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# Appendix B Water Resources

## B1 Hydrogeology

B1.1: 2005-2007 Water Level Data

B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

B1.3: Groundwater Quality Temporal Trends

B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends

B1.5: Groundwater Monitoring Well and Sampling Event Exclusions

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
BH05-9B-R	19-Sep-06	0.7
BH05-9B-R	29-May-07	0
BH1	05-May-05	3.42
BH1	11-Sep-05	3.67
BH1	05-Jun-06	3.18
BH1	18-Sep-06	3.5
BH1	28-May-07	3.35
BH1	02-Oct-07	3.42
BH12A	06-May-05	2.6
BH12A	11-Sep-05	2.53
BH12A	05-Jun-06	2.91
BH12A	18-Sep-06	2.65
BH12A	02-Oct-07	2.333
BH12B	06-May-05	2.65
BH12B	11-Sep-05	2.58
BH12B	05-Jun-06	3.43
BH12B	18-Sep-06	2.62
BH12B	02-Oct-07	2.811
BH13A	06-May-05	4.18
BH13A	11-Sep-05	3
BH13A	18-Sep-06	2.81
BH13A	02-Oct-07	2.634
BH13B	11-Sep-05	3.23
BH13B	18-Sep-06	3.21
BH13B	02-Oct-07	3.22
BH14A	05-May-05	3.32
BH14A	11-Sep-05	3.51
BH14A	05-Jun-06	4
BH14A	18-Sep-06	4.19
BH14A	28-May-07	3.948
BH14A	02-Oct-07	3.515
BH14B	05-May-05	3.97
BH14B	11-Sep-05	4.24
BH14B	05-Jun-06	4.17
BH14B	18-Sep-06	4.48
BH14B	28-May-07	4.545
BH14B	02-Oct-07	4.15
BH2	05-May-05	4.75
BH2	11-Sep-05	4.86
BH2	05-Jun-06	4.62
BH2	18-Sep-06	4.93
BH2	28-May-07	4.72
BH2	02-Oct-07	4.835
BH4	05-May-05	2.34
BH4	11-Sep-05	2.49
BH4	05-Jun-06	2.35
BH4	18-Sep-06	2.54
BH4	02-Oct-07	2.495

STATION	DATE	WL-M mbtoc
BH6	18-Sep-06	3.52
BH6	28-May-07	3.235
BH6	02-Oct-07	3.444
P01-01A	20-Jul-05	3.6
P01-01A	10-Sep-05	4.02
P01-01A	08-Jun-06	3.93
P01-01A	22-Sep-06	3.88
P01-01A	30-May-07	3.72
P01-01A	03-Oct-07	3.775
P01-01B	04-May-05	3.75
P01-01B	10-Sep-05	3.81
P01-01B	08-Jun-06	3.65
P01-01B	22-Sep-06	3.78
P01-01B	30-May-07	3.786
P01-01B	03-Oct-07	3.81
P01-02A	11-May-05	2.29
P01-02A	21-Jul-05	1.72
P01-02A	09-Sep-05	2.25
P01-02A	09-Jun-06	0.85
P01-02A	22-Sep-06	2.28
P01-02A	04-Oct-07	2.133
P01-02B	21-Jul-05	1.52
P01-02B	09-Sep-05	0.66
P01-02B	09-Jun-06	2.43
P01-02B	22-Sep-06	0.72
P01-02B	30-May-07	0.634
P01-03	04-May-05	3.89
P01-03	09-Sep-05	4.08
P01-03	21-Sep-06	4.32
P01-03	04-Oct-07	3.59
P01-04A	21-Jul-05	2.48
P01-04A	10-Sep-05	2.83
P01-04A	21-Sep-06	3.41
P01-04A	31-May-07	1.685
P01-04A	04-Oct-07	2.249
P01-04B	21-Jul-05	3
P01-04B	10-Sep-05	3.33
P01-04B	21-Sep-06	3.63
P01-04B	31-May-07	2.143
P01-04B	04-Oct-07	2.811
P01-11	10-May-05	0.74
P01-11	09-Sep-05	1.07
P01-11	09-Jun-06	1.08
P01-11	21-Sep-06	1.12
P01-11	30-May-07	0.89
P01-11	04-Oct-07	0.988

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
P03-01-01	03-May-05	6.36
P03-01-01	08-Sep-05	6.03
P03-01-01	09-Jun-06	5.84
P03-01-01	21-Sep-06	6.11
P03-01-01	01-Jun-07	5.75
P03-01-01	10-Oct-07	5.83
P03-01-02	03-May-05	6.35
P03-01-02	08-Sep-05	6.1
P03-01-02	09-Jun-06	5.89
P03-01-02	21-Sep-06	6.14
P03-01-02	01-Jun-07	5.8
P03-01-02	10-Oct-07	5.91
P03-01-03	03-May-05	6.34
P03-01-03	08-Sep-05	6.08
P03-01-03	09-Jun-06	5.88
P03-01-03	21-Sep-06	6.14
P03-01-03	01-Jun-07	5.85
P03-01-03	10-Oct-07	5.94
P03-01-04	03-May-05	6.36
P03-01-04	08-Sep-05	6.1
P03-01-04	09-Jun-06	5.89
P03-01-04	21-Sep-06	6.15
P03-01-04	01-Jun-07	5.89
P03-01-04	10-Oct-07	5.99
P03-01-05	03-May-05	6.37
P03-01-05	08-Sep-05	6.1
P03-01-05	09-Jun-06	5.91
P03-01-05	21-Sep-06	6.16
P03-01-05	01-Jun-07	5.92
P03-01-05	10-Oct-07	6.02
P03-01-06	03-May-05	6.36
P03-01-06	08-Sep-05	6.08
P03-01-06	09-Jun-06	5.88
P03-01-06	21-Sep-06	6.14
P03-01-06	01-Jun-07	5.93
P03-01-06	10-Oct-07	6.04
P03-01-07	03-May-05	6.34
P03-01-07	08-Sep-05	6.02
P03-01-07	09-Jun-06	5.97
P03-01-07	21-Sep-06	6.13
P03-01-07	01-Jun-07	5.97
P03-01-07	10-Oct-07	6.02
P03-01-08	08-Sep-05	5.77
P03-01-08	09-Jun-06	5.98
P03-01-08	21-Sep-06	5.99
P03-01-08	01-Jun-07	5.99
P03-01-08	10-Oct-07	6.04
P03-01-09	03-May-05	6.38
P03-01-09	08-Sep-05	5.84
P03-01-09	09-Jun-06	6
P03-01-09	21-Sep-06	6.01
P03-01-09	01-Jun-07	6.13
P03-01-09	10-Oct-07	6.18

STATION	DATE	WL-M mbtoc
P03-02-01	11-May-05	5.86
P03-02-01	08-Sep-05	6.18
P03-02-01	08-Jun-06	6.01
P03-02-01	21-Sep-06	6.24
P03-02-01	01-Jun-07	5.87
P03-02-01	05-Oct-07	5.98
P03-02-02	11-May-05	5.86
P03-02-02	08-Sep-05	6.17
P03-02-02	08-Jun-06	6.01
P03-02-02	21-Sep-06	6.23
P03-02-02	01-Jun-07	5.87
P03-02-02	05-Oct-07	6.01
P03-02-03	11-May-05	5.84
P03-02-03	08-Sep-05	6.18
P03-02-03	08-Jun-06	6.01
P03-02-03	22-Sep-06	6.24
P03-02-03	01-Jun-07	5.92
P03-02-03	05-Oct-07	6.02
P03-02-04	11-May-05	5.84
P03-02-04	08-Sep-05	6.17
P03-02-04	08-Jun-06	6.02
P03-02-04	22-Sep-06	6.24
P03-02-04	01-Jun-07	5.94
P03-02-04	05-Oct-07	6.06
P03-02-05	11-May-05	5.86
P03-02-05	08-Sep-05	6.18
P03-02-05	08-Jun-06	6.07
P03-02-05	22-Sep-06	6.3
P03-02-05	01-Jun-07	6.05
P03-02-05	05-Oct-07	6.13
P03-02-06	11-May-05	5.89
P03-02-06	08-Sep-05	6.1
P03-02-06	08-Jun-06	6.07
P03-02-06	22-Sep-06	6.27
P03-02-07	11-May-05	5.74
P03-02-07	08-Sep-05	5.52
P03-02-07	08-Jun-06	5.57
P03-02-07	22-Sep-06	5.78
P03-02-07	01-Jun-07	5.88
P03-02-07	05-Oct-07	5.82
P03-02-08	11-May-05	5.69
P03-02-08	08-Sep-05	5.35
P03-02-08	08-Jun-06	5.63
P03-02-08	22-Sep-06	5.68
P03-02-08	01-Jun-07	5.87
P03-02-08	05-Oct-07	5.79
P03-02-09	11-May-05	5.61
P03-02-09	08-Sep-05	5.27
P03-02-09	08-Jun-06	5.63
P03-02-09	22-Sep-06	5.64
P03-02-09	01-Jun-07	5.89
P03-02-09	05-Oct-07	5.77

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
P03-03-01	05-May-05	7.53
P03-03-01	22-Jul-05	6.97
P03-03-01	08-Sep-05	7.29
P03-03-01	15-Jun-06	7.1
P03-03-01	22-Sep-06	7.36
P03-03-01	31-May-07	7.055
P03-03-01	05-Oct-07	7.44
P03-03-02	11-May-05	5.86
P03-03-02	22-Jul-05	7.04
P03-03-02	08-Sep-05	7.38
P03-03-02	15-Jun-06	7.2
P03-03-02	22-Sep-06	7.46
P03-03-02	31-May-07	7.114
P03-03-02	05-Oct-07	7.49
P03-03-03	11-May-05	7.62
P03-03-03	22-Jul-05	7.05
P03-03-03	08-Sep-05	7.34
P03-03-03	15-Jun-06	7.15
P03-03-03	22-Sep-06	7.4
P03-03-03	31-May-07	7.146
P03-03-03	05-Oct-07	7.52
P03-03-04	05-May-05	7.57
P03-03-04	22-Jul-05	7.08
P03-03-04	08-Sep-05	7.35
P03-03-04	15-Jun-06	7.16
P03-03-04	22-Sep-06	7.4
P03-03-04	31-May-07	7.18
P03-03-04	05-Oct-07	7.56
P03-03-05	05-May-05	7.58
P03-03-05	22-Jul-05	7.09
P03-03-05	08-Sep-05	7.34
P03-03-05	15-Jun-06	7.16
P03-03-05	22-Sep-06	7.42
P03-03-05	31-May-07	7.197
P03-03-05	05-Oct-07	7.59
P03-03-06	05-May-05	7.57
P03-03-06	22-Jul-05	7.11
P03-03-06	08-Sep-05	7.32
P03-03-06	15-Jun-06	7.19
P03-03-06	22-Sep-06	7.41
P03-03-06	31-May-07	7.216
P03-03-06	05-Oct-07	7.58
P03-03-08	05-May-05	7.52
P03-03-08	08-Sep-05	7.14
P03-03-08	15-Jun-06	7
P03-03-08	22-Sep-06	7.13
P03-03-08	31-May-07	7.32
P03-03-08	05-Oct-07	7.67
P03-03-09	08-Sep-05	7.04
P03-03-09	15-Jun-06	6.98
P03-03-09	22-Sep-06	7.14
P03-03-09	31-May-07	7.258
P03-03-09	05-Oct-07	7.53

STATION	DATE	WL-M mbtoc
P03-04-01	03-May-05	12.64
P03-04-01	10-Sep-05	12.36
P03-04-01	01-Nov-05	12.45
P03-04-01	07-Jun-06	12.57
P03-04-01	02-Aug-06	2.5
P03-04-01	20-Sep-06	12.47
P03-04-01	02-Nov-06	12.52
P03-04-01	30-May-07	12.402
P03-04-01	04-Oct-07	12.21
P03-04-02	03-May-05	12.6
P03-04-02	22-Jul-05	12.09
P03-04-02	10-Sep-05	12.32
P03-04-02	31-Oct-05	12.45
P03-04-02	07-Jun-06	12.52
P03-04-02	02-Aug-06	12.46
P03-04-02	20-Sep-06	12.51
P03-04-02	02-Nov-06	12.6
P03-04-02	30-May-07	12.47
P03-04-02	02-Aug-07	12.28
P03-04-02	04-Oct-07	12.28
P03-04-02	05-Nov-07	12.42
P03-04-03	03-May-05	12.53
P03-04-03	10-Sep-05	12.26
P03-04-03	01-Nov-05	12.37
P03-04-03	07-Jun-06	12.47
P03-04-03	02-Aug-06	12.4
P03-04-03	20-Sep-06	12.39
P03-04-03	02-Nov-06	12.45
P03-04-03	30-May-07	12.35
P03-04-03	04-Oct-07	12.18
P03-04-04	03-May-05	12.96
P03-04-04	22-Jul-05	12.38
P03-04-04	10-Sep-05	12.62
P03-04-04	31-Oct-05	12.75
P03-04-04	07-Jun-06	12.89
P03-04-04	02-Aug-06	12.77
P03-04-04	20-Sep-06	12.77
P03-04-04	02-Nov-06	12.89
P03-04-04	30-May-07	12.82
P03-04-04	02-Aug-07	12.53
P03-04-04	04-Oct-07	12.18
P03-04-04	05-Nov-07	12.67
P03-04-05	03-May-05	12.97
P03-04-05	10-Sep-05	12.62
P03-04-05	01-Nov-05	12.75
P03-04-05	07-Jun-06	12.87
P03-04-05	02-Aug-06	12.77
P03-04-05	20-Sep-06	12.76
P03-04-05	02-Nov-06	12.86
P03-04-05	30-May-07	12.85

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
P03-04-06	03-May-05	12.92
P03-04-06	22-Jul-05	12.44
P03-04-06	10-Sep-05	12.5
P03-04-06	31-Oct-05	12.63
P03-04-06	07-Jun-06	12.99
P03-04-06	02-Aug-06	12.8
P03-04-06	21-Sep-06	12.72
P03-04-06	02-Nov-06	12.83
P03-04-06	30-May-07	12.844
P03-04-06	02-Aug-07	12.67
P03-04-06	04-Oct-07	12.63
P03-04-06	05-Nov-07	12.66
P03-04-07	03-May-05	12.95
P03-04-07	10-Sep-05	12.5
P03-04-07	01-Nov-05	12.63
P03-04-07	07-Jun-06	13
P03-04-07	02-Aug-06	12.8
P03-04-07	21-Sep-06	12.72
P03-04-07	02-Nov-06	12.86
P03-04-07	30-May-07	12.868
P03-04-07	04-Oct-07	12.64
P03-04-08	03-May-05	12.95
P03-04-08	22-Jul-05	12.52
P03-04-08	10-Sep-05	12.47
P03-04-08	01-Nov-05	12.61
P03-04-08	07-Jun-06	13
P03-04-08	02-Aug-06	12.81
P03-04-08	21-Sep-06	12.75
P03-04-08	02-Nov-06	12.84
P03-04-08	30-May-07	12.925
P03-04-08	04-Oct-07	12.57
P03-04-09	03-May-05	12.95
P03-04-09	10-Sep-05	12.47
P03-04-09	01-Nov-05	12.61
P03-04-09	07-Jun-06	13
P03-04-09	02-Aug-06	12.81
P03-04-09	21-Sep-06	12.74
P03-04-09	02-Nov-06	12.84
P03-04-09	30-May-07	12.953
P03-04-09	04-Oct-07	12.71
P03-05-01	04-May-05	8.91
P03-05-01	10-Sep-05	8.68
P03-05-01	15-Jun-06	8.67
P03-05-01	02-Nov-06	8.85
P03-05-01	31-May-07	8.62
P03-05-01	02-Oct-07	8.56
P03-05-02	04-May-05	8.91
P03-05-02	10-Sep-05	8.67
P03-05-02	15-Jun-06	8.66
P03-05-02	02-Nov-06	8.84
P03-05-02	31-May-07	8.61
P03-05-02	02-Oct-07	8.57

STATION	DATE	WL-M mbtoc
P03-05-03	04-May-05	8.94
P03-05-03	10-Sep-05	8.7
P03-05-03	15-Jun-06	8.71
P03-05-03	02-Nov-06	8.86
P03-05-03	31-May-07	8.672
P03-05-03	02-Oct-07	8.63
P03-05-04	04-May-05	9.07
P03-05-04	10-Sep-05	8.81
P03-05-04	15-Jun-06	8.85
P03-05-04	02-Nov-06	8.99
P03-05-04	31-May-07	8.82
P03-05-04	02-Oct-07	8.77
P03-05-05	04-May-05	9.09
P03-05-05	10-Sep-05	8.8
P03-05-05	15-Jun-06	8.85
P03-05-05	02-Nov-06	9
P03-05-05	31-May-07	8.855
P03-05-05	02-Oct-07	8.81
P03-05-06	04-May-05	8.94
P03-05-06	10-Sep-05	8.62
P03-05-06	15-Jun-06	8.73
P03-05-06	02-Nov-06	8.85
P03-05-06	31-May-07	8.753
P03-05-06	02-Oct-07	8.69
P03-05-07	04-May-05	8.96
P03-05-07	10-Sep-05	8.66
P03-05-07	15-Jun-06	8.77
P03-05-07	02-Nov-06	8.79
P03-05-07	31-May-07	8.805
P03-05-07	02-Oct-07	8.74
P03-05-08	04-May-05	8.8
P03-05-08	10-Sep-05	8.5
P03-05-08	15-Jun-06	8.66
P03-05-08	02-Nov-06	8.72
P03-05-08	31-May-07	8.69
P03-05-08	02-Oct-07	8.69
P03-06-01	03-May-05	12.72
P03-06-01	10-Sep-05	12.32
P03-06-01	07-Jun-06	12.55
P03-06-01	21-Sep-06	12.53
P03-06-01	30-May-07	12.457
P03-06-01	04-Oct-07	12.38
P03-06-02	03-May-05	12.7
P03-06-02	10-Sep-05	12.32
P03-06-02	07-Jun-06	12.56
P03-06-02	21-Sep-06	12.5
P03-06-02	30-May-07	12.493
P03-06-02	04-Oct-07	12.4
P03-06-03	03-May-05	12.72
P03-06-03	10-Sep-05	12.32
P03-06-03	07-Jun-06	12.54
P03-06-03	21-Sep-06	12.53
P03-06-03	30-May-07	12.51
P03-06-03	04-Oct-07	12.43

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
P03-06-04	03-May-05	12.72
P03-06-04	10-Sep-05	12.34
P03-06-04	07-Jun-06	12.54
P03-06-04	21-Sep-06	12.55
P03-06-04	30-May-07	12.55
P03-06-04	04-Oct-07	12.45
P03-06-05	03-May-05	12.71
P03-06-05	10-Sep-05	12.29
P03-06-05	07-Jun-06	12.54
P03-06-05	21-Sep-06	12.51
P03-06-05	30-May-07	12.573
P03-06-05	04-Oct-07	12.44
P03-06-06	10-Sep-05	12.26
P03-06-06	07-Jun-06	12.58
P03-06-06	21-Sep-06	12.52
P03-06-06	30-May-07	12.56
P03-07-02	07-Jun-06	13.29
P03-07-02	03-Aug-06	13.31
P03-07-02	20-Sep-06	13.29
P03-07-03	03-Aug-06	13.32
P03-08-01	05-May-05	8.85
P03-08-01	09-Sep-05	8.46
P03-08-01	31-Oct-05	8.56
P03-08-01	06-Jun-06	8.62
P03-08-01	02-Aug-06	8.36
P03-08-01	19-Sep-06	8.33
P03-08-01	01-Nov-06	8.46
P03-08-01	29-May-07	8.508
P03-08-01	03-Oct-07	7.76
P03-08-02	05-May-05	8.86
P03-08-02	23-Jul-05	7.56
P03-08-02	09-Sep-05	8.15
P03-08-02	01-Nov-05	8.56
P03-08-02	06-Jun-06	8.62
P03-08-02	02-Aug-06	8.38
P03-08-02	19-Sep-06	8.33
P03-08-02	01-Nov-06	8.45
P03-08-02	29-May-07	8.525
P03-08-02	02-Aug-07	7.66
P03-08-03	05-May-05	8.65
P03-08-03	23-Jul-05	7.38
P03-08-03	09-Sep-05	7.95
P03-08-03	01-Nov-05	8.33
P03-08-03	06-Jun-06	8.44
P03-08-03	02-Aug-06	8.15
P03-08-03	19-Sep-06	8.12
P03-08-03	01-Nov-06	8.26
P03-08-03	29-May-07	8.367
P03-08-03	02-Aug-07	7.56
P03-08-03	03-Oct-07	7.63
P03-08-03	05-Nov-07	7.705

STATION	DATE	WL-M mbtoc
P03-08-04	05-May-05	8.66
P03-08-04	23-Jul-05	7.39
P03-08-04	09-Sep-05	7.92
P03-08-04	01-Nov-05	8.33
P03-08-04	06-Jun-06	8.44
P03-08-04	02-Aug-06	7.93
P03-08-04	19-Sep-06	8.12
P03-08-04	01-Nov-06	8.26
P03-08-04	29-May-07	8.38
P03-08-04	02-Aug-07	7.47
P03-08-04	03-Oct-07	7.64
P03-08-04	05-Nov-07	7.715
P03-08-05	05-May-05	8.49
P03-08-05	23-Jul-05	7.19
P03-08-05	09-Sep-05	7.72
P03-08-05	01-Nov-05	8.11
P03-08-05	06-Jun-06	8.21
P03-08-05	02-Aug-06	7.92
P03-08-05	19-Sep-06	7.92
P03-08-05	01-Nov-06	8.08
P03-08-05	29-May-07	8.218
P03-08-05	02-Aug-07	7.29
P03-08-05	03-Oct-07	7.42
P03-08-05	05-Nov-07	7.435
P03-08-06	05-May-05	8.06
P03-08-06	09-Sep-05	7.33
P03-08-06	01-Nov-05	5.89
P03-08-06	06-Jun-06	7.79
P03-08-06	02-Aug-06	7.53
P03-08-06	19-Sep-06	7.51
P03-08-06	01-Nov-06	7.67
P03-08-06	29-May-07	7.925
P03-08-07	05-May-05	5.85
P03-08-07	09-Sep-05	5.39
P03-08-07	31-Oct-05	5.89
P03-08-07	06-Jun-06	5.7
P03-08-07	02-Aug-06	5.68
P03-08-07	20-Sep-06	5.68
P03-08-07	01-Nov-06	5.8
P03-08-07	29-May-07	6.27
P03-08-07	03-Oct-07	5.19
P03-08-08	05-May-05	5.72
P03-08-08	10-Sep-05	5.26
P03-08-08	31-Oct-05	5.74
P03-08-08	06-Jun-06	5.53
P03-08-08	02-Aug-06	5.56
P03-08-08	20-Sep-06	5.56
P03-08-08	01-Nov-06	5.7
P03-08-08	29-May-07	6.175
P03-08-08	03-Oct-07	5.1

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
P03-09-01	04-May-05	2.64
P03-09-01	09-Sep-05	2.87
P03-09-01	31-Oct-05	2.78
P03-09-01	06-Jun-06	4.65
P03-09-01	02-Aug-06	2.71
P03-09-01	19-Sep-06	2.78
P03-09-01	01-Nov-06	2.78
P03-09-01	29-May-07	2.54
P03-09-01	02-Oct-07	2.49
P03-09-02	04-May-05	2.89
P03-09-02	22-Jul-05	2.6
P03-09-02	09-Sep-05	3.11
P03-09-02	01-Nov-05	2.78
P03-09-02	06-Jun-06	6.48
P03-09-02	02-Aug-06	3
P03-09-02	19-Sep-06	3.09
P03-09-02	01-Nov-06	3.08
P03-09-02	29-May-07	2.915
P03-09-02	02-Aug-07	2.59
P03-09-02	02-Oct-07	2.9
P03-09-02	05-Nov-07	3.01
P03-09-03	04-May-05	3.01
P03-09-03	09-Sep-05	3.33
P03-09-03	31-Oct-05	3.15
P03-09-03	06-Jun-06	3.47
P03-09-03	02-Aug-06	3.08
P03-09-03	19-Sep-06	3.15
P03-09-03	01-Nov-06	3.17
P03-09-03	29-May-07	3.04
P03-09-03	02-Oct-07	2.965
P03-09-04	04-May-05	3.33
P03-09-04	22-Jul-05	3.1
P03-09-04	09-Sep-05	3.48
P03-09-04	01-Nov-05	3.45
P03-09-04	06-Jun-06	4.28
P03-09-04	02-Aug-06	3.36
P03-09-04	19-Sep-06	3.42
P03-09-04	01-Nov-06	3.44
P03-09-04	29-May-07	3.33
P03-09-04	02-Aug-07	3.05
P03-09-04	02-Oct-07	2.97
P03-09-04	05-Nov-07	3.35
P03-09-05	04-May-05	3.38
P03-09-05	09-Sep-05	3.52
P03-09-05	31-Oct-05	3.49
P03-09-05	06-Jun-06	4.24
P03-09-05	02-Aug-06	3.4
P03-09-05	19-Sep-06	3.45
P03-09-05	01-Nov-06	3.49
P03-09-05	29-May-07	3.388
P03-09-05	02-Oct-07	3.32

