

Table 2-3: Intermediate Dam Zinc and Sulfate Concentrations X24-96D (1998-2010)

X24-96D, Well, South Abutment of Int. Dam, P96-3A, 9.65m

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/1996	1048.0	9/26/1996	0.01
1/6/1997	951.0	1/6/1997	0.06
10/7/1997	917.0	10/7/1997	0.02
6/1/1998	713.0	6/1/1998	0.03
10/31/1998	997.0	10/31/1998	0.02
6/19/1999	1084.0	6/19/1999	0.17
10/29/1999	1050.0	10/29/1999	0.05
6/27/2000	922.0	6/27/2000	2.84
9/27/2000	996.0	9/27/2000	0.062
10/10/2000	447.0	10/10/2000	0.005
6/6/2001	1026.0	6/6/2001	0.03
9/6/2001	1020.0	9/6/2001	0.028
6/12/2002	1060.0	6/12/2002	0.03
9/23/2002	1150.0	9/23/2002	0.03
6/2/2003	1340.0	6/2/2003	0.039
9/22/2003	1340.0	9/22/2003	0.033
6/10/2004	1420.0	6/10/2004	0.0464
8/4/2004	1430.0	8/4/2004	0.0437
9/21/2004	1450.0	9/21/2004	0.0561
11/17/2004	1380.0	11/17/2004	0.048
5/4/2005	1450.0	5/4/2005	0.0517
7/21/2005	1490.0	7/21/2005	0.0488
9/9/2005	1390.0	9/9/2005	0.0569
10/31/2005	1340.0	10/31/2005	0.0482
6/9/2006	1410.0	6/9/2006	0.29
8/2/2006	1650.0	8/2/2006	0.068
9/21/2006	1710.0	9/21/2006	0.0926
11/1/2006	1700.0	11/1/2006	0.078
8/1/2007	1840.0	8/1/2007	0.0697
10/4/2007	1890.0	10/4/2007	0.0824
11/6/2007	1930.0	11/6/2007	0.076
8/12/2008	2100.0	8/12/2008	0.083
9/17/2008	1900.0	9/17/2008	0.082
11/4/2008	2200.0	11/4/2008	0.085
8/4/2009	1900.0	8/4/2009	0.102
9/9/2009	1900.0	9/9/2009	0.102
11/3/2009	1900.0	11/3/2009	0.119
6/7/2010	2800.0	6/7/2010	0.12
9/9/2010	2700.0	9/9/2010	0.132
Threshold	1057		0.04
	DLs at half value		

Table 2-4: Intermediate Dam Zinc and Sulfate Concentrations X25-96A (1998-2010)

X25-96A, Well, South Abutment of Int. Dam, P96-3A,
9.65m

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
6/10/1990	316.0	9/26/1996	0.03
8/21/1990	404.0	1/6/1997	0.06
9/26/1996	269.0	5/13/1997	0.03
1/6/1997	194.0	10/7/1997	0.005
5/13/1997	213.0	6/1/1998	0.005
10/7/1997	227.0	10/31/1998	0.01
6/1/1998	209.0	6/19/1999	0.07
10/31/1998	285.0	10/29/1999	0.005
6/19/1999	292.0	6/27/2000	0.57
10/29/1999	294.0	10/10/2000	0.005
6/27/2000	276.0	6/6/2001	0.19
10/10/2000	206.0	7/15/2001	0.01
6/6/2001	287.0	9/5/2001	0.005
7/15/2001	294.0	6/12/2002	0.005
9/5/2001	298.0	9/24/2002	0.005
6/12/2002	312.0	6/2/2003	0.0025
9/24/2002	292.0	9/23/2003	0.005
6/2/2003	261.0	6/10/2004	0.0056
9/23/2003	249.0	8/4/2004	0.0075
6/10/2004	229.0	9/21/2004	0.0214
8/4/2004	232.0	11/17/2004	0.011
9/21/2004	355.0	7/21/2005	0.0067
11/17/2004	239.0	9/9/2005	0.0057
7/21/2005	292.0	10/31/2005	0.016
9/9/2005	295.0	6/9/2006	0.041
10/31/2005	288.0	8/2/2006	0.0091
6/9/2006	260.0	9/21/2006	0.0132
8/2/2006	289.0	11/1/2006	0.0078
9/21/2006	326.0	5/31/2007	0.0071
11/1/2006	296.0	8/1/2007	0.0064
5/31/2007	285.0	10/4/2007	0.0067
8/1/2007	301.0	11/6/2007	0.008
10/4/2007	293.0	6/1/2009	0.0025
11/6/2007	334.0	9/9/2009	0.0025
5/29/2008	327.0	6/7/2010	0.0025
6/1/2009	480.0	9/9/2010	0.0025
9/9/2009	440.0		
6/7/2010	570.0		
9/9/2010	580.0		
Threshold	294.0		0.055
DLs at half value			

Table 2-5: Intermediate Dam Zinc and Sulfate Concentrations X25-96B (1998-2010)

X25-96B, Well, South Abutment of Int. Dam, P96-3A,
19.80m

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
6/10/1990	96.0	9/26/1996	0.01
8/21/1990	155.0	1/6/1997	0.08
9/26/1996	468.0	5/13/1997	0.005
1/6/1997	352.0	10/7/1997	0.01
5/13/1997	383.0	6/1/1998	0.005
10/7/1997	448.0	10/31/1998	0.01
6/1/1998	372.0	6/19/1999	0.03
10/31/1998	429.0	10/29/1999	0.005
6/19/1999	445.0	6/27/2000	0.47
10/29/1999	408.0	9/27/2000	0.037
6/27/2000	348.0	10/10/2000	0.005
9/27/2000	373.0	6/6/2001	0.005
10/10/2000	177.0	7/15/2001	0.03
6/6/2001	344.0	9/5/2001	0.0025
7/15/2001	381.0	6/12/2002	0.005
9/5/2001	334.0	9/24/2002	0.005
6/12/2002	333.0	6/2/2003	0.0025
9/24/2002	341.0	9/23/2003	0.0025
6/2/2003	332.0	6/10/2004	0.0064
9/23/2003	339.0	8/4/2004	0.0025
6/10/2004	335.0	9/24/2004	0.0051
8/4/2004	366.0	11/17/2004	0.0025
9/24/2004	247.0	7/21/2005	0.0025
11/17/2004	360.0	9/9/2005	0.0025
7/21/2005	347.0	10/31/2005	0.0025
9/9/2005	335.0	6/9/2006	0.03
10/31/2005	331.0	8/2/2006	0.0065
6/9/2006	274.0	9/21/2006	0.0025
8/2/2006	359.0	11/1/2006	0.0063
9/21/2006	388.0	5/31/2007	0.0056
11/1/2006	363.0	8/1/2007	0.0025
5/31/2007	356.0	10/4/2007	0.0064
8/1/2007	348.0	11/6/2007	0.0025
10/4/2007	311.0	5/29/2008	0.003
11/6/2007	378.0	8/12/2008	0.000
5/29/2008	383.0	9/16/2008	0.001
8/12/2008	410.0	11/4/2008	0.000
9/16/2008	430.0	6/1/2009	0.0025
11/4/2008	420.0	9/9/2009	0.0025
6/1/2009	450.0	6/7/2010	0.0025
9/9/2009	350.0	9/9/2010	0.0025
6/7/2010	450.0		
9/9/2010	480.0		
Threshold	395.0		0.02

DLs at half value

Table 2-6: Secondary Tailings Impoundment Zinc and Sulfate Concentrations P03-04-2 (1998-2010)

P03-04-2, Tailings, Second Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	16.0	9/26/2003	0.02
6/9/2004	768.0	6/9/2004	0.0291
8/3/2004	758.0	8/3/2004	0.0372
9/24/2004	787.0	9/24/2004	0.0614
11/18/2004	684.0	11/18/2004	0.0388
5/3/2005	745.0	5/3/2005	0.0459
7/22/2005	726.0	7/22/2005	0.0459
9/10/2005	776.0	9/10/2005	0.0817
10/31/2005	679.0	10/31/2005	0.0503
6/7/2006	696.0	6/7/2006	0.061
8/2/2006	878.0	8/2/2006	0.066
9/20/2006	999.0	9/20/2006	0.079
11/2/2006	1040.0	11/2/2006	0.067
5/30/2007	977.0	5/30/2007	0.0575
8/2/2007	1010.0	8/2/2007	0.0643
10/4/2007	1000.0	10/4/2007	0.0641
11/5/2007	994.0	11/5/2007	0.074
5/28/2008	771.0	5/28/2008	0.042
8/12/2008	780.0	8/12/2008	0.040
9/17/2008	850.0	9/17/2008	0.043
11/4/2008	700.0	11/4/2008	0.034
9/12/2009	860.0	9/12/2009	0.047
9/20/2010	750.0	9/20/2010	0.04

Table 2-7: Secondary Tailings Impoundment Zinc and Sulfate Concentrations

P03-04-4 (1998-2010)

P03-04-4, Tailings, Second Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	14.0	9/26/2003	0.012
6/9/2004	409.0	6/9/2004	0.0059
8/3/2004	390.0	8/3/2004	0.0071
9/24/2004	414.0	9/24/2004	0.0134
11/18/2004	371.0	11/18/2004	0.0064
5/3/2005	409.0	5/3/2005	0.0059
7/22/2005	422.0	7/22/2005	0.0054
9/10/2005	702.0	9/10/2005	0.0569
10/31/2005	361.0	10/31/2005	0.0078
6/7/2006	356.0	6/7/2006	0.0055
8/2/2006	394.0	8/2/2006	0.0054
9/20/2006	404.0	9/20/2006	0.0232
11/2/2006	459.0	11/2/2006	0.015
5/30/2007	448.0	5/30/2007	0.0054
8/2/2007	432.0	8/2/2007	0.0081
10/4/2007	399.0	10/4/2007	0.0064
11/5/2007	464.0	11/5/2007	0.0062
5/28/2008	421.0	5/28/2008	0.005
8/12/2008	480.0	8/12/2008	0.011
9/17/2008	520.0	11/4/2008	0.002
11/4/2008	440.0	9/12/2009	0.0025
9/12/2009	440.0	9/20/2010	0.011
9/20/2010	480.0		
DLs at half value			

Table 2-8: Secondary Tailings Impoundment Zinc and Sulfate Concentrations P03-04-6 (1998-2010)

P03-04-6, Tailings, Second Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	4340.0	9/26/2003	2.12
6/11/2004	4550.0	6/11/2004	6.48
8/3/2004	6230.0	8/3/2004	2.32
9/24/2004	10100.0	9/24/2004	5.9
5/3/2005	8060.0	5/3/2005	5.08
7/22/2005	4400.0	7/22/2005	5.11
9/10/2005	12200.0	9/10/2005	12
10/31/2005	11700.0	10/31/2005	7.92
6/7/2006	4810.0	6/7/2006	4.3
8/2/2006	4970.0	8/2/2006	4.5
9/21/2006	4910.0	9/21/2006	3.78
11/2/2006	6120.0	11/2/2006	2.88
5/30/2007	4650.0	5/30/2007	3.57
8/2/2007	4280.0	8/2/2007	5.42
10/4/2007	4010.0	10/4/2007	5.01
11/5/2007	4150.0	11/5/2007	4.53
5/28/2008	3990.0	5/28/2008	3.320
8/12/2008	3900.0	8/12/2008	3.830
9/17/2008	4000.0	9/17/2008	3.950
11/4/2008	3800.0	11/4/2008	1.400
9/12/2009	15000.0	9/12/2009	5.73
9/20/2010	5200.0	9/20/2010	1.97

**Table 2-9: Secondary Tailings Impoundment
Zinc and Sulfate Concentrations
P03-04-8 (1998-2010)**

P03-04-8, Tailings, Second Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
6/11/2004	6120.0	6/11/2004	2.06
8/3/2004	8350.0	8/3/2004	3.92
9/24/2004	9410.0	9/24/2004	2.73
5/3/2005	8350.0	5/3/2005	2.76
7/22/2005	9350.0	7/22/2005	2.68
9/10/2005	10100.0	9/10/2005	3.08
6/7/2006	7320.0	6/7/2006	4.27
9/21/2006	8290.0	9/21/2006	3.8
5/30/2007	7940.0	5/30/2007	3.22
10/4/2007	5650.0	10/4/2007	2.91
5/28/2008	6260.0	5/28/2008	2.330
9/12/2009	13000.0	9/12/2009	2.29
9/20/2010	9000.0	9/20/2010	3.93

Table 2-10: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-08-2 (1998-2010)

