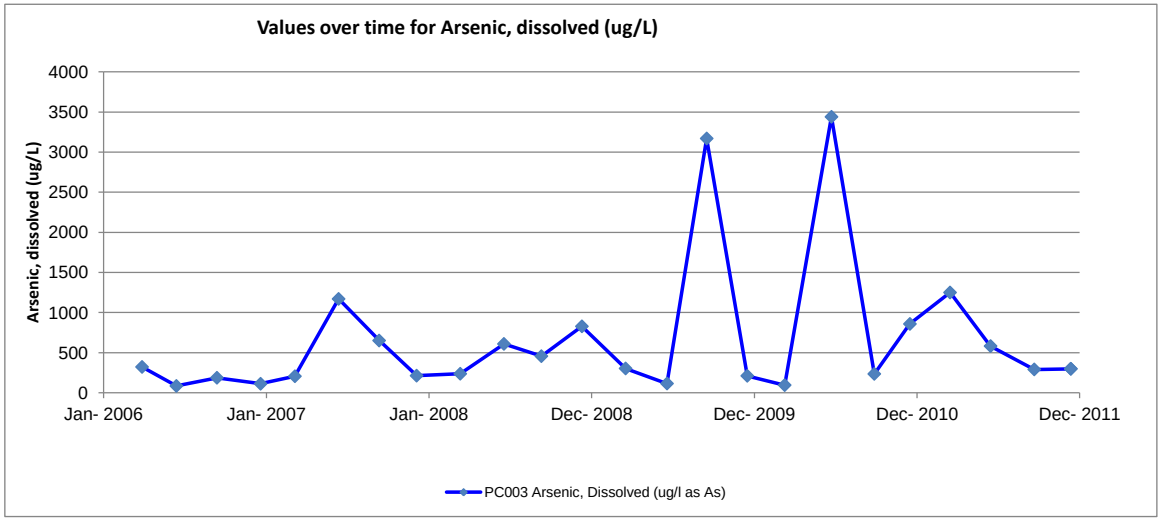

Values over time for Sulfate (mg/L)
Sulfate (mg/L)
300
250
200
150
100
50
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Sulfate, Total (mg/l as SO4)

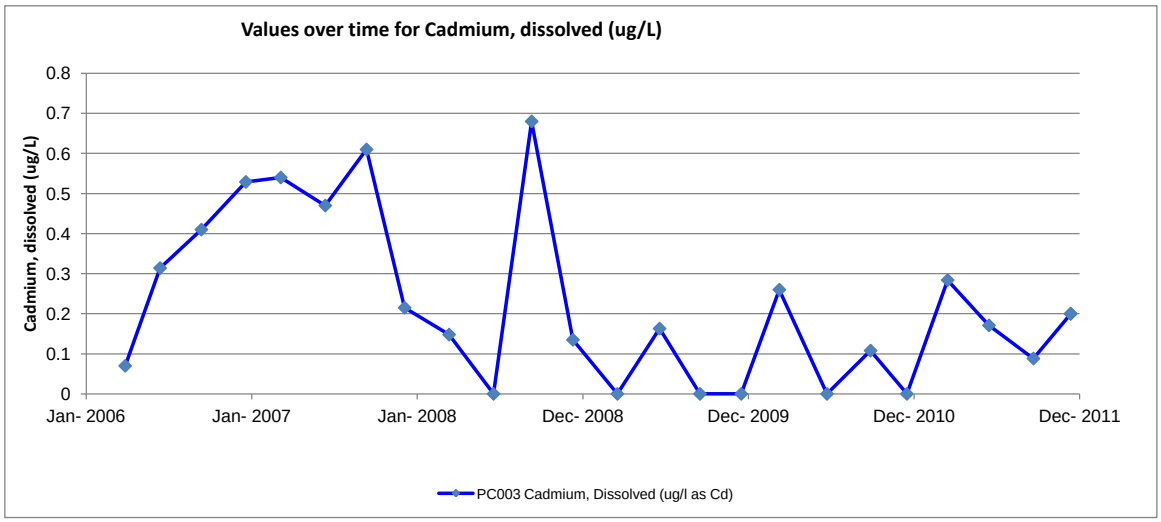

Values over time for Total Dissolved Solids (mg/L)
TDS (mg/L)
600
500
400
300
200
100
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
Ground Water Action Limits Limit TDS, Residue,Total Filtrable (Dried At 180C),mg/l
MW03-500

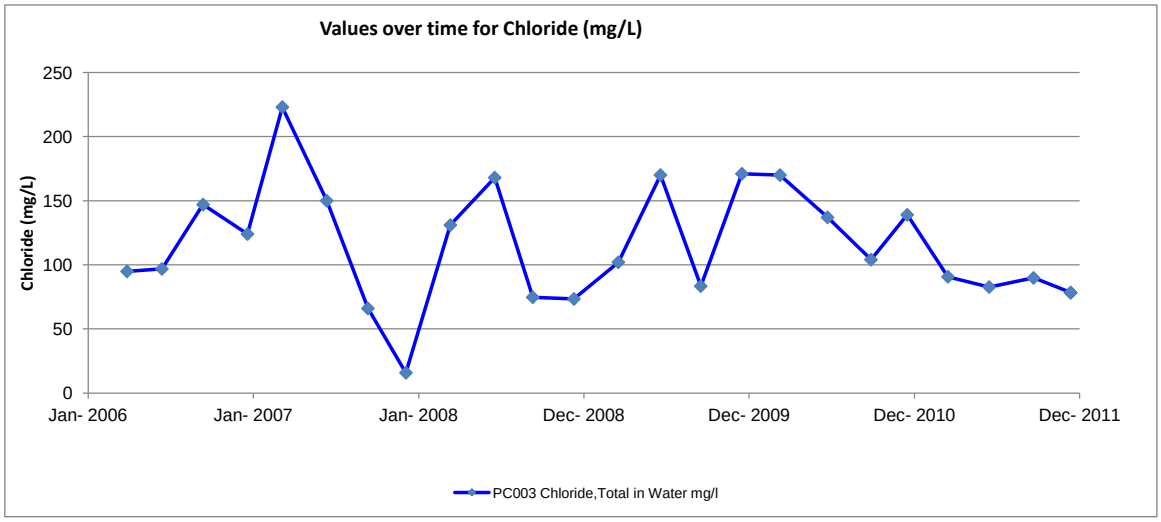

Values over time for TKN (mg/L)
Total Kjeldahl Nitrogen (mg/L)
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502