STATION	DATE	WL-M mbtoc
P03-09-06	04-May-05	3.4
P03-09-06	22-Jul-05	3.18
P03-09-06	09-Sep-05	3.53
P03-09-06	01-Nov-05	3.51
P03-09-06	06-Jun-06	4.57
P03-09-06	02-Aug-06	3.4
P03-09-06	19-Sep-06	3.47
P03-09-06	01-Nov-06	3.49
P03-09-06	29-May-07	3.415
P03-09-06	02-Aug-07	3.11
P03-09-06	02-Oct-07	3.34
P03-09-06	05-Nov-07	3.38
P03-09-07	04-May-05	3.54
P03-09-07	22-Jul-05	3.35
P03-09-07	09-Sep-05	3.66
P03-09-07	01-Nov-05	3.66
P03-09-07	06-Jun-06	6.71
P03-09-07	02-Aug-06	3.56
P03-09-07	19-Sep-06	3.62
P03-09-07	01-Nov-06	3.62
P03-09-07	29-May-07	3.57
P03-09-07	02-Aug-07	3.31
P03-09-07	02-Oct-07	3.5
P03-09-07	05-Nov-07	3.52
P03-09-08	04-May-05	3.58
P03-09-08	09-Sep-05	3.71
P03-09-08	31-Oct-05	3.66
P03-09-08	06-Jun-06	5.36
P03-09-08	02-Aug-06	3.61
P03-09-08	19-Sep-06	3.67
P03-09-08	01-Nov-06	3.68
P03-09-08	29-May-07	3.641
P03-09-08	02-Oct-07	3.59
P03-09-09	04-May-05	3.75
P03-09-09	22-Jul-05	3.6
P03-09-09	09-Sep-05	4.08
P03-09-09	01-Nov-05	4.07
P03-09-09	06-Jun-06	5.75
P03-09-09	02-Aug-06	3.96
P03-09-09	19-Sep-06	3.99
P03-09-09	01-Nov-06	3.99
P03-09-09	29-May-07	3.945
P03-09-09	02-Aug-07	3.72
P03-09-09	02-Oct-07	3.88
P03-09-09	05-Nov-07	3.88
P05-01-01	01-Nov-05	1.78
P05-01-01	02-Aug-06	3.15
P05-01-01	19-Sep-06	1.81
P05-01-01	02-Oct-07	2.15
P05-01-02	01-Nov-05	1.91
P05-01-02	02-Aug-06	3.34
P05-01-02	19-Sep-06	1.78
P05-01-02	02-Oct-07	2.17

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
P05-01-03	01-Nov-05	1.92
P05-01-03	02-Aug-06	3.3
P05-01-03	19-Sep-06	1.92
P05-01-03	02-Oct-07	3.24
P05-01-04	01-Nov-05	1.96
P05-01-04	02-Aug-06	3.25
P05-01-04	19-Sep-06	1.97
P05-01-04	02-Oct-07	1.91
P05-01-05	01-Nov-05	2.25
P05-01-05	02-Aug-06	3.69
P05-01-05	19-Sep-06	2.27
P05-01-05	02-Oct-07	2.4
P05-01-06	01-Nov-05	2.31
P05-01-06	14-Jun-06	3.09
P05-01-06	02-Aug-06	2.33
P05-01-06	19-Sep-06	2.33
P05-01-06	29-May-07	2.353
P05-01-06	02-Oct-07	2.31
P05-02	13-Jun-06	1.93
P05-02	22-Sep-06	1.93
P05-02	04-Oct-07	0.995
P05-03	09-Jun-06	4.72
P05-03	21-Sep-06	4.66
P05-03	30-May-07	4.62
P05-03	04-Oct-07	4.57
P05-04	05-Jun-06	2.91
P05-04	18-Sep-06	3.24
P05-04	28-May-07	2.97
P05-04	02-Oct-07	3.179
P2001-02A	03-May-05	5.1
P2001-02A	08-Sep-05	4.76
P2001-02A	07-Jun-06	4.74
P2001-02A	19-Sep-06	4.87
P2001-02A	29-May-07	5.11
P2001-02A	11-Oct-07	4.94
P2001-02B	07-Jun-06	4.83
P2001-02B	19-Sep-06	4.96
P2001-02B	29-May-07	5.14
P2001-02B	11-Oct-07	4.985
P2001-03	19-Sep-06	> 30
P2001-03	29-May-07	38.36
P96-6	05-May-05	9.7
P96-6	11-Sep-05	12.61
P96-6	05-Jun-06	9.82
P96-6	18-Sep-06	12.74
P96-6	28-May-07	9.594
P96-6	02-Oct-07	12.549
P96-7	05-May-05	8.51
P96-7	10-Sep-05	4.36
P96-7	05-Jun-06	8.5
P96-7	20-Sep-06	6.21
P96-7	29-May-07	8.922
P96-7	03-Oct-07	4.5

STATION	DATE	WL-M mbtoc
P96-8A	03-May-05	2.11
P96-8A	10-Sep-05	2.63
P96-8A	22-Sep-06	2.87
P96-8A	05-Oct-07	2.81
P96-8B	03-May-05	2.19
P96-8B	10-Sep-05	2.54
P96-8B	22-Sep-06	2.97
P96-8B	05-Oct-07	2.899
P96-9A	03-May-05	5.28
P96-9A	08-Sep-05	5.69
P96-9A	07-Jun-06	5.35
P96-9A	19-Sep-06	5.74
P96-9A	29-May-07	5.411
P96-9A	12-Oct-07	5.87
S1A	05-May-05	2.33
S1A	12-Sep-05	4.16
S1A	05-Jun-06	3.91
S1A	20-Sep-06	4.3
S1A	28-May-07	3.938
S1A	03-Oct-07	3.544
S1B	05-May-05	4.18
S1B	12-Sep-05	2.92
S1B	05-Jun-06	3.53
S1B	20-Sep-06	3.86
S1B	28-May-07	4.174
S1B	03-Oct-07	4.277
S2A	05-May-05	4.53
S2A	12-Sep-05	4.46
S2A	06-Jun-06	4.4
S2A	20-Sep-06	4.64
S2A	28-May-07	4.543
S2A	03-Oct-07	4.666
S2B	05-May-05	4.7
S2B	12-Sep-05	4.64
S2B	06-Jun-06	4.48
S2B	20-Sep-06	4.89
S2B	28-May-07	4.71
S2B	03-Oct-07	4.901
S3	05-May-05	2.62
S3	12-Sep-05	2.56
S3	05-Jun-06	2.46
S3	20-Sep-06	1.96
S3	29-May-07	2.024
S3	03-Oct-07	2
SRK04-3A	14-Jun-06	6.85
SRK04-3A	22-Sep-06	6.35
SRK04-3A	31-May-07	7.095
SRK04-3A	10-Oct-07	6.355
SRK04-3B	14-Jun-06	6.9
SRK04-3B	22-Sep-06	6.42
SRK04-3B	31-May-07	7.118
SRK04-3B	10-Oct-07	6.31
SRK05-06	08-Jun-06	1.54
SRK05-06	19-Sep-06	2.35
SRK05-06	30-May-07	1.27
SRK05-06	12-Oct-07	1.912



### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
SRK05-07	07-Jun-06	5.99
SRK05-07	19-Sep-06	6.19
SRK05-07	30-May-07	6.158
SRK05-07	12-Oct-07	6.216
SRK05-08	07-Jun-06	5.41
SRK05-08	19-Sep-06	5.92
SRK05-08	30-May-07	5.669
SRK05-08	12-Oct-07	5.945
SRK05-09	08-Jun-06	2.1
SRK05-09	19-Sep-06	3.38
SRK05-09	30-May-07	1.179
SRK05-09	12-Oct-07	2.225
SRK05-ETA-BR1	14-Jun-06	7.74
SRK05-ETA-BR1	22-Sep-06	6.62
SRK05-ETA-BR1	31-May-07	7.956
SRK05-ETA-BR1	10-Oct-07	7.188
SRK05-ETA-BR2	14-Jun-06	5.74
SRK05-ETA-BR2	22-Sep-06	4
SRK05-ETA-BR2	01-Jun-07	5.936
SRK05-ETA-BR2	10-Oct-07	5.182
SRK05-SP-1A	06-Jun-06	6.8
SRK05-SP-1A	20-Sep-06	7.12
SRK05-SP-1A	29-May-07	6.685
SRK05-SP-1A	03-Oct-07	7.348
SRK05-SP-1B	06-Jun-06	6.98
SRK05-SP-1B	20-Sep-06	7.29
SRK05-SP-1B	29-May-07	6.915
SRK05-SP-1B	03-Oct-07	7.465
SRK05-SP-2	06-Jun-06	1.75
SRK05-SP-2	20-Sep-06	2.03
SRK05-SP-2	29-May-07	1.71
SRK05-SP-2	03-Oct-07	2.19
SRK05-SP-3A	06-Jun-06	4.47
SRK05-SP-3A	20-Sep-06	4.82
SRK05-SP-3A	28-May-07	4.45
SRK05-SP-3A	03-Oct-07	4.822
SRK05-SP-3B	06-Jun-06	3.67
SRK05-SP-3B	20-Sep-06	4
SRK05-SP-3B	28-May-07	3.52
SRK05-SP-3B	03-Oct-07	4.055
SRK05-SP-4A	06-Jun-06	3.84
SRK05-SP-4A	20-Sep-06	4.2
SRK05-SP-4A	28-May-07	3.89
SRK05-SP-4A	03-Oct-07	4.17
SRK05-SP-4B	06-Jun-06	1.35
SRK05-SP-4B	20-Sep-06	1.73
SRK05-SP-4B	28-May-07	1.78
SRK05-SP-4B	03-Oct-07	1.905
SRK05-SP-5	05-Jun-06	5.79
SRK05-SP-5	20-Sep-06	6.17
SRK05-SP-5	28-May-07	6.09
SRK05-SP-5	03-Oct-07	6.155

STATION	DATE	WL-M mbtoc
TH86-17	22-Jul-05	7.18
TH86-17	10-Sep-05	8.25
TH86-17	06-Jun-06	7
TH86-17	20-Sep-06	8.24
TH86-17	01-Jun-07	8.17
TH86-17	02-Oct-07	8.211
V34	03-May-05	6.87
V34	08-Sep-05	6.38
V34	07-Jun-06	6.46
V34	19-Sep-06	6.31
V34	29-May-07	6.52
V34	11-Oct-07	6.21
V35	03-May-05	8.78
V35	08-Sep-05	7.74
V35	07-Jun-06	8.88
V35	18-Sep-06	8.42
V35	29-May-07	9.16
V35	11-Oct-07	6.2
V36	03-May-05	9.82
V36	08-Sep-05	9.4
V36	07-Jun-06	8.81
V36	19-Sep-06	9.31
V36	29-May-07	9.989
V36	11-Oct-07	9.06
V37	03-May-05	9
V37	08-Sep-05	8.77
V37	07-Jun-06	9.05
V37	19-Sep-06	8.72
V37	03-Jun-07	9.275
V37	11-Oct-07	8.82
X16A	04-May-05	3.61
X16A	09-Sep-05	3.65
X16A	08-Jun-06	3.5
X16A	21-Sep-06	3.66
X16A	31-May-07	3.422
X16A	04-Oct-07	3.68
X16B	04-May-05	4.3
X16B	09-Sep-05	3.94
X16B	08-Jun-06	3.86
X16B	21-Sep-06	3.72
X16B	31-May-07	3.543
X16B	04-Oct-07	3.72
X17A	21-Jul-05	2.05
X17A	10-Sep-05	2.18
X17A	08-Jun-06	2.21
X17A	22-Sep-06	2.24
X17A	30-May-07	2.28
X17A	10-Oct-07	2.214
X17B	04-May-05	2.8
X17B	10-Sep-05	2.73
X17B	08-Jun-06	2.75
X17B	22-Sep-06	2.79
X17B	30-May-07	2.823
X17B	10-Oct-07	2.775

### Appendix B1.1: 2005 to 2007 Water Level Data

STATION	DATE	WL-M mbtoc
X18A	21-Jul-05	4.13
X18A	10-Sep-05	4.44
X18A	08-Jun-06	4.53
X18A	22-Sep-06	4.64
X18A	30-May-07	4.501
X18A	05-Oct-07	4.657
X18B	04-May-05	3.91
X18B	10-Sep-05	4.13
X18B	08-Jun-06	4.29
X18B	22-Sep-06	4.41
X18B	05-Oct-07	4.421
X21A-96	13-Jun-06	5.02
X21A-96	23-Sep-06	4.9
X21A-96	01-Jun-07	5.293
X21A-96	10-Oct-07	4.604
X21B-96	10-May-05	5.02
X21B-96	11-Sep-05	4.72
X21B-96	13-Jun-06	5.04
X21B-96	23-Sep-06	4.96
X21B-96	01-Jun-07	5.265
X21B-96	10-Oct-07	4.742
X21C-96	10-May-05	5.75
X21C-96	11-Sep-05	4.76
X21C-96	13-Jun-06	5.09
X21C-96	23-Sep-06	5.01
X21C-96	01-Jun-07	5.3
X21C-96	10-Oct-07	4.786
X24A-96	21-Jul-05	4.93
X24A-96	09-Sep-05	5.26
X24A-96	31-Oct-05	5.9
X24A-96	09-Jun-06	5.21
X24A-96	02-Aug-06	5.26
X24A-96	21-Sep-06	5.48
X24A-96	01-Nov-06	4.71
X24A-96	01-Aug-07	4.16
X24A-96	04-Oct-07	4.714
X24A-96	06-Nov-07	4.55
X24C-96	04-May-05	4.95
X24C-96	21-Jul-05	4.86
X24C-96	09-Sep-05	3.18
X24C-96	31-Oct-05	5.77
X24C-96	02-Aug-06	5.19
X24C-96	21-Sep-06	5.41
X24C-96	01-Nov-06	4.66

STATION	DATE	WL-M mbtoc
X24D-96	04-May-05	4.83
X24D-96	21-Jul-05	4.73
X24D-96	09-Sep-05	5.05
X24D-96	31-Oct-05	5.38
X24D-96	09-Jun-06	5.01
X24D-96	02-Aug-06	5.04
X24D-96	21-Sep-06	5.27
X24D-96	01-Nov-06	4.52
X24D-96	01-Aug-07	3.93
X24D-96	04-Oct-07	4.505
X24D-96	06-Nov-07	4.33
X25A-96	21-Jul-05	4.19
X25A-96	09-Sep-05	4.53
X25A-96	31-Oct-05	4.85
X25A-96	09-Jun-06	4.47
X25A-96	02-Aug-06	4.52
X25A-96	21-Sep-06	4.76
X25A-96	01-Nov-06	3.84
X25A-96	31-May-07	3.47
X25A-96	01-Aug-07	3.28
X25A-96	04-Oct-07	3.845
X25A-96	06-Nov-07	3.67
X25B-96	21-Jul-05	4.02
X25B-96	09-Sep-05	4.35
X25B-96	31-Oct-05	4.65
X25B-96	09-Jun-06	4.29
X25B-96	02-Aug-06	4.33
X25B-96	21-Sep-06	4.54
X25B-96	01-Nov-06	3.74
X25B-96	31-May-07	2.957
X25B-96	01-Aug-07	3.18
X25B-96	04-Oct-07	3.744
X25B-96	06-Nov-07	3.565

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
<b>Downgradient of Cross Valley Dam Non-Impacted</b>															
X16A	04-May-05	< 0.00005	< 0.01	155	< 0.001	0.091	< 0.1	< 0.005	50.8	< 0.00005	< 0.0005	337	315	< 0.0005	< 0.001
X16A	09-Sep-05	< 0.00005	< 0.01	172	< 0.001	0.097	< 0.1	< 0.005	52	0.000072	< 0.0005	330	338	< 0.0005	< 0.001
X16A	08-Jun-06	< 0.00002	< 0.005	151	< 0.0005	0.09	< 0.1	< 0.001	52.8	0.000102	< 0.0003	323.4	322	< 0.001	< 0.001
X16A	21-Sep-06	< 0.00005	< 0.01	165	< 0.001	0.104	< 0.1	< 0.005	49.9	0.000065	< 0.0005	398	326	< 0.0005	< 0.001
X16A	31-May-07	< 0.00002	< 0.005	136	< 0.0005	0.08	< 0.1	< 0.001	51.5	0.000076	< 0.0003	303	276	< 0.001	< 0.001
X16A	04-Oct-07	< 0.00002	0.0072	166	< 0.0005	0.084	< 0.1	< 0.001	53.5	0.000058	< 0.0003	316	335	< 0.001	< 0.001
X16B	04-May-05	< 0.00005	< 0.01	210	< 0.001	0.144	< 0.1	< 0.005	64.7	< 0.00005	< 0.0005	410	391	< 0.0005	< 0.001
X16B	09-Sep-05	< 0.00005	< 0.01	206	< 0.001	0.142	< 0.1	< 0.005	68.5	< 0.00005	< 0.0005	399	411	< 0.0005	< 0.001
X16B	08-Jun-06	< 0.00002	< 0.005	208	< 0.0005	0.152	< 0.1	< 0.001	64.9	0.000019	< 0.0003	405.6	402	< 0.001	< 0.001
X16B	21-Sep-06	< 0.00005	< 0.01	204	< 0.001	0.157	< 0.1	< 0.005	65.7	< 0.00005	< 0.0005	342	397	< 0.0005	< 0.001
X16B	31-May-07	< 0.00002	< 0.005	198	< 0.0005	0.136	< 0.1	< 0.001	69.5	< 0.000017	< 0.0003	399	360	< 0.001	< 0.001
X16B	04-Oct-07	< 0.00002	0.0185	206	< 0.0005	0.125	< 0.1	< 0.001	62	< 0.000017	< 0.0003	363	401	< 0.001	< 0.001
X17A	21-Jul-05	< 0.00005	< 0.01	225	< 0.001	0.152	< 0.1	< 0.005	67.9	< 0.00005	< 0.0005	427.5	462	< 0.0005	< 0.001
X17A	10-Sep-05	< 0.00005	< 0.01	230	< 0.001	0.17	< 0.1	< 0.005	83.5	< 0.00005	< 0.0005	437	448	< 0.0005	< 0.001
X17A	08-Jun-06	< 0.00002	< 0.005	289	< 0.0005	0.206	< 0.1	< 0.001	89.7	< 0.000017	< 0.0003	563	557	< 0.001	< 0.001
X17A	22-Sep-06	< 0.00002	< 0.005	233	< 0.0005	0.154	< 0.1	< 0.001	65.4	0.000022	< 0.0003	443	446	< 0.001	< 0.001
X17A	30-May-07	< 0.00004	< 0.01	276	< 0.001	0.207	< 0.1	< 0.002	103	0.000039	< 0.0006	574	572	< 0.002	< 0.002
X17A	10-Oct-07	< 0.00002	0.0137	225	< 0.0005	0.159	< 0.1	< 0.001	74.8	0.00004	< 0.0003	426	459	< 0.001	< 0.001
	Total # samples	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	MEAN	0.00002	0.0055	203.1	0.0004	0.136	0.050	0.001	66.12	0.00004	0.00020	399.8	401.0	0.000	0.001
	Median	1.5E-05	0.005	206	0.000375	0.14	0.05	0.00075	65.2	2.5E-05	0.0002	399	399	0.0005	0.0005
	STD	0.00001	0.0042	41.1	0.0001	0.0388	0.000	0.0010	14.5	0.000027	0.00006	75.8	80.4	0.00019	0.0001
	MINIMUM	< 0.00002	< 0.005	136	< 0.0005	0.08	< 0.1	< 0.001	49.9	< 0.000017	< 0.0003	303	276	< 0.0005	< 0.001
	MAXIMUM	< 0.00005	0.0185	289	< 0.001	0.207	< 0.1	< 0.005	103	0.000102	< 0.0006	574	572	< 0.002	< 0.002
	5th Percentile	1E-05	0.0025	148.8	0.00025	0.0834	0.05	0.0005	50.67	8.5E-06	0.00015	314.1	309.2	0.00025	0.0005
	25th Percentile	1E-05	0.0025	167.5	0.00025	0.10	0.05	0.0005	53.0	2.275E-05	0.00015	338.25	335.75	0.00025	0.0005
	75th Percentile	2.5E-05	0.005	225	0.0005	0.156	0.050	0.0025	69.25	5.35E-05	0.00025	427.125	447.5	0.0005	0.0005
	95th Percentile	0.00002	0.0144	277.9	0.001	0.206	0.050	0.0025	91.69	0.00008	0.00026	565	559	0.001	0.001
<b>Downgradient of Cross Valley Dam Slightly Impacted</b>															
P01-01A	20-Jul-05	< 0.0001	< 0.02	233	< 0.002	0.094	< 0.1	< 0.005	199	< 0.0001	0.0011	1243	1310	< 0.001	< 0.002
P01-01A	10-Sep-05	< 0.0001	< 0.02	254	< 0.002	0.069	< 0.1	< 0.005	203	0.00034	< 0.001	1360	1410	< 0.001	< 0.002
P01-01A	08-Jun-06	< 0.0001	< 0.025	250	< 0.0025	0.09	< 0.1	< 0.005	224	0.000403	< 0.0015	1352	1360	< 0.005	< 0.005
P01-01A	22-Sep-06	< 0.0001	< 0.025	256	< 0.0025	0.102	< 0.1	< 0.005	254	0.000551	< 0.0015	1180	1510	< 0.005	< 0.005
P01-01A	03-Oct-07	< 0.0001	< 0.025	267	< 0.0025	0.063	< 0.1	< 0.005	289	0.000598	< 0.0015	1443	1560	< 0.005	< 0.005
P01-01B	04-May-05	< 0.0001	< 0.02	249	0.0038	0.081	< 0.1	< 0.005	196	< 0.0001	< 0.001	1152	1080	< 0.001	< 0.002
P01-01B	10-Sep-05	< 0.0001	< 0.02	255	0.0033	0.064	< 0.1	< 0.005	162	< 0.0001	< 0.001	1039	1100	< 0.001	< 0.002
P01-01B	08-Jun-06	< 0.0001	< 0.025	242	0.0035	0.074	< 0.1	< 0.005	180	< 0.000085	< 0.0015	1070	1070	< 0.005	< 0.005
P01-01B	22-Sep-06	< 0.00004	0.028	246	0.0037	0.08	< 0.1	< 0.002	177	< 0.000034	< 0.0006	1565	1110	< 0.002	< 0.002
P01-01B	30-May-07	< 0.00004	< 0.01	264	0.0031	0.061	< 0.1	< 0.002	203	< 0.000034	< 0.0006	1106	1060	< 0.002	< 0.002
P01-01B	03-Oct-07	< 0.0001	< 0.025	259	0.0029	0.07	< 0.1	< 0.005	203	< 0.000085	< 0.0015	1053	1140	< 0.005	< 0.005
X17B	04-May-05	< 0.0001	< 0.02	428	< 0.002	0.241	< 0.1	< 0.005	161	< 0.0001	< 0.001	684	1100	< 0.001	< 0.002
X17B	10-Sep-05	< 0.00005	< 0.01	271	< 0.001	0.243	< 0.1	< 0.005	101	< 0.00005	< 0.0005	501	530	< 0.0005	< 0.001
X17B	08-Jun-06	< 0.00004	< 0.01	454	< 0.001	0.255	< 0.1	< 0.002	128	< 0.000034	< 0.0006	918	894	< 0.002	< 0.002
X17B	22-Sep-06	< 0.00002	< 0.005	274	< 0.0005	0.214	< 0.1	< 0.001	75.8	< 0.000017	< 0.0003	557	537	< 0.001	< 0.001
X17B	30-May-07	< 0.00004	0.143	390	< 0.001	0.177	< 0.1	< 0.002	146	< 0.000034	< 0.0006	852	957	< 0.002	< 0.002
X17B	10-Oct-07	< 0.00002	0.0073	259	< 0.0005	0.208	< 0.1	< 0.001	86.7	< 0.000017	< 0.0003	489	548	< 0.001	< 0.001