P03-08-2, Tailings, Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	154.0	9/26/2003	0.005
6/8/2004	112.0	6/8/2004	0.0062
8/4/2004	132.0	8/4/2004	0.0055
9/24/2004	141.0	9/24/2004	0.0072
5/5/2005	138.0	5/5/2005	0.005
7/23/2005	94.2	7/23/2005	0.0025
9/9/2005	75.1	9/9/2005	0.0072
11/1/2005	83.2	11/1/2005	0.0053
6/6/2006	106.0	6/6/2006	0.0062
8/2/2006	70.2	8/2/2006	0.0059
9/19/2006	76.7	9/19/2006	0.0077
11/1/2006	91.2	11/1/2006	0.0097
5/29/2007	118.0	5/29/2007	0.148
8/2/2007	68.9	8/2/2007	0.0084
11/5/2007	60.8	11/5/2007	0.0062
5/27/2008	82.3	5/27/2008	0.006
8/12/2008	90.0	8/12/2008	0.002
11/4/2008	78.0	11/4/2008	0.001
9/12/2009	110.0	9/12/2009	0.006
9/20/2010	110.0	9/20/2010	0.0025
DLs at half value			

Table 2-11: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-08-4 (1998-2010)

P03-08-4, Tailings, Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	147.0	9/26/2003	0.165
6/8/2004	448.0	6/8/2004	0.009
9/24/2004	587.0	9/24/2004	0.633
5/5/2005	532.0	5/5/2005	0.013
7/23/2005	620.0	7/23/2005	0.0195
9/9/2005	538.0	9/9/2005	0.0143
11/1/2005	461.0	11/1/2005	0.0123
6/6/2006	437.0	6/6/2006	0.0202
8/2/2006	431.0	8/2/2006	0.013
9/19/2006	458.0	9/19/2006	0.023
11/1/2006	434.0	11/1/2006	0.011
5/29/2007	357.0	5/29/2007	0.005
8/2/2007	330.0	8/2/2007	0.0025
10/3/2007	369.0	10/3/2007	0.0159
11/5/2007	415.0	11/5/2007	0.01
5/27/2008	437.0	5/27/2008	0.030
8/12/2008	460.0	8/12/2008	0.002
9/16/2008	550.0	9/16/2008	0.026
11/4/2008	640.0	11/4/2008	0.003
9/12/2009	340.0	9/12/2009	0.006
9/20/2010	390.0	9/20/2010	0.02
DLs at half value			

Table 2-12: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-08-6 (1998-2010)

P03-08-6, Tailings, Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	47.0	9/26/2003	0.016
6/8/2004	1510.0	6/8/2004	0.0456
9/24/2004	1560.0	8/4/2004	0.0143
5/5/2005	1490.0	9/24/2004	0.0262
9/9/2005	1340.0	5/5/2005	0.0244
6/6/2006	1220.0	9/9/2005	0.0089
9/19/2006	1270.0	11/1/2005	0.0056
5/29/2007	1260.0	6/6/2006	0.035
5/27/2008	1130.0	9/19/2006	0.057
9/12/2009	640.0	5/29/2007	0.0125
9/20/2010	390.0	5/27/2008	0.008
		9/12/2009	0.009
		9/20/2010	0.0025
DLs at half value			

Table 2-13: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-08-7 (1998-2010)

P03-08-7, Tailings, Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	57.0	9/26/2003	0.008
9/24/2004	1520.0	6/8/2004	0.0169
5/5/2005	1410.0	8/4/2004	0.0104
9/9/2005	1390.0	9/24/2004	0.0114
6/6/2006	801.0	5/5/2005	0.0094
9/20/2006	732.0	9/9/2005	0.0104
5/29/2007	551.0	6/6/2006	0.028
10/3/2007	476.0	9/20/2006	0.01
5/27/2008	442.0	5/29/2007	0.005
9/16/2008	370.0	10/3/2007	0.0099
9/12/2009	260.0	5/27/2008	0.009
9/20/2010	180.0	9/16/2008	0.015
		9/12/2009	0.015
		9/20/2010	0.0025
DLs at half value			

Table 2-14: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-08-8 (1998-2010)

P03-08-8, Tailings, Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
6/8/2004	3040.0	6/8/2004	56.6
9/24/2004	178.0	8/4/2004	0.0074
5/5/2005	143.0	9/24/2004	0.0051
9/10/2005	150.0	5/5/2005	0.0084
6/6/2006	126.0	9/10/2005	0.0395
9/20/2006	114.0	6/6/2006	0.0066
5/29/2007	118.0	9/20/2006	0.0057
10/3/2007	97.0	5/29/2007	0.0082
5/27/2008	102.0	10/3/2007	0.0072
9/16/2008	92.0	5/27/2008	0.010
9/12/2009	98.0	9/16/2008	0.011
		9/12/2009	0.01

Table 2-15: Down Valley Zinc and Sulfate Concentrations P03-09-2 (1998-2010)

P03-09-2, Toe, X-Valley Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	363.0	9/26/2003	0.0025
6/8/2004	376.0	6/8/2004	0.0053
8/4/2004	382.0	8/4/2004	0.0055
9/21/2004	372.0	9/21/2004	0.0025
11/18/2004	370.0	11/18/2004	0.0064
5/4/2005	378.0	5/4/2005	0.0055
7/22/2005	372.0	7/22/2005	0.0025
9/9/2005	344.0	9/9/2005	0.0054
11/1/2005	324.0	11/1/2005	0.0025
6/6/2006	357.0	6/6/2006	0.0025
8/2/2006	347.0	8/2/2006	0.0051
9/19/2006	345.0	9/19/2006	0.0092
11/1/2006	373.0	11/1/2006	0.0059
5/29/2007	372.0	5/29/2007	0.0025
8/2/2007	391.0	8/2/2007	0.0025
10/2/2007	341.0	10/2/2007	0.0066
11/5/2007	407.0	11/5/2007	0.0055
5/27/2008	443.0	5/27/2008	0.003
8/12/2008	420.0	8/12/2008	0.002
9/16/2008	420.0	9/16/2008	0.002
11/4/2008	450.0	11/4/2008	0.001
5/29/2009	480.0	5/29/2009	0.0025
9/9/2009	260.0	9/9/2009	0.0025
9/13/2010	410.0	9/13/2010	0.0025
	DLs at half value		

Table 2-16: Down Valley Zinc and Sulfate Concentrations P03-09-4 (1998-2010)

P03-09-4, Toe, X-Valley Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	365.0	9/26/2003	0.0025
6/8/2004	327.0	6/8/2004	0.0085
8/4/2004	346.0	8/4/2004	0.0075
9/21/2004	332.0	9/21/2004	0.0025
11/18/2004	342.0	11/18/2004	0.0066
5/4/2005	319.0	5/4/2005	0.0071
7/22/2005	370.0	7/22/2005	0.0025
9/9/2005	393.0	9/9/2005	0.0065
11/1/2005	374.0	11/1/2005	0.0025
6/6/2006	286.0	6/6/2006	0.0025
8/2/2006	406.0	8/2/2006	0.006
9/19/2006	447.0	9/19/2006	0.012
11/1/2006	458.0	11/1/2006	0.0083
5/29/2007	372.0	5/29/2007	0.0025
8/2/2007	444.0	8/2/2007	0.0055
10/2/2007	465.0	10/2/2007	0.0078
11/5/2007	514.0	11/5/2007	0.0064
5/27/2008	451.0	5/27/2008	0.003
8/12/2008	600.0	8/12/2008	0.002
9/16/2008	650.0	9/16/2008	0.002
11/4/2008	630.0	11/4/2008	0.002
5/29/2009	510.0	5/29/2009	0.0025
9/9/2009	530.0	9/9/2009	0.0025
9/13/2010	610.0	9/13/2010	0.0025
	DLs at half value		

Table 2-17: Down Valley Zinc and Sulfate Concentrations P03-09-6 (1998-2010)

P03-09-6, Toe, X-Valley Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	394.0	9/26/2003	0.0025
6/8/2004	354.0	6/8/2004	0.0064
8/4/2004	376.0	8/4/2004	0.0056
9/21/2004	385.0	9/21/2004	0.0051
11/18/2004	363.0	11/18/2004	0.0025
5/4/2005	372.0	5/4/2005	0.0025
7/22/2005	362.0	7/22/2005	0.0025
9/9/2005	368.0	9/9/2005	0.0025
11/1/2005	385.0	11/1/2005	0.0025
6/6/2006	355.0	6/6/2006	0.008
8/2/2006	331.0	8/2/2006	0.0056
9/19/2006	416.0	9/19/2006	0.0088
11/1/2006	469.0	11/1/2006	0.0087
5/29/2007	417.0	5/29/2007	0.0025
8/2/2007	388.0	8/2/2007	0.0025
10/2/2007	442.0	10/2/2007	0.0068
11/5/2007	550.0	11/5/2007	0.0062
5/27/2008	506.0	5/27/2008	0.007
8/12/2008	490.0	8/12/2008	0.001
9/16/2008	510.0	9/16/2008	0.003
11/4/2008	720.0	11/4/2008	0.001
5/29/2009	600.0	5/29/2009	0.0025
9/9/2009	550.0	9/9/2009	0.0025
9/13/2010	690.0	9/13/2010	0.0025
	DLs at half value		

Table 2-18: Down Valley Zinc and Sulfate Concentrations P03-09-8 (1998-2010)

P03-09-8, Toe, X-Valley Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	363.0	9/26/2003	0.0025
9/21/2004	438.0	9/21/2004	0.0051
5/4/2005	412.0	5/4/2005	0.0055
9/9/2005	418.0	9/9/2005	0.0088
6/6/2006	248.0	6/6/2006	0.0089
9/19/2006	471.0	9/19/2006	0.011
5/29/2007	467.0	5/29/2007	0.0025
10/2/2007	498.0	10/2/2007	0.0083
5/27/2008	554.0	5/27/2008	0.006
9/16/2008	630.0	9/16/2008	0.002
5/29/2009	610.0	5/29/2009	0.0025
9/9/2009	660.0	9/9/2009	0.0025
9/13/2010	720.0	9/13/2010	0.0025
DLs at half value			

Table 2-19: Down Valley Zinc and Sulfate Concentrations P03-09-9 (1998-2010)

P03-09-9, Toe, X-Valley Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	443.0	9/26/2003	0.0025
6/8/2004	421.0	6/8/2004	0.0053
8/4/2004	435.0	8/4/2004	0.0057
9/21/2004	433.0	9/21/2004	0.0051
11/18/2004	426.0	11/18/2004	0.0025
5/4/2005	417.0	5/4/2005	0.0051
7/22/2005	435.0	7/22/2005	0.0025
9/9/2005	429.0	9/9/2005	0.0085
6/6/2006	250.0	6/6/2006	0.009
8/2/2006	379.0	8/2/2006	0.0061
9/19/2006	474.0	9/19/2006	0.0099
11/1/2006	532.0	11/1/2006	0.0093
5/29/2007	459.0	5/29/2007	0.0025
8/2/2007	459.0	8/2/2007	0.0058
10/2/2007	497.0	10/2/2007	0.0077
11/5/2007	588.0	11/5/2007	0.0068
5/27/2008	544.0	5/27/2008	0.003
8/12/2008	550.0	8/12/2008	0.002
9/16/2008	630.0	9/16/2008	0.003
11/4/2008	800.0	11/4/2008	0.002
5/29/2009	580.0	5/29/2009	0.0025
9/9/2009	620.0	9/9/2009	0.0025
9/13/2010	680.0	9/13/2010	0.0025
DLs at half value			

Table 2-20: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-06-1 (1998-2010)

P03-06-1, Intermediate Tailings, North, South of ETA

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	492.0	9/26/2003	0.007
6/10/2004	705.0	6/10/2004	0.103
9/22/2004	746.0	9/22/2004	0.137
5/3/2005	775.0	5/3/2005	0.176
9/10/2005	804.0	9/10/2005	0.199
6/7/2006	959.0	6/7/2006	1.55
9/21/2006	932.0	9/21/2006	0.9
5/30/2007	1460.0	5/30/2007	0.837
10/4/2007	1390.0	10/4/2007	1.33
5/28/2008	1740.0	5/28/2008	1.89
6/1/2009	2800.0	6/1/2009	3.19
8/5/2009	2800.0	8/5/2009	4.21
9/9/2009	2800.0	9/9/2009	4.49
11/3/2009	2700.0	11/3/2009	5.8
6/14/2010	3100.0	6/14/2010	6.68
9/22/2010	2900.0	9/22/2010	8.260

Table 2-21: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-06-2 (1998-2010)

P03-06-2, Intermediate Tailings, North, South of ETA

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	586.0	9/26/2003	0.045
6/10/2004	763.0	6/10/2004	0.179
9/22/2004	780.0	9/22/2004	0.2
5/3/2005	810.0	5/3/2005	0.239
9/10/2005	734.0	9/10/2005	0.288
6/7/2006	921.0	6/7/2006	0.358
9/21/2006	1020.0	9/21/2006	0.731
5/30/2007	2120.0	5/30/2007	1.99
10/4/2007	1730.0	10/4/2007	2.23
5/28/2008	2260.0	5/28/2008	3.98
6/1/2009	3800.0	6/1/2009	5.91
8/5/2009	2700.0	8/5/2009	3.84
9/9/2009	2900.0	9/9/2009	4.47
11/3/2009	2800.0	11/3/2009	4.85
6/14/2010	3200.0	6/14/2010	8.01
9/22/2010	3000.0	9/22/2010	7.500

Table 2-22: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-06-3 (1998-2010)