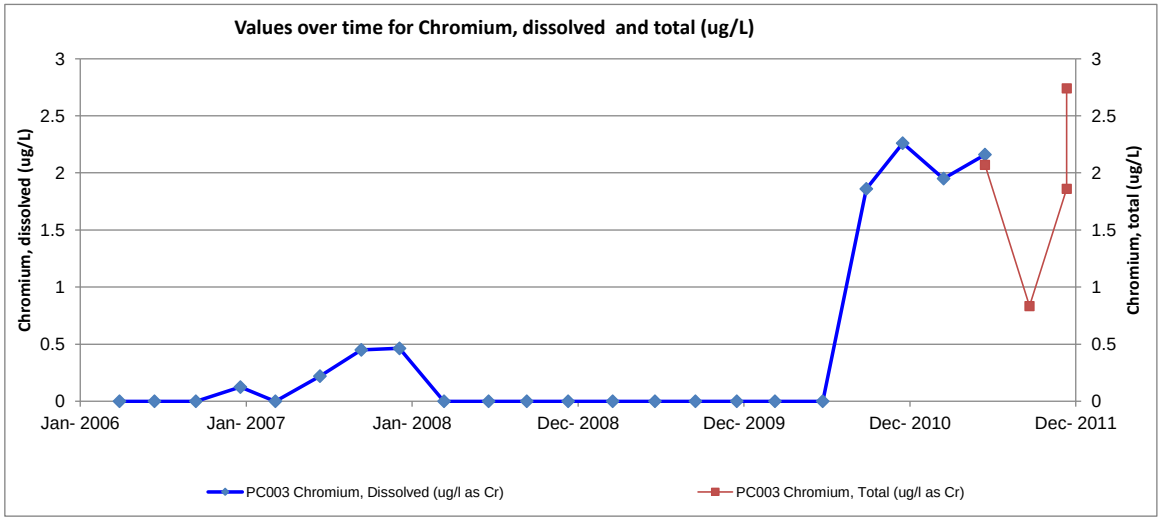

Values over time for Zinc, dissolved (ug/L)
(Zinc is hardness dependent. For graphing purposes, the lowest value in the data series was used.)
Zinc, dissolved (ug/L)
40
35
30
25
20
15
10
5
0
Jan- 2005
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
MW03-501
MW03-500
MW03-502
Ground Water Action Limits Limit Zinc, Dissolved (ug/l as Zn)

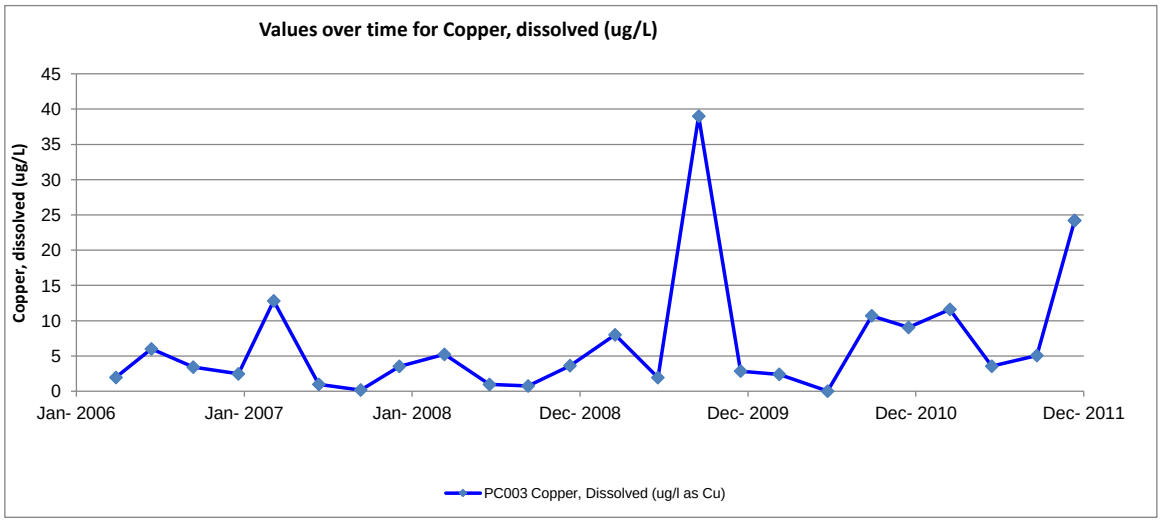

Values over time for Cyanide WAD (mg/kg)
Cyanide, WAD (mg/kg)
50
45
40
35
30
25
20
15
10
5
0
Apr- 2006
Sep- 2006
Mar- 2007
Sep- 2007
Mar- 2008
Aug- 2008
Feb- 2009
Aug- 2009
Jan- 2010
Jul- 2010
Jan- 2011
Jul- 2011
Dec- 2011
PC001
PC001 Action Limits Limit Cyanide: WAD CN Field, mg/kg