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
<b>Downgradient of Cross Valley Dam Non-Impacted</b>															
X16A	04-May-05	< 0.03	181	< 0.0002		< 0.05	13.2	< 0.01	0.0025	< 2	< 0.005	< 0.001	7.47	8.19	< 0.0005
X16A	09-Sep-05	< 0.03	183	< 0.0002		< 0.05	12.8	< 0.01	0.0026	< 2	< 0.005	< 0.001		7.18	< 0.0005
X16A	08-Jun-06	< 0.03		< 0.00002	< 2	< 0.005	12.6	0.00174	0.0023	2.2	< 0.001	< 0.0005	7.58	8.09	< 0.0005
X16A	21-Sep-06	< 0.03		< 0.00002		< 0.05	13.1	< 0.01	0.0023	< 2	< 0.005	< 0.001	6.98	8.08	< 0.0005
X16A	31-May-07	< 0.03		< 0.00002	< 2	< 0.005	11.3	0.00055	0.0022	2.2	< 0.001	< 0.0005	7.6	8.22	< 0.0005
X16A	04-Oct-07	< 0.03		< 0.00002	< 2	< 0.005	11.6	0.00153	0.0022	2	< 0.001	< 0.0005	8.11	8.04	< 0.0005
X16B	04-May-05	< 0.03	236	< 0.0002		< 0.05	18.1	< 0.01	0.0018	< 2	< 0.005	< 0.001	7.35	8.29	< 0.0005
X16B	09-Sep-05	< 0.03	245	< 0.0002		< 0.05	17.9	< 0.01	0.0019	< 2	< 0.005	< 0.001	7.88	8.03	< 0.0005
X16B	08-Jun-06	< 0.03		< 0.00002	< 2	< 0.005	18	< 0.0003	0.0018	< 2	< 0.001	< 0.0005	7.8	8.2	< 0.0005
X16B	21-Sep-06	< 0.03		< 0.00002		< 0.05	18.2	< 0.01	0.0017	< 2	< 0.005	< 0.001	7.5	8.12	< 0.0005
X16B	31-May-07	< 0.03		< 0.00002	< 2	< 0.005	16.8	< 0.0003	0.0016	2.1	< 0.001	< 0.0005	7.68	8.31	< 0.0005
X16B	04-Oct-07	< 0.03		< 0.00002	< 2	< 0.005	15.5	< 0.0004	0.0017	< 2	< 0.001	< 0.0005	8.23	8.13	< 0.0005
X17A	21-Jul-05	< 0.03	252	< 0.0002		< 0.05	19.9	< 0.01	< 0.001	2.6	< 0.005	< 0.001	7.82	8.1	< 0.0005
X17A	10-Sep-05	0.047	298	< 0.0002		< 0.05	21.7	< 0.01	< 0.001	3	< 0.005	< 0.001	7.72	8.12	< 0.0005
X17A	08-Jun-06	< 0.03		< 0.00002	< 2	< 0.005	25.4	0.00839	< 0.001	2.8	< 0.001	< 0.0005	7.46	8.15	< 0.0005
X17A	22-Sep-06	0.175		< 0.00002	< 2	< 0.005	17.9	0.0104	< 0.001	2.4	< 0.001	< 0.0005	8.43	8.2	< 0.0005
X17A	30-May-07	< 0.03		< 0.00002	< 2	< 0.01	25	0.0202	< 0.002	3.3	< 0.002	< 0.001	7.58	8.32	< 0.001
X17A	10-Oct-07	< 0.03		< 0.00002	< 2	< 0.005	18.7	0.0095	< 0.001	2.8	< 0.001	< 0.0005	7.24	8.05	< 0.0005
	Total # samples	18	6	18	10	18	18	18	18	18	18	18	17	18	18
	MEAN	0.026	232.5	0.000050	1.00	0.013	17.09	0.005	0.0016	1.86	0.0014	0.0004	7.67	8.10	0.0003
	Median	0.015	240.5	1E-05	1.00	0.00375	17.90	0.00	0.00175	2.05	0.001	0.000375	7.6	8.1	0.00025
	STD	0.038	44.6	4.60179E-05	0.00	0.0114	4.23	0.005	0.0008	0.85	0.0010	0.0001	0.36	0.25	0.0001
	MINIMUM	< 0.03	181	< 0.00002	< 2	< 0.005	11.3	< 0.0003	< 0.001	< 2	< 0.001	< 0.0005	6.98	7.18	< 0.0005
	MAXIMUM	0.175	298	< 0.0002	< 2	< 0.05	25.4	0.0202	0.0026	3.3	< 0.005	< 0.001	8.43	8.32	< 0.001
	5th Percentile	0.0150	181.5	1E-05	1.00	0.0025	11.56	0.000	0.0005	1.00	0.0005	0.00025	7.19	7.90	0.00025
	25th Percentile	0.015	196.25	1E-05	1.00	0.0025	13.13	0.002	0.000625	1.00	0.0005	0.00025	7.47	8.08	0.00025
	75th Percentile	0.0150	250.25	1E-04	1.00	0.025	18.58	0.00	0.0022	2.55	0.0025	0.0005	7.82	8.20	0.00025
	95th Percentile	0.07	287	1E-04	1.00	0.025	25.1	0.01	0.003	3.04	0.0025	0.0005	8.27	8.31	0.0003
<b>Downgradient of Cross Valley Dam Slightly Impacted</b>															
P01-01A	20-Jul-05	< 0.03	689	< 0.0002		< 0.05	46.5	2.6	< 0.002	32	< 0.01	< 0.002	7.52	7.71	< 0.001
P01-01A	10-Sep-05	0.04	633	< 0.0002		< 0.05	30.6	2.57	< 0.002	15.9	< 0.01	< 0.002	7.12	7.63	< 0.001
P01-01A	08-Jun-06	< 0.03		< 0.00002	4.8	< 0.025	48.2	3.36	< 0.005	21.7	0.0051	< 0.0025	7.31	7.96	< 0.0025
P01-01A	22-Sep-06	< 0.03		< 0.00002	5.6	< 0.025	52.2	4.72	< 0.005	24.7	0.0059	< 0.0025	7.86	7.84	< 0.0025
P01-01A	03-Oct-07	< 0.03		< 0.00002	6.4	< 0.025	56.9	4.17	< 0.005	25.3	0.0059	< 0.0025	7.68	7.49	< 0.0025
P01-01B	04-May-05	0.756	651	< 0.0002		< 0.05	39.2	0.118	< 0.002	26.8	< 0.01	< 0.002	7.17	8.1	< 0.001
P01-01B	10-Sep-05	0.572	515	< 0.0002		< 0.05	26.8	0.089	< 0.002	19	< 0.01	< 0.002	6.85	7.15	< 0.001
P01-01B	08-Jun-06	0.721		< 0.00002	3.4	< 0.025	36.8	0.103	< 0.005	24.3	< 0.005	< 0.0025	7.35	8.02	< 0.0025
P01-01B	22-Sep-06	0.774		< 0.00002	3.4	0.011	35.4	0.119	< 0.002	24.4	< 0.002	< 0.001	7.93	8.02	< 0.001
P01-01B	30-May-07	0.76		< 0.00002	3.6	0.011	39.4	0.113	< 0.002	26.1	< 0.002	< 0.001	7.36	8.05	< 0.001
P01-01B	03-Oct-07	0.595		< 0.00002	4.2	< 0.025	37.1	0.112	< 0.005	24.6	< 0.005	< 0.0025	7.86	7.64	< 0.0025
X17B	04-May-05	3.48	577	< 0.0002		< 0.05	42.6	0.567	< 0.002	37.4	< 0.01	< 0.002	6.91	7.93	< 0.001
X17B	10-Sep-05	0.956	359	< 0.0002		< 0.05	25.9	0.271	< 0.001	7.4	< 0.005	< 0.001	7.37	8.01	< 0.0005
X17B	08-Jun-06	2.67		< 0.00002	2.6	0.032	37.3	0.413	< 0.002	34.6	< 0.002	< 0.001	6.98	7.96	< 0.001
X17B	22-Sep-06	0.823		< 0.00002	< 2	0.016	21.4	0.233	0.001	6.4	< 0.001	0.00209	8.33	8.15	< 0.0005
X17B	30-May-07	< 0.03		< 0.00002	3.4	0.028	41.4	0.302	< 0.002	31.9	< 0.002	< 0.001	7.21	8.25	< 0.001
X17B	10-Oct-07	0.794		< 0.00002	2.4	0.0155	22.8	0.226	< 0.001	6.9	< 0.001	< 0.0005	7.73	7.98	< 0.0005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
<b>Downgradient of Cross Valley Dam Non-Impacted</b>											
X16A	04-May-05	< 0.001		24.8		4	< 0.05	< 0.0002	0.00179	< 0.03	0.0077
X16A	09-Sep-05	< 0.001		24.1			< 0.05	< 0.0002	0.00185	< 0.03	0.0108
X16A	08-Jun-06	0.0011	< 0.0005	25.3		3.2	< 0.01	< 0.0002	0.00173	< 0.03	0.012
X16A	21-Sep-06	0.001		26.2		3.6	< 0.05	< 0.0002	0.00168	< 0.03	0.0143
X16A	31-May-07	< 0.001	< 0.0005	26.8		2.3	< 0.01	< 0.0002	0.00141	< 0.03	0.0312
X16A	04-Oct-07	0.001	< 0.0005	23.8		3.2	< 0.01	< 0.0002	0.00158	< 0.001	0.0104
X16B	04-May-05	0.002		27.5		4.8	< 0.05	< 0.0002	0.00211	< 0.03	0.0051
X16B	09-Sep-05	0.0021		26.3		4.63	< 0.05	< 0.0002	0.00218	< 0.03	< 0.005
X16B	08-Jun-06	0.0021	< 0.0005	22.1		4.4	< 0.01	< 0.0002	0.00222	< 0.03	< 0.005
X16B	21-Sep-06	0.0018		28.7		6	< 0.05	< 0.0002	0.00211	< 0.03	< 0.005
X16B	31-May-07	0.0018	< 0.0005	27.8		3	< 0.01	< 0.0002	0.00196	< 0.03	0.006
X16B	04-Oct-07	0.0017	< 0.0005	25		2.9	< 0.01	< 0.0002	0.00194	< 0.001	0.0065
X17A	21-Jul-05	< 0.001		35.7		4.3	< 0.05	< 0.0002	0.00252	< 0.03	0.0062
X17A	10-Sep-05	< 0.001		20.1		3.65	< 0.05	< 0.0002	0.00241	< 0.03	0.0091
X17A	08-Jun-06	< 0.001	< 0.0005	43		2.8	< 0.01	< 0.0002	0.00169	< 0.03	0.0201
X17A	22-Sep-06	0.0011	< 0.0005	30		4.1	< 0.01	< 0.0002	0.0025	< 0.03	0.0076
X17A	30-May-07	< 0.002	< 0.001	63.3		2.2	< 0.01	< 0.0004	0.00288	< 0.03	0.0092
X17A	10-Oct-07	< 0.001	< 0.0005	34.6		2.7	< 0.01	< 0.0002	0.00225	< 0.001	0.0069
	Total # samples	18	10	18		17	18	18	18	18	18
	MEAN	0.0011	0.0003	29.73		3.63	0.014	0.0001	0.0020	0.013	0.009
	Median	0.001	0.00025	26.5		3.6	0.005	1E-04	0.002035	0.015	0.008
	STD	0.0006	0.0001	9.97		1.00	0.010	0.0000	0.00038	0.0056	0.0070
	MINIMUM	< 0.001	< 0.0005	20.1		2.2	< 0.01	< 0.0002	0.00141	< 0.001	< 0.005
	MAXIMUM	0.0021	< 0.001	63.3		6	< 0.05	< 0.0004	0.00288	< 0.03	0.0312
	5th Percentile	0.0005	0.00025	21.80		2.28	0.005	1E-04	0.0015545	0.0005	0.0025
	25th Percentile	0.0005	0.00025	24.8		2.90	0.005	1E-04	0.001745	0.015	0.00605
	75th Percentile	0.001775	0.00025	29.68		4.30	0.025	1E-04	0.0022425	0.015	0.011
	95th Percentile	0.0021	0.0004	46.0		5.04	0.025	0.0001	0.0026	0.015	0.0218
<b>Downgradient of Cross Valley Dam Slightly Impacted</b>											
P01-01A	20-Jul-05	< 0.002		538		6.5	< 0.05	< 0.0004	0.00664	< 0.03	0.0979
P01-01A	10-Sep-05	< 0.002		559		3.24	< 0.05	< 0.0004	0.00688	< 0.03	0.0097
P01-01A	08-Jun-06	< 0.005	< 0.0025	505		5.9	< 0.01	< 0.001	0.0076	< 0.03	0.062
P01-01A	22-Sep-06	< 0.005	< 0.0025	617		3.4	< 0.01	< 0.001	0.0086	< 0.03	0.0122
P01-01A	03-Oct-07	< 0.005	< 0.0025	673		1.5	< 0.01	< 0.001	0.0077	< 0.005	0.009
P01-01B	04-May-05	< 0.002		399		3.9	< 0.05	< 0.0004	0.00588	< 0.03	0.0065
P01-01B	10-Sep-05	< 0.002		377		6.07	< 0.05	< 0.0004	0.00606	< 0.03	0.0113
P01-01B	08-Jun-06	< 0.005	< 0.0025	289		5	< 0.01	< 0.001	0.0061	< 0.03	0.061
P01-01B	22-Sep-06	< 0.002	< 0.001	367		3.2	< 0.01	< 0.0004	0.00635	< 0.03	0.0068
P01-01B	30-May-07	< 0.002	< 0.001	417		2.6	< 0.01	< 0.0004	0.00701	< 0.03	0.0055
P01-01B	03-Oct-07	< 0.005	< 0.0025	364		1.6	< 0.01	< 0.001	0.0063	< 0.005	0.006
X17B	04-May-05	< 0.002		215			< 0.05	< 0.0004	0.00176	< 0.03	0.0102
X17B	10-Sep-05	< 0.001		39.5		3.77	< 0.05	< 0.0002	0.00179	< 0.03	0.0058
X17B	08-Jun-06	< 0.002	< 0.001	111		4.2	< 0.01	< 0.0004	0.00164	< 0.03	0.0407
X17B	22-Sep-06	< 0.001	< 0.0005	41.6		4	< 0.01	< 0.0002	0.00203	< 0.03	0.0058
X17B	30-May-07	< 0.002	< 0.001	176		3	< 0.01	< 0.0004	0.00187	< 0.03	< 0.005
X17B	10-Oct-07	< 0.001	< 0.0005	48.6		3.1	< 0.01	< 0.0002	0.00238	< 0.001	0.0086

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
X18A	21-Jul-05	< 0.0001	< 0.02	244	0.0102	0.188	< 0.1	< 0.005	204	< 0.0001	< 0.001	1102	1320	< 0.001	< 0.002
X18A	10-Sep-05	< 0.00025	< 0.05	255	< 0.005	0.241	< 0.1	< 0.005	244	< 0.00025	< 0.0025	1131	1170	< 0.0025	< 0.005
X18A	08-Jun-06	< 0.0001	< 0.025	252	0.0087	0.203	< 0.1	< 0.005	233	< 0.000085	< 0.0015	1399	1390	< 0.005	< 0.005
X18A	22-Sep-06	< 0.0001	< 0.025	251	0.0039	0.248	< 0.1	< 0.005	215	< 0.000085	< 0.0015	1343	1380	< 0.005	< 0.005
X18A	30-May-07	< 0.0001	< 0.025	252	0.0108	0.18	< 0.1	< 0.005	274	< 0.000085	< 0.0015	1430	1460	< 0.005	< 0.005
X18A	05-Oct-07	< 0.0001	< 0.025	256	0.0059	0.196	< 0.1	< 0.005	240	< 0.000085	< 0.0015	1310	1480	< 0.005	< 0.005
X18B	04-May-05	< 0.00025	< 0.05	251	< 0.005	0.156	< 0.1	< 0.005	238	0.00039	< 0.0025	1425	1360	< 0.0025	< 0.005
X18B	10-Sep-05	< 0.00005	< 0.01	270	< 0.001	0.094	< 0.1	< 0.005	172	0.000278	< 0.0005	802	826	< 0.0005	< 0.001
X18B	08-Jun-06	< 0.0001	< 0.025	250	< 0.0025	0.153	< 0.1	< 0.005	232	0.000374	< 0.0015	1423	1400	< 0.005	< 0.005
X18B	22-Sep-06	< 0.0001	< 0.025	253	< 0.0025	0.136	< 0.1	< 0.005	205	0.000393	< 0.0015	1457	1410	< 0.005	< 0.005
X18B	30-May-07	< 0.0001	< 0.025	257	< 0.0025	0.129	< 0.1	< 0.005	282	0.000347	< 0.0015	1435	1450	< 0.005	< 0.005
X18B	05-Oct-07	< 0.0001	< 0.025	230	< 0.0025	0.114	< 0.1	< 0.005	222	0.000372	< 0.0015	1265	1420	< 0.005	< 0.005
	Total # samples	29	29	29	29	29	29	29	29	29	29	29	29	29	29
	MEAN	0.00005	0.0163	271.4	0.0027	0.146	0.050	0.002	198.26	0.00017	0.00062	1140.9	1184.2	0.002	0.002
	Median	0.00005	0.0125	255	0.00125	0.14	0.05	0.0025	203.0	0.00005	0.00075	1180	1310	0.00125	0.0025
	STD	0.00003	0.0250	54.3	0.0029	0.0671	0.000	0.0007	54.2	0.000186	0.00030	305.6	295.2	0.00095	0.0009
	MINIMUM	< 0.00002	< 0.005	230	< 0.0005	0.061	< 0.1	< 0.001	75.8	< 0.000017	< 0.0003	489	530	< 0.0005	< 0.001
	MAXIMUM	< 0.00025	0.143	454	0.0108	0.255	< 0.1	< 0.005	289	0.000598	< 0.0025	1565	1560	< 0.005	< 0.005
	5th Percentile	1.4E-05	0.005	236.6	0.00035	0.0634	0.05	0.0007	92.42	1.19E-05	0.00019	523.4	541.4	0.00035	0.0005
	25th Percentile	2.5E-05	0.01	250	0.001	0.08	0.05	0.0025	172	4.25E-05	0.0003	1039	1070	0.0005	0.001
	75th Percentile	5E-05	0.0125	264	0.0035	0.203	0.050	0.0025	233	0.000347	0.00075	1399	1410	0.0025	0.0025
	95th Percentile	0.00010	0.0268	412.8	0.010	0.246	0.050	0.0025	278.80	0.00049	0.00119	1451	1498	0.002	0.002
<b>Emergency Tailings Area (ETA) Highly Impacted</b>															
BR2	14-Jun-06	< 0.0001	< 0.025	119	< 0.0025	0.065	< 0.1	< 0.005	368	< 0.000085	0.0189	2183	2130	< 0.005	< 0.005
BR2	22-Sep-06	< 0.0001	< 0.025	112	< 0.0025	0.069	< 0.2	< 0.005	444	0.000132	0.0235	449.5	2250	< 0.005	< 0.005
BR2	01-Jun-07	0.00016	0.031	118	< 0.0025	0.042	< 0.1	< 0.005	360	0.000093	0.0075	2020	1660	< 0.005	< 0.005
BR2	10-Oct-07	< 0.0001	< 0.025	128	< 0.0025	0.055	< 0.1	< 0.005	434	< 0.000085	0.0118	2330	2240	< 0.005	< 0.005
	Total # samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	MEAN	0.0000775	0.017125	119.25	0.00125	0.05775	0.0625	0.0025	401.5	0.0000775	0.015425	1745.625	2070	0.0025	0.0025
	Median	5E-05	0.0125	118.5	0.00125	0.06	0.05	0.0025	401	6.775E-05	0.01535	2101.5	2185	0.0025	0.0025
	STD	0.000055	0.00925	6.602	0	0.01204	0.025	0	43.62	4.34377E-05	0.00715	873.3	278.69	0	0
	MINIMUM	< 0.0001	< 0.025	112	< 0.0025	0.042	< 0.1	< 0.005	360	< 0.000085	0.0075	449.5	1660	< 0.005	< 0.005
	MAXIMUM	0.00016	0.031	128	< 0.0025	0.069	< 0.2	< 0.005	444	0.000132	0.0235	2330.0	2250	< 0.005	< 0.005
	5th Percentile	5E-05	0.0125	112.8999999	0.00125	0.043949999	0.050000001	0.0025	361.1999999	4.25E-05	0.008145	685.1	1730.5	0.0025	0.0025
	25th Percentile	5E-05	0.0125	116.5	0.00125	0.05175	0.05	0.0025	366	4.25E-05	0.010725	1627.4	2012.5	0.0025	0.0025
	75th Percentile	7.75E-05	0.017125	121.25	0.00125	0.065999998	0.062500001	0.0025	436.5	0.00010275	0.02005	2219.8	2242.5	0.0025	0.0025
	95th Percentile	0.0001435	0.028225	126.65	0.00125	0.068399999	0.092499995	0.0025	442.5	0.00012615	0.022809999	2307.9	2248.499999	0.0025	0.0025
<b>Emergency Tailings Area (ETA) Adversely Impacted</b>															
P96-8B	03-May-05	< 0.0025	< 0.5	214	< 0.05	< 0.1	< 0.5	< 0.025	424	0.041	0.395	5560	5540	< 0.025	< 0.05
P96-8B	10-Sep-05	< 0.005	< 1	131	< 0.1	< 0.04	< 0.2	< 0.01	431	0.097	1.69		6620	< 0.05	< 0.1
P96-8B	22-Sep-06	< 0.002	1.18	126	< 0.05	< 0.04	< 0.2	< 0.1	430	0.13	0.573	5770	6100	< 0.1	< 0.1
P96-8B	05-Oct-07	< 0.001	< 0.25	168	< 0.025	< 0.04	< 0.2	< 0.05	390	0.0608	0.315	74000	5260	< 0.05	< 0.05
SRK04-3A	14-Jun-06	< 0.002	0.73	48.2	< 0.05	< 0.04	< 0.2	< 0.1	399	0.0144	0.437	6600	6530	< 0.1	< 0.1
SRK04-3A	22-Sep-06	< 0.002	3.83	117	< 0.05	0.071	< 0.3	< 0.1	456	0.032	0.69	706	7360	< 0.1	< 0.1
SRK04-3A	31-May-07	< 0.001	0.48	111	< 0.025	< 0.04	< 0.2	< 0.05	422	0.0233	0.431	6260	4400	< 0.05	< 0.05
SRK04-3A	10-Oct-07	< 0.002	1.29	135	< 0.05	< 0.04	< 0.2	< 0.1	428	0.0581	0.671	7290	7100	< 0.1	< 0.1
SRK04-3B	14-Jun-06	< 0.004	6.3	< 2	< 0.1	< 0.2	< 1	< 0.2	420	< 0.0034	0.268	4940	15100	< 0.2	< 0.2