P03-06-3, Intermediate Tailings, North, South of ETA

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	967.0	9/26/2003	0.165
6/10/2004	907.0	6/10/2004	0.436
9/22/2004	386.0	9/22/2004	1.24
5/3/2005	643.0	5/3/2005	0.348
9/10/2005	1170.0	9/10/2005	1.41
6/7/2006	1070.0	6/7/2006	0.93
9/21/2006	1460.0	9/21/2006	1.81
5/30/2007	1900.0	5/30/2007	2.24
10/4/2007	2150.0	10/4/2007	3.77
5/28/2008	2610.0	5/28/2008	5.24
6/1/2009	4400.0	6/1/2009	9.490
8/5/2009	3600	8/5/2009	9.4
9/9/2009	3800	9/9/2009	11
11/3/2009	3200	11/3/2009	11.1
6/14/2010	4200	6/14/2010	14
9/22/2010	4100	9/22/2010	14.6

Table 2-23: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-06-4 (1998-2010)

P03-06-4, Intermediate Tailings, North, South of ETA

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	428.0	9/26/2003	0.774
6/10/2004	336.0	6/10/2004	1.49
9/22/2004	399.0	9/22/2004	1.3
5/3/2005	685.0	5/3/2005	6.66
9/10/2005	451.0	9/10/2005	1.77
6/7/2006	538.0	6/7/2006	3.36
9/21/2006	609.0	9/21/2006	2.11
5/30/2007	904.0	5/30/2007	3.26
10/4/2007	731.0	10/4/2007	3.4
5/28/2008	1090.0	5/28/2008	4.81
6/1/2009	1400.0	6/1/2009	5.470
8/5/2009	1100.0	8/5/2009	4.360
9/9/2009	1100	9/9/2009	4.46
11/3/2009	1200	11/3/2009	4.47
6/14/2010	1400	6/14/2010	3.46
9/22/2010	1700	9/22/2010	4.14

Table 2-24: Intermediate Tailings Impoundment Zinc and Sulfate Concentrations P03-06-5 (1998-2010)

P03-06-5, Intermediate Tailings, North, South of ETA

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/26/2003	1030.0	9/26/2003	0.043
6/10/2004	331.0	6/10/2004	0.0745
9/22/2004	1160.0	9/22/2004	9.77
5/3/2005	1560.0	5/3/2005	242
9/10/2005	613.0	9/10/2005	4.49
6/7/2006	851.0	6/7/2006	42.3
9/21/2006	1340.0	9/21/2006	34.7
5/30/2007	2740.0	5/30/2007	57.5
10/4/2007	886.0	10/4/2007	16.3
5/28/2008	805.0	5/28/2008	28.500
6/1/2009	1000.0	6/1/2009	27.800
8/5/2009	1600.0	8/5/2009	46.100
9/9/2009	940.0	9/9/2009	15.300
11/3/2009	940.0	11/3/2009	20.400
6/14/2010	840.0	6/14/2010	14.300
9/22/2010	2800.0	9/22/2010	215.000

Table 2-25: Intermediate Impoundment (NE) Zinc and Sulfate Concentrations X21-96A (1998-2010)



X21-96A - Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/1/1999	20000	9/1/1999	595
9/27/2000	13325	9/27/2000	787.9
9/6/2001	8920	9/6/2001	367
6/12/2002	2070	6/12/2002	2.23
9/26/2002	4070	9/26/2002	6.72
6/4/2003	1730	6/4/2003	1.06
9/23/2003	8170	9/23/2003	12.2
9/23/2004	9840	9/23/2004	16.4
5/10/2005	1760	5/10/2005	0.837
9/11/2005	11900	9/11/2005	104
6/13/2006	2090	6/13/2006	2.99
9/23/2006	13800	9/23/2006	59.3
6/1/2007	18500	6/1/2007	79.2
10/10/2007	16500	10/10/2007	36.9
6/5/2008	9800	6/5/2008	29.5
9/17/2008	13000	9/17/2008	60.9
6/1/2009	18000	6/1/2009	46.6
8/5/2009	19000	8/5/2009	148.000
9/9/2009	25000	9/9/2009	147.000
11/3/2009	25000	11/3/2009	217.000
6/11/2010	21000	6/11/2010	290.000
9/22/2010	20000	9/22/2010	265

Table 2-26: Intermediate Impoundment (NE) Zinc and Sulfate Concentrations X21-96B (1998-2010)



X21-96B - Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
6/2/1998	584	6/2/1998	0.01
10/31/1998	440	10/31/1998	0.005
7/3/1999	405	7/3/1999	0.005
9/1/1999	440	9/1/1999	0.12
10/31/1999	504	10/31/1999	0.005
5/31/2000	386	5/31/2000	0.005
9/27/2000	390	9/27/2000	0.244
10/10/2000	158	10/10/2000	0.02
6/7/2001	489	6/7/2001	0.1
9/6/2001	149	9/6/2001	0.828
6/12/2002	434	6/12/2002	0.09
9/26/2002	576	9/26/2002	0.09
6/4/2003	446	6/4/2003	0.136
9/23/2003	644	9/23/2003	0.12
6/22/2004	568	6/22/2004	0.114
9/23/2004	1010	9/23/2004	4.23
5/10/2005	544	5/10/2005	0.166
9/11/2005	931	9/11/2005	4.120
6/13/2006	590	6/13/2006	0.160
9/23/2006	1100	9/23/2006	6.070
6/1/2007	851	6/1/2007	0.224
10/10/2007	947	10/10/2007	0.321
6/5/2008	867	6/5/2008	0.206
9/17/2008	940	9/17/2008	0.28
6/1/2009	1400	6/1/2009	0.452
8/5/2009	1400	8/5/2009	2.86
9/9/2009	1300	9/9/2009	1.71
11/3/2009	1300	11/3/2009	3.79
6/11/2010	1500	6/11/2010	2.29
9/22/2010	1800	9/22/2010	13.3
DLs at half value			

Table 2-27: Toe of Intermediate Dam Zinc and Sulfate Concentrations P01-03 (1998-2010)

P01-03 - Toe of Intermediate Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/10/2001	769	9/10/2001	0.009
6/12/2002	1090	6/12/2002	0.015
9/23/2002	1260	9/23/2002	0.015
9/22/2003	1130	9/22/2003	0.011
6/22/2004	1290	6/22/2004	0.0134
9/28/2004	1240	9/28/2004	0.014
5/4/2005	1360	5/4/2005	0.0188
9/9/2005	1230	9/9/2005	0.0172
6/8/2006	1090	6/8/2006	0.335
9/21/2006	1570	9/21/2006	0.0186
10/4/2007	1620	10/4/2007	0.0308
9/17/2008	1700	9/17/2008	0.0201
8/4/2009	1800	8/4/2009	0.03
9/9/2009	1700	9/9/2009	0.033
11/3/2009	1700	11/3/2009	0.029
6/7/2010	2600	6/7/2010	0.033
9/9/2010	1900	9/9/2010	0.042
	DLs at half value		

Table 2-28: Toe of Intermediate Dam Zinc and Sulfate Concentrations P01-04A (1998-2010)

P01-04A - Toe of Intermediate Dam

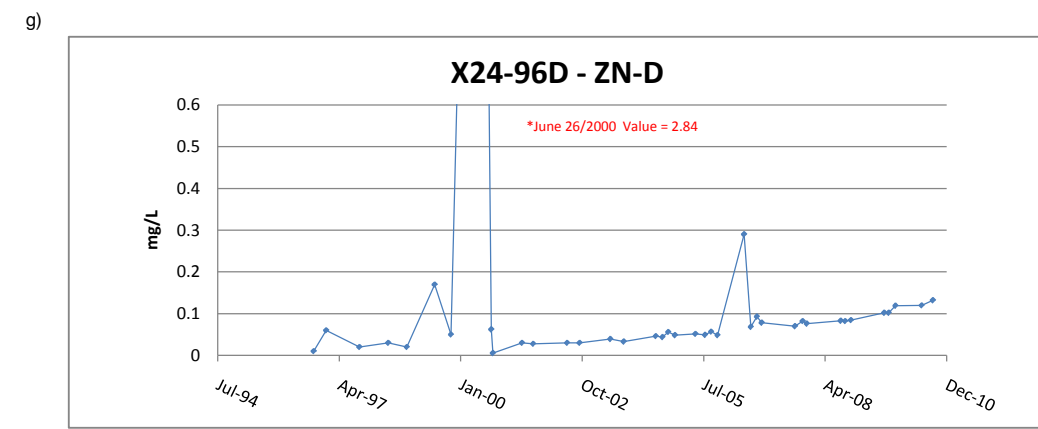
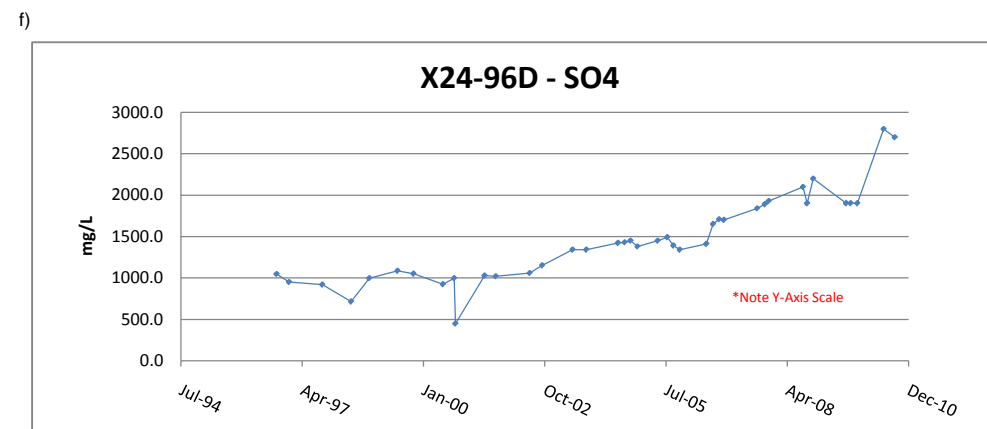
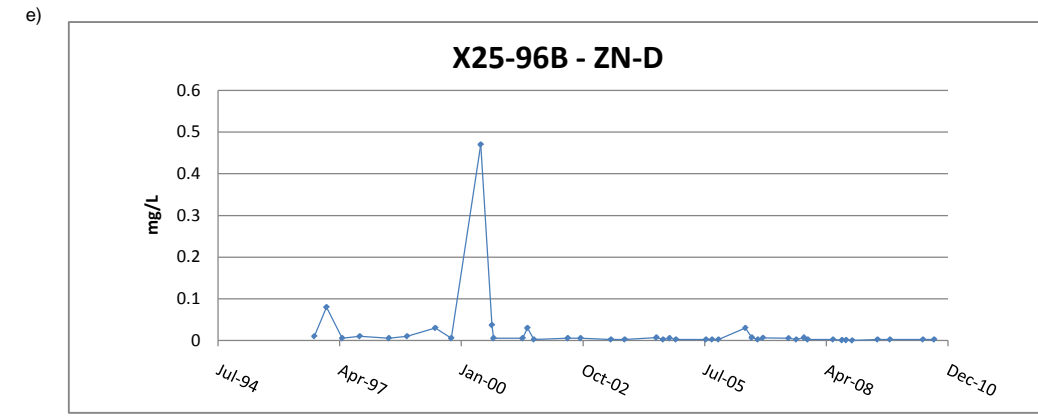
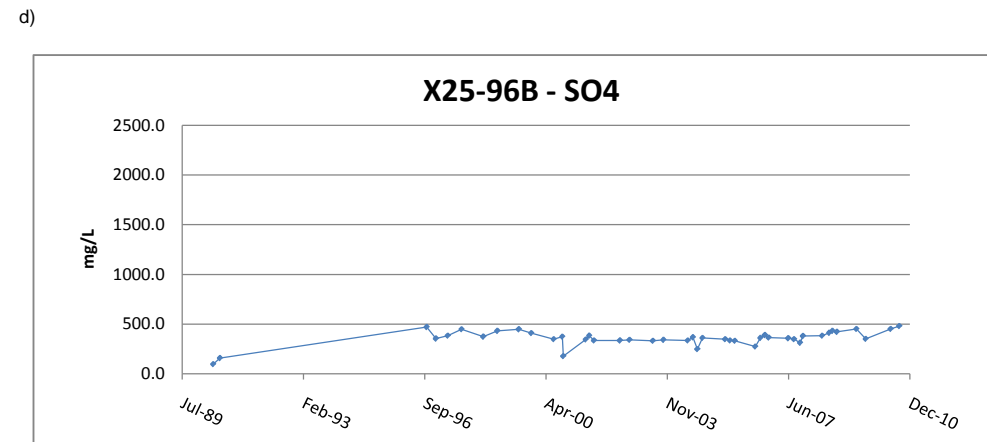
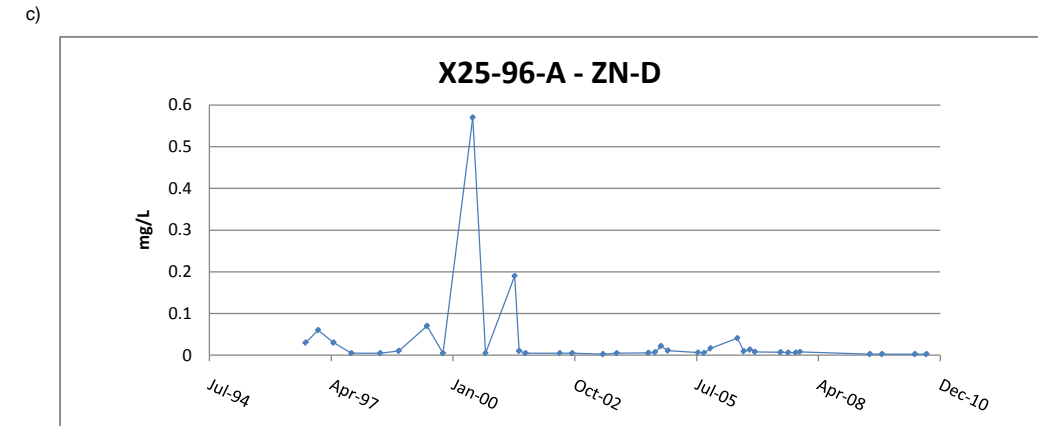
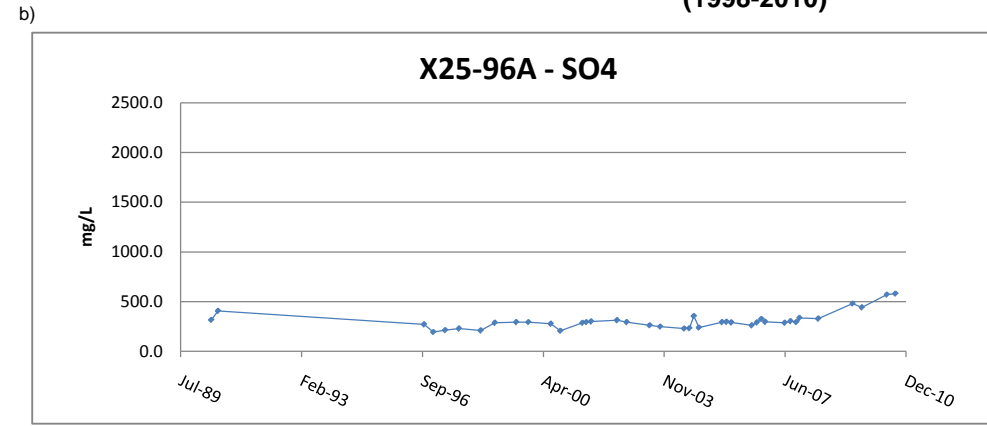
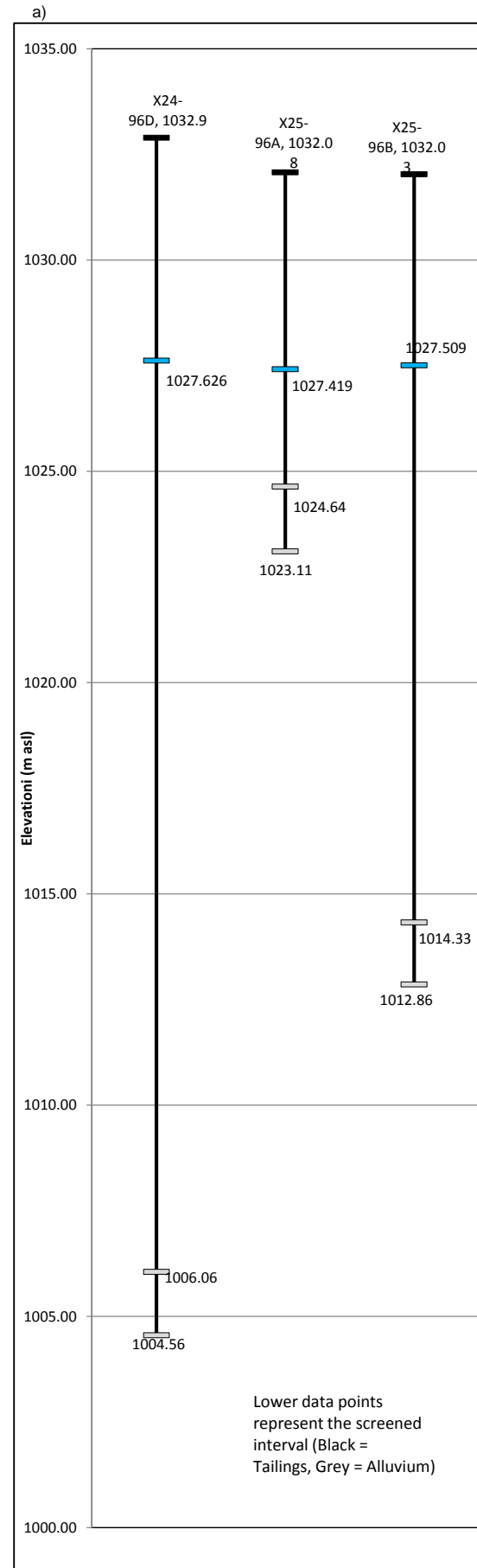
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DATE	mg/L	DATE	mg/L
9/10/2001	331	9/10/2001	0.0025
6/12/2002	377	6/12/2002	0.005
9/27/2002	338	9/27/2002	0.09
6/6/2003	191	6/6/2003	0.25
9/23/2003	399	9/23/2003	0.0025
9/30/2004	460	9/30/2004	0.0025
7/21/2005	31.8	7/21/2005	0.0025
9/10/2005	26	9/10/2005	0.0025
9/21/2006	34	9/21/2006	0.0025
5/31/2007	34.3	5/31/2007	0.0025
10/4/2007	31.2	10/4/2007	0.007
9/17/2008	750	9/17/2008	0
8/4/2009	33	8/4/2009	0.0025
9/9/2009	32	9/9/2009	0.005
6/7/2010	40	6/7/2010	0.0025
9/9/2010	44	9/9/2010	0.0025
DLs at half value			