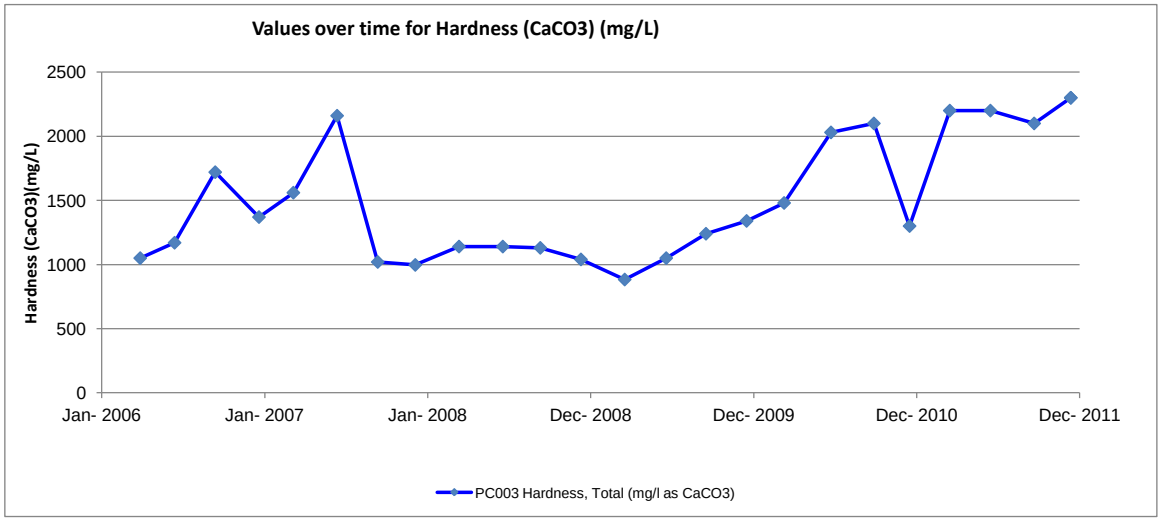

Values over time for Arsenic, dissolved (ug/L)
Arsenic, dissolved (ug/L)
4000
3500
3000
2500
2000
1500
1000
500
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Arsenic, Dissolved (ug/l as As)

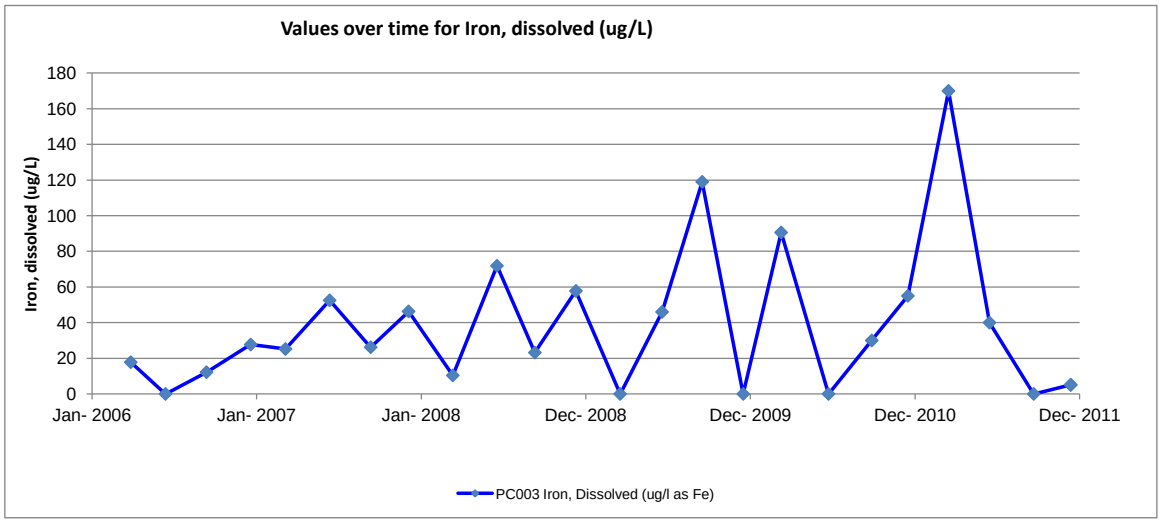

Values over time for Cadmium, dissolved (ug/L)
Cadmium, dissolved (ug/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Cadmium, Dissolved (ug/l as Cd)