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
X18A	21-Jul-05	1.89	728	< 0.0002		< 0.05	53.2	0.812	< 0.002	26.5	< 0.01	< 0.002	7.35	7.93	< 0.001
X18A	10-Sep-05	2.42	821	< 0.0002		< 0.05	51.2	0.83	< 0.005	21.2	< 0.025	< 0.005	7.72	7.8	< 0.0025
X18A	08-Jun-06	2.58		< 0.0002	4.8	< 0.025	57.1	1.45	< 0.005	22.9	< 0.005	< 0.0025	7.25	7.99	< 0.0025
X18A	22-Sep-06	2.77		< 0.00002	5.1	< 0.025	48.1	1.14	< 0.005	20.2	< 0.005	< 0.0025	8.55	7.99	< 0.0025
X18A	30-May-07	2.47		< 0.00002	6	< 0.025	64.9	2.15	< 0.005	25.3	< 0.005	< 0.0025	7.17	8.1	< 0.0025
X18A	05-Oct-07	2.24		< 0.00002	6	< 0.025	57.7	1.24	< 0.005	22.6	< 0.005	< 0.0025	7.61	7.78	< 0.0025
X18B	04-May-05	0.115	831	< 0.0002		< 0.05	57.4	3.02	< 0.005	24.2	< 0.025	< 0.005	7.2	8.05	< 0.0025
X18B	10-Sep-05	< 0.03	580	< 0.0002		< 0.05	36.3	1.91	0.0015	13.1	0.0071	< 0.001	7.55	7.92	< 0.0005
X18B	08-Jun-06	0.085		< 0.00002	5.3	< 0.025	58.5	2.41	< 0.005	21.4	0.0148	< 0.0025	7.05	8	< 0.0025
X18B	22-Sep-06	0.114		< 0.00002	4.7	< 0.025	48.1	2.43	< 0.005	20.2	0.0138	< 0.0025	8.2	8.02	< 0.0025
X18B	30-May-07	0.131		< 0.00002	6.7	< 0.025	65.6	2.09	< 0.005	22	0.0144	< 0.0025	7.05	8.11	< 0.0025
X18B	05-Oct-07	0.112		< 0.00002	6.6	< 0.025	57	1.99	< 0.005	21.3	0.0137	< 0.0025	7	7.62	< 0.0025
	Total # samples	29	10	29	19	29	29	29	29	29	29	29	29	29	29
	MEAN	0.964	638.40	0.000041	4.53	0.018	44.68	1.433	0.0018	22.42	0.0055	0.0011	7.46	7.90	0.0009
	Median	0.721	642	0.00001	4.80	0.0125	46.50	1.14	0.0025	22.90	0.005	0.00125	7.4	8.0	0.00125
	STD	1.076	142.1	4.35353E-05	1.57	0.0068	12.43	1.327	0.0008	7.37	0.0046	0.0005	0.43	0.23	0.0004
	MINIMUM	< 0.03	359	< 0.00002	< 2	0.011	21.4	0.089	< 0.001	6.4	< 0.001	< 0.0005	6.85	7.15	< 0.0005
	MAXIMUM	3.48	831	< 0.0002	6.7	< 0.05	65.6	4.72	< 0.005	37.4	< 0.025	< 0.005	8.55	8.25	< 0.0025
	5th Percentile	0.0150	429.2	1E-05	2.26	0.0116	24.04	0.107	0.0007	7.10	0.0007	0.0005	6.94	7.54	0.00025
	25th Percentile	0.1	577.75	1E-05	3.40	0.0125	36.80	0.233	0.001	20.20	0.0025	0.001	7.17	7.80	0.0005
	75th Percentile	1.8900	718.25	1E-04	5.80	0.025	56.90	2.41	0.0025	25.30	0.0059	0.00125	7.72	8.02	0.00125
	95th Percentile	2.73	827	1E-04	6.61	0.027	62.3	3.85	0.002	33.56	0.0142	0.0023	8.28	8.13	0.0012
<b>Emergency Tailings Area (ETA) Highly Impacted</b>															
BR2	14-Jun-06	43		< 0.00002	3	< 0.025	83.1	3.69	< 0.005	26.2	0.0283	< 0.0025	6.82	7	< 0.0025
BR2	22-Sep-06	44.9		< 0.00002	< 4	< 0.025	85.1	5.14	< 0.005	25.6	0.0342	< 0.0025	7.43	6.71	< 0.0025
BR2	01-Jun-07	12.9		< 0.00002	2.7	< 0.025	61.3	1.85	< 0.005	24.6	0.0128	0.0037	6.96	7.5	< 0.0025
BR2	10-Oct-07	19.7		< 0.00002	3.6	< 0.025	78.4	2.39	< 0.005	27.2	0.0147	< 0.0025	6.98	7.36	< 0.0025
	Total # samples	4		4	4	4	4	4	4	4	4	4	4	4	4
	MEAN	30.125		0.00001	2.825	0.0125	76.975	3.2675	0.0025	25.9	0.0225	0.0018625	7.05	7.14	0.00125
	Median	31.35		1E-05	2.85	0.0125	80.75	3.04	0.0025	25.90	0.0215	0.00125	6.97	7.18	0.00125
	STD	16.22		0	0.67	0	10.82	1.47	0	1.09	0.0104	0.001225	0.26	0.357	0
	MINIMUM	12.90		< 0.00002	2.7	< 0.025	61.30	1.85	< 0.005	24.60	0.0128	< 0.0025	6.82	6.710	< 0.0025
	MAXIMUM	44.90		< 0.00002	< 4	< 0.025	85.10	5.14	< 0.005	27.20	0.0342	0.0037	7.43	7.500	< 0.0025
	5th Percentile	13.92		1E-05	2.105	0.0125	63.86	1.93	0.0025	24.75	0.013085	0.00125	6.84	6.754	0.00125
	25th Percentile	18.00		1E-05	2.525	0.0125	74.12	2.26	0.0025	25.35	0.014225	0.00125	6.93	6.928	0.00125
	75th Percentile	43.48		1E-05	3.15	0.0125	83.60	4.05	0.0025	26.45	0.029775	0.0018625	7.09	7.395	0.00125
	95th Percentile	44.61		1E-05	3.51	0.0125	84.80	4.92	0.0025	27.05000002	0.033314999	0.0033325	7.36	7.479	0.00125
<b>Emergency Tailings Area (ETA) Adversely Impacted</b>															
P96-8B	03-May-05	0.22	3770	< 0.0002		< 0.25	659	49	< 0.05	53	0.69	< 0.05	6.21	7.01	< 0.025
P96-8B	10-Sep-05	9.85	4080	< 0.0002		0.2	730	90.7	< 0.1	58.6	1.4	< 0.1		6.35	< 0.05
P96-8B	22-Sep-06	< 0.06		< 0.00002	16.8	< 0.5	780	83.9	< 0.1	65.9	1.09	< 0.05	< 6.5	6.69	< 0.05
P96-8B	05-Oct-07	< 0.06		< 0.00002	16.3	< 0.25	719	53.3	< 0.05	54.7	0.684	< 0.025	6.63	6.6	< 0.025
SRK04-3A	14-Jun-06	694		< 0.00002	8.7	< 0.5	718	66.7	< 0.1	54.9	0.74	< 0.05	5.8	6.12	< 0.05
SRK04-3A	22-Sep-06	913		0.000026	11.6	< 0.5	760	78.7	< 0.1	58.2	1.15	0.335	6.85	5.92	< 0.05
SRK04-3A	31-May-07	419		< 0.00002	9.9	< 0.25	785	68.1	< 0.05	60.5	0.716	< 0.025	5.72	6.3	< 0.025
SRK04-3A	10-Oct-07	814		< 0.00002	13.7	< 0.5	729	71.4	< 0.1	54.5	0.97	< 0.05	5.82	6.09	< 0.05
SRK04-3B	14-Jun-06	7700		< 0.00002	< 20	< 1	721	78.3	< 0.2	57	0.5	< 0.1	4.13	3.36	< 0.1

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
X18A	21-Jul-05	< 0.002		528		5.4	< 0.05	< 0.0004	0.0064	< 0.03	< 0.005
X18A	10-Sep-05	< 0.005		408		3.94	< 0.05	< 0.001	0.0078	< 0.03	0.012
X18A	08-Jun-06	< 0.005	< 0.0025	521		6.7	< 0.01	< 0.001	0.0071	< 0.03	0.149
X18A	22-Sep-06	< 0.005	< 0.0025	592		3.6	< 0.01	< 0.001	0.0073	< 0.03	0.0112
X18A	30-May-07	< 0.005	< 0.0025	626		3.4	< 0.01	< 0.001	0.0071	< 0.03	0.0095
X18A	05-Oct-07	< 0.005	< 0.0025	549		1.8	< 0.01	< 0.001	0.0079	< 0.005	0.0102
X18B	04-May-05	< 0.005		566		4	< 0.05	< 0.001	0.0105	< 0.03	0.008
X18B	10-Sep-05	< 0.001		203		3.44	< 0.05	< 0.0002	0.00646	< 0.03	0.0075
X18B	08-Jun-06	< 0.005	< 0.0025	539		4.5	< 0.01	< 0.001	0.0107	< 0.03	0.11
X18B	22-Sep-06	< 0.005	< 0.0025	604		3.3	< 0.01	< 0.001	0.0103	< 0.03	0.0124
X18B	30-May-07	< 0.005	< 0.0025	645		3.2	< 0.01	< 0.001	0.0101	< 0.03	0.0069
X18B	05-Oct-07	< 0.005	< 0.0025	548		2	< 0.01	< 0.001	0.0091	< 0.005	0.0083
	Total # samples	29	19	29		28	29	29	29	29	29
	MEAN	0.0017	0.0010	416.06		3.80	0.012	0.0003	0.0065	0.013	0.024
	Median	0.0025	0.00125	505.0		3.5	0.005	0.0005	0.00688	0.015	0.010
	STD	0.0009	0.0004	196.88		1.38	0.010	0.0002	0.00272	0.0050	0.0366
	MINIMUM	< 0.001	< 0.0005	39.5		1.5	< 0.01	< 0.0002	0.00164	< 0.001	< 0.005
	MAXIMUM	< 0.005	< 0.0025	673		6.7	< 0.05	< 0.001	0.0107	< 0.03	0.149
	5th Percentile	0.0005	0.00025	44.40		1.67	0.005	1E-04	0.001772	0.0025	0.0037
	25th Percentile	0.001	0.0005	289.0		3.17	0.005	0.0002	0.00606	0.015	0.0068
	75th Percentile	0.0025	0.00125	559		4.27	0.025	0.0005	0.0078	0.015	0.012
	95th Percentile	0.0025	0.00125	637.4		6.35	0.025	0.0005	0.0104	0.015	0.1052
<b>Emergency Tailings Area (ETA) Highly Impacted</b>											
BR2	14-Jun-06	< 0.005	< 0.0025	1360		7.1	< 0.01	< 0.001	0.0011	< 0.03	11.5
BR2	22-Sep-06	< 0.005	< 0.0025	1410		5.3	< 0.02	< 0.001	0.0013	< 0.06	15.3
BR2	01-Jun-07	< 0.005	< 0.0025	1280		3.6	< 0.01	< 0.001	0.0011	< 0.03	4.06
BR2	10-Oct-07	< 0.005	< 0.0025	1270		3.2	< 0.01	< 0.001	< 0.001	< 0.005	7.98
	Total # samples	4	4	4		4	4	4	4	4	4
	MEAN	0.0025	0.00125	1330		4.8	0.00625	0.0005	0.001	0.015625	9.71
	Median	0.0025	0.00125	1320		4.45	0.005	0.0005	0.0011	0.015	9.74
	STD	0	0	66.8		1.78	0.0025	0	0.0003	0.01125	4.81
	MINIMUM	< 0.005	< 0.0025	1270		3.2	< 0.01	< 0.001	< 0.001	< 0.005	4.06
	MAXIMUM	< 0.005	< 0.0025	1410		7.1	< 0.02	< 0.001	0.0013	< 0.06	15.30
	5th Percentile	0.0025	0.00125	1271.5		3.26	0.005	0.0005	0.00059	0.004375	4.65
	25th Percentile	0.0025	0.00125	1277.5		3.5	0.005	0.0005	0.00095	0.011875	7.00
	75th Percentile	0.0025	0.00125	1372.5		5.7500001	0.00625	0.0005	0.00115	0.01875	12.45
	95th Percentile	0.0025	0.00125	1402.499995		6.8299999	0.00925	0.0005	0.00127	0.02775	14.73
<b>Emergency Tailings Area (ETA) Adversely Impacted</b>											
P96-8B	03-May-05	< 0.05		4520		3.4	< 0.25	< 0.01	< 0.01	0.17	173
P96-8B	10-Sep-05	< 0.1		4980			< 0.1	< 0.02	< 0.02	< 0.2	368
P96-8B	22-Sep-06	< 0.1	< 0.05	3220		9.3	< 0.02	< 0.02	< 0.02	< 0.06	375
P96-8B	05-Oct-07	< 0.05	< 0.025	3840		5.4	< 0.02	< 0.01	< 0.01	< 0.05	208
SRK04-3A	14-Jun-06	< 0.1	< 0.05	5510		6.1	< 0.02	< 0.02	< 0.02	< 0.06	291
SRK04-3A	22-Sep-06	< 0.1	< 0.05	6190		5.7	0.063	< 0.02	< 0.02	0.128	455
SRK04-3A	31-May-07	< 0.05	< 0.025	5250		2.2	< 0.02	< 0.01	< 0.01	< 0.06	263
SRK04-3A	10-Oct-07	< 0.1	< 0.05	5740		4	0.031	< 0.02	< 0.02	< 0.1	495
SRK04-3B	14-Jun-06	< 0.2	< 0.1	18500		6.1	< 0.1	< 0.04	< 0.04	< 0.3	754



**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
SRK04-3B	22-Sep-06	< 0.002	5.47	22.8	< 0.05	< 0.1	< 0.5	< 0.1	420	0.0057	0.523	918	11000	< 0.1	< 0.1
SRK04-3B	31-May-07	< 0.001	2.41	16	< 0.025	< 0.04	< 0.2	< 0.05	413	< 0.00085	0.381	8150	5160	< 0.05	< 0.05
SRK04-3B	10-Oct-07	< 0.004	5.1	18.7	< 0.1	< 0.1	< 0.5	< 0.2	405	< 0.0034	0.425	11480	12200	< 0.2	< 0.2
BR1	14-Jun-06	< 0.002	< 0.5	46.9	< 0.05	< 0.04	< 0.2	< 0.1	418	0.018	0.61	6280	6230	< 0.1	< 0.1
BR1	22-Sep-06	< 0.002	1.68	114	< 0.05	< 0.04	< 0.2	< 0.1	432	0.0269	0.723	698	6750	< 0.1	< 0.1
BR1	31-May-07	< 0.001	0.97	40.9	< 0.025	< 0.04	< 0.2	< 0.05	426	0.0215	0.666	6050	4190	< 0.05	< 0.05
BR1	10-Oct-07	< 0.002	1.01	47	< 0.05	< 0.1	< 0.5	< 0.1	452	0.0201	0.624	8050	7530	< 0.1	< 0.1
	Total # samples	16	16	16	16	16	16	16	16	16	16	15	16	16	16
	MEAN	0.0011	1.97	84.84	0.027	0.036	0.166	0.045	422.9	0.035	0.59	10183	7317	0.046	0.048
	Median	0.001	1.09	79.60	0.025	0.02	0.100000001	0.05	423.0	0.022	0.55	6260	6575	0.050	0.050
	STD	0.0006	2.05	62.53	0.013	0.024	0.111	0.026	16.9	0.036	0.33	17900	2972	0.025	0.023
	MINIMUM	< 0.001	< 0.25	< 2	< 0.025	< 0.04	< 0.2	< 0.01	390	< 0.00085	0.268	698	4190	< 0.025	< 0.05
	MAXIMUM	< 0.005	6.3	214	< 0.1	< 0.2	< 1	< 0.2	456	0.13	1.69	74000	15100	< 0.2	< 0.2
	5th Percentile	0.0005	0.21875	12.25	0.0125	0.02	0.1	0.010625	396.75	0.00138125	0.303250002	703.6000004	4347.5	0.021875	0.025
	25th Percentile	0.000875	0.495	36.37	0.021875	0.02	0.1	0.025	416.75	0.012225	0.417500003	5250	5470	0.025	0.025
	75th Percentile	0.0010625	2.77	127.25	0.025	0.050000001	0.25	0.050000001	430.25	0.045275001	0.6673	7670	7402.5	0.050000001	0.050000001
	95th Percentile	0.002125	5.68	179.5	0.050000001	0.078250002	0.3125	0.100000001	453	0.105250002	0.9647	30236	12925	0.100000001	0.100000001
<b>Grum WRD Area Slightly Impacted</b>															
BH05-9B-R	19-Sep-06	< 0.00002	0.023	155	0.0471	0.022	< 0.1	< 0.001	46.4	0.00002	0.00067	555	602	< 0.001	< 0.002
BH05-9B-R	29-May-07	< 0.00004	< 0.01	159	0.0189	< 0.02	< 0.1	< 0.002	48.3	0.00005	< 0.0006	603	577	< 0.002	< 0.002
SRK04-5A	08-Sep-05	< 0.00005	< 0.01	154	0.0121	0.032	< 0.1	< 0.005	47.5	< 0.00005	< 0.0005		449	< 0.0005	< 0.001
SRK04-5A	07-Jun-06	< 0.00002	0.012	144	0.0126	0.056	< 0.1	< 0.001	53.8	0.000024	< 0.0003	434.9	448	< 0.001	< 0.001
SRK04-5A	19-Sep-06	< 0.00002	0.0075	149	0.00822	0.038	< 0.1	< 0.001	56.7	< 0.000017	< 0.0003	418	439	< 0.001	< 0.001
SRK04-5B	08-Sep-05	< 0.00005	< 0.01	153	0.0169	0.049	< 0.1	< 0.005	47.6	< 0.00005	< 0.0005		435	< 0.0005	< 0.001
SRK04-5B	07-Jun-06	< 0.00002	< 0.005	140	0.00593	0.031	< 0.1	< 0.001	55.5	0.000021	0.00033	219.8	430	< 0.001	< 0.001
SRK04-5B	19-Sep-06	< 0.00002	0.0071	144	0.0148	0.083	< 0.1	< 0.001	58.6	0.000022	< 0.0003	418	465	< 0.001	< 0.001
	Total # samples	8	8	8	8	8	8	8	8	8	8	6	8	8	8
	MEAN	0.00002	0.0084	149.8	0.0171	0.040	0.050	0.001	51.80	0.00002	0.00028	441.5	480.6	0.001	0.001
	Median	1E-05	0.00605	151	0.0137	0.04	0.05	0.0005	51.0	2.3E-05	0.00025	426.45	448.5	0.0005	0.0005
	STD	7.07107E-06	0.0065	6.58	0.0129	0.0225	9.96E-10	0.0009	4.9	1.16234E-05	0.00017	133.6	68.4	0.00023	0.0002
	MINIMUM	< 0.00002	< 0.005	140	0.00593	< 0.02	< 0.1	< 0.001	46.4	< 0.000017	< 0.0003	219.8	430	< 0.0005	< 0.001
	MAXIMUM	< 0.00005	0.023	159	0.0471	0.083	< 0.1	< 0.005	58.6	< 0.00005	0.00067	603	602	< 0.002	< 0.002
	5th Percentile	1E-05	0.003375	141.4	0.0067315	0.0142	0.05	0.0005	46.79	1.2525E-05	0.00015	269.4	431.8	0.00025	0.0005
	25th Percentile	1E-05	0.005	144	0.01113	0.03	0.05	0.0005	47.575	2.075E-05	0.00015	418	438	0.0004375	0.0005
	75th Percentile	2.125E-05	0.008625	154.25	0.017	0.051	0.050	0.001375	55.8	2.5E-05	0.0003075	524.97	493	0.0005	0.000625
	95th Percentile	0.00002	0.0192	157.6	0.037	0.074	0.050	0.002	57.94	0.00004	0.00055	591	593	0.001	0.001
<b>Grum WRD Area Moderately Impacted</b>															
P96-9A	03-May-05	< 0.00025	< 0.05	412	< 0.005	0.063	< 0.1	< 0.005	297	0.00077	0.0036	1219	2210	< 0.0025	< 0.005
P96-9A	08-Sep-05	< 0.00025	< 0.05	469	< 0.005	0.055	< 0.1	< 0.005	347	0.00101	< 0.0025	2896	3070	< 0.0025	< 0.005
P96-9A	07-Jun-06	< 0.0001	0.026	443	< 0.0025	0.046	< 0.1	< 0.005	301	0.000614	< 0.0015	2518	2550	< 0.005	< 0.005
P96-9A	19-Sep-06	< 0.0001	< 0.025	509	< 0.0025	0.077	< 0.1	< 0.005	395	0.000692	< 0.0015	2870	3070	< 0.005	< 0.005
P96-9A	29-May-07	< 0.0001	< 0.025	411	< 0.0025	0.041	< 0.1	< 0.005	357	0.00031	< 0.0015	2720	2710	< 0.005	< 0.005
P96-9A	12-Oct-07	< 0.0002	0.848	520	< 0.005	0.058	< 0.1	< 0.01	401	0.00042	< 0.003	2844	3270	< 0.01	< 0.01
SRK05-06	19-Sep-06	< 0.0001	< 0.025		< 0.0025	0.055	< 0.1	< 0.005	226	0.000425	< 0.0015	1531		< 0.005	0.0092
SRK05-06	30-May-07	< 0.00004	< 0.01	224	< 0.001	< 0.02	< 0.1	< 0.002	165	0.000176	< 0.0006	1142	1050	< 0.002	0.0029
SRK05-06	12-Oct-07	< 0.0001	< 0.025	352	< 0.0025	0.049	< 0.1	< 0.005	276	0.000266	< 0.0015	1766	2030	< 0.005	< 0.005
SRK05-07	19-Sep-06	< 0.0001	0.033	765	0.0266	0.141	< 0.1	< 0.005	340	< 0.00085	0.0146	2580	2560	< 0.005	< 0.005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
SRK04-3B	22-Sep-06	3800		< 0.00002	< 10	< 0.5	680	76.8	< 0.1	58	0.9	0.118	6.75	4.4	< 0.05
SRK04-3B	31-May-07	1790		< 0.00002	10.4	< 0.25	765	66	< 0.05	62.7	0.644	< 0.025	5.77	4.46	< 0.025
SRK04-3B	10-Oct-07	4980		< 0.00002	11	< 1	642	68.4	< 0.2	63	0.62	< 0.1	5.52	3.88	< 0.1
BR1	14-Jun-06	742		< 0.00002	8.3	< 0.5	610	65.1	< 0.1	60.1	0.76	< 0.05	5.58	5.98	< 0.05
BR1	22-Sep-06	961		< 0.00002	9.7	< 0.5	583	75.4	< 0.1	71.4	1.01	< 0.05	7.05	5.63	< 0.05
BR1	31-May-07	539		< 0.00002	8.9	< 0.25	632	70.1	< 0.05	62.9	0.83	0.027	5.58	6.05	< 0.025
BR1	10-Oct-07	1550		< 0.00002	11	< 0.5	666	66.2	< 0.1	92	0.77	< 0.05	5.87	5.86	< 0.05
	Total # samples	16	2	16	14	16	16	16	16	16	16	16	15	16	16
	MEAN	1557	3925	0.00002	10.81	0.24	698.7	70.5	0.048	61.7	0.842	0.053	5.77	5.67	0.024
	Median	778	3925	1E-05	10.20	0.25	718.5	69.3	0.050	59.3	0.765	0.025	5.80	6.02	0.025
	STD	2149	219.2	3.06105E-05	3.11	0.12	61.8	10.4	0.023	9.4	0.232	0.080	1.00	1.06	0.012
	MINIMUM	< 0.06	3770.0	< 0.00002	8.30	0.2	583	49.0	< 0.05	53.0	0.5	< 0.025	4.13	3.36	< 0.025
	MAXIMUM	7700	4080.0	< 0.0002	< 20	< 1	785	90.7	< 0.2	92.0	1.4	0.335	7.05	7.01	< 0.1
	5th Percentile	0.03	3785.5	1E-05	7.14	0.125	603.25	52.2	0.025	54.1	0.59	0.0125	3.87	3.75	0.0125
	25th Percentile	316.7125001	3847.5	1E-05	9.10	0.125	654.75	66.2	0.025	56.5	0.688500004	0.025	5.58	5.34	0.0125
	75th Percentile	1610	4002.5	1E-05	11.45	0.25	737.5	77.2	0.050000001	62.9	0.98	0.050000001	6.42	6.31	0.0025
	95th Percentile	5660	4064.5	1E-04	16.47	0.5	781.25	85.6	0.100000001	76.6	1.21	0.172250001	6.91	6.77	0.05000001
<b>Grum WRD Area Slightly Impacted</b>															
BH05-9B-R	19-Sep-06	0.51		< 0.00002	< 2	0.0214	23.6	0.0993	0.012	50	0.0012	0.0146	8.13	8.11	0.00063
BH05-9B-R	29-May-07	0.592		< 0.00002	< 2	0.022	22.6	0.104	0.0113	52.7	< 0.002	0.0031	8.02	8.04	< 0.001
SRK04-5A	08-Sep-05	0.701	172	< 0.0002		< 0.05	13	0.08	0.0179	13.2	< 0.005	< 0.001		7.96	< 0.0005
SRK04-5A	07-Jun-06	1.27		< 0.00002	< 2	0.0078	15.3	0.0887	0.0199	19.5	< 0.001	0.00138	8	8.08	< 0.0005
SRK04-5A	19-Sep-06	0.744		< 0.00002	< 2	0.0106	17	0.0487	0.0178	19.1	< 0.001	< 0.0005	7.9	8.12	< 0.0005
SRK04-5B	08-Sep-05	0.479	172	< 0.0002		< 0.05	12.9	0.08	0.0204	15.8	< 0.005	< 0.001		8.08	< 0.0005
SRK04-5B	07-Jun-06	1.42		< 0.00002	< 2	0.0101	16.3	0.0536	0.0174	18.6	< 0.001	0.00064	7.75	8.06	< 0.0005
SRK04-5B	19-Sep-06	0.205		< 0.00002	< 2	0.0095	17.5	0.0811	0.0231	24.2	< 0.001	< 0.0005	7.88	8.09	0.00076
	Total # samples	8	2	8	6	8	8	8	8	8	8	8	6	8	8
	MEAN	0.740	172.00	0.000033	1.00	0.016	17.28	0.079	0.0175	26.64	0.0012	0.0027	7.95	8.07	0.0004
	Median	0.647	172	1E-05	1.00	0.016	16.65	0.08	0.01785	19.30	0.001	0.00057	8.0	8.1	0.00025
	STD	0.410	0	4.16619E-05	0	0.0076	3.98	0.020	0.0040	15.59	0.0009	0.0049	0.13	0.05	0.0002
	MINIMUM	0.205	172	< 0.00002	< 2	0.0078	12.9	0.0487	0.0113	13.2	< 0.001	< 0.0005	7.75	7.96	< 0.0005
	MAXIMUM	1.42	172	< 0.0002	< 2	< 0.05	23.6	0.104	0.0231	52.7	< 0.005	0.0146	8.13	8.12	< 0.001
	5th Percentile	0.3009	172.0	1E-05	1.00	0.008395	12.93	0.050	0.011545	14.11	0.0005	0.00025	7.78	7.99	0.00025
	25th Percentile	0.502	172	1E-05	1.00	0.00995	14.73	0.073	0.01605	17.90	0.0005	0.0004375	7.89	8.05	0.00025
	75th Percentile	0.8755	172	3.25E-05	1.00	0.02275	18.78	0.09	0.020025	30.65	0.001525	0.00181	8.02	8.10	0.0005325
	95th Percentile	1.37	172	1E-04	1.00	0.025	23.3	0.10	0.022	51.76	0.0025	0.0106	8.10	8.12	0.0007
<b>Grum WRD Area Moderately Impacted</b>															
P96-9A	03-May-05	0.071	1480	< 0.0002		< 0.05	180	0.885	< 0.005	12.2	< 0.025	< 0.005	6.5	7.85	< 0.0025
P96-9A	08-Sep-05	< 0.03	1810	< 0.0002		< 0.05	228	0.077	< 0.005	9.8	< 0.025	< 0.005		7.41	< 0.0025
P96-9A	07-Jun-06	< 0.03		< 0.00002	3.3	< 0.025	229	0.118	< 0.005	12.3	0.0091	< 0.0025	6.86	7.74	< 0.0025
P96-9A	19-Sep-06	0.04		< 0.00002	5.7	< 0.025	306	0.0738	< 0.005	16.7	0.0073	< 0.0025	6.72	7.56	< 0.0025
P96-9A	29-May-07	< 0.03		< 0.00002	3.8	< 0.025	286	0.0874	< 0.005	12	0.0055	< 0.0025	6.82	7.79	< 0.0025
P96-9A	12-Oct-07	< 0.03		< 0.00002	5.1	< 0.05	332	0.0078	< 0.01	13.5	< 0.01	< 0.005	7.11	7.46	< 0.005
SRK05-06	19-Sep-06	< 0.03		< 0.00002	3.5	< 0.025	124	0.0316	< 0.005	10	< 0.005	0.0041	7.48		< 0.0025
SRK05-06	30-May-07	0.392		< 0.00002	< 2	< 0.01	85.4	0.00357	< 0.002	6.3	< 0.002	< 0.001	7.67	8.08	< 0.001
SRK05-06	12-Oct-07	< 0.03		< 0.00002	3.6	< 0.025	169	0.0035	< 0.005	10.5	< 0.005	< 0.0025	8.15	8.15	< 0.0025
SRK05-07	19-Sep-06	1.82		< 0.00002	3.2	< 0.025	227	1.15	0.0188	13.4	0.0715	< 0.0025	6.71	7.79	0.0032