Table 2-29: Toe of Intermediate Dam Zinc and Sulfate Concentrations P01-04B (1998-2010)

P01-04B - Toe of Intermediate Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/10/2001	30	9/10/2001	0.0025
6/12/2002	46	6/12/2002	0.025
9/24/2002	44	9/24/2002	0.005
6/3/2003	50	6/3/2003	0.0025
9/23/2003	43	9/23/2003	0.0025
9/30/2004	26.7	9/30/2004	0.0025
7/21/2005	494	7/21/2005	0.0025
9/10/2005	463	9/10/2005	0.0056
9/21/2006	555	9/21/2006	0.0025
5/31/2007	613	5/31/2007	0.0053
10/4/2007	546	10/4/2007	0.0063
9/17/2008	41	9/17/2008	0.0002
8/4/2009	710	8/4/2009	0.0025
9/9/2009	680	9/9/2009	0.0025
9/9/2010	930	9/9/2010	0.0025
DLs at half value			

**Figure 2-1: Intermediate Dam
Zinc and Sulfate Concentrations X24-96D and X25-96A+B
(1998-2010)**



**Figure 2-2: Secondary Tailings Impoundment
Zinc and Sulfate Concentrations
P03-04-2, 4, 6 + 8 (1998-2010)**

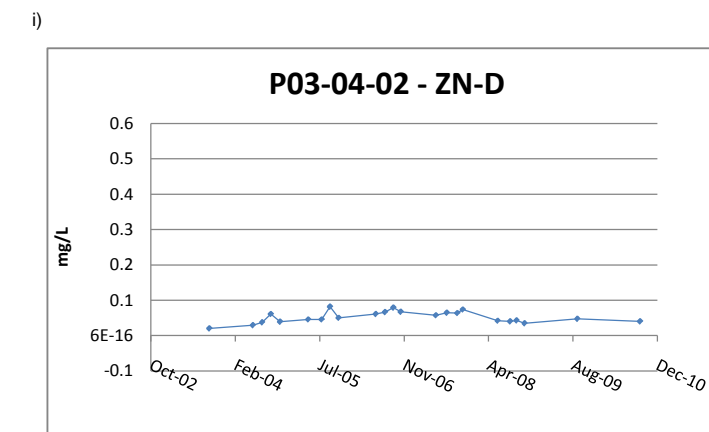
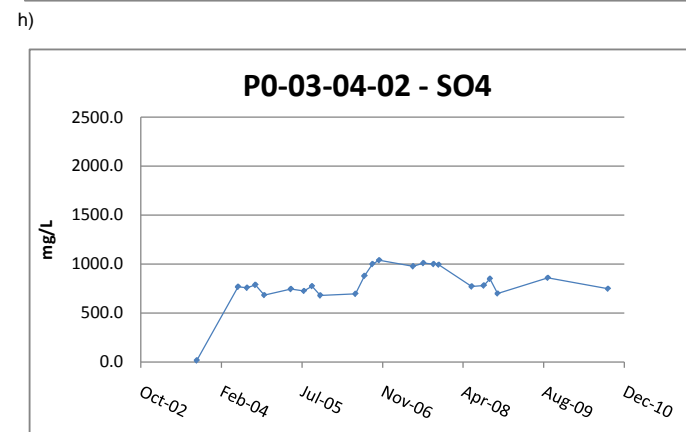
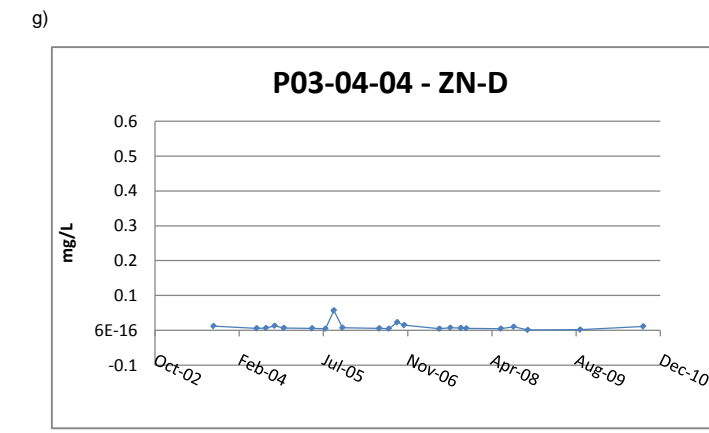
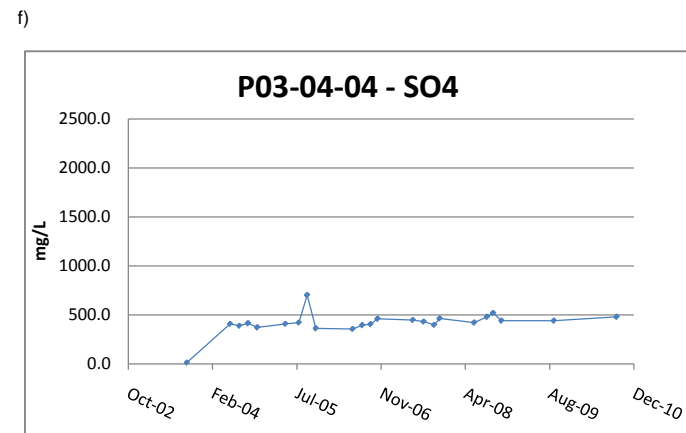
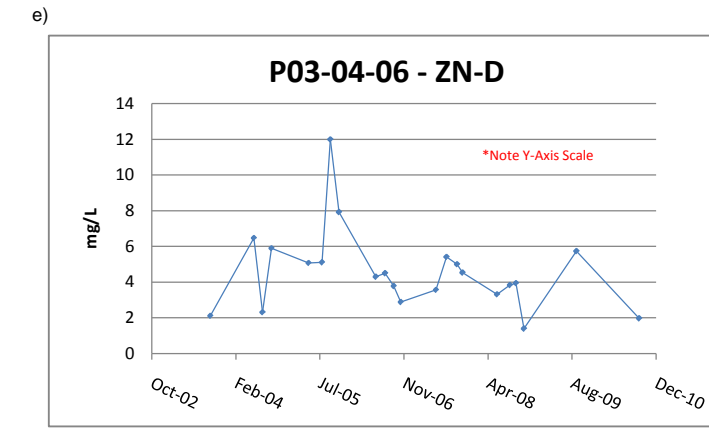
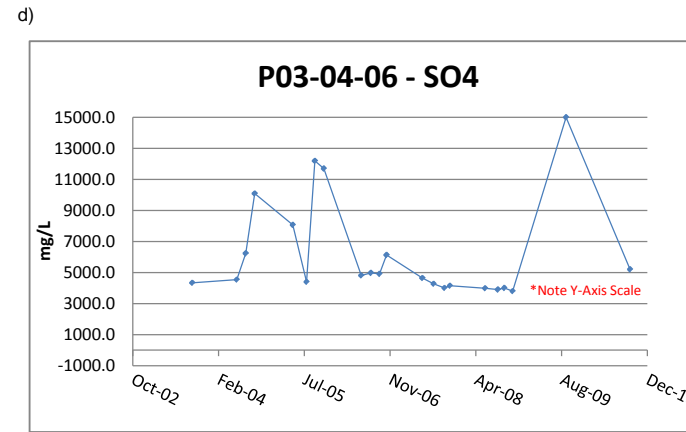
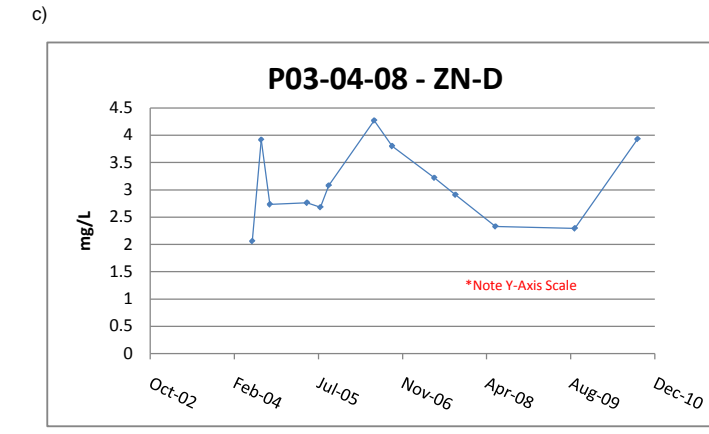
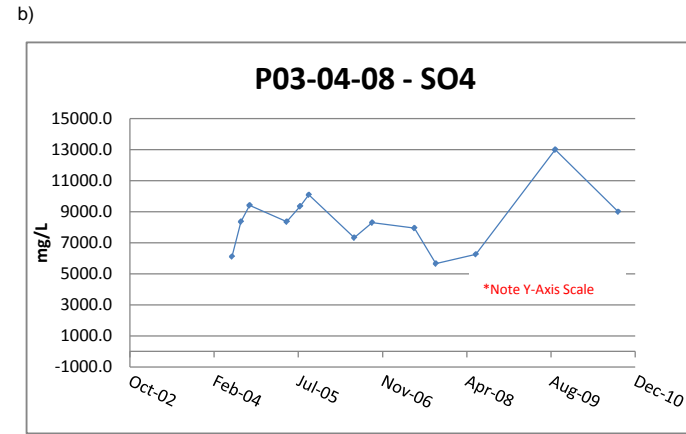
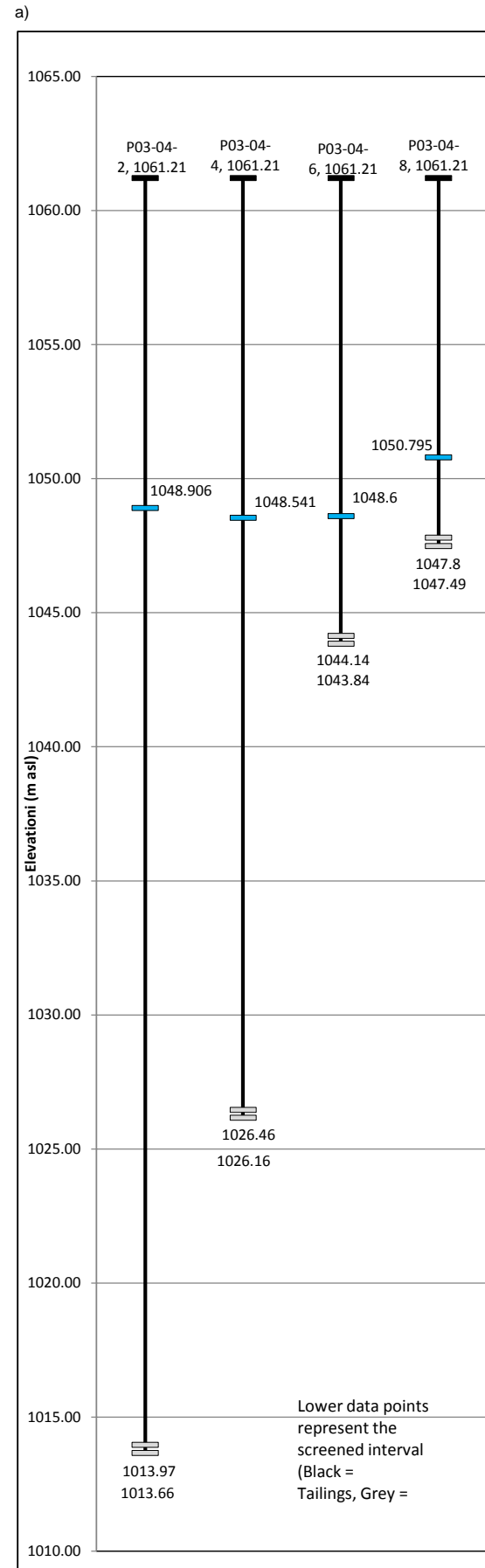
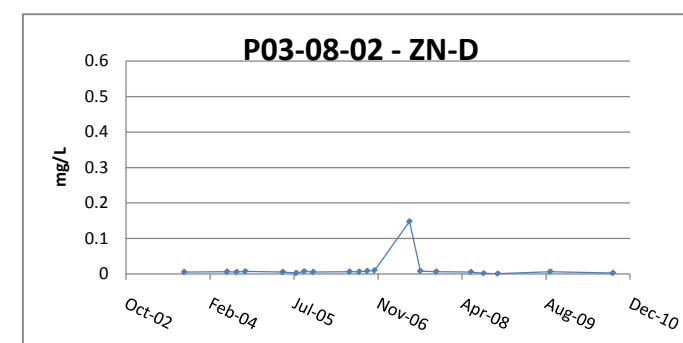
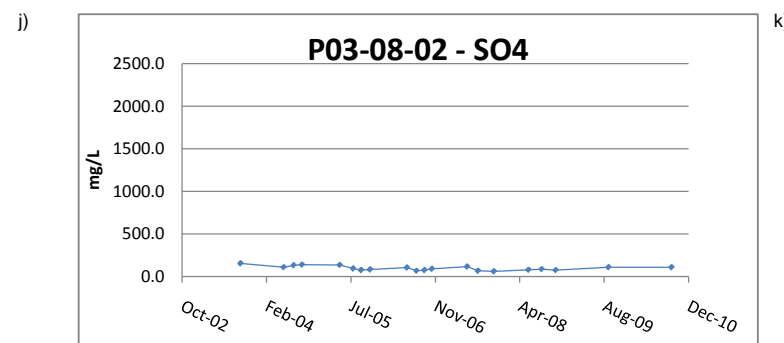
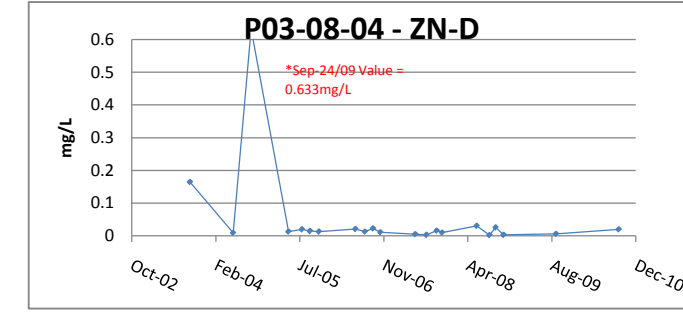
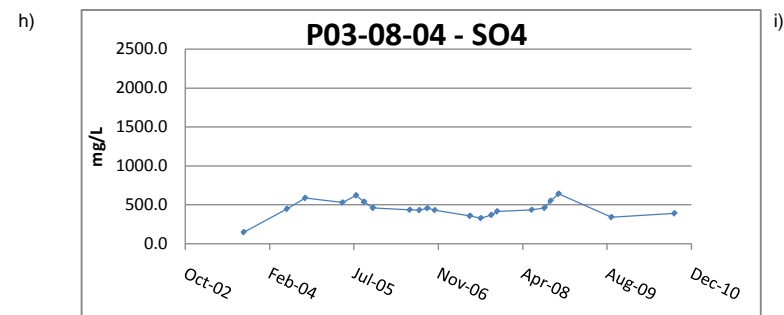
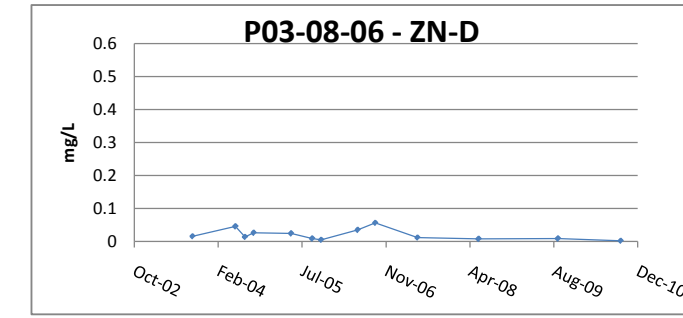
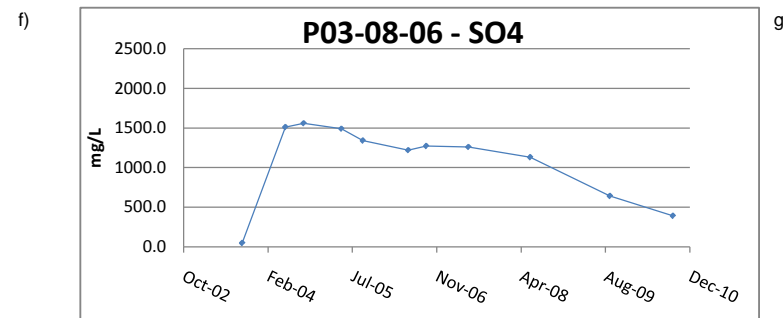
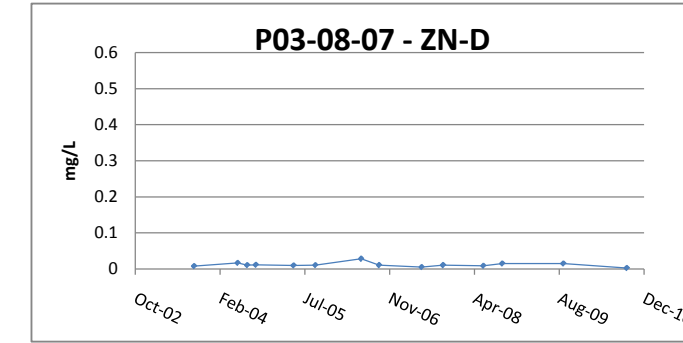
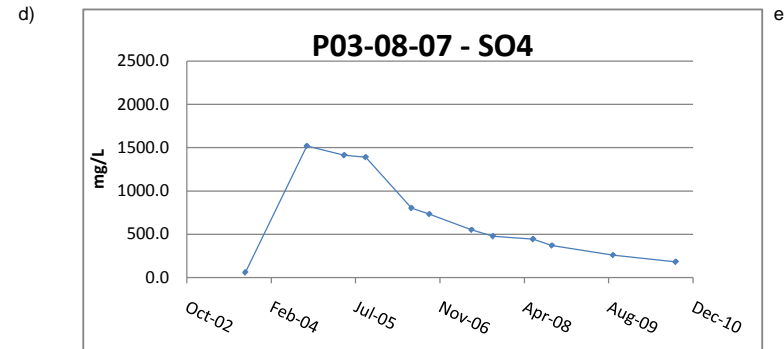
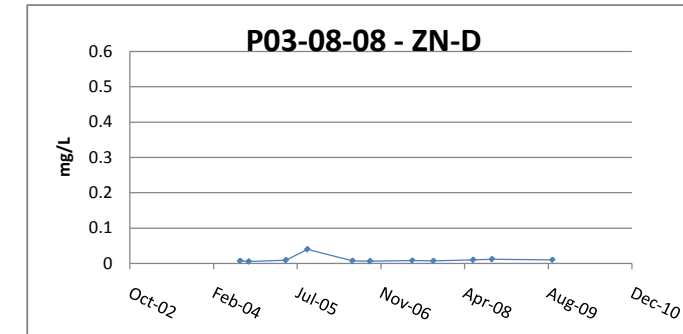
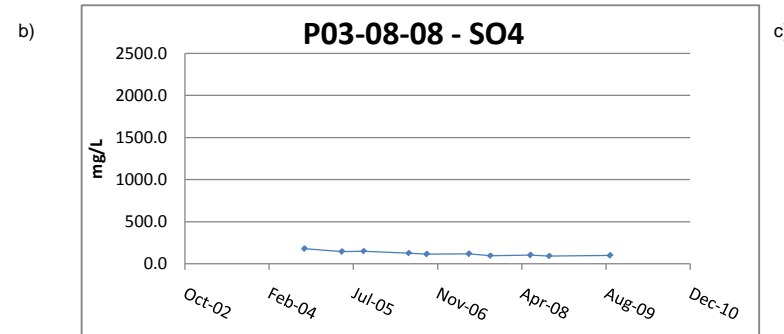
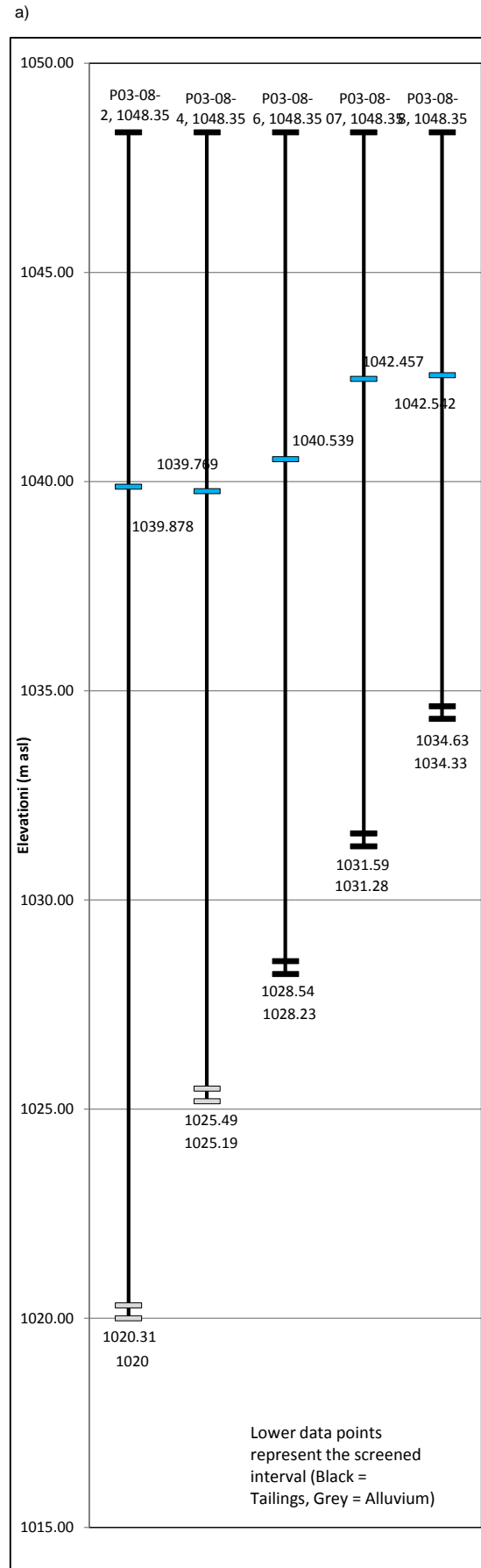