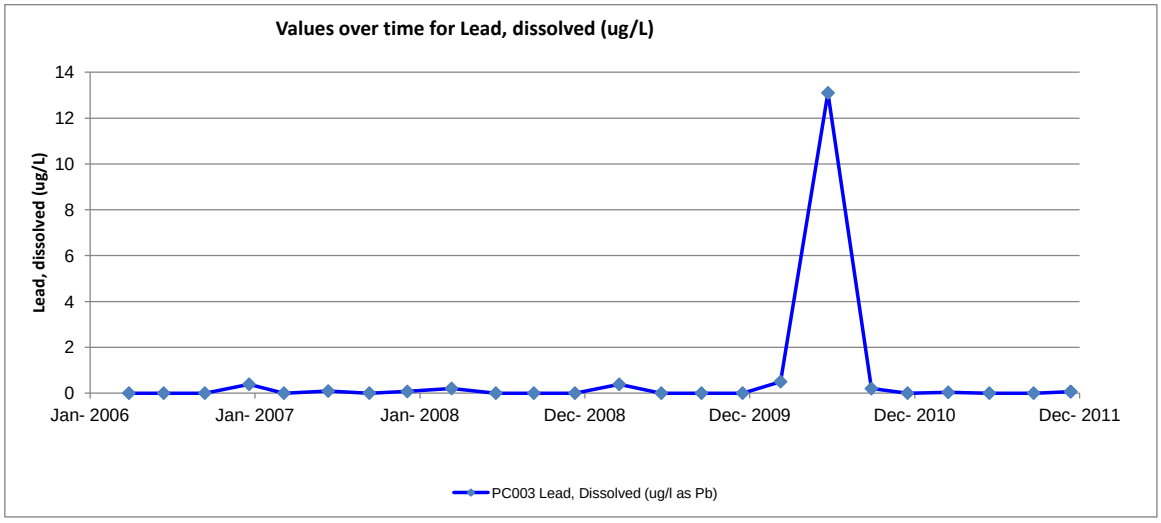

Values over time for Chloride (mg/L)
Chloride (mg/L)
250
200
150
100
50
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Chloride,Total in Water mg/l

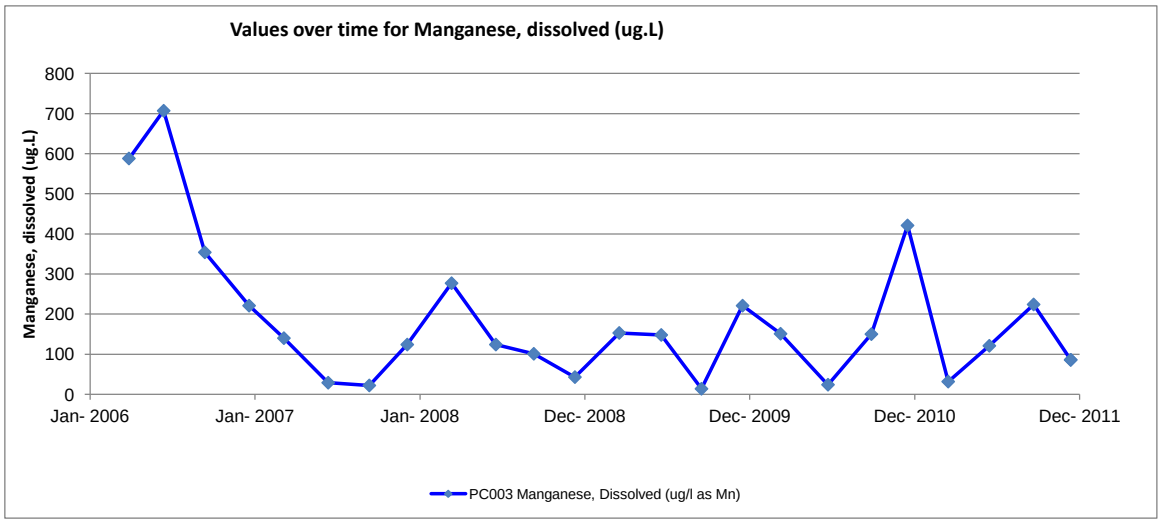

Values over time for Chromium, dissolved and total (ug/L)
Chromium, dissolved (ug/L)
Chromium, total (ug/L)
3
2.5
2
1.5
1
0.5
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Chromium, Dissolved (ug/l as Cr)
PC003 Chromium, Total (ug/l as Cr)

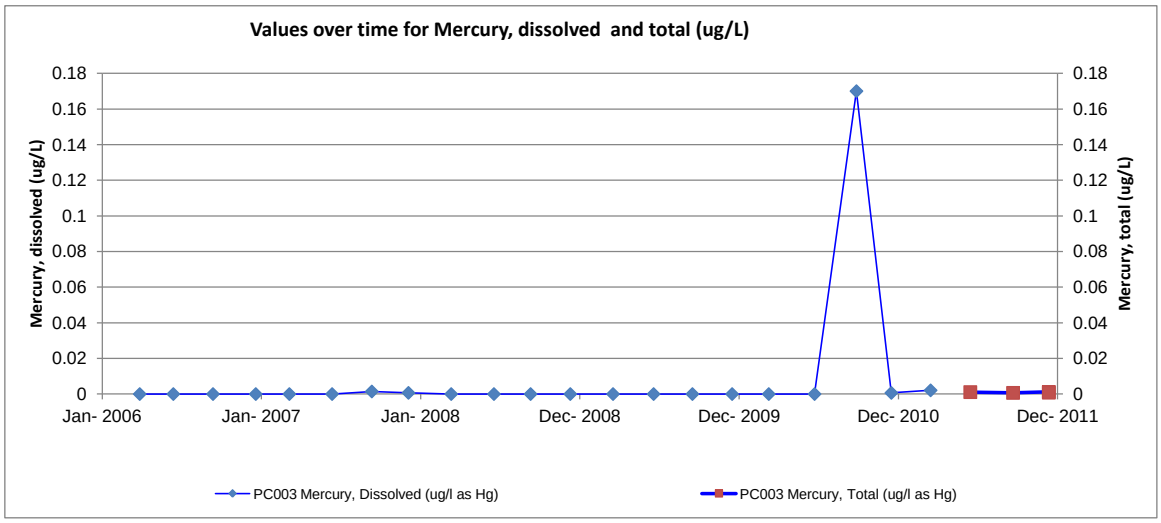

Values over time for Copper, dissolved (ug/L)
Copper, dissolved (ug/L)
45
40
35
30
25
20
15
10
5
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Copper, Dissolved (ug/l as Cu)