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
SRK04-3B	22-Sep-06	< 0.1	< 0.05	10500		6.7	< 0.05	< 0.02	< 0.02	0.32	628
SRK04-3B	31-May-07	< 0.05	< 0.025	7880		4.7	< 0.02	< 0.01	< 0.01	< 0.06	344
SRK04-3B	10-Oct-07	< 0.2	< 0.1	12500		4.3	0.104	< 0.04	< 0.04	< 0.2	666
BR1	14-Jun-06	< 0.1	< 0.05	5250		6.1	< 0.02	< 0.02	< 0.02	< 0.06	317
BR1	22-Sep-06	< 0.1	< 0.05	5750		5.5	< 0.02	< 0.02	< 0.02	0.122	424
BR1	31-May-07	< 0.05	< 0.025	5030		3.4	< 0.02	< 0.01	< 0.01	< 0.06	301
BR1	10-Oct-07	< 0.1	< 0.05	6390		1.5	0.051	< 0.02	< 0.02	< 0.1	490
	Total # samples	16	14	16		15	16	16	16	16	16
	MEAN	0.05	0.025	6941		4.96	0.0362	0.0097	0.0097	0.0872	409.5
	Median	0.05	0.025	5625		5.4	0.0175	0.01	0.01	0.05	371.5
	STD	0.02	0.012	3885		1.94	0.0360	0.0046	0.0046	0.0794	164.9
	MINIMUM	< 0.05	< 0.025	3220		1.5	< 0.02	< 0.01	< 0.01	< 0.05	173
	MAXIMUM	< 0.2	< 0.1	18500		9.3	< 0.25	< 0.04	< 0.04	0.32	754
	5th Percentile	0.025	0.0125	3685		1.99	0.01	0.005	0.005	0.02875	199.25
	25th Percentile	0.025	0.015625	5017.5		3.7	0.01	0.005	0.005	0.03	298.5
	75th Percentile	0.05	0.025	6762.5		6.1	0.05025	0.01	0.01	0.1235	491.25
	95th Percentile	0.1	0.05	14000		7.480004	0.10925	0.02	0.02	0.2075	688
<b>Grum WRD Area Slightly Impacted</b>											
BH05-9B-R	19-Sep-06	< 0.001	< 0.0005	161		6.3	< 0.01	< 0.0002	0.00175	< 0.03	0.0072
BH05-9B-R	29-May-07	< 0.002	< 0.001	179		3.2	< 0.01	< 0.0004	0.00087	< 0.03	< 0.005
SRK04-5A	08-Sep-05	< 0.001		89.8			< 0.05	< 0.0002	0.00114	< 0.03	0.0105
SRK04-5A	07-Jun-06	< 0.001	< 0.0005	98.4		3.9	< 0.01	< 0.0002	0.00117	< 0.03	0.053
SRK04-5A	19-Sep-06	< 0.001	< 0.0005	94.9		4.5	< 0.01	< 0.0002	0.00216	< 0.03	0.0064
SRK04-5B	08-Sep-05	< 0.001		85.3			< 0.05	< 0.0002	0.00201	< 0.03	0.0066
SRK04-5B	07-Jun-06	< 0.001	< 0.0005	89		4.8	< 0.01	< 0.0002	0.00142	< 0.03	0.402
SRK04-5B	19-Sep-06	< 0.001	< 0.0005	109		3.6	< 0.01	< 0.0002	0.00318	< 0.03	0.0062
	Total # samples	8	6	8		6	8	8	8	8	8
	MEAN	0.0006	0.0003	113.30		4.38	0.010	0.0001	0.0017	0.015	0.062
	Median	0.0005	0.00025	96.7		4.2	0.005	1E-04	0.001585	0.015	0.0069
	STD	0.0002	0.0001	36.05		1.11	0.009	3.536E-05	0.00074	1.76E-10	0.1384
	MINIMUM	< 0.001	< 0.0005	85.3		3.2	< 0.01	< 0.0002	0.00087	< 0.03	< 0.005
	MAXIMUM	< 0.002	< 0.001	179		6.3	< 0.05	< 0.0004	0.00318	< 0.03	0.402
	5th Percentile	0.0005	0.00025	86.60		3.30	0.005	1E-04	0.0009645	0.015	0.003795
	25th Percentile	0.0005	0.00025	89.6		3.67	0.005	1E-04	0.0011625	0.015	0.00635
	75th Percentile	0.0005	0.00025	122		4.73	0.01	1E-04	0.0020475	0.015	0.021
	95th Percentile	0.000825	0.0004	172.7		5.93	0.025	0.0002	0.002823	0.015	0.2799
<b>Grum WRD Area Moderately Impacted</b>											
P96-9A	03-May-05	< 0.005		994		1.7	< 0.05	< 0.001	0.0232	< 0.03	0.0192
P96-9A	08-Sep-05	< 0.005		1600			< 0.05	< 0.001	0.0316	< 0.05	0.016
P96-9A	07-Jun-06	< 0.005	< 0.0025	1400		7.2	< 0.01	< 0.001	0.0268	< 0.03	0.0255
P96-9A	19-Sep-06	< 0.005	< 0.0025	1700		7.5	< 0.01	< 0.001	0.0399	< 0.03	0.091
P96-9A	29-May-07	< 0.005	< 0.0025	1500		0.8	< 0.01	< 0.001	0.0353	< 0.03	0.0141
P96-9A	12-Oct-07	< 0.01	< 0.005	1760		4.3	< 0.01	< 0.002	0.0468	< 0.01	< 0.05
SRK05-06	19-Sep-06	< 0.005	< 0.0025			8.4	< 0.01	< 0.001	0.0253	< 0.03	0.055
SRK05-06	30-May-07	< 0.002	< 0.001	444		2.3	< 0.01	< 0.0004	0.016	< 0.03	< 0.017
SRK05-06	12-Oct-07	< 0.005	< 0.0025	916		2.5	< 0.01	< 0.001	0.0319	< 0.005	0.0173
SRK05-07	19-Sep-06	< 0.005	< 0.0025	1080		6.2	< 0.01	< 0.001	0.016	< 0.03	0.025

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
SRK05-07	30-May-07	< 0.0001	0.059	532	0.0073	0.126	< 0.1	< 0.005	290	< 0.000085	0.0077		1600	< 0.005	< 0.005
SRK05-07	12-Oct-07	< 0.0002	< 0.05	735	< 0.005	0.074	< 0.1	< 0.01	408	0.0003	0.0097	2250	2680	< 0.01	< 0.01
SRK05-08	19-Sep-06	< 0.0001	< 0.025	516	< 0.0025	0.032	< 0.1	< 0.005	212	< 0.000085	< 0.0015	1501	1600	< 0.005	< 0.005
SRK05-08	30-May-07	< 0.0001	< 0.025	514	< 0.0025	0.028	< 0.1	< 0.005	243	< 0.000085	< 0.0015	1779	1540	< 0.005	< 0.005
SRK05-08	12-Oct-07	< 0.0001	< 0.025	558	< 0.0025	< 0.02	< 0.1	< 0.005	282	< 0.000085	< 0.0015	1755	1980	< 0.005	< 0.005
SRK05-09	19-Sep-06	< 0.0001	< 0.025	332	< 0.0025	0.082	< 0.1	< 0.005	224	0.000293	< 0.0015	1526	1630	< 0.005	< 0.005
SRK05-09	30-May-07	< 0.00004	< 0.01	223	< 0.001	0.03	< 0.1	< 0.002	138	0.000099	< 0.0006	1010	957	< 0.002	0.0035
SRK05-09	12-Oct-07	< 0.0001	0.029	362	< 0.0025	0.068	< 0.1	< 0.005	285	0.000283	< 0.0015	1766	2040	< 0.005	< 0.005
	Total # samples	18	18	17	18	18	18	18	18	18	18	17	17	18	18
	MEAN	0.00006	0.0656	463.4	0.0032	0.058	0.050	0.003	288.17	0.00033	0.00258	1980.8	2149.8	0.002	0.003
	Median	5E-05	0.0125	469	0.00125	0.055	0.05	0.0025	287.5	0.000288	0.00075	1766	2040	0.0025	0.0025
	STD	0.00003	0.1957	147.9	0.0060	0.0346	0.000	0.0010	78.0	0.000285	0.00398	646.6	698.6	0.00109	0.0017
	MINIMUM	< 0.00004	< 0.01	223	< 0.001	< 0.02	< 0.1	< 0.002	138	< 0.000085	< 0.0006	1010	957	< 0.002	0.0029
	MAXIMUM	< 0.00025	0.848	765	0.0266	0.141	< 0.1	< 0.01	408	0.00101	0.0146	2896	3270	< 0.01	< 0.01
	5th Percentile	2E-05	0.005	223.8	0.0005	0.01	0.05	0.001	160.95	4.25E-05	0.0003	1115.6	1031.4	0.001	0.0025
	25th Percentile	5E-05	0.0125	362	0.00125	0.03	0.05	0.0025	230.25	5.6625E-05	0.00075	1526	1600	0.0025	0.0025
	75th Percentile	5E-05	0.02575	520	0.0025	0.073	0.050	0.0025	345.25	0.00042375	0.0014375	2580	2680	0.0025	0.0028
	95th Percentile	0.00013	0.1773	741.0	0.010	0.128	0.050	0.005	402.05	0.00081	0.01043	2875	3110	0.005	0.006
<b>Intermediate Impoundment Non-Impacted</b>															
P03-08-01	05-May-05	< 0.00005	< 0.01	250	< 0.001	0.087	< 0.2	< 0.01	81.6	< 0.00005	< 0.0005	522		< 0.0005	< 0.001
P03-08-01	09-Sep-05	< 0.00005	< 0.01	261	< 0.001	0.089	< 0.1	< 0.005	77.3	< 0.00005	< 0.0005	407.5	490	< 0.0005	< 0.001
P03-08-01	06-Jun-06	< 0.00002	< 0.005	257	< 0.0005	0.078	< 0.1	< 0.001	63.5	< 0.000017	< 0.0003	356.8	483	< 0.001	< 0.001
P03-08-01	19-Sep-06	< 0.00002	< 0.005	263	< 0.0005	0.084	< 0.1	< 0.001	64.5	0.00002	< 0.0003	394.1	477	< 0.001	< 0.001
P03-08-01	29-May-07	< 0.00002	0.0051	275	< 0.0005	0.07	< 0.1	< 0.001	75.9	0.000024	< 0.0003	569	548	< 0.001	< 0.001
P03-08-01	03-Oct-07	< 0.00002	< 0.005	262	< 0.0005	0.082	< 0.1	< 0.001	76.1	0.000021	< 0.0003	522	527	< 0.001	< 0.001
	Total # samples	6	6	6	6	6	6	6	6	6	6	6	5	6	6
	MEAN	0.00002	0.0038	261.3	0.0003	0.082	0.058	0.002	73.15	0.00002	0.00018	461.9	505.0	0.000	0.001
	Median	1E-05	0.00375	261.5	0.00025	0.08	0.05	0.0005	76.0	2.25E-05	0.00015	464.75	490	0.0005	0.0005
	STD	0.00001	0.0014	8.21	0.0001	0.0069	0.020	0.0019	7.4	6.28026E-06	0.00005	86.4	30.9	0.00013	0.0000
	MINIMUM	< 0.00002	< 0.005	250	< 0.0005	0.07	< 0.1	< 0.001	63.5	< 0.000017	< 0.0003	356.8	477	< 0.0005	< 0.001
	MAXIMUM	< 0.00005	< 0.01	275	< 0.001	0.089	< 0.2	< 0.01	81.6	< 0.00005	< 0.0005	569	548	< 0.001	< 0.001
	5th Percentile	1E-05	0.0025	251.8	0.00025	0.072	0.05	0.0005	63.75	1.1375E-05	0.00015	366.1	478.2	0.00025	0.0005
	25th Percentile	1E-05	0.0025	258	0.00025	0.08	0.05	0.0005	67.35	2.025E-05	0.00015	397.45	483	0.0003125	0.0005
	75th Percentile	2.125E-05	0.005	262.75	0.0004375	0.086	0.050	0.002	77.0	2.475E-05	0.000225	522	527	0.0005	0.0005
	95th Percentile	0.00002	0.0051	272.0	0.001	0.088	0.088	0.004	80.53	0.00002	0.00025	557	544	0.001	0.001
<b>Intermediate Impoundment Slightly Impacted</b>															
P03-08-02	05-May-05	< 0.00005	< 0.01	265	< 0.001	0.257	< 0.2	< 0.01	117	0.000155	0.00067	730		< 0.0005	0.0028
P03-08-02	23-Jul-05	< 0.00005	< 0.01	220	< 0.001	0.216	< 0.1	< 0.005	89.2	0.000105	0.00054	537	601	< 0.0005	0.0028
P03-08-02	09-Sep-05	< 0.00005	< 0.01	280	< 0.001	0.216	< 0.1	< 0.005	98.3	0.000206	0.00052	443	576	< 0.0005	0.0033
P03-08-02	01-Nov-05	< 0.01	< 0.2	259	< 0.2	0.208	< 0.1	< 0.005	90.3	< 0.01	< 0.01	528	613	< 0.01	< 0.01
P03-08-02	06-Jun-06	< 0.00002	0.0132	270	< 0.0005	0.221	< 0.1	< 0.001	90.4	0.00005	0.00084	413.9	642	< 0.001	0.0028
P03-08-02	02-Aug-06	< 0.00002	0.0054	225	< 0.0005	0.193	< 0.1	< 0.001	82.2	0.000082	0.00061	277	533	< 0.001	0.0026
P03-08-02	19-Sep-06	< 0.00002	0.0075	245	< 0.0005	0.205	< 0.1	< 0.001	82.8	0.000122	0.00066	456	548	< 0.001	0.0028
P03-08-02	01-Nov-06	< 0.0001	< 0.025	267	< 0.0025	0.204	< 0.2	< 0.005	82.8	0.000189	< 0.0015	600	590	< 0.005	< 0.005
P03-08-02	29-May-07	< 0.00002	0.0898	289	< 0.0005	0.207	< 0.1	< 0.001	103	0.000248	0.00085	720	676	< 0.001	0.0069
P03-08-02	02-Aug-07	< 0.00002	0.0051	246	< 0.0005	0.176	< 0.1	< 0.001	81.2	0.000187	0.0005	516	561	< 0.001	0.0031
P03-08-02	05-Nov-07	< 0.00002	0.0064	263	< 0.0005	0.173	< 0.1	< 0.001	83	0.000145	0.00055	540	563	< 0.001	0.0023

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
SRK05-07	30-May-07	0.575		< 0.00002	3.5	< 0.025	149	0.421	0.0102	7.5	0.0936	< 0.0025		8.1	< 0.0025
SRK05-07	12-Oct-07	< 0.03		< 0.00002	3.6	< 0.05	221	0.692	< 0.01	10.6	0.147	< 0.005	7.38	7.73	< 0.005
SRK05-08	19-Sep-06	< 0.03		< 0.00002	< 2	< 0.025	108	0.0198	< 0.005	7.2	< 0.005	< 0.0025	7.3	7.78	< 0.0025
SRK05-08	30-May-07	< 0.03		< 0.00002	< 2	< 0.025	126	0.003	< 0.005	7.5	< 0.005	< 0.0025	7.09	7.84	< 0.0025
SRK05-08	12-Oct-07	< 0.03		< 0.00002	< 2	< 0.025	156	0.0017	< 0.005	8.9	< 0.005	< 0.0025	7.5	7.8	< 0.0025
SRK05-09	19-Sep-06	< 0.03		< 0.00002	3	< 0.025	114	0.0143	< 0.005	8.3	< 0.005	< 0.0025	7.12	7.86	< 0.0025
SRK05-09	30-May-07	< 0.03		< 0.00002	< 2	< 0.01	76.9	0.00063	< 0.002	5.8	< 0.002	< 0.001	7.67	8.03	< 0.001
SRK05-09	12-Oct-07	< 0.03		< 0.00002	3.6	< 0.025	165	< 0.0015	< 0.005	9.8	< 0.005	< 0.0025	7.66	7.95	< 0.0025
	Total # samples	18	2	18	16	18	18	18	18	18	18	18	16	17	18
	MEAN	0.172	1645.00	0.000020	2.93	0.014	182.35	0.199	0.0039	10.13	0.0213	0.0016	7.23	7.82	0.0014
	Median	0.015	1645	1E-05	3.40	0.0125	167	0.03	0.0025	9.90	0.00375	0.00125	7.2	7.8	0.00125
	STD	0.439	233.3	2.91043E-05	1.50	0.0063	75.06	0.350	0.0042	2.86	0.0405	0.0009	0.45	0.21	0.0007
	MINIMUM	< 0.03	1480	< 0.00002	< 2	< 0.01	76.9	0.00063	< 0.002	5.8	< 0.002	< 0.001	6.5	7.41	< 0.001
	MAXIMUM	1.82	1810	< 0.0002	5.7	< 0.05	332	1.15	0.0188	16.7	0.147	< 0.005	8.15	8.15	< 0.005
	5th Percentile	0.0150	1496.5	1E-05	1.00	0.005	84.13	0.001	0.001	6.23	0.001	0.0005	6.66	7.45	0.0005
	25th Percentile	0.015	1562.5	1E-05	1.00	0.0125	124.50	0.004	0.0025	7.70	0.0025	0.00125	6.85	7.74	0.00125
	75th Percentile	0.0337	1727.5	1E-05	3.60	0.0125	227.75	0.11	0.0025	12.15	0.01165	0.0021875	7.54	7.95	0.00125
	95th Percentile	0.76	1794	1E-04	5.25	0.025	309.9	0.92	0.011	13.98	0.1016	0.0027	7.79	8.11	0.0026
<b>Intermediate Impoundment Non-Impacted</b>															
P03-08-01	05-May-05	0.073	316	< 0.0002		< 0.1	27.4	0.112	< 0.001	< 4	< 0.005	< 0.001	6.93	8.15	< 0.0005
P03-08-01	09-Sep-05	0.066	307	< 0.0002		< 0.05	27.7	0.062	< 0.001	3.9	< 0.005	< 0.001	7.68	8.08	< 0.0005
P03-08-01	06-Jun-06	0.171		< 0.00002	< 2	0.0086	24.1	0.0462	< 0.001	2.3	0.0023	< 0.0005	7.38	8.06	< 0.0005
P03-08-01	19-Sep-06	0.044		< 0.00002	< 2	0.0088	25.4	0.0326	< 0.001	2.1	0.002	< 0.0005	7.19	8.06	< 0.0005
P03-08-01	29-May-07	< 0.03		< 0.00002	< 2	0.009	27.4	0.0466	< 0.001	2.3	0.0023	< 0.0005	7.45	8.16	< 0.0005
P03-08-01	03-Oct-07	0.048		< 0.00002	2	0.0084	28.6	0.0358	< 0.001	2.7	0.0019	< 0.0005	8.09	8.04	< 0.0005
	Total # samples	6	2	6	4	6	6	6	6	6	6	6	6	6	6
	MEAN	0.070	311.50	0.000040	1.25	0.018	26.77	0.056	0.0005	2.55	0.0023	0.0003	7.45	8.09	0.0003
	Median	0.057	311.5	1E-05	1.00	0.0089	27.40	0.05	0.0005	2.30	0.002	0.00025	7.4	8.1	0.00025
	STD	0.054	6.4	4.64758E-05	0.50	0.0168	1.67	0.029	0.0000	0.70	0.0003	0.0001	0.40	0.05	0.0000
	MINIMUM	< 0.03	307	< 0.00002	< 2	0.0084	24.1	0.0326	< 0.001	2.1	0.0019	< 0.0005	6.93	8.04	< 0.0005
	MAXIMUM	0.171	316	< 0.0002	< 2	< 0.1	28.6	0.112	< 0.001	< 4	< 0.005	< 0.001	8.09	8.16	< 0.0005
	5th Percentile	0.0222	307.4	1E-05	1.00	0.00845	24.43	0.033	0.0005	2.03	0.001925	0.00025	6.99	8.04	0.00025
	25th Percentile	0.045	309.25	1E-05	1.00	0.00865	25.90	0.038	0.0005	2.15	0.002075	0.00025	7.24	8.06	0.00025
	75th Percentile	0.0712	313.75	7.75E-05	1.25	0.021	27.62	0.06	0.0005	2.60	0.00245	0.0004375	7.62	8.13	0.00025
	95th Percentile	0.15	316	1E-04	1.85	0.044	28.4	0.10	0.001	3.60	0.0025	0.0005	7.99	8.16	0.0003
<b>Intermediate Impoundment Slightly Impacted</b>															
P03-08-02	05-May-05	< 0.06	409	< 0.0002		< 0.1	28.7	5.09	< 0.001	14.4	0.0256	< 0.001	6.35	7.99	< 0.0005
P03-08-02	23-Jul-05	< 0.03	320	< 0.0002		< 0.05	23.6	4.46	< 0.001	10.2	0.0212	< 0.001	6.98	7.36	< 0.0005
P03-08-02	09-Sep-05	0.037	346	< 0.0002		< 0.05	24.3	4.44	0.001	10.6	0.0201	< 0.001	7.23	7.75	< 0.0005
P03-08-02	01-Nov-05	< 0.03	318		< 2	< 0.01	22.6	4.35	< 0.03	9.2	< 0.05	< 0.05	6.91	7.79	< 0.2
P03-08-02	06-Jun-06	0.096		< 0.00002	< 2	< 0.005	23.4	4.56	< 0.001	11.5	0.0248	< 0.0005	6.79	7.9	< 0.0005
P03-08-02	02-Aug-06	0.034		< 0.00002	< 2	< 0.005	22.8	3.92	0.001	7.8	0.0192	< 0.0005	7.24	7.84	< 0.0005
P03-08-02	19-Sep-06	0.045		< 0.00002	< 2	< 0.005	22.7	4.1	< 0.001	7.9	0.0201	< 0.0005	6.81	7.81	< 0.0005
P03-08-02	01-Nov-06	0.094		< 0.00002	< 4	< 0.025	23.3	4.17	< 0.005	9.3	0.0223	< 0.0025	7.16	6.97	< 0.0025
P03-08-02	29-May-07	0.22		< 0.00002	< 2	< 0.005	27.1	4.28	< 0.001	10.5	0.0225	0.0018	7.17	8.06	< 0.0005
P03-08-02	02-Aug-07	< 0.03	292	< 0.00002	< 2	< 0.005	21.6	2.82	< 0.001	8.8	0.0166	< 0.0005	7.13	7.91	< 0.0005
P03-08-02	05-Nov-07	< 0.03	305	< 0.00005	< 2	< 0.005	23.8	3.3	0.0011	7	0.0155	< 0.0005	7.74	8.04	< 0.0005