Figure 2-3: Intermediate Tailings Impoundment
Zinc and Sulfate Concentrations
P03-08-2, 4, 6, 7 + 8 (1998-2010)



**Figure 2-4: Down Valley
Zinc and Sulfate Concentrations
P03-09-2, 4, 6, 8 + 9 (1998-2010)**

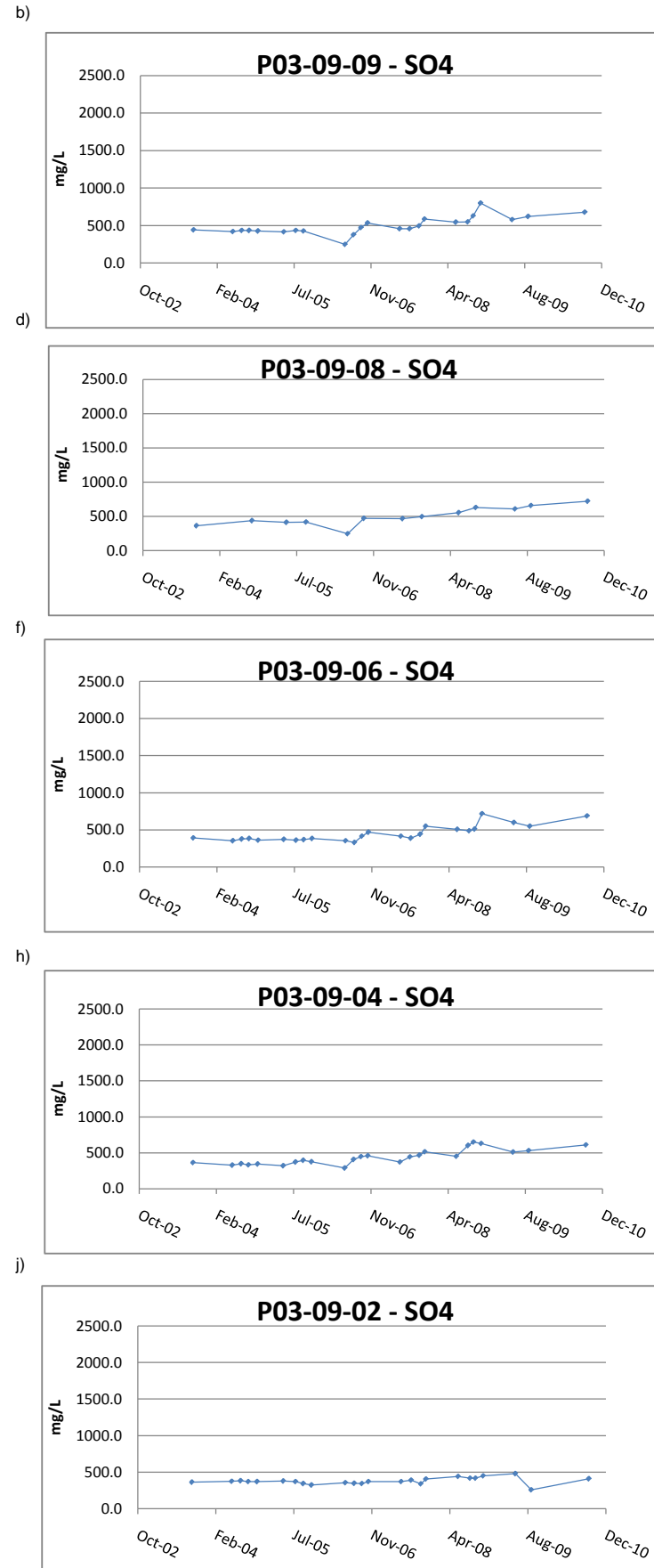
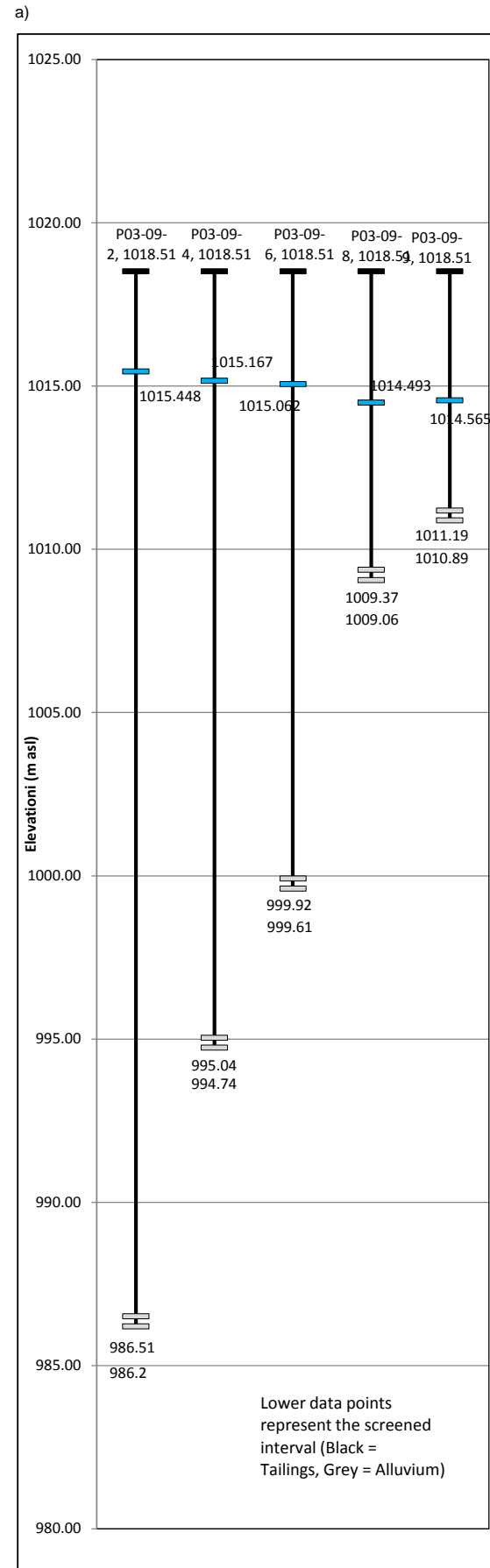
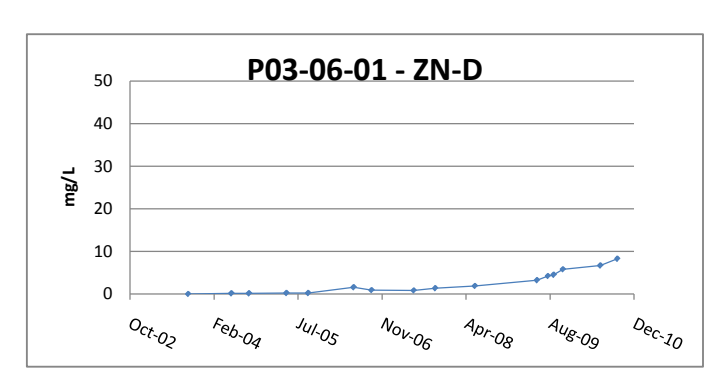
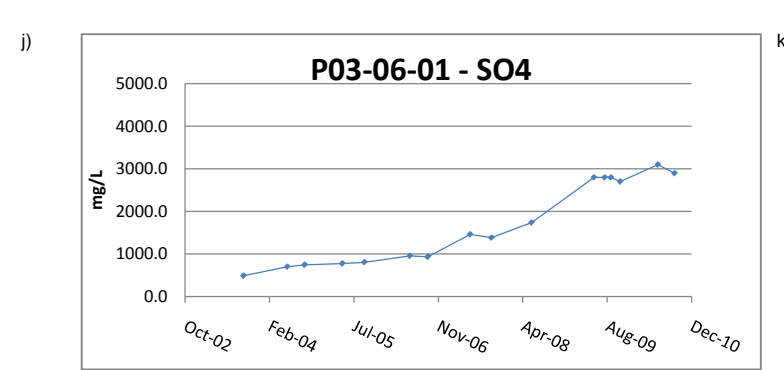
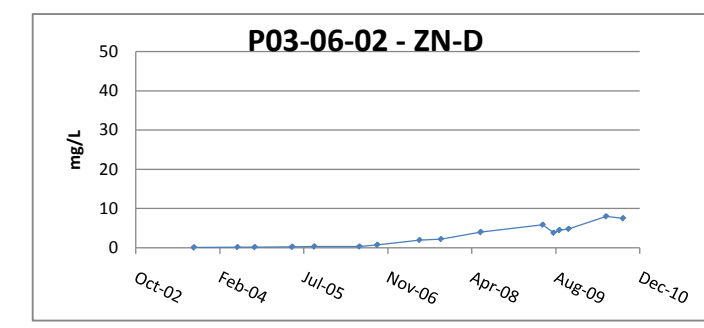
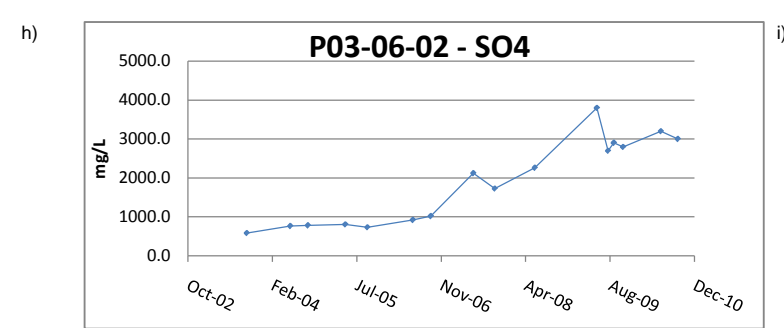
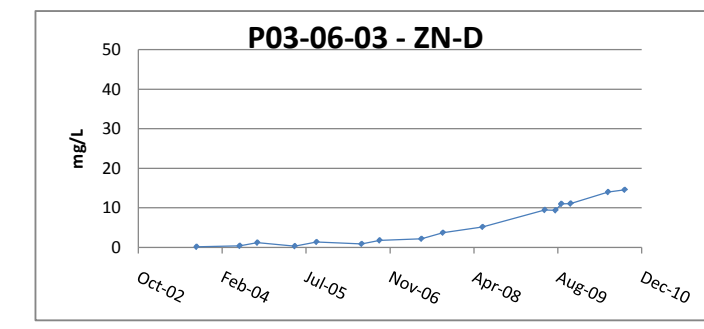
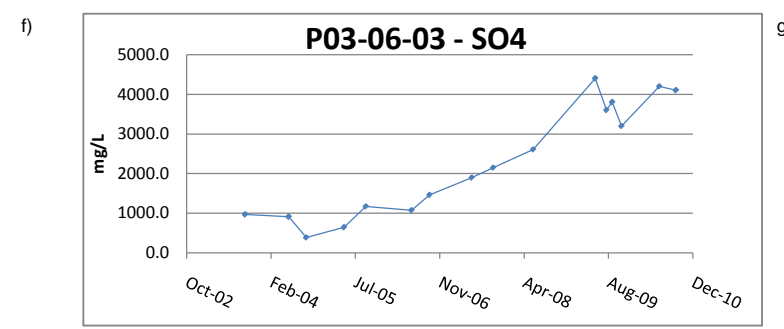