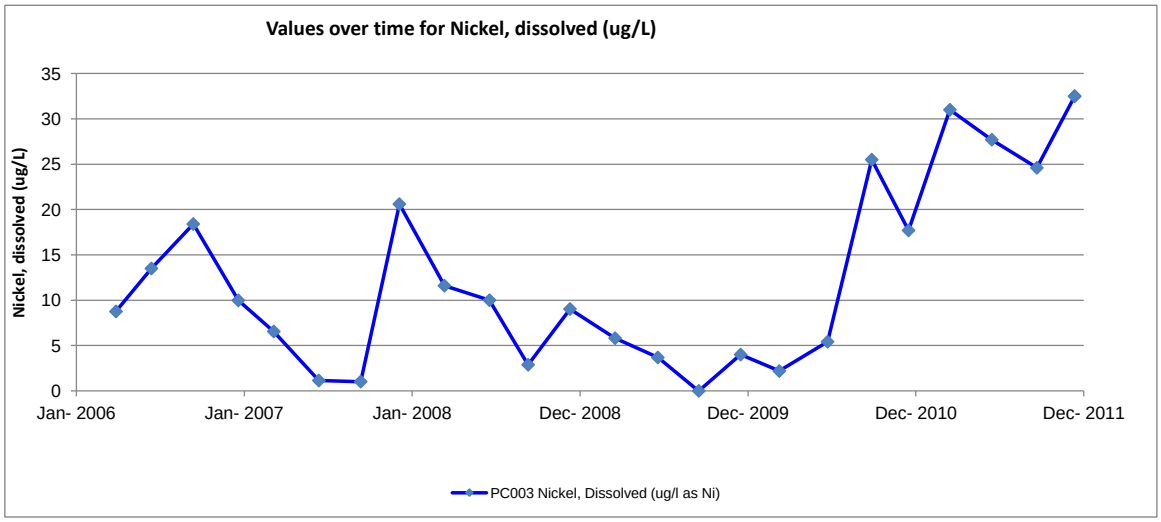

Values over time for Hardness (CaCO3) (mg/L)
Hardness (CaCO3)(mg/L)
2500
2000
1500
1000
500
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Hardness, Total (mg/l as CaCO3)

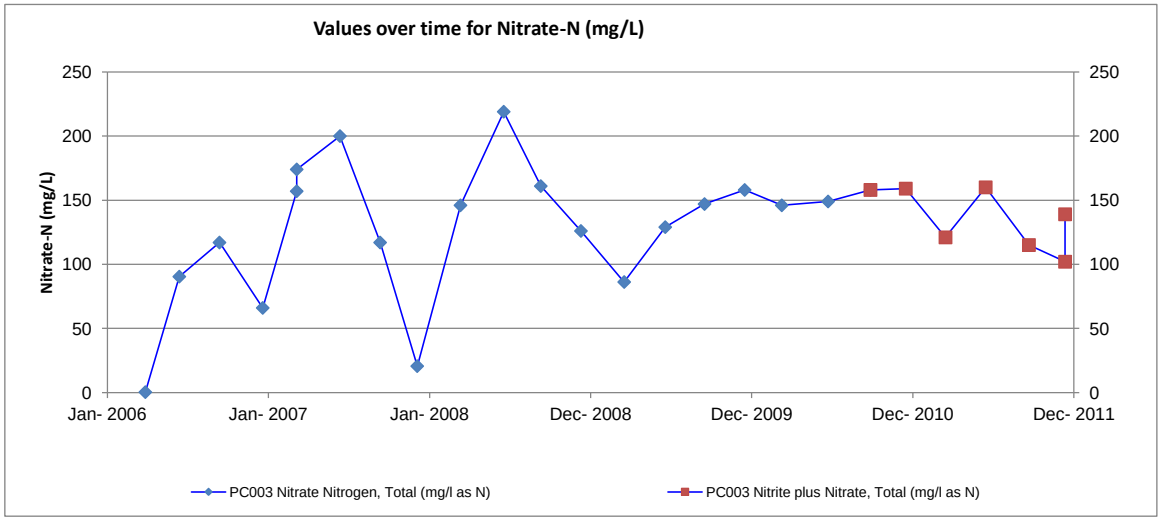

Values over time for Iron, dissolved (ug/L)
Iron, dissolved (ug/L)
180
160
140
120
100
80
60
40
20
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Iron, Dissolved (ug/l as Fe)

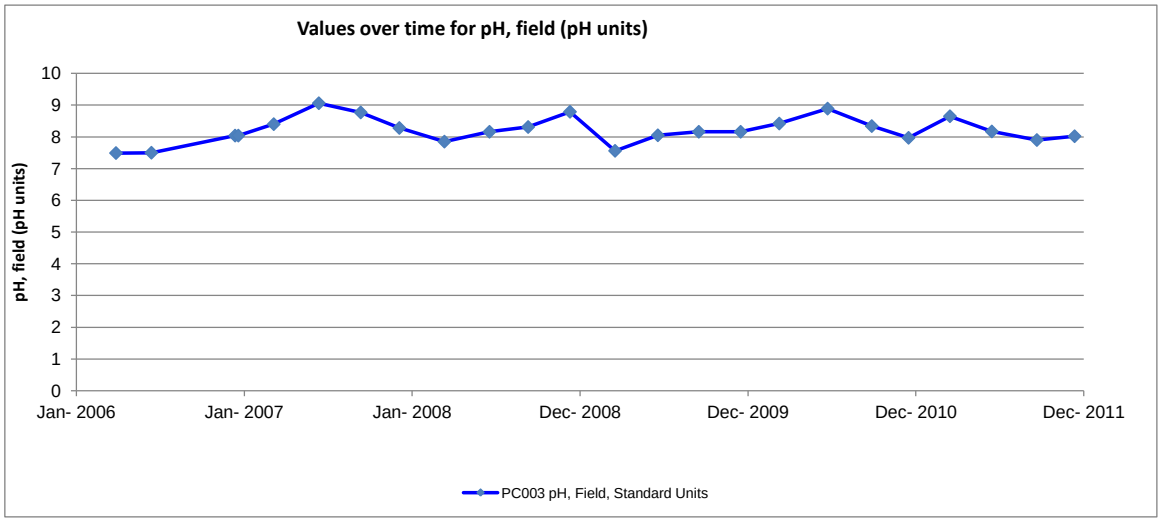

Values over time for Lead, dissolved (ug/L)
Lead, dissolved (ug/L)
14
12
10
8
6
4
2
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Lead, Dissolved (ug/l as Pb)