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
SRK05-07	30-May-07	< 0.005	< 0.0025	706			< 0.01	< 0.001	0.0142	< 0.03	0.0394
SRK05-07	12-Oct-07	< 0.01	< 0.005	1080		1.8	< 0.01	< 0.002	0.0157	< 0.01	0.0269
SRK05-08	19-Sep-06	< 0.005	< 0.0025	494		5.2	< 0.01	< 0.001	0.0143	< 0.03	0.052
SRK05-08	30-May-07	< 0.005	< 0.0025	634		2.9	< 0.01	< 0.001	0.0174	< 0.03	0.013
SRK05-08	12-Oct-07	< 0.005	< 0.0025	664		2	< 0.01	< 0.001	0.0181	< 0.005	0.0088
SRK05-09	19-Sep-06	< 0.005	< 0.0025	676		5.7	< 0.01	< 0.001	0.0213	< 0.03	0.067
SRK05-09	30-May-07	< 0.002	< 0.001	376		0.9	< 0.01	< 0.0004	0.0139	< 0.03	0.0093
SRK05-09	12-Oct-07	< 0.005	< 0.0025	895		3.7	< 0.01	< 0.001	0.0333	< 0.005	< 0.005
	Total # samples	18	16	17		16	18	18	18	18	18
	MEAN	0.0026	0.0013	995.24		3.94	0.007	0.0005	0.0245	0.012	0.029
	Median	0.0025	0.00125	916.0		3.3	0.005	0.0005	0.02225	0.015	0.0221
	STD	0.0010	0.0005	451.45		2.47	0.006	0.0002	0.00996	0.0062	0.0236
	MINIMUM	< 0.002	< 0.001	376		0.8	< 0.01	< 0.0004	0.0139	< 0.005	< 0.005
	MAXIMUM	< 0.01	< 0.005	1760		8.4	< 0.05	< 0.002	0.0468	< 0.05	0.091
	5th Percentile	0.001	0.0005	430.40		0.88	0.005	0.0002	0.014155	0.0025	0.0076
	25th Percentile	0.0025	0.00125	664.0		1.95	0.005	0.0005	0.016	0.0075	0.013275
	75th Percentile	0.0025	0.00125	1400		5.82	0.005	0.0005	0.031825	0.015	0.036275
	95th Percentile	0.005	0.0025	1712.0		7.73	0.025	0.001	0.0409	0.016	0.0706
<b>Intermediate Impoundment Non-Impacted</b>											
P03-08-01	05-May-05	< 0.001		36.1		4.5	< 0.1	< 0.0002	0.00348	< 0.06	< 0.01
P03-08-01	09-Sep-05	< 0.001		21		5	< 0.05	< 0.0002	0.00317	< 0.03	0.0057
P03-08-01	06-Jun-06	< 0.001	< 0.0005	29.2		6.3	< 0.01	< 0.0002	0.00344	< 0.03	< 0.005
P03-08-01	19-Sep-06	< 0.001	< 0.0005	35.9			< 0.01	< 0.0002	0.00342	< 0.03	0.007
P03-08-01	29-May-07	< 0.001	< 0.0005	53.6		6	< 0.01	< 0.0002	0.00405	< 0.03	0.0055
P03-08-01	03-Oct-07	< 0.001	< 0.0005	32.9		3.5	< 0.01	< 0.0002	0.00345	< 0.001	0.005
	Total # samples	6	4	6		5	6	6	6	6	6
	MEAN	0.0005	0.0003	34.78		5.06	0.016	0.0001	0.0035	0.015	0.005
	Median	0.0005	0.00025	34.4		5.0	0.005	1E-04	0.003445	0.015	0.005
	STD	0.0000	0.0000	10.79		1.14	0.019	1.879E-12	0.00029	0.0093	0.0015
	MINIMUM	< 0.001	< 0.0005	21		3.5	< 0.01	< 0.0002	0.00317	< 0.001	< 0.005
	MAXIMUM	< 0.001	< 0.0005	53.6		6.3	< 0.1	< 0.0002	0.00405	< 0.06	< 0.01
	5th Percentile	0.0005	0.00025	23.05		3.70	0.005	1E-04	0.0032325	0.004125	0.003125
	25th Percentile	0.0005	0.00025	30.1		4.50	0.005	1E-04	0.003425	0.015	0.005
	75th Percentile	0.0005	0.00025	36.05		6.00	0.02	1E-04	0.0034725	0.015	0.006
	95th Percentile	0.0005	0.0003	49.2		6.24	0.044	0.0001	0.0039	0.026	0.0067
<b>Intermediate Impoundment Slightly Impacted</b>											
P03-08-02	05-May-05	< 0.001		138		6.2	< 0.1	< 0.0002	0.00303	< 0.06	< 0.01
P03-08-02	23-Jul-05	< 0.001		94.2		8.6	< 0.05	< 0.0002	0.00262	< 0.03	< 0.005
P03-08-02	09-Sep-05	< 0.001		75.1		4.8	< 0.05	< 0.0002	0.00254	< 0.03	0.0072
P03-08-02	01-Nov-05	< 0.2	< 0.03	83.2	0.281	3.2	< 0.01	< 0.2		< 0.03	0.0053
P03-08-02	06-Jun-06	< 0.001	< 0.0005	106		6.1	< 0.01	< 0.0002	0.00281	< 0.03	0.0062
P03-08-02	02-Aug-06	< 0.001	< 0.0005	70.2		6.2	< 0.01	< 0.0002	0.00259	< 0.03	0.0059
P03-08-02	19-Sep-06	< 0.001	< 0.0005	76.7		5.8	< 0.01	< 0.0002	0.00259	< 0.03	0.0077
P03-08-02	01-Nov-06	< 0.005	< 0.0025	91.2		2.1	< 0.02	< 0.001	0.0028	< 0.06	0.0097
P03-08-02	29-May-07	< 0.001	< 0.0005	118		6.3	< 0.01	< 0.0002	0.00351	< 0.03	0.148
P03-08-02	02-Aug-07	< 0.001	< 0.0005	68.9		11.6	< 0.01	< 0.0002	0.00259	< 0.03	0.0084
P03-08-02	05-Nov-07	< 0.001	< 0.0005	60.8		2.7	< 0.01	< 0.0002	0.00293	< 0.001	0.0062

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-08-03	05-May-05	< 0.00005	< 0.01	257	< 0.001	0.116	< 0.2	< 0.01	113	0.00009	< 0.0005	700		< 0.0005	0.0022
P03-08-03	23-Jul-05	< 0.0001	0.036	255	< 0.002	0.141	< 0.1	< 0.005	117	0.0005	< 0.001	646	769	< 0.001	0.0042
P03-08-03	09-Sep-05	< 0.0001	< 0.02	282	< 0.002	0.146	< 0.1	< 0.005	132	0.00027	< 0.001	514	764	< 0.001	0.0037
P03-08-03	01-Nov-05	< 0.01	< 0.2	292	< 0.2	0.124	< 0.1	< 0.005	112	< 0.01	< 0.01	588	758	< 0.01	< 0.01
P03-08-03	06-Jun-06	< 0.00004	0.018	296	0.0012	0.136	< 0.1	< 0.002	102	0.000226	< 0.0006	420.6	708	< 0.002	0.0027
P03-08-03	02-Aug-06	< 0.00004	< 0.01	228	< 0.001	0.196	< 0.1	< 0.002	85.3	0.000119	0.00061	339	530	< 0.002	0.0026
P03-08-03	19-Sep-06	< 0.00004	< 0.01	289	< 0.001	0.14	< 0.1	< 0.002	110	0.000096	< 0.0006	530	720	< 0.002	0.0024
P03-08-03	01-Nov-06	< 0.0001	< 0.025	302	< 0.0025	0.136	< 0.2	< 0.005	117	0.00022	< 0.0015	730	741	< 0.005	< 0.005
P03-08-03	29-May-07	< 0.00004	< 0.01	282	< 0.001	0.106	< 0.1	< 0.002	109	0.000299	< 0.0006	732	686	< 0.002	0.0042
P03-08-03	02-Aug-07	< 0.00002	0.0056	284	< 0.0005	0.1	< 0.1	< 0.001	101	0.000288	< 0.0003	726	747	< 0.001	0.0039
P03-08-03	03-Oct-07	< 0.00004	0.011	285	< 0.001	0.144	< 0.1	< 0.002	119	0.000247	< 0.0006	753	763	< 0.002	0.0028
P03-08-03	05-Nov-07	< 0.00004	< 0.01	312	< 0.001	0.144	< 0.1	< 0.002	116	0.000372	< 0.0006	756	791	< 0.002	0.0047
P03-08-04	05-May-05	< 0.00025	< 0.05	309	< 0.005	< 0.04	< 0.2	< 0.01	221	< 0.00025	< 0.0025	1517		< 0.0025	< 0.005
P03-08-04	23-Jul-05	< 0.00025	< 0.05	282	0.0067	0.025	< 0.1	< 0.005	234	< 0.00025	< 0.0025	1316	1570	< 0.0025	< 0.005
P03-08-04	09-Sep-05	< 0.00025	< 0.05	316	0.0053	0.035	< 0.1	< 0.005	253	< 0.00025	< 0.0025	1007	1490	< 0.0025	< 0.005
P03-08-04	01-Nov-05	< 0.01	< 0.2	312	< 0.2	0.029	< 0.1	< 0.005	200	< 0.01	< 0.01	855	1400	< 0.01	< 0.01
P03-08-04	06-Jun-06	< 0.00004	0.028	326	0.006	0.035	< 0.1	< 0.002	187	< 0.000034	0.00067	598	1320	< 0.002	< 0.002
P03-08-04	02-Aug-06	< 0.00004	0.015	292	0.004	0.039	< 0.1	< 0.002	198	< 0.000034	< 0.0006	646	1290	< 0.002	< 0.002
P03-08-04	19-Sep-06	< 0.00004	< 0.01	306	0.0047	0.045	< 0.1	< 0.002	201	< 0.000034	< 0.0006	985	1270	< 0.002	< 0.002
P03-08-04	01-Nov-06	< 0.0001	< 0.025	297	< 0.0025	< 0.04	< 0.2	< 0.005	187	< 0.000085	< 0.0015	1220	1210	< 0.005	< 0.005
P03-08-04	29-May-07	< 0.00004	< 0.01	265	0.0056	0.031	< 0.1	< 0.002	168	< 0.000034	0.00062	1131	1110	< 0.002	< 0.002
P03-08-04	02-Aug-07	< 0.00004	0.017	285	0.001	0.025	< 0.1	< 0.002	150	< 0.000034	< 0.0006	1107	1090	< 0.002	< 0.002
P03-08-04	03-Oct-07	< 0.0001	< 0.025	323	0.0045	0.034	< 0.1	< 0.005	201	< 0.000085	< 0.0015	1323	1300	< 0.005	< 0.005
P03-08-04	05-Nov-07	< 0.00004	< 0.01	310	0.0024	0.038	< 0.1	< 0.002	185	< 0.000034	< 0.0006	1319	1280	< 0.002	< 0.002
P03-08-08	05-May-05	< 0.0001	< 0.02	128	< 0.002	0.023	< 0.1	< 0.005	21.5	< 0.0001	0.002	615		< 0.001	< 0.002
P03-08-08	10-Sep-05	< 0.0001	< 0.02	123	0.0034	0.038	< 0.1	< 0.005	20.9	< 0.0001	0.0019	540	582	< 0.001	< 0.002
P03-08-08	06-Jun-06	< 0.00002	0.013	123	0.0028	0.025	< 0.1	< 0.001	17.7	0.000038	0.00144	470.2	515	< 0.001	< 0.001
P03-08-08	20-Sep-06	< 0.00002	< 0.005	121	0.00103	0.022	< 0.1	< 0.001	18.4	0.000037	0.00132	420.5	494	< 0.001	< 0.001
P03-08-08	29-May-07	< 0.00002	0.006	110	0.00148	< 0.02	< 0.1	< 0.001	17.3	< 0.000017	0.00145	506	479	< 0.001	< 0.001
P03-08-08	03-Oct-07	< 0.00002	0.0179	121	0.00088	0.024	< 0.1	< 0.001	16.9	< 0.000017	0.00131	448	480	< 0.001	< 0.001
	Total # samples	41	41	41	41	41	41	41	41	41	41	41	37	41	41
	MEAN	0.00040	0.0197	257.1	0.0089	0.108	0.057	0.002	117.83	0.00049	0.00105	712.7	831.4	0.001	0.003
	Median	0.00002	0.01	282	0.001	0.116	0.05	0.001	110	0.000122	0.00066	615	720	0.001	0.0025
	STD	0.00131	0.0270	62.5	0.0260	0.0779	0.018	0.0013	62.7	0.001289	0.00121	305.0	331.3	0.00124	0.0015
	MINIMUM	< 0.00002	< 0.005	110	< 0.0005	< 0.02	< 0.1	< 0.001	16.9	< 0.000017	< 0.0003	277	479	< 0.0005	< 0.001
	MAXIMUM	< 0.01	< 0.2	326	< 0.2	0.257	< 0.2	< 0.01	253	< 0.01	< 0.01	1517	1570	< 0.01	< 0.01
	5th Percentile	1E-05	0.005	121.0	0.00025	0.02	0.05	0.0005	17.70	1.7E-05	0.0003	413.9	491.2	0.00025	0.0005
	25th Percentile	1E-05	0.005	246	0.0005	0.03	0.05	0.0005	83	4.25E-05	0.0003	514	576	0.0005	0.001
	75th Percentile	5E-05	0.018	296	0.0034	0.176	0.050	0.0025	168	0.000226	0.00125	756	1110	0.001	0.0031
	95th Percentile	0.00500	0.1000	316.0	0.100	0.216	0.100	0.005	221.00	0.00500	0.00500	1319	1418	0.005	0.005
<b>Intermediate Impoundment</b>															
<b>Moderately Impacted</b>															
P03-08-05	05-May-05	< 0.00025	< 0.05	168	0.0076	< 0.04	< 0.2	< 0.01	410	< 0.00025	< 0.0025	2460		< 0.0025	< 0.005
P03-08-05	23-Jul-05	< 0.00025	< 0.05	176	0.0059	< 0.02	< 0.1	< 0.005	321	< 0.00025	< 0.0025	1930	2410	< 0.0025	< 0.005
P03-08-05	09-Sep-05	< 0.00025	0.071	246	< 0.005	< 0.02	< 0.1	< 0.005	357	< 0.00025	< 0.0025	1414	2360	0.0028	< 0.005
P03-08-05	01-Nov-05	< 0.01	< 0.2	247	< 0.2	0.013	< 0.1	< 0.005	314	< 0.01	< 0.01		2370	< 0.01	< 0.01
P03-08-05	06-Jun-06	< 0.0001	0.027	260	0.0051	< 0.02	< 0.1	< 0.005	299	< 0.000085	< 0.0015	1069	2220	< 0.005	< 0.005
P03-08-05	02-Aug-06	< 0.0001	< 0.025	241	< 0.0025	< 0.02	< 0.1	< 0.005	310	< 0.000085	< 0.0015	1873	2190	< 0.005	< 0.005

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-08-03	05-May-05	0.064	395	< 0.0002		< 0.1	27.3	5.87	0.0043	11.9	0.0201	< 0.001	7.04	8.01	< 0.0005
P03-08-03	23-Jul-05	0.055	416	< 0.0002		< 0.05	30.2	7.52	0.0053	13.4	0.028	0.0094	6.8	7.76	< 0.001
P03-08-03	09-Sep-05	0.087	462	< 0.0002		< 0.05	32.5	7.44	0.0047	15	0.025	< 0.002	7.35	7.87	< 0.001
P03-08-03	01-Nov-05	0.056	393		< 2	< 0.01	27.4	6.17	< 0.03	11.5	< 0.05	< 0.05	7.18	7.89	< 0.2
P03-08-03	06-Jun-06	0.104		< 0.00002	< 2	< 0.01	26.9	5.88	0.0044	12.2	0.0254	0.0104	6.68	7.96	0.0012
P03-08-03	02-Aug-06	0.03		< 0.00002	< 2	< 0.01	23	3.88	< 0.002	7.9	0.0194	< 0.001	7.22	7.95	< 0.001
P03-08-03	19-Sep-06	0.136		< 0.00002	< 2	< 0.01	28.6	6.68	0.004	11.6	0.0231	< 0.001	6.97	7.93	< 0.001
P03-08-03	01-Nov-06	0.088		< 0.00002	< 4	< 0.025	28.7	6.68	< 0.005	13	0.0265	< 0.0025	7.4	7.64	< 0.0025
P03-08-03	29-May-07	0.073		< 0.00002	< 2	< 0.01	26.5	6	0.0047	9.5	0.0245	< 0.001	7.28	8.07	< 0.001
P03-08-03	02-Aug-07	0.104	351	< 0.00002	< 2	< 0.005	24.3	5.87	0.0041	10.9	0.0226	< 0.0005	7.38	8	< 0.0005
P03-08-03	03-Oct-07	0.136		< 0.00002	2.3	< 0.01	29.6	5.75	0.0037	11.7	0.0213	< 0.001	7.76	7.91	< 0.001
P03-08-03	05-Nov-07	0.051	421	< 0.00005	2.2	< 0.01	31.9	6.96	0.0042	13.9	0.0259	< 0.001	7.77	7.97	< 0.001
P03-08-04	05-May-05	19.9	770	< 0.0002		< 0.1	52.8	2.99	0.0133	46.8	< 0.025	< 0.005	6.82	7.82	< 0.0025
P03-08-04	23-Jul-05	25.3	825	< 0.0002		< 0.05	58.4	3.57	0.012	55.5	< 0.025	< 0.005	7.13	7.32	0.006
P03-08-04	09-Sep-05	33.3	889	< 0.0002		< 0.05	62.4	3.23	0.0142	52	< 0.025	< 0.005	7.28	7.46	< 0.0025
P03-08-04	01-Nov-05	31.7	691		3.8	0.015	46.7	2.79	< 0.03	41.8	< 0.05	< 0.05	7.17	7.58	< 0.2
P03-08-04	06-Jun-06	28		< 0.00002	2.8	< 0.01	44.8	2.66	0.0121	40.5	< 0.002	0.0024	6.59	7.76	0.0018
P03-08-04	02-Aug-06	38.9		< 0.00002	3	< 0.01	49.5	2.89	0.0105	45.5	< 0.002	< 0.001	6.95	7.74	< 0.001
P03-08-04	19-Sep-06	38.7		< 0.00002	3.1	< 0.01	48.9	3.13	0.0104	47.7	< 0.002	< 0.001	6.8	7.64	< 0.001
P03-08-04	01-Nov-06	34.6		< 0.00002	< 4	< 0.025	45.9	2.82	0.0099	40.8	< 0.005	< 0.0025	7.4	7.44	< 0.0025
P03-08-04	29-May-07	27.4		< 0.00002	2.6	< 0.01	41.6	2.54	0.0108	32.5	< 0.002	0.0023	7.16	7.77	0.0014
P03-08-04	02-Aug-07	26.6	533	< 0.00002	2.5	< 0.01	38.4	2.23	0.0089	32.3	< 0.002	< 0.001	7.35	7.98	< 0.001
P03-08-04	03-Oct-07	39.8		< 0.00002	3.5	< 0.025	47.9	2.89	0.0086	42.7	< 0.005	< 0.0025	7	7.38	< 0.0025
P03-08-04	05-Nov-07	38.3	673	< 0.00005	3.3	< 0.01	51.4	2.94	0.0088	42.4	< 0.002	0.0031	7.66	7.77	< 0.001
P03-08-08	05-May-05	0.046	100	< 0.0002		< 0.05	11.3	0.036	0.0429	103	< 0.01	0.0036	8.1	8.35	< 0.001
P03-08-08	10-Sep-05	0.045	90.8	< 0.0002		< 0.05	9.39	0.048	0.0425	89.2	< 0.01	0.0074	8.84	7.99	0.0064
P03-08-08	06-Jun-06	< 0.03		< 0.00002	8.7	0.0136	8.53	0.0313	0.0375	71.1	< 0.001	0.044	7.67	7.98	0.0118
P03-08-08	20-Sep-06	< 0.03		< 0.00002	10.1	0.014	9.17	0.035	0.0339	75.1	< 0.001	0.00094	7.14	7.74	0.00147
P03-08-08	29-May-07	< 0.03		< 0.00002	9.5	0.0146	7.99	0.0362	0.0339	58	< 0.001	0.00563	7.41	7.87	0.00429
P03-08-08	03-Oct-07	0.062		< 0.00002	12.5	0.014	8.07	0.0353	0.0326	63.6	< 0.001	0.00176	8.98	8.09	0.00054
	Total # samples	41	20	38	30	41	41	41	41	41	41	41	41	41	41
	MEAN	9.373	449.99	0.000037	2.96	0.014	30.34	3.783	0.0107	30.00	0.0148	0.0046	7.26	7.81	0.0086
	Median	0.087	402	1E-05	2.00	0.005	27.30	3.88	0.0053	13.90	0.019	0.00125	7.2	7.9	0.0005
	STD	15.0	219.2	4.07977E-05	3.07	0.0132	14.19	2.133	0.0122	25.33	0.0102	0.0091	0.51	0.26	0.0261
	MINIMUM	< 0.03	90.8	< 0.00002	< 2	< 0.005	7.99	0.0313	< 0.001	7	< 0.001	< 0.0005	6.35	6.97	< 0.0005
	MAXIMUM	39.8	889	< 0.0002	12.5	< 0.1	62.4	7.52	0.0429	103	< 0.05	< 0.05	8.98	8.35	< 0.2
	5th Percentile	0.0150	99.5	1E-05	1.00	0.0025	8.53	0.035	0.0005	7.90	0.0005	0.00025	6.68	7.36	0.00025
	25th Percentile	0.037	319.5	1E-05	1.00	0.005	23.00	2.820	0.0025	10.60	0.0025	0.0005	6.97	7.74	0.00025
	75th Percentile	25.3000	568	1E-04	3.08	0.025	41.60	5.75	0.0133	45.50	0.0245	0.0025	7.40	7.98	0.00125
	95th Percentile	38.70	828	1E-04	9.83	0.050	52.8	6.96	0.038	75.10	0.0259	0.0250	8.10	8.07	0.1000
<b>Intermediate Impoundment</b>															
<b>Moderately Impacted</b>															
P03-08-05	05-May-05	29.9	1260	< 0.0002		< 0.1	56.6	4.87	0.0065	169	< 0.025	0.0052	7.06	7.59	0.0057
P03-08-05	23-Jul-05	26.9	1020	< 0.0002		< 0.05	52.8	4.61	0.0058	135	< 0.025	< 0.005	7.03	7.24	0.0055
P03-08-05	09-Sep-05	60.4	1240	< 0.0002		< 0.05	84.2	7.07	< 0.005	158	< 0.025	0.0104	7.21	7.35	< 0.0025
P03-08-05	01-Nov-05	51.1	1120		13.8	0.03	81.6	6.87	< 0.03	130	< 0.05	< 0.05		7.4	< 0.2
P03-08-05	06-Jun-06	43.7		< 0.00002	13.9	< 0.025	72.9	5.88	< 0.005	145	< 0.005	0.0069	6.83	7.67	0.0034
P03-08-05	02-Aug-06	52.4		< 0.00002	13.5	< 0.025	84.5	7.32	< 0.005	126	< 0.005	< 0.0025	6.97	7.74	< 0.0025