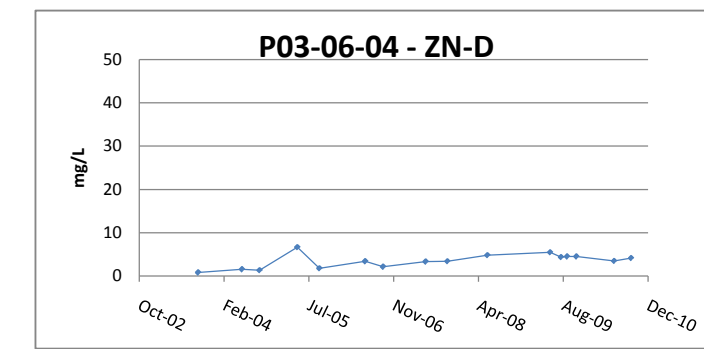
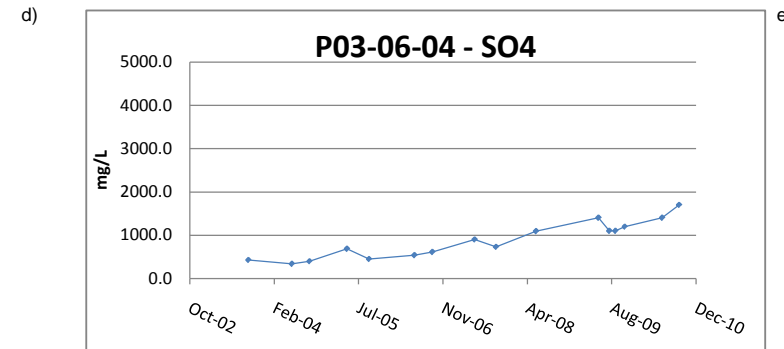
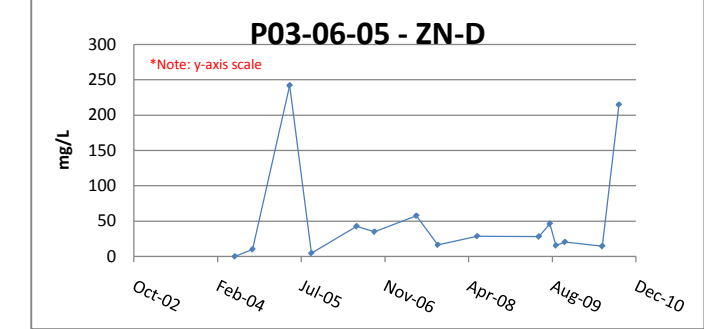
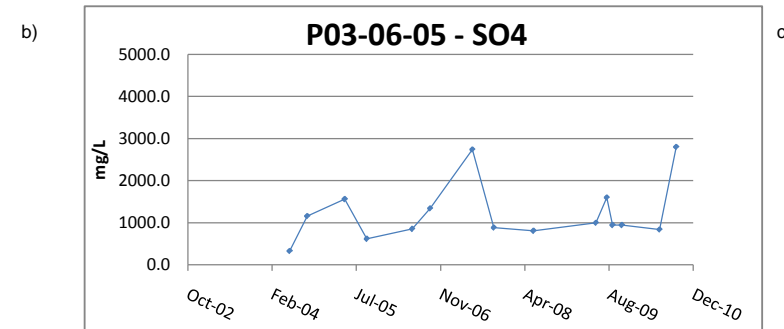
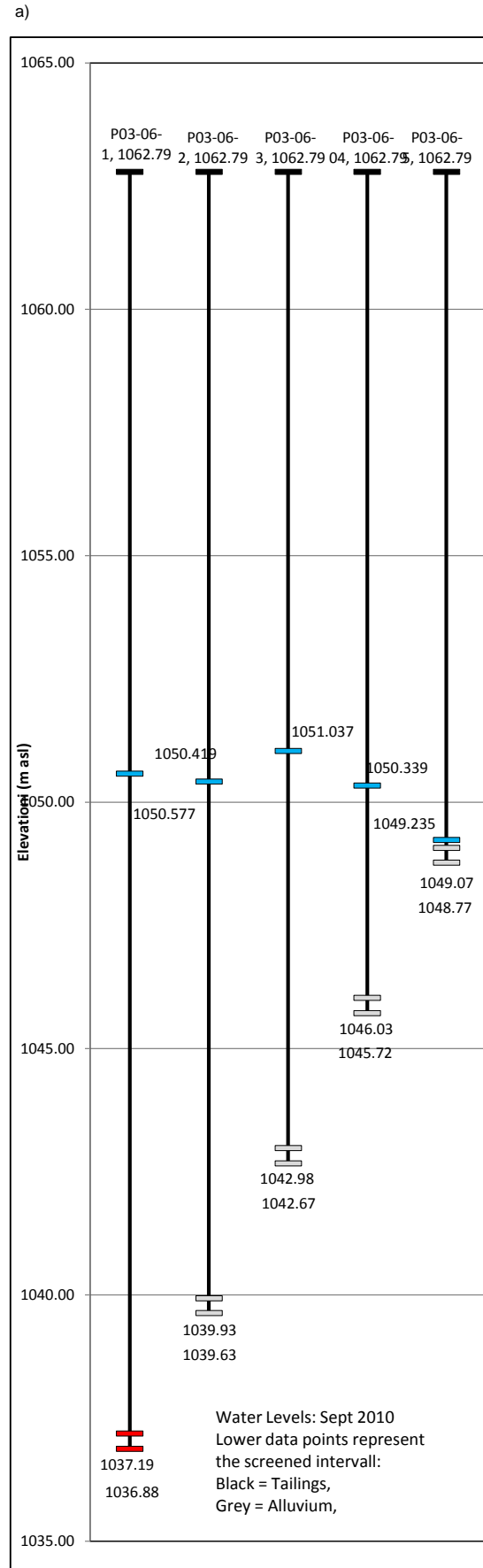
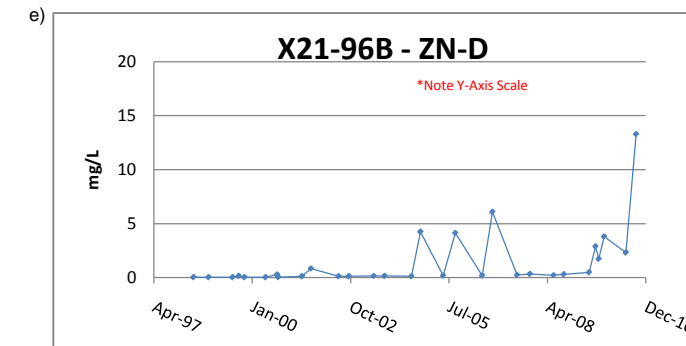
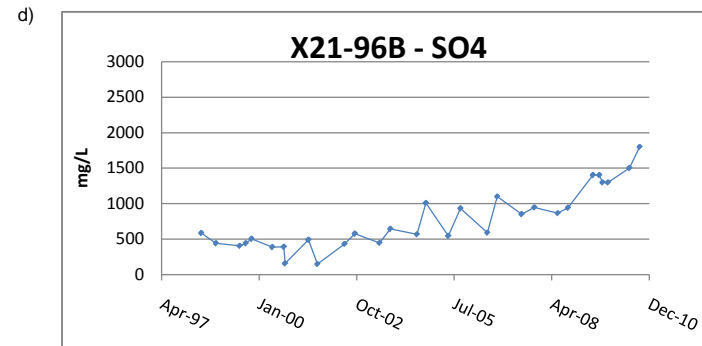
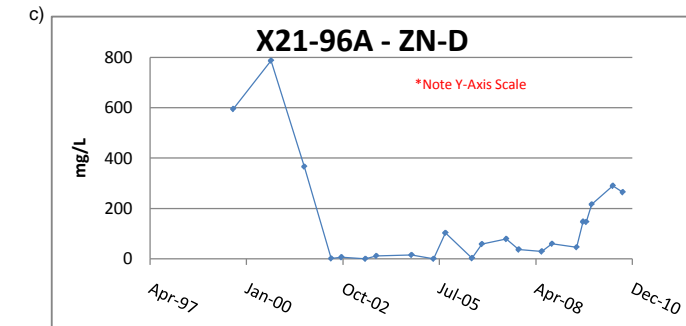
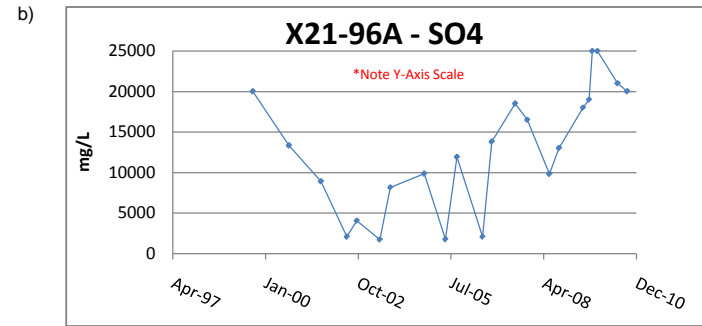
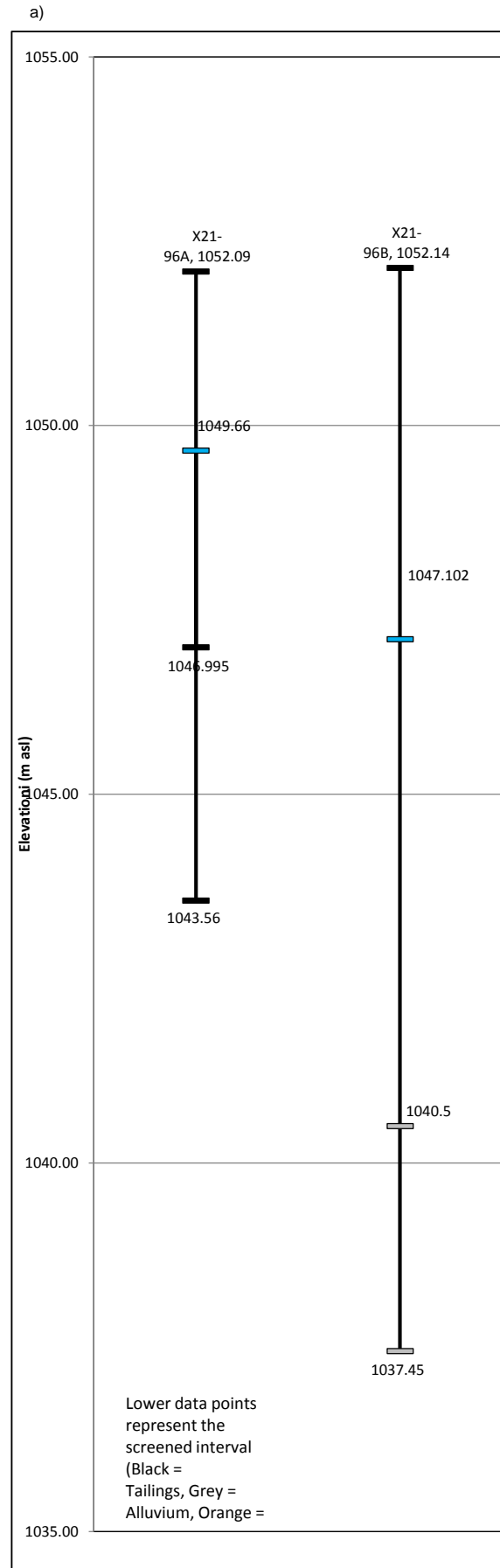


Figure 2-5: Intermediate Tailings Impoundment
Zinc and Sulfate Concentrations
P03-06-1, 2, 3, 4 + 5 (1998-2010)