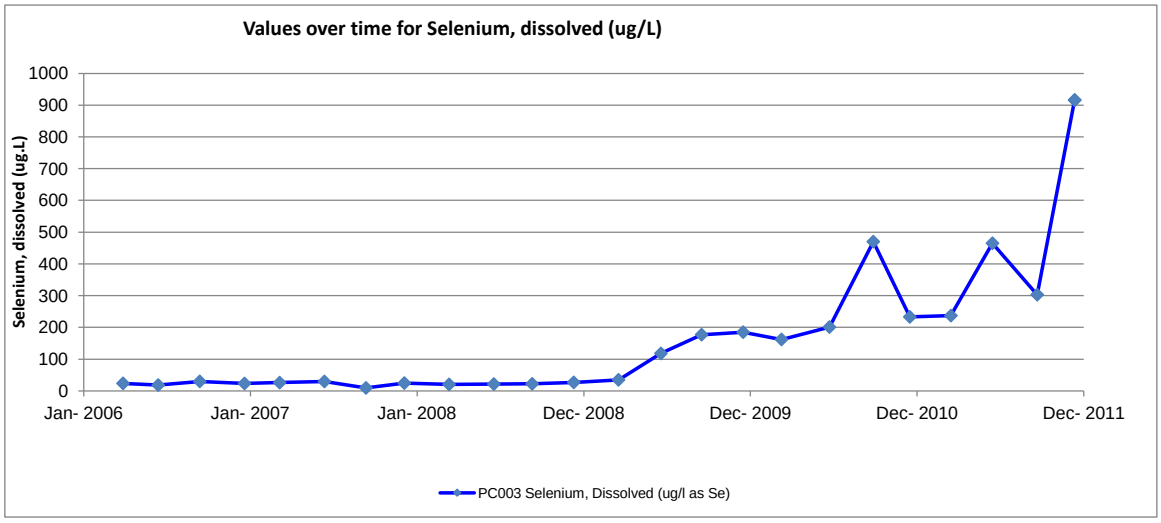

Values over time for Manganese, dissolved (ug.L)
Manganese, dissolved (ug.L)
800
700
600
500
400
300
200
100
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Manganese, Dissolved (ug/l as Mn)

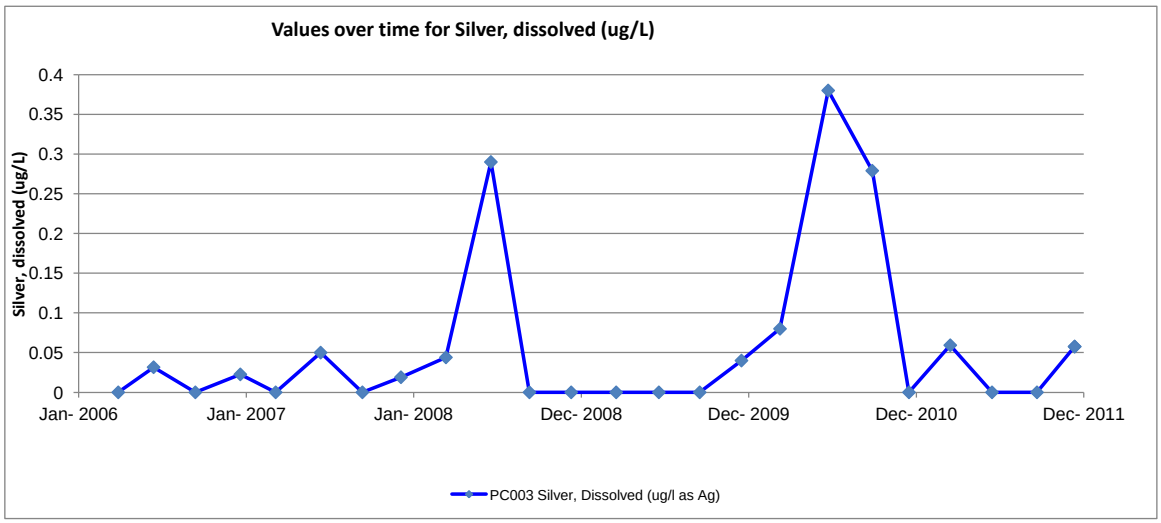

Values over time for Mercury, dissolved and total (ug/L)
Mercury, dissolved (ug/L)
Mercury, total (ug/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Mercury, Dissolved (ug/l as Hg)
PC003 Mercury, Total (ug/l as Hg)