**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-08-03	05-May-05	< 0.001		130		4.8	< 0.1	< 0.0002	0.00387	< 0.06	< 0.01
P03-08-03	23-Jul-05	< 0.002		144		5.4	< 0.05	< 0.0004	0.00442	< 0.03	< 0.005
P03-08-03	09-Sep-05	< 0.002		142		4.7	< 0.05	< 0.0004	0.00435	< 0.03	0.0073
P03-08-03	01-Nov-05	< 0.2	< 0.03	136	0.369	3.7	< 0.01	< 0.2		< 0.03	0.0072
P03-08-03	06-Jun-06	< 0.002	< 0.001	125		5.9	< 0.01	< 0.0004	0.00423	< 0.03	0.0075
P03-08-03	02-Aug-06	< 0.002	< 0.001	67.7		5.4	< 0.01	< 0.0004	0.00256	< 0.03	0.0066
P03-08-03	19-Sep-06	< 0.002	< 0.001	153		5.3	< 0.01	< 0.0004	0.00425	< 0.03	0.019
P03-08-03	01-Nov-06	< 0.005	< 0.0025	153		1.4	< 0.02	< 0.001	0.0045	< 0.06	0.014
P03-08-03	29-May-07	< 0.002	< 0.001	123		5.3	< 0.01	< 0.0004	0.00432	< 0.03	< 0.01
P03-08-03	02-Aug-07	< 0.001	< 0.0005	144		10.7	< 0.01	< 0.0002	0.00391	< 0.03	0.006
P03-08-03	03-Oct-07	< 0.002	< 0.001	148		3.8	< 0.01	< 0.0004	0.004	< 0.002	0.0084
P03-08-03	05-Nov-07	< 0.002	< 0.001	161		2.7	< 0.01	< 0.0004	0.00416	< 0.002	0.0073
P03-08-04	05-May-05	< 0.005		532		6.6	< 0.1	< 0.001	0.0041	< 0.06	0.013
P03-08-04	23-Jul-05	< 0.005		620		8.4	< 0.05	< 0.001	0.0062	< 0.03	0.0195
P03-08-04	09-Sep-05	< 0.005		538		8.2	< 0.05	< 0.001	0.007	< 0.03	0.0143
P03-08-04	01-Nov-05	< 0.2	< 0.03	461	0.47	4.5	< 0.01	< 0.2		< 0.03	0.0123
P03-08-04	06-Jun-06	< 0.002	< 0.001	437		7.4	< 0.01	< 0.0004	0.00732	< 0.03	0.0202
P03-08-04	02-Aug-06	< 0.002	< 0.001	431		6.7	< 0.01	< 0.0004	0.00767	< 0.03	0.013
P03-08-04	19-Sep-06	< 0.002	< 0.001	458		6.1	< 0.01	< 0.0004	0.00822	< 0.03	0.023
P03-08-04	01-Nov-06	< 0.005	< 0.0025	434		1.5	< 0.02	< 0.001	0.0075	< 0.06	0.011
P03-08-04	29-May-07	< 0.002	< 0.001	357		9.1	< 0.01	< 0.0004	0.00691	< 0.03	< 0.01
P03-08-04	02-Aug-07	< 0.002	< 0.001	330		14.9	< 0.01	< 0.0004	0.00604	< 0.03	< 0.005
P03-08-04	03-Oct-07	< 0.005	< 0.0025	369		3.8	< 0.01	< 0.001	0.0081	< 0.005	0.0159
P03-08-04	05-Nov-07	< 0.002	< 0.001	415		2.5	< 0.01	< 0.0004	0.00752	< 0.002	0.01
P03-08-08	05-May-05	< 0.002		143		7.5	< 0.05	< 0.0004	< 0.0004	< 0.03	0.0084
P03-08-08	10-Sep-05	< 0.002		150		8.5	< 0.05	< 0.0004	< 0.0004	< 0.03	0.0395
P03-08-08	06-Jun-06	< 0.001	< 0.0005	126		11.9	< 0.01	< 0.0002	< 0.0002	< 0.03	0.0066
P03-08-08	20-Sep-06	< 0.001	< 0.0005	114		5.8	< 0.01	< 0.0002	< 0.0002	< 0.03	0.0057
P03-08-08	29-May-07	< 0.001	< 0.0005	118		7.3	< 0.01	< 0.0002	< 0.0002	< 0.03	0.0082
P03-08-08	03-Oct-07	< 0.001	< 0.0005	97		3.6	< 0.01	< 0.0002	< 0.0002	< 0.001	0.0072
	Total # samples	41	30	41	3	41	41	41	38	41	41
	MEAN	0.0083	0.0020	213.15	0.373	6.02	0.013	0.0075	0.0039	0.015	0.013
	Median	0.001	0.0005	142.0	0.369	5.8	0.005	0.0002	0.003955	0.015	0.008
	STD	0.0261	0.0044	161.37	0.095	2.90	0.013	0.0263	0.00243	0.0079	0.0226
	MINIMUM	< 0.001	< 0.0005	60.8	0.281	1.4	< 0.01	< 0.0002	< 0.0002	< 0.001	< 0.005
	MAXIMUM	< 0.2	< 0.03	620	0.47	14.9	< 0.1	< 0.2	0.00822	< 0.06	0.148
	5th Percentile	0.0005	0.00025	68.90	0.290	2.10	0.005	1E-04	1E-04	0.001	0.0025
	25th Percentile	0.0005	0.00025	106.0	0.32	3.80	0.005	1E-04	0.00259	0.015	0.006
	75th Percentile	0.001	0.0005	357	0.4195	7.40	0.025	0.0002	0.005655	0.015	0.013
	95th Percentile	0.1000	0.015	532.0	0.460	11.60	0.050	0.1000	0.0077	0.030	0.0230
<b>Intermediate Impoundment</b>											
<b>Moderately Impacted</b>											
P03-08-05	05-May-05	< 0.005		1360		5.7	< 0.1	< 0.001	0.0013	< 0.06	0.015
P03-08-05	23-Jul-05	< 0.005		1330		6.5	< 0.05	< 0.001	0.0013	< 0.03	0.015
P03-08-05	09-Sep-05	< 0.005		1160		10	< 0.05	< 0.001	0.0017	< 0.05	0.0224
P03-08-05	01-Nov-05	< 0.2	< 0.03	1150	0.674		< 0.01	< 0.2		< 0.03	0.0149
P03-08-05	06-Jun-06	< 0.005	< 0.0025	1050		9.7	< 0.01	< 0.001	0.001	< 0.03	0.015
P03-08-05	02-Aug-06	< 0.005	< 0.0025	1100		7.3	< 0.01	< 0.001	0.0013	< 0.03	0.0201

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-08-05	19-Sep-06	< 0.0001	0.038	288	0.0047	0.032	< 0.1	< 0.005	298	< 0.000085	< 0.0015	1462	2150	< 0.005	< 0.005
P03-08-05	01-Nov-06	< 0.0002	< 0.05	284	< 0.005	< 0.04	< 0.2	< 0.01	305	< 0.00017	< 0.003	2350	2150	< 0.01	< 0.01
P03-08-05	29-May-07	< 0.0001	0.026	278	< 0.0025	0.025	< 0.1	< 0.005	279	< 0.000085	< 0.0015	2380	2140	< 0.005	< 0.005
P03-08-05	02-Aug-07	< 0.0001	0.028	285	< 0.0025	< 0.02	< 0.1	< 0.005	268	< 0.000085	< 0.0015	2183	2150	< 0.005	< 0.005
P03-08-05	03-Oct-07	< 0.0002	< 0.05	287	0.0087	0.021	< 0.1	< 0.01	294	< 0.00017	< 0.003	2226	2130	< 0.01	< 0.01
P03-08-05	05-Nov-07	< 0.0001	0.028	288	< 0.0025	< 0.02	< 0.1	< 0.005	286	< 0.000085	< 0.0015	2216	2150	< 0.005	< 0.005
P03-08-06	05-May-05	< 0.00025	< 0.05	44.1	< 0.005	< 0.02	< 0.1	< 0.005	324	< 0.00025	0.0035	2420		< 0.0025	< 0.005
P03-08-06	09-Sep-05	< 0.0005	< 0.1	20.3	< 0.01	< 0.02	< 0.1	< 0.005	445	< 0.0005	< 0.005	1497	2340	< 0.005	< 0.01
P03-08-06	01-Nov-05	< 0.01	< 0.2		< 0.2	< 0.01	< 0.1	< 0.005	398	< 0.01	< 0.01	815		< 0.01	< 0.01
P03-08-06	06-Jun-06	< 0.0001	0.039	29.3	< 0.0025	< 0.02	< 0.1	< 0.005	388	< 0.000085	0.003	1092	2240	< 0.005	< 0.005
P03-08-06	19-Sep-06	< 0.0001	< 0.025	21.6	< 0.0025	< 0.02	< 0.1	< 0.005	363	< 0.000085	0.0028	1495	2200	< 0.005	< 0.005
P03-08-06	29-May-07	< 0.0001	0.028	26.6	0.003	< 0.02	< 0.1	< 0.005	353	< 0.000085	0.0031	2240	2110	< 0.005	< 0.005
P03-08-07	05-May-05	< 0.00025	< 0.05	54.2	< 0.005	< 0.02	< 0.1	< 0.005	291	< 0.00025	0.005	2370		< 0.0025	< 0.005
P03-08-07	09-Sep-05	< 0.0005	< 0.1	56.4	< 0.01	< 0.02	< 0.1	< 0.005	497	< 0.0005	< 0.005		2400	< 0.005	< 0.01
P03-08-07	06-Jun-06	< 0.0001	< 0.025	48.7	0.0033	< 0.02	< 0.1	< 0.005	307	< 0.000085	0.0043	1180	1800	< 0.005	< 0.005
P03-08-07	20-Sep-06	< 0.00004	< 0.01	34.7	< 0.001	< 0.02	< 0.1	< 0.002	216	< 0.000034	0.00378	1137	1550	< 0.002	< 0.002
P03-08-07	29-May-07	< 0.00004	< 0.01	43.1	< 0.001	< 0.02	< 0.1	< 0.002	141	< 0.000034	0.00361	1364	1220	< 0.002	< 0.002
P03-08-07	03-Oct-07	< 0.0001	< 0.025	40.7	< 0.0025	< 0.02	< 0.1	< 0.005	137	0.000133	0.0033	1230	1250	< 0.005	< 0.005
X21B-96	10-May-05	< 0.00025	< 0.05	165	< 0.005	< 0.06	< 0.3	< 0.015	179	< 0.00025	0.0074	823	1280	< 0.0025	< 0.005
X21B-96	11-Sep-05	< 0.00025	0.077	75.1	< 0.005	0.03	< 0.1	< 0.005	253	< 0.00025	0.0342	1423	1800	< 0.0025	< 0.005
X21B-96	13-Jun-06	< 0.0001	< 0.025	165	0.0049	0.022	< 0.1	< 0.005	192	< 0.000085	0.0076	1416	1360	< 0.005	< 0.005
X21B-96	23-Sep-06	< 0.00025	< 0.05	28	0.0056	0.024	< 0.1	< 0.005	226	< 0.00025	0.032	2010	1830	< 0.0025	< 0.005
X21B-96	01-Jun-07	< 0.0001	< 0.025	120	0.0116	0.022	< 0.1	< 0.005	260	< 0.000085	0.0101	1692	1470	< 0.005	< 0.005
X21B-96	10-Oct-07	< 0.0001	< 0.025	165	0.0065	0.021	< 0.1	< 0.005	274	0.000111	0.0117	1676	1780	< 0.005	< 0.005
	Total # samples	30	30	29	30	30	30	30	30	30	30	28	26	30	30
	MEAN	0.00041	0.0320	144.3	0.0101	0.015	0.057	0.003	299.50	0.00042	0.00539	1694.4	1963.5	0.002	0.003
	Median	5E-05	0.025	165	0.00275	0.01	0.05	0.0025	298.5	8.5E-05	0.00305	1586.5	2145	0.0025	0.0025
	STD	0.00125	0.0250	105.2	0.0246	0.0076	0.022	0.0012	82.6	0.001248	0.00803	519.9	386.6	0.00118	0.0011
	MINIMUM	< 0.00004	< 0.01	20.3	< 0.001	< 0.01	< 0.1	< 0.002	137	< 0.000034	< 0.0015	815	1220	< 0.002	< 0.002
	MAXIMUM	< 0.01	< 0.2	288	< 0.2	< 0.06	< 0.3	< 0.015	497	< 0.01	0.0342	2460	2410	< 0.01	< 0.01
	5th Percentile	3.35E-05	0.008375	23.60	0.0008375	0.01	0.05	0.001675	158.10	2.8475E-05	0.00075	909.1	1257.5	0.001125	0.001675
	25th Percentile	5E-05	0.0125	43.1	0.00125	0.01	0.05	0.0025	262	4.25E-05	0.00125	1330.5	1785	0.00125	0.0025
	75th Percentile	0.000125	0.0355	247	0.005475	0.021	0.050	0.0025	345.75	0.000125	0.005	2218.5	2215	0.0025	0.0025
	95th Percentile	0.00286	0.0896	287.6	0.060	0.030	0.100	0.005	429.25	0.00286	0.02286	2406	2393	0.005	0.005
<b>Intermediate Impoundment Adversely Impacted</b>															
X21A-96	10-May-05	< 0.0005	< 0.1	17.4	< 0.01	< 0.06	< 0.3	< 0.015	134	< 0.0005	0.0336	1420	2830	< 0.005	< 0.01
X21A-96	11-Sep-05	< 0.0025	< 0.5	54.3	< 0.05	< 0.1	< 0.5	< 0.025	367	< 0.0025	< 0.025	2701	11700	< 0.025	< 0.05
X21A-96	13-Jun-06	< 0.0002	< 0.05	17.8	0.0053	< 0.02	< 0.1	< 0.01	101	< 0.00017	0.0142	3121	3040	< 0.01	< 0.01
X21A-96	23-Sep-06	< 0.005	< 1	12.8	< 0.1	< 0.2	< 1	< 0.05	329	< 0.005	< 0.05	3065	12500	< 0.05	< 0.1
X21A-96	01-Jun-07	< 0.002	< 0.5	15.5	< 0.05	< 0.2	< 1	< 0.1	367	< 0.0017	< 0.03	15380	9750	< 0.1	< 0.1
X21A-96	10-Oct-07	< 0.002	< 0.5	21.1	< 0.05	< 0.2	< 1	< 0.1	389	< 0.0017	< 0.03	1781	13800	< 0.1	< 0.1
	Total # samples	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	MEAN	0.00102	0.2208	23.15	0.0226	0.065	0.325	0.025	281.17	0.00096	0.01922	4578.0	8936.7	0.024	0.031
	Median	0.001	0.25	17.6	0.025	0.08	0.38	0.01875	348	0.00085	0.015	2883	10725	0.01875	0.0375
	STD	0.00086	0.1721	15.5	0.0166	0.0404	0.202	0.0206	128.7	0.000866	0.00832	5336.9	4831.3	0.02149	0.0222
	MINIMUM	< 0.0002	< 0.05	12.8	0.0053	< 0.02	< 0.1	< 0.01	101	< 0.00017	0.0142	1420	2830	< 0.005	< 0.01
	MAXIMUM	< 0.005	< 1	54.3	< 0.1	< 0.2	< 1	< 0.1	389	< 0.005	< 0.05	15380	13800	< 0.1	< 0.1

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-08-05	19-Sep-06	54		< 0.00002	15.3	< 0.025	80.7	7.55	< 0.005	126	< 0.005	0.0111	6.93	7.54	< 0.0025
P03-08-05	01-Nov-06	61.1		< 0.00002	15.9	< 0.05	80	7.25	< 0.01	137	< 0.01	< 0.005	7.5	7.3	< 0.005
P03-08-05	29-May-07	48.1		< 0.00002	13.1	< 0.025	76	6.78	< 0.005	109	< 0.005	0.0148	7.26	7.69	< 0.0025
P03-08-05	02-Aug-07	52.9	944	< 0.00002	12.9	< 0.025	66.8	5.95	< 0.005	117	< 0.005	< 0.0025	7.34	7.74	< 0.0025
P03-08-05	03-Oct-07	58.2		< 0.00002	14.5	< 0.05	71.8	6.02	< 0.01	118	< 0.01	0.0131	7.52	7.4	0.0054
P03-08-05	05-Nov-07	60.1	1050	< 0.00005	15.7	< 0.025	80.8	6.33	< 0.005	143	< 0.005	0.0047	7.9	7.69	< 0.0025
P03-08-06	05-May-05	0.346	850	< 0.0002		< 0.05	10.1	0.597	0.0067	91.5	< 0.025	0.0227	7.11	7.39	0.0108
P03-08-06	09-Sep-05	2.16	1170	< 0.0002		0.054	13.4	0.679	< 0.01	146	< 0.05	< 0.01	7.2	7.14	< 0.005
P03-08-06	01-Nov-05	2.27	1040		12	0.072	11.9	0.573	< 0.03	156	< 0.05	< 0.05	7.16		< 0.2
P03-08-06	06-Jun-06	0.405		< 0.00002	10	0.048	10.5	0.542	0.0053	164	< 0.005	0.0227	6.92	7.49	0.0192
P03-08-06	19-Sep-06	1.89		< 0.00002	10.2	0.041	10.4	0.49	0.0057	162	< 0.005	0.0037	7.15	7.15	< 0.0025
P03-08-06	29-May-07	1.56		< 0.00002	8.7	0.049	8.71	0.445	0.006	133	< 0.005	0.0224	7.15	7.19	0.0097
P03-08-07	05-May-05	< 0.03	779	< 0.0002		< 0.05	12.5	0.677	0.0444	138	< 0.025	0.0103	7.35	7.55	0.0163
P03-08-07	09-Sep-05	1.28	1300	< 0.0002		< 0.05	14	1.08	0.042	165	< 0.05	< 0.01		7.44	< 0.005
P03-08-07	06-Jun-06	< 0.03		< 0.00002	4.9	< 0.025	7.86	0.75	0.0296	162	< 0.005	0.0267	7.01	7.69	0.0259
P03-08-07	20-Sep-06	0.811		< 0.00002	4.1	0.016	5.36	0.475	0.0331	157	< 0.002	0.0016	6.53	7.42	< 0.001
P03-08-07	29-May-07	0.561		< 0.00002	3.3	0.013	3.13	0.297	0.0295	127	< 0.002	< 0.001	7.37	7.46	< 0.001
P03-08-07	03-Oct-07	0.528		< 0.00002	4.3	< 0.025	3.07	0.296	0.0278	137	< 0.005	< 0.0025	8.68	7.39	< 0.0025
X21B-96	10-May-05	31.9	602	< 0.0002		< 0.15	37.6	13.4	< 0.005	65	< 0.025	< 0.005		7.63	< 0.0025
X21B-96	11-Sep-05	165	849	< 0.0002		< 0.05	52.6	20.9	< 0.005	60.1	0.026	< 0.005	6.44	6.69	< 0.0025
X21B-96	13-Jun-06	42.4		< 0.00002	3.5	< 0.025	41.4	14.2	< 0.005	69.8	0.0094	< 0.0025	6.97	7.37	< 0.0025
X21B-96	23-Sep-06	192		< 0.0002		< 0.05	51.8	29.9	< 0.005	69.6	0.026	< 0.005	6.8	6.47	< 0.0025
X21B-96	01-Jun-07	59.3		< 0.00002	4.6	< 0.025	50.9	21.8	< 0.005	69.4	0.0134	< 0.0025	6.87	7.12	< 0.0025
X21B-96	10-Oct-07	79.6		< 0.00002	4.5	< 0.025	55.2	27.6	< 0.005	63.4	0.0163	< 0.0025	6.97	6.73	< 0.0025
	Total # samples	30	13	28	20	30	30	30	30	30	30	30	27	29	30
	MEAN	39.361	1017.23	0.000043	9.94	0.027	42.97	7.040	0.0107	124.96	0.0102	0.0086	7.16	7.37	0.0109
	Median	37.150	1040	1E-05	11.10	0.025	51.35	5.92	0.005	134.00	0.007	0.00485	7.1	7.4	0.00125
	STD	46.1	207.1	4.35992E-05	4.71	0.0180	30.53	8.230	0.0128	34.74	0.0090	0.0088	0.43	0.32	0.0250
	MINIMUM	< 0.03	602	< 0.00002	3.3	0.013	3.07	0.296	< 0.005	60.1	< 0.002	< 0.001	6.44	6.47	< 0.001
	MAXIMUM	192	1300	< 0.0002	15.9	< 0.15	84.5	29.9	0.0444	169	< 0.05	< 0.05	8.68	7.74	< 0.2
	5th Percentile	0.1640	708.2	1E-05	3.49	0.0125	4.13	0.364	0.0025	64.12	0.001675	0.00125	6.61	6.71	0.0008375
	25th Percentile	1.350	850	1E-05	4.58	0.0125	10.85	0.617	0.0025	111.00	0.0025	0.001825	6.95	7.24	0.00125
	75th Percentile	57.1500	1170	1E-04	13.83	0.02875	72.63	7.30	0.012925	153.50	0.013175	0.0126	7.30	7.59	0.00565
	95th Percentile	126.6	1276	1E-04	15.71	0.064	83.0	24.99	0.038	164.55	0.0255	0.0250	7.79	7.72	0.0667
<b>Intermediate Impoundment Adversely Impacted</b>															
X21A-96	10-May-05	502	977	< 0.0002		< 0.15	156	30.4	< 0.01	94.2	< 0.05	0.014		5.74	< 0.005
X21A-96	11-Sep-05	3390	4830	< 0.0002		< 0.25	950	324	< 0.05	20	< 0.25	< 0.05	6.31	4.42	< 0.025
X21A-96	13-Jun-06	709		< 0.00002	7.6	< 0.05	171	45.8	< 0.01	86.4	< 0.01	0.0054	6.35	5.57	< 0.005
X21A-96	23-Sep-06	4900		< 0.0002		< 0.5	997	446	< 0.1	< 20	< 0.5	< 0.1	6.5	3.87	< 0.05
X21A-96	01-Jun-07	7110		0.000032	< 20	< 0.5	865	474	< 0.1	32	< 0.1	0.057	5.89	3.51	< 0.05
X21A-96	10-Oct-07	6600		< 0.00002	< 20	< 0.5	842	481	< 0.1	45	< 0.1	0.073	6.07	4.08	< 0.05
	Total # samples	6	2	6	3	6	6	6	6	6	6	6	5	6	6
	MEAN	3868.5	2903.50	5.86667E-05	9.20	0.163	663.50	300.20	0.0308	47.93	0.0842	0.0374	6.22	4.53	0.0154
	Median	4145	2903.5	6.6E-05	10	0.1875	853.5	385	0.0375	38.5	0.05	0.0375	6.3	4.2	0.01875
	STD	2849	2724.5	4.59855E-05	1.39	0.1009	391.38	210.8	0.0222	34.93	0.0909	0.0266	0.24	0.92	0.0111
	MINIMUM	502	977	< 0.00002	7.6	< 0.05	156	30.4	< 0.01	< 20	< 0.01	0.0054	5.89	3.51	< 0.005
	MAXIMUM	7110	4830	< 0.0002	< 20	< 0.5	997	481	< 0.1	94.2	< 0.5	< 0.1	6.5	5.74	< 0.05

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-08-05	19-Sep-06	< 0.005	< 0.0025	1070		6.5	< 0.01	< 0.001	0.0012	< 0.03	0.069
P03-08-05	01-Nov-06	< 0.01	< 0.005	1120		2.1	< 0.02	< 0.002	< 0.002	< 0.06	0.025
P03-08-05	29-May-07	< 0.005	< 0.0025	1040		8.4	< 0.01	< 0.001	0.001	< 0.03	< 0.025
P03-08-05	02-Aug-07	< 0.005	< 0.0025	951		13.3	< 0.01	< 0.001	< 0.001	< 0.03	< 0.005
P03-08-05	03-Oct-07	< 0.01	< 0.005	916		4.6	< 0.01	< 0.002	< 0.002	< 0.01	0.0182
P03-08-05	05-Nov-07	< 0.005	< 0.0025	987		2.4	< 0.01	< 0.001	< 0.001	< 0.005	0.0094
P03-08-06	05-May-05	< 0.005		1490		4.9	< 0.05	< 0.001	< 0.001	< 0.03	0.0244
P03-08-06	09-Sep-05	< 0.01		1340		11	< 0.05	< 0.002	< 0.002	< 0.03	0.0089
P03-08-06	01-Nov-05	< 0.2	< 0.03		0.121	4.5	< 0.01	< 0.2		< 0.03	0.0056
P03-08-06	06-Jun-06	< 0.005	< 0.0025	1220		8.9	< 0.01	< 0.001	< 0.001	< 0.03	0.035
P03-08-06	19-Sep-06	< 0.005	< 0.0025	1270		6.6	< 0.01	< 0.001	< 0.001	< 0.03	0.057
P03-08-06	29-May-07	< 0.005	< 0.0025	1260		7.2	< 0.01	< 0.001	< 0.001	< 0.03	< 0.025
P03-08-07	05-May-05	< 0.005		1410		5.7	< 0.05	< 0.001	< 0.001	< 0.03	0.0094
P03-08-07	09-Sep-05	< 0.01		1390			< 0.05	< 0.002	< 0.002	< 0.03	0.0104
P03-08-07	06-Jun-06	< 0.005	< 0.0025	801		12.3	< 0.01	< 0.001	< 0.001	< 0.03	0.028
P03-08-07	20-Sep-06	< 0.002	< 0.001	732		6.1	< 0.01	< 0.0004	< 0.0004	< 0.03	0.01
P03-08-07	29-May-07	< 0.002	< 0.001	551		8.4	< 0.01	< 0.0004	< 0.0004	< 0.03	< 0.01
P03-08-07	03-Oct-07	< 0.005	< 0.0025	476		4.1	< 0.01	< 0.001	< 0.001	< 0.005	0.0099
X21B-96	10-May-05	< 0.005		520		2.9	< 0.15	< 0.001	0.0029	< 0.09	0.164
X21B-96	11-Sep-05	< 0.005		931		4.2	< 0.05	< 0.001	0.0037	< 0.15	4.12
X21B-96	13-Jun-06	< 0.005	< 0.0025	590		4.3	< 0.01	< 0.001	0.0029	< 0.03	0.16
X21B-96	23-Sep-06	< 0.005		1100		3.5	< 0.05	< 0.001	0.0036	0.049	6.07
X21B-96	01-Jun-07	< 0.005	< 0.0025	851		3	< 0.01	< 0.001	0.0033	< 0.03	0.224
X21B-96	10-Oct-07	< 0.005	< 0.0025	947		3.1	< 0.01	< 0.001	0.0036	< 0.005	0.321
	Total # samples	30	20	29	2	28	30	30	28	30	30
	MEAN	0.0092	0.0027	1038.38	0.3975	6.33	0.014	0.0072	0.0013	0.019	0.384
	Median	0.0025	0.00125	1070.0	0.3975	5.9	0.005	0.0005	0.001	0.015	0.0166
	STD	0.0247	0.0042	278.87	0.391	3.01	0.016	0.0252	0.00113	0.0148	1.3081
	MINIMUM	< 0.002	< 0.001	476	0.121	2.1	< 0.01	< 0.0004	< 0.0004	< 0.005	< 0.005
	MAXIMUM	< 0.2	< 0.03	1490	0.674	13.3	< 0.15	< 0.2	0.0037	< 0.15	6.07
	5th Percentile	0.001675	0.0005	532.40	0.149	2.58	0.005	0.000335	0.000305	0.0025	0.00527
	25th Percentile	0.0025	0.00125	916	0.25925	4.17	0.005	0.0005	0.0005	0.015	0.0101
	75th Percentile	0.0025	0.00125	1260	0.53575	8.40	0.025	0.0005	0.0014	0.015	0.052
	95th Percentile	0.0572	0.015	1402.0	0.646	11.84	0.039	0.0554	0.0036	0.047	2.4104
<b>Intermediate Impoundment Adversely Impacted</b>											
X21A-96	10-May-05	< 0.01		1760		3.1	< 0.15	< 0.002	< 0.002	< 0.09	0.837
X21A-96	11-Sep-05	< 0.05		11900		4.4	< 0.25	< 0.01	< 0.01	< 2.5	104
X21A-96	13-Jun-06	< 0.01	< 0.005	2090		5.3	< 0.01	< 0.002	< 0.002	< 0.03	2.99
X21A-96	23-Sep-06	< 0.1		13800		4.4	< 0.5	< 0.02	< 0.02	1.42	59.3
X21A-96	01-Jun-07	< 0.1	< 0.05	18500		2.1	< 0.1	< 0.02	< 0.02	0.61	79.2
X21A-96	10-Oct-07	< 0.1	< 0.05	16500		3.4	< 0.1	< 0.02	< 0.02	< 0.1	36.9
	Total # samples	6	3	6		6	6	6	6	6	6
	MEAN	0.0308	0.0175	10758.33		3.78	0.093	0.0062	0.0062	0.565	47.205
	Median	0.0375	0.025	12850.0		3.9	0.0625	0.0075	0.0075	0.33	48.10
	STD	0.0222	0.0130	7205		1.14	0.087	0.0044	0.00445	0.6388	41.5
	MINIMUM	< 0.01	< 0.005	1760		2.1	< 0.01	< 0.002	< 0.002	< 0.03	0.837
	MAXIMUM	< 0.1	< 0.05	18500		5.3	< 0.5	< 0.02	< 0.02	< 2.5	104