Note: y-axis scale in this figure differ from other figures in this section

**Figure 2-6: Intermediate Impoundment (NE)
Zinc and Sulfate Concentrations
X21-96A+B Wells (1998-2010)**



**Figure 2-7: Toe of Intermediate Dam
Zinc and Sulfate Concentrations
P01-03, P01-04A+B (1998-2010)**

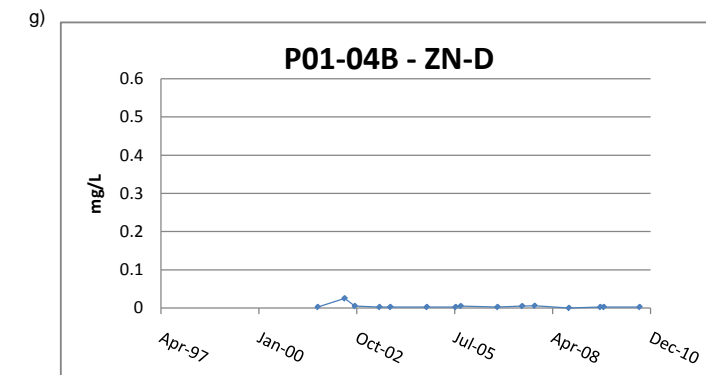
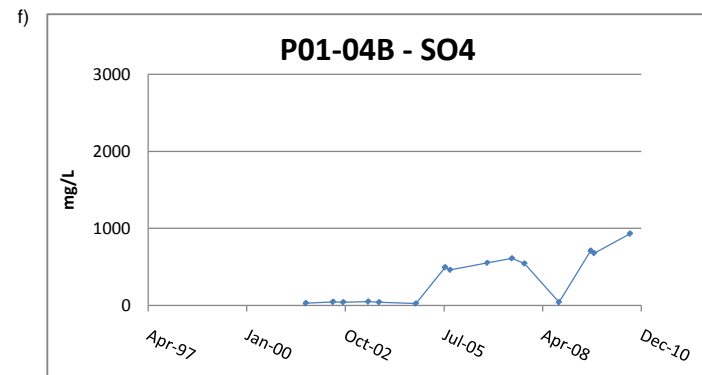
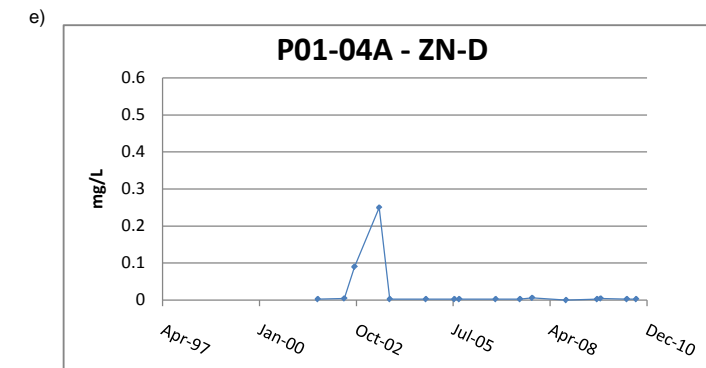
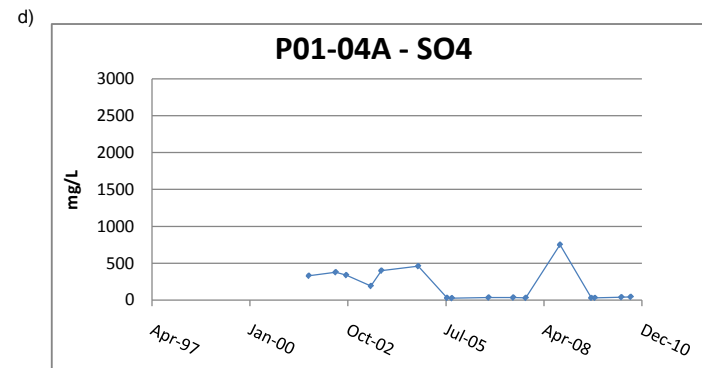
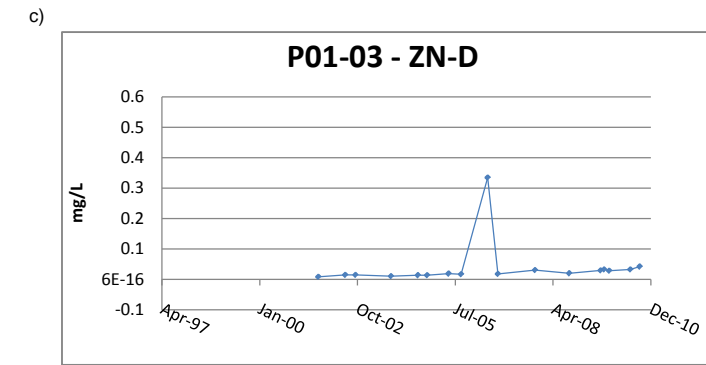
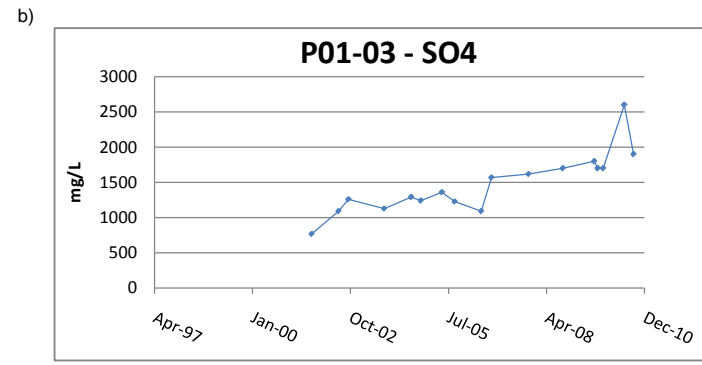
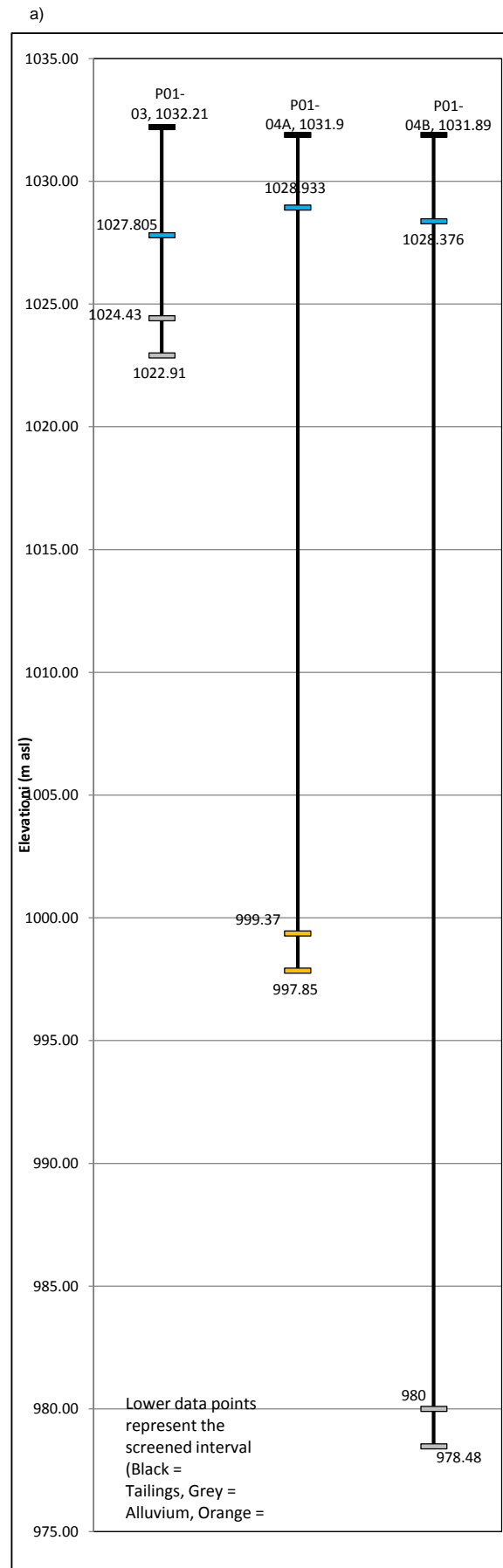


Table 2-25: Intermediate Impoundment (NE) Zinc and Sulfate Concentrations X21-96A (1998-2010)



X21-96A - Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/1/1999	20000	9/1/1999	595
9/27/2000	13325	9/27/2000	787.9
9/6/2001	8920	9/6/2001	367
6/12/2002	2070	6/12/2002	2.23
9/26/2002	4070	9/26/2002	6.72
6/4/2003	1730	6/4/2003	1.06
9/23/2003	8170	9/23/2003	12.2
9/23/2004	9840	9/23/2004	16.4
5/10/2005	1760	5/10/2005	0.837
9/11/2005	11900	9/11/2005	104
6/13/2006	2090	6/13/2006	2.99
9/23/2006	13800	9/23/2006	59.3
6/1/2007	18500	6/1/2007	79.2
10/10/2007	16500	10/10/2007	36.9
6/5/2008	9800	6/5/2008	29.5
9/17/2008	13000	9/17/2008	60.9
6/1/2009	18000	6/1/2009	46.6
8/5/2009	19000	8/5/2009	148.000
9/9/2009	25000	9/9/2009	147.000
11/3/2009	25000	11/3/2009	217.000
6/11/2010	21000	6/11/2010	290.000
9/22/2010	20000	9/22/2010	265

Table 2-26: Intermediate Impoundment (NE) Zinc and Sulfate Concentrations X21-96B (1998-2010)



X21-96B - Intermediate Impoundment

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
6/2/1998	584	6/2/1998	0.01
10/31/1998	440	10/31/1998	0.005
7/3/1999	405	7/3/1999	0.005
9/1/1999	440	9/1/1999	0.12
10/31/1999	504	10/31/1999	0.005
5/31/2000	386	5/31/2000	0.005
9/27/2000	390	9/27/2000	0.244
10/10/2000	158	10/10/2000	0.02
6/7/2001	489	6/7/2001	0.1
9/6/2001	149	9/6/2001	0.828
6/12/2002	434	6/12/2002	0.09
9/26/2002	576	9/26/2002	0.09
6/4/2003	446	6/4/2003	0.136
9/23/2003	644	9/23/2003	0.12
6/22/2004	568	6/22/2004	0.114
9/23/2004	1010	9/23/2004	4.23
5/10/2005	544	5/10/2005	0.166
9/11/2005	931	9/11/2005	4.120
6/13/2006	590	6/13/2006	0.160
9/23/2006	1100	9/23/2006	6.070
6/1/2007	851	6/1/2007	0.224
10/10/2007	947	10/10/2007	0.321
6/5/2008	867	6/5/2008	0.206
9/17/2008	940	9/17/2008	0.28
6/1/2009	1400	6/1/2009	0.452
8/5/2009	1400	8/5/2009	2.86
9/9/2009	1300	9/9/2009	1.71
11/3/2009	1300	11/3/2009	3.79
6/11/2010	1500	6/11/2010	2.29
9/22/2010	1800	9/22/2010	13.3
DLs at half value			

Table 2-27: Toe of Intermediate Dam Zinc and Sulfate Concentrations P01-03 (1998-2010)

P01-03 - Toe of Intermediate Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/10/2001	769	9/10/2001	0.009
6/12/2002	1090	6/12/2002	0.015
9/23/2002	1260	9/23/2002	0.015
9/22/2003	1130	9/22/2003	0.011
6/22/2004	1290	6/22/2004	0.0134
9/28/2004	1240	9/28/2004	0.014
5/4/2005	1360	5/4/2005	0.0188
9/9/2005	1230	9/9/2005	0.0172
6/8/2006	1090	6/8/2006	0.335
9/21/2006	1570	9/21/2006	0.0186
10/4/2007	1620	10/4/2007	0.0308
9/17/2008	1700	9/17/2008	0.0201
8/4/2009	1800	8/4/2009	0.03
9/9/2009	1700	9/9/2009	0.033
11/3/2009	1700	11/3/2009	0.029
6/7/2010	2600	6/7/2010	0.033
9/9/2010	1900	9/9/2010	0.042
	DLs at half value		

Table 2-28: Toe of Intermediate Dam Zinc and Sulfate Concentrations P01-04A (1998-2010)

P01-04A - Toe of Intermediate Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/10/2001	331	9/10/2001	0.0025
6/12/2002	377	6/12/2002	0.005
9/27/2002	338	9/27/2002	0.09
6/6/2003	191	6/6/2003	0.25
9/23/2003	399	9/23/2003	0.0025
9/30/2004	460	9/30/2004	0.0025
7/21/2005	31.8	7/21/2005	0.0025
9/10/2005	26	9/10/2005	0.0025
9/21/2006	34	9/21/2006	0.0025
5/31/2007	34.3	5/31/2007	0.0025
10/4/2007	31.2	10/4/2007	0.007
9/17/2008	750	9/17/2008	0
8/4/2009	33	8/4/2009	0.0025
9/9/2009	32	9/9/2009	0.005
6/7/2010	40	6/7/2010	0.0025
9/9/2010	44	9/9/2010	0.0025
DLs at half value			

Table 2-29: Toe of Intermediate Dam Zinc and Sulfate Concentrations P01-04B (1998-2010)

P01-04B - Toe of Intermediate Dam

	SO4		ZN-D
DATE	mg/L	DATE	mg/L
9/10/2001	30	9/10/2001	0.0025
6/12/2002	46	6/12/2002	0.025
9/24/2002	44	9/24/2002	0.005
6/3/2003	50	6/3/2003	0.0025
9/23/2003	43	9/23/2003	0.0025
9/30/2004	26.7	9/30/2004	0.0025
7/21/2005	494	7/21/2005	0.0025
9/10/2005	463	9/10/2005	0.0056
9/21/2006	555	9/21/2006	0.0025
5/31/2007	613	5/31/2007	0.0053
10/4/2007	546	10/4/2007	0.0063
9/17/2008	41	9/17/2008	0.0002
8/4/2009	710	8/4/2009	0.0025
9/9/2009	680	9/9/2009	0.0025
9/9/2010	930	9/9/2010	0.0025
DLs at half value			