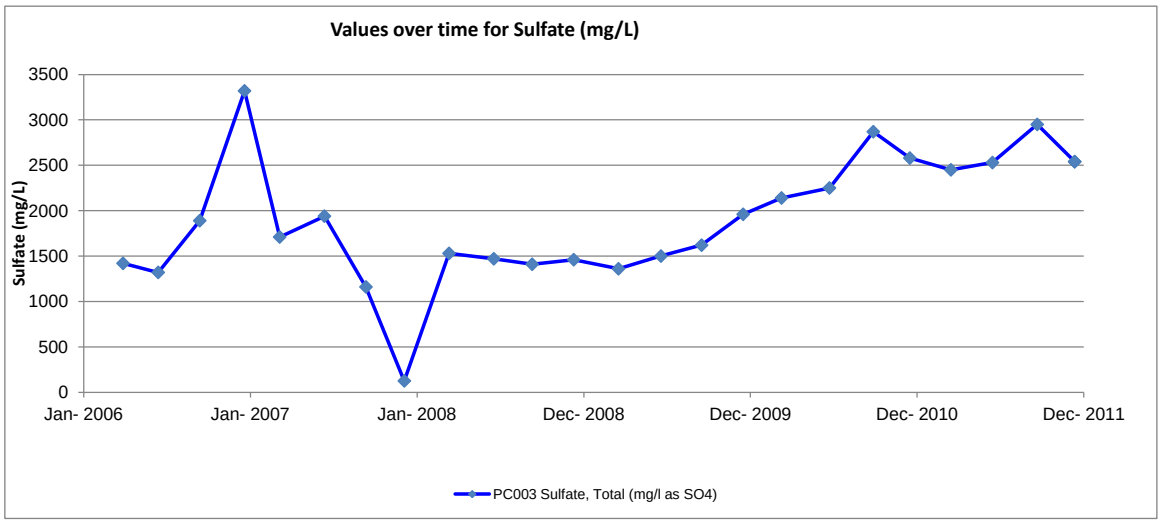

Values over time for Nickel, dissolved (ug/L)
Nickel, dissolved (ug/L)
35
30
25
20
15
10
5
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Nickel, Dissolved (ug/l as Ni)

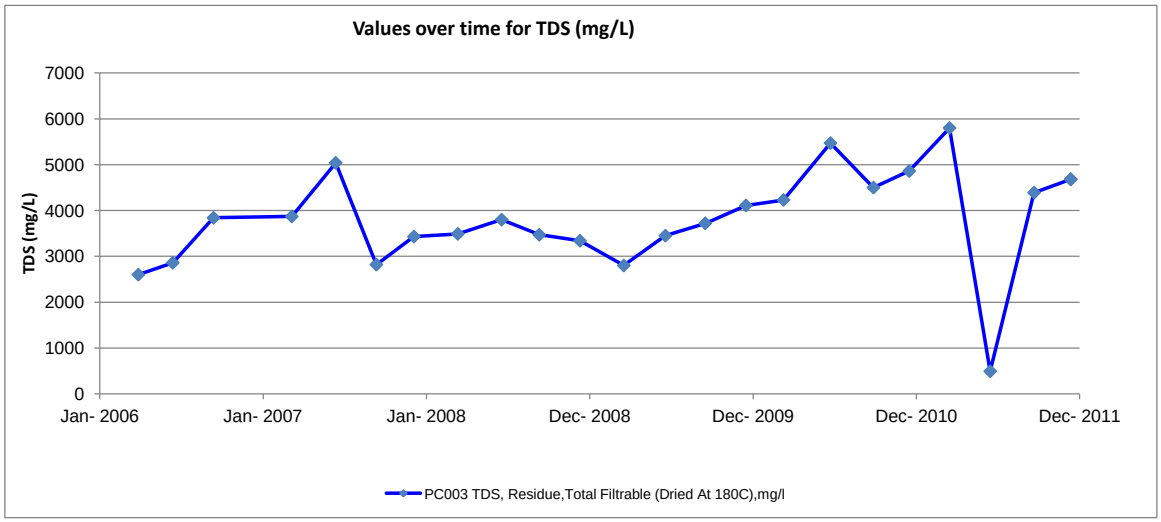

Values over time for Nitrate-N (mg/L)
Nitrate-N (mg/L)
250
200
150
100
50
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Nitrate Nitrogen, Total (mg/l as N)
PC003 Nitrite plus Nitrate, Total (mg/l as N)

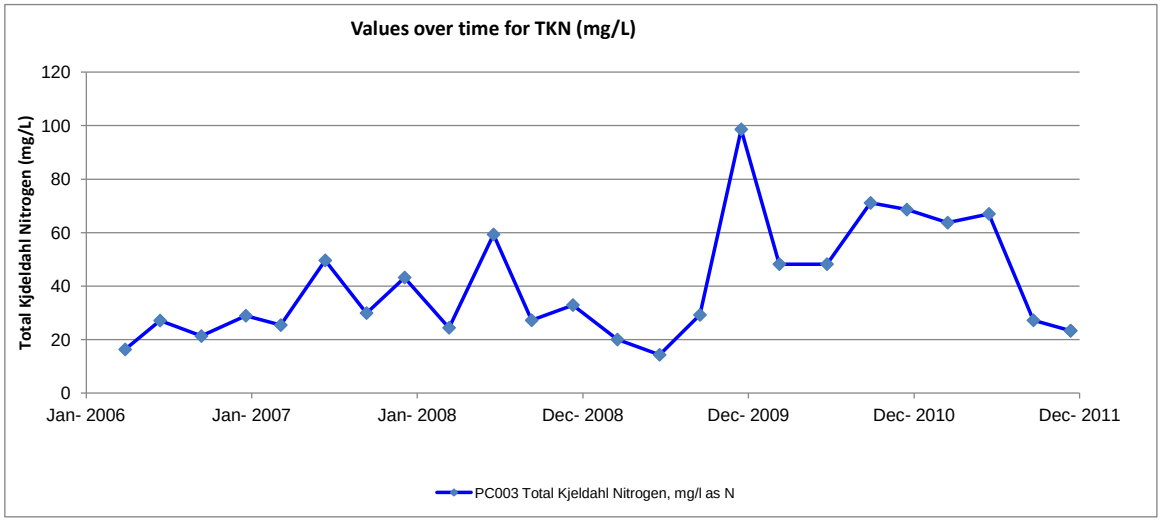

Values over time for pH, field (pH units)
pH, field (pH units)
10
9
8
7
6
5
4
3
2
1
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 pH, Field, Standard Units

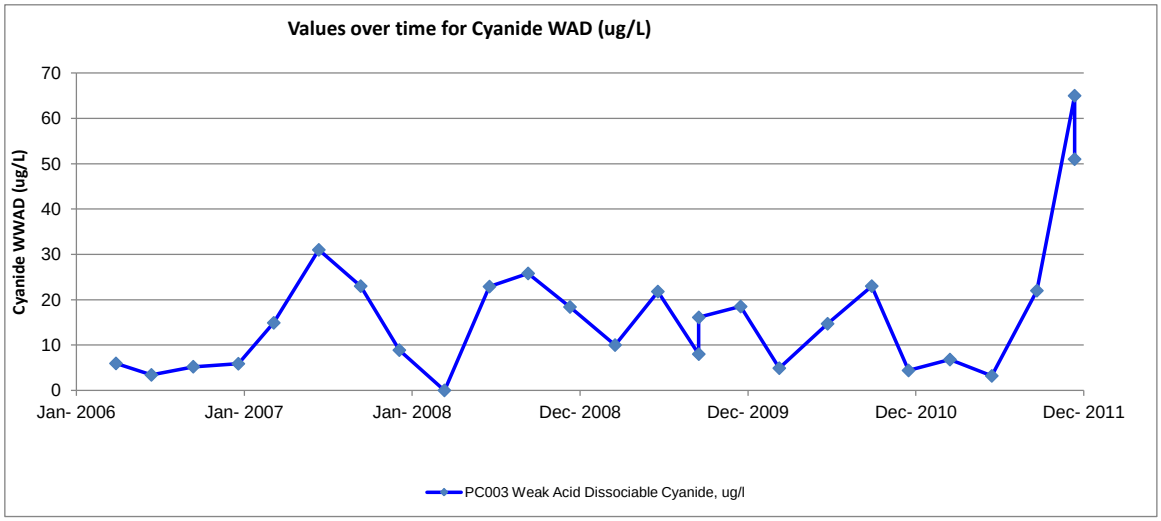

Values over time for Selenium, dissolved (ug/L)
Selenium, dissolved (ug.L)
1000
900
800
700
600
500
400
300
200
100
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Selenium, Dissolved (ug/l as Se)

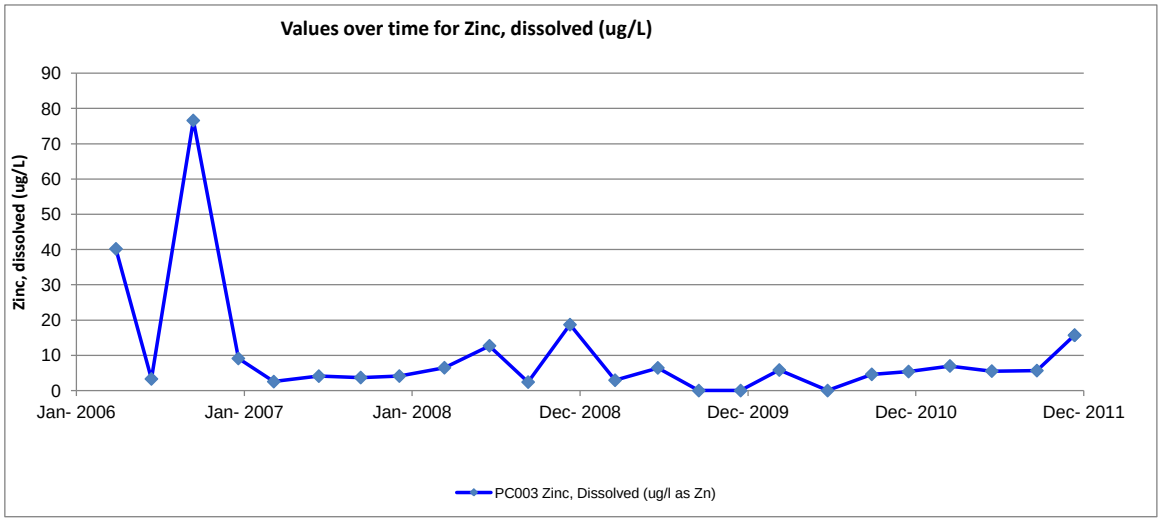

Values over time for Silver, dissolved (ug/L)
Silver, dissolved (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Silver, Dissolved (ug/l as Ag)


Values over time for Sulfate (mg/L)
Sulfate (mg/L)
3500
3000
2500
2000
1500
1000
500
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Sulfate, Total (mg/l as SO4)


Values over time for TDS (mg/L)
TDS (mg/L)
7000
6000
5000
4000
3000
2000
1000
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 TDS, Residue,Total Filtrable (Dried At 180C),mg/l


Values over time for TKN (mg/L)
Total Kjdeldahl Nitrogen (mg/L)
120
100
80
60
40
20
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Total Kjeldahl Nitrogen, mg/l as N


Values over time for Cyanide WAD (ug/L)
Cyanide WWAD (ug/L)
70
60
50
40
30
20
10
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Weak Acid Dissociable Cyanide, ug/l


Values over time for Zinc, dissolved (ug/L)
Zinc, dissolved (ug/L)
90
80
70
60
50
40
30
20
10
0
Jan- 2006
Jan- 2007
Jan- 2008
Dec- 2008
Dec- 2009
Dec- 2010
Dec- 2011
PC003 Zinc, Dissolved (ug/l as Zn)