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
	5th Percentile	0.0001375	0.03125	13.48	0.005075	0.015	0.08	0.005625	109.25	0.00012625	0.012925	1510.3	2882.5	0.003125	0.005
	25th Percentile	0.0004	0.10	16.0	0.010225	0.03	0.18	0.00875	182.75	0.0004	0.0144	2011	4717.5	0.006875	0.01
	75th Percentile	0.0011875	0.25	20.27	0.025	0.1	0.5	0.04375	367	0.00115	0.0225	3107	12300	0.04375	0.05
	95th Percentile	0.00219	0.4375	46.00	0.044	0.100	0.500	0.05	383.5	0.00219	0.03145	12315	13475	0.05	0.05
<b>S-Cluster Area Slightly Impacted</b>															
1B	20-Sep-06	< 0.00004	0.015	354	0.0113	0.049	< 0.1	< 0.002	150	0.000176	0.00391	898	959	< 0.002	< 0.002
1B	29-May-07	< 0.00004	0.016	196	0.0062	< 0.02	< 0.1	< 0.002	144	0.000312	0.00486	1055	945	< 0.002	< 0.002
1B	03-Oct-07	< 0.00004	< 0.01	365	0.0102	0.033	< 0.1	< 0.002	155	0.000162	0.00373		1050	< 0.002	< 0.002
SRK05-SP-2	20-Sep-06	< 0.00002	0.0124	156	< 0.0005	0.062	< 0.1	< 0.001	51.5	0.000105	0.00216	315.1	339	< 0.001	< 0.001
SRK05-SP-2	29-May-07	< 0.00002	0.0206	129	< 0.0005	0.039	< 0.1	< 0.001	45.4	0.000093	0.00245	320	270	< 0.001	< 0.001
SRK05-SP-2	03-Oct-07	< 0.00002	0.0118	132	< 0.0005	0.043	< 0.1	< 0.001	44.4	0.000093	0.00209		320	< 0.001	< 0.001
	Total # samples	6	6	6	6	6	6	6	6	6	6	4	6	6	6
	MEAN	0.00002	0.013	222.0	0.005	0.039	0.050	0.001	98.4	0.0002	0.0032	647	647	0.0008	0.0008
	Median	1.5E-05	0.0137	176	0.003225	0.041	0.05	0.00075	97.75	0.0001335	0.00309	609	642	0.00075	0.00075
	STD	0.000005	0.00520	109.23	0.00520	0.017	0.000	0.0003	56.34	0.00008	0.00113	385.8	372.2	0.0003	0.000274
	MINIMUM	< 0.00002	< 0.01	129	< 0.0005	< 0.02	< 0.1	< 0.001	44.4	0.000093	0.00209	315.1	270	< 0.001	< 0.001
	MAXIMUM	< 0.00004	0.0206	365	0.0113	0.062	< 0.1	< 0.002	155	0.000312	0.00486	1055	1050	< 0.002	< 0.002
	5th Percentile	1E-05	0.0067	129.75	0.00025	0.01575	0.050	0.0005	44.7	9.3E-05	0.0021075	315.8	282.5	0.0005	0.0005
	25th Percentile	1E-05	0.01195	138	0.00025	0.0345	0.050	0.0005	46.9	9.6E-05	0.0022325	318.78	324.75	0.0005	0.0005
	75th Percentile	2E-05	0.01575	314.5	0.0092	0.0475	0.05	0.001	148.5	0.0001725	0.00386	937.25	955.5	0.001	0.001
	95th Percentile	2E-05	0.01945	362.25	0.011025	0.05875	0.05	0.001	153.8	0.000278	0.00462	1031.4	1027.3	0.001	0.001
<b>S-Cluster Area Moderately Impacted</b>															
P96-7	05-May-05	< 0.00025	< 0.05	258	< 0.005	< 0.04	< 0.2	< 0.01	494	< 0.00025	< 0.0025	257		< 0.0025	< 0.005
P96-7	10-Sep-05	< 0.0005	< 0.1	172	< 0.01	< 0.02	< 0.1	< 0.005	605	< 0.0005	< 0.005	2770	2940	< 0.005	< 0.01
P96-7	05-Jun-06	< 0.0002	0.147	256	< 0.005	< 0.02	< 0.1	< 0.01	430	< 0.00017	< 0.003	1645	2540	< 0.01	< 0.01
P96-7	20-Sep-06	< 0.0001	< 0.025	198	< 0.0025	< 0.02	< 0.1	< 0.005	508	< 0.000085	< 0.0015	2577	2750	< 0.005	< 0.005
P96-7	29-May-07	< 0.0001	< 0.025	276	< 0.0025	< 0.02	< 0.1	< 0.005	504	< 0.000085	< 0.0015	2530	2560	< 0.005	< 0.005
P96-7	03-Oct-07	< 0.0002	< 0.05	204	< 0.005	< 0.02	< 0.1	< 0.01	533	< 0.00017	< 0.003		2830	< 0.01	< 0.01
S1B	05-May-05	< 0.00025	< 0.05	25.7	< 0.005	< 0.04	< 0.2	< 0.01	123	< 0.00025	< 0.0025	955		< 0.0025	< 0.005
S1B	12-Sep-05	< 0.00025	< 0.05	68.6	< 0.005	< 0.04	< 0.2	< 0.01	238	0.00037	< 0.0025	1119	1430	< 0.0025	< 0.005
S1B	05-Jun-06	< 0.0002	0.168	161	< 0.005	0.027	< 0.1	< 0.01	202	0.00061	< 0.003	931	1420	< 0.01	< 0.01
S1B	20-Sep-06	< 0.0001	< 0.025	167	< 0.0025	0.031	< 0.1	< 0.005	223	0.000394	< 0.0015	1262	1360	< 0.005	< 0.005
S1B	28-May-07	< 0.0001	0.054	224	< 0.0025	0.024	< 0.1	< 0.005	292	0.00078	< 0.0015	6430	1580	< 0.005	0.0053
S1B	03-Oct-07	< 0.0001	< 0.025	139	< 0.0025	0.029	< 0.1	< 0.005	227	0.000784	< 0.0015		1600	< 0.005	< 0.005
1A	20-Sep-06	< 0.00004	0.096	249	0.0049	0.03	< 0.1	0.0023	166	< 0.000034	0.00557	1096	1160	< 0.002	< 0.002
1A	29-May-07	< 0.00004	< 0.01	254	< 0.001	< 0.02	< 0.1	< 0.002	166	< 0.000034	0.00667	1289	1150	< 0.002	< 0.002
1A	03-Oct-07	< 0.00004	0.088	261	0.0056	< 0.02	< 0.1	0.0022	173	0.000041	0.00587		1340	< 0.002	< 0.002
3A	20-Sep-06	< 0.00004	0.039	324	0.0021	0.033	< 0.1	< 0.002	143	0.000041	0.00382	920	958	< 0.002	< 0.002
3A	28-May-07	< 0.00004	0.042	304	0.0017	< 0.02	< 0.1	< 0.002	136	< 0.000034	0.00436	1048	951	< 0.002	< 0.002
3A	03-Oct-07	< 0.00004	0.032	322	0.002	0.023	< 0.1	< 0.002	150	0.000048	0.00424		1130	< 0.002	< 0.002
3B	20-Sep-06	< 0.00004	0.027	332	< 0.001	0.027	< 0.1	< 0.002	148	0.000087	0.005	886	945	< 0.002	< 0.002
3B	28-May-07	< 0.00004	0.068	284	< 0.001	< 0.02	< 0.1	< 0.002	138	0.00006	0.00563	957	874	< 0.002	< 0.002
3B	03-Oct-07	< 0.00004	0.021	313	< 0.001	< 0.02	< 0.1	< 0.002	147	0.00009	0.00572		1060	< 0.002	< 0.002
4A	20-Sep-06	< 0.00004	0.033	254	0.0048	0.037	< 0.1	< 0.002	127	< 0.000034	0.00885	707	723	< 0.002	< 0.002
4A	28-May-07	< 0.0001	< 0.025	251	0.0029	0.026	< 0.1	< 0.005	132	< 0.000085	0.0262	965	915	< 0.005	< 0.005
4A	03-Oct-07	< 0.00004	0.027	253	0.0045	0.025	< 0.1	< 0.002	143	0.000081	0.00971		1010	< 0.002	< 0.002

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
	5th Percentile	553.75	1169.6	1E-05	7.84	0.0375	159.75	34.250	0.005	12.50	0.01	0.00755	5.93	3.60	0.0025
	25th Percentile	1379.25	1940.25	1.55E-05	8.80	0.0875	338.75	115.3	0.01	23	0.03125	0.01675	6.07	3.92	0.005
	75th Percentile	6175	3866.75	1E-04	10	0.25	928.75	467	0.05	76.05	0.10625	0.05525	6.35	5.28	0.025
	95th Percentile	6983	4637	1E-04	10	0.25	985.3	479.3	0.05	92.25	0.2188	0.0690	6.47	5.70	0.0250
<b>S-Cluster Area Slightly Impacted</b>															
1B	20-Sep-06	12.8		< 0.00002	5.3	0.034	53	0.722	< 0.002	11.5	0.0107	< 0.001	6.23	6.85	< 0.001
1B	29-May-07	7.69		< 0.00002	3.9	0.043	49.2	0.861	< 0.002	8.6	0.0145	< 0.001	6.1	6.89	< 0.001
1B	03-Oct-07	8.43		< 0.00002	4.5	0.034	51.4	0.779	< 0.002	9.2	0.0104	< 0.001		6.58	< 0.001
SRK05-SP-2	20-Sep-06	< 0.03		< 0.00002	< 2	0.0114	15.3	0.93	< 0.001	7.1	0.0037	< 0.0005	6.21	6.96	< 0.0005
SRK05-SP-2	29-May-07	0.05		< 0.00002	< 2	0.0123	12.1	0.906	< 0.001	5.7	0.0041	< 0.0005	6.52	7.06	< 0.0005
SRK05-SP-2	03-Oct-07	0.04		< 0.00002	< 2	0.0104	10.6	0.862	< 0.001	5.5	0.0034	< 0.0005		6.9	< 0.0005
	Total # samples	6		6	6	6	6	6	6	6	6	6	4	6	6
	MEAN	4.84		0.00001	2.78	0.0242	31.93	0.84	0.0008	7.93	0.0078	0.0004	6.27	6.87	0.0004
	Median	3.87		1E-05	2.45	0.0231	32.25	0.86	0.00075	7.85	0.0073	0.000375	6.22	6.89	0.000375
	STD	5.5		2.03369E-13	2.00	0.0144	21.19	0.08	0.0003	2.30	0.00469	0.00014	0.18	0.16	0.00014
	MINIMUM	< 0.03		< 0.00002	< 2	0.0104	10.6	0.722	< 0.001	5.5	0.0034	< 0.0005	6.1	6.58	< 0.0005
	MAXIMUM	12.8		< 0.00002	5.3	0.043	53	0.93	< 0.002	11.5	0.0145	< 0.001	6.52	7.06	< 0.001
	5th Percentile	0.02125		1E-05	1	0.01065	10.98	0.74	0.0005	5.55	0.003475	0.00025	6.12	6.65	0.00025
	25th Percentile	0.0425		1E-05	1.00	0.011625	12.90	0.80	0.0005	6.05	0.0038	0.00025	6.18	6.86	0.00025
	75th Percentile	8.25		1E-05	4.35	0.034	50.85	0.89	0.001	9.05	0.010625	0.0005	6.30	6.95	0.0005
	95th Percentile	11.71		1E-05	5.10	0.04075	52.60	0.92	0.001	10.92	0.01355	0.0005	6.48	7.04	0.0005
<b>S-Cluster Area Moderately Impacted</b>															
P96-7	05-May-05	< 0.06	1740	< 0.0002		< 0.1	124	< 0.02	< 0.005	14.9	< 0.025	< 0.005	5.94	7.81	< 0.0025
P96-7	10-Sep-05	< 0.03	2080	< 0.0002		< 0.05	138	< 0.01	< 0.01	20.5	< 0.05	< 0.01	7.39	7.8	< 0.005
P96-7	05-Jun-06	< 0.03		< 0.00002	4.9	< 0.05	128	< 0.003	< 0.01	15.1	< 0.01	< 0.005	7.33	7.55	< 0.005
P96-7	20-Sep-06	< 0.03		< 0.00002	6.3	0.026	114	0.0083	< 0.005	24	< 0.005	< 0.0025	5.66	7.74	< 0.0025
P96-7	29-May-07	< 0.03		< 0.00002	4.7	0.035	133	0.0043	< 0.005	15.7	0.0052	< 0.0025	7.21	7.87	< 0.0025
P96-7	03-Oct-07	< 0.03		< 0.00002	5.4	< 0.05	142	0.0035	< 0.01	17	< 0.01	< 0.005		7.61	< 0.005
S1B	05-May-05	0.093	447	< 0.0002		< 0.1	33.8	0.035	< 0.005	25.1	< 0.025	< 0.005	6.94	7.22	< 0.0025
S1B	12-Sep-05	0.116	856	< 0.0002		< 0.1	63.4	0.051	< 0.005	41.5	< 0.025	< 0.005	6.95	7.13	< 0.0025
S1B	05-Jun-06	0.19		< 0.00002	2.4	< 0.05	58.3	0.471	< 0.01	33.9	0.011	< 0.005	7.45	7.12	< 0.005
S1B	20-Sep-06	0.052		< 0.00002	3	< 0.025	63.1	0.165	< 0.005	42	0.008	< 0.0025	6.62	7.18	< 0.0025
S1B	28-May-07	0.324		< 0.00002	2.9	< 0.025	78.5	1.15	< 0.005	35.7	0.0115	< 0.0025	6.42	7.24	< 0.0025
S1B	03-Oct-07	0.032		< 0.00002	3.1	< 0.025	82.2	1.48	< 0.005	35.6	0.0354	< 0.0025		6.81	< 0.0025
1A	20-Sep-06	50.1		< 0.00002	5.4	0.068	61.6	1.43	< 0.002	17.6	0.0176	< 0.001	5.73	6.37	< 0.001
1A	29-May-07	2.19		< 0.00002	4.1	0.085	64.3	1.65	< 0.002	14.7	0.0207	< 0.001	5.69	6.47	< 0.001
1A	03-Oct-07	47.3		< 0.00002	4.4	0.069	64.2	1.6	< 0.002	14.5	0.0198	< 0.001		6.14	< 0.001
3A	20-Sep-06	25.1		< 0.00002	4.4	0.049	61.8	0.849	< 0.002	12.4	0.012	< 0.001	5.97	6.65	< 0.001
3A	28-May-07	21.4		< 0.00002	3.7	0.054	56.2	0.897	< 0.002	9.3	0.014	< 0.001	6.01	6.65	< 0.001
3A	03-Oct-07	22.5		< 0.00002	4.7	0.05	60.6	0.947	< 0.002	10.8	0.0132	< 0.001		6.44	< 0.001
3B	20-Sep-06	11.4		< 0.00002	5.4	0.049	58.4	0.847	< 0.002	10.3	0.0131	< 0.001	5.89	6.63	< 0.001
3B	28-May-07	10.2		< 0.00002	4.8	0.054	52.9	0.914	< 0.002	8.5	0.0152	< 0.001	5.97	6.71	< 0.001
3B	03-Oct-07	9.76		< 0.00002	5.1	0.049	53.4	0.996	< 0.002	8.6	0.0154	< 0.001		6.43	< 0.001
4A	20-Sep-06	27.1		< 0.00002	4.8	0.055	48.8	1.06	< 0.002	12.3	0.0195	< 0.001	5.97	6.61	< 0.001
4A	28-May-07	8.95		< 0.00002	4.5	0.151	46.9	2.92	< 0.005	9.7	0.0535	< 0.0025	6.06	6.94	< 0.0025
4A	03-Oct-07	19.9		< 0.00002	4.1	0.053	48	1.41	< 0.002	9.1	0.0217	< 0.001		6.43	< 0.001

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
	5th Percentile	0.005	0.00475	1842.50		2.35	0.01625	0.001	0.001	0.0225	1.38
	25th Percentile	0.01	0.01375	4542.5		3.17	0.050	0.002	0.002	0.046	11.47
	75th Percentile	0.05	0.025	15825		4.40	0.113	0.01	0.01	1.090	74.225
	95th Percentile	0.05	0.025	18000		5.08	0.21875	0.01	0.01	1.38	97.8000
<b>S-Cluster Area Slightly Impacted</b>											
1B	20-Sep-06	< 0.002	< 0.001	217		2.8	< 0.01	< 0.0004	0.00165	< 0.03	0.272
1B	29-May-07	< 0.002	< 0.001	276		1.2	< 0.01	< 0.0004	0.00209	< 0.03	0.278
1B	03-Oct-07	< 0.002	< 0.001	249			< 0.01	< 0.0004	0.00144	< 0.002	0.218
SRK05-SP-2	20-Sep-06	< 0.001	< 0.0005	44.6		2.5	< 0.01	< 0.0002	0.00062	< 0.03	0.126
SRK05-SP-2	29-May-07	< 0.001	< 0.0005	41.6		1.6	< 0.01	< 0.0002	0.0007	< 0.03	0.128
SRK05-SP-2	03-Oct-07	< 0.001	< 0.0005	33.7			< 0.01	< 0.0002	0.00063	< 0.001	0.105
	Total # samples	6	6	6		4	6	6	6	6	6
	MEAN	0.0008	0.00038	143.7		2.03	0.005	0.000	0.001	0.010	0.19
	Median	0.00075	0.000375	130.8		2.05	0.005	0.00015	0.00107	0.015	0.17
	STD	0.00027	0.00014	115.2		0.75	0.000	0.0001	0.0006	0.007	0.08
	MINIMUM	< 0.001	< 0.0005	33.7		1.2	< 0.01	< 0.0002	0.00062	< 0.001	0.105
	MAXIMUM	< 0.002	< 0.001	276		2.8	< 0.01	< 0.0004	0.00209	< 0.03	0.278
	5th Percentile	0.0005	0.00025	35.7		1.26	0.005	1E-04	0.0006225	0.000625	0.11025
	25th Percentile	0.0005	0.00025	42.35		1.50	0.005	1E-04	0.0006475	0.0045	0.127
	75th Percentile	0.001	0.0005	241		2.58	0.005	0.0002	0.0015975	0.015	0.258
	95th Percentile	0.001	0.0005	269.3		2.75	0.005	0.0002	0.00198	0.015	0.28
<b>S-Cluster Area Moderately Impacted</b>											
P96-7	05-May-05	< 0.005		1500		2.7	< 0.1	< 0.001	0.0222	< 0.06	0.028
P96-7	10-Sep-05	< 0.01		1910		5.72	< 0.05	< 0.002	0.0266	< 0.04	0.0078
P96-7	05-Jun-06	< 0.01	< 0.005	1220		6.3	< 0.01	< 0.002	0.0249	< 0.03	0.015
P96-7	20-Sep-06	< 0.005	< 0.0025	1760		3	< 0.01	< 0.001	0.0253	< 0.03	0.033
P96-7	29-May-07	< 0.005	< 0.0025	1620		2.5	< 0.01	< 0.001	0.0255	< 0.03	0.0081
P96-7	03-Oct-07	< 0.01	< 0.005	1810			< 0.01	< 0.002	0.0228	< 0.01	0.017
S1B	05-May-05	< 0.005		403		4.1	< 0.1	< 0.001	< 0.001	< 0.06	0.067
S1B	12-Sep-05	< 0.005		703		5.1	< 0.1	< 0.001	< 0.001	< 0.06	0.051
S1B	05-Jun-06	< 0.01	< 0.005	585		4.4	< 0.01	< 0.002	< 0.002	< 0.03	0.112
S1B	20-Sep-06	< 0.005	< 0.0025	471		3.3	< 0.01	< 0.001	< 0.001	< 0.03	0.124
S1B	28-May-07	< 0.005	< 0.0025	818		2	< 0.01	< 0.001	0.0025	< 0.03	0.124
S1B	03-Oct-07	< 0.005	< 0.0025	767			< 0.01	< 0.001	< 0.001	< 0.005	3.5
1A	20-Sep-06	< 0.002	< 0.001	457		3.1	< 0.01	< 0.0004	< 0.0004	< 0.03	1.41
1A	29-May-07	< 0.002	< 0.001	558		1.6	< 0.01	< 0.0004	< 0.0004	< 0.03	0.983
1A	03-Oct-07	< 0.002	< 0.001	460			< 0.01	< 0.0004	< 0.0004	< 0.002	1.46
3A	20-Sep-06	< 0.002	< 0.001	239		2.2	< 0.01	< 0.0004	0.0017	< 0.03	1.02
3A	28-May-07	< 0.002	< 0.001	327		3.8	< 0.01	< 0.0004	0.00179	< 0.03	1.07
3A	03-Oct-07	< 0.002	< 0.001	295			< 0.01	< 0.0004	0.00168	< 0.002	1
3B	20-Sep-06	< 0.002	< 0.001	257		2.4	< 0.01	< 0.0004	0.00188	< 0.03	0.75
3B	28-May-07	< 0.002	< 0.001	277		4.6	< 0.01	< 0.0004	0.002	< 0.03	0.783
3B	03-Oct-07	< 0.002	< 0.001	285			< 0.01	< 0.0004	0.00187	< 0.002	0.744
4A	20-Sep-06	< 0.002	< 0.001	173		3.4	< 0.01	< 0.0004	< 0.0004	< 0.03	0.995
4A	28-May-07	< 0.005	< 0.0025	292		4.8	< 0.01	< 0.001	0.0015	< 0.03	0.951
4A	03-Oct-07	< 0.002	< 0.001	296			< 0.01	< 0.0004	0.00076	< 0.002	1.16

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
	Total # samples	24	24	24	24	24	24	24	24	24	24	18	22	24	24
	MEAN	0.00006	0.044	231.26	0.002	0.020	0.056	0.003	256.2	0.0002	0.0044	1575	1510	0.0020	0.0023
	Median	5E-05	0.027	253.5	0.0023	0.02	0.05	0.0025	169.5	8.3E-05	0.00316	1072	1250	0.00125	0.0025
	STD	0.000056	0.04205	77.982	0.00155	0.009	0.017	0.0016	158.58	0.00024	0.00536	1388.2	714.8	0.0013	0.001575
	MINIMUM	< 0.00004	< 0.01	25.7	< 0.001	< 0.02	< 0.1	< 0.002	123	< 0.000034	< 0.0015	257	723	< 0.002	< 0.002
	MAXIMUM	< 0.0005	0.168	332	< 0.01	< 0.04	< 0.2	< 0.01	605	0.000784	0.0262	6430	2940	< 0.01	< 0.01
	5th Percentile	2E-05	0.0125	79.16	0.0005	0.01	0.050	0.001	127.8	1.7E-05	0.00075	639.5	876.0	0.001	0.001
	25th Percentile	2E-05	0.018875	191.5	0.00125	0.01	0.05	0.001	143	4.2125E-05	0.00125	937	971	0.001	0.001
	75th Percentile	1E-04	0.0510	278	0.0026	0.0270	0.050	0.003125	326.5	0.00015625	0.00565	1556	1595	0.0025	0.0025
	95th Percentile	0.000125	0.1394	323.70	0.004985	0.0327	0.1	0.005	529.3	0.0007545	0.00958	3319.0	2826.0	0.005	0.005
<b>S-Cluster Area Highly Impacted</b>															
S2B	05-May-05	< 0.0005	< 0.1	55	< 0.01	< 0.04	< 0.2	< 0.01	501	0.00079	0.0053	2384		< 0.005	< 0.01
S2B	12-Sep-05	< 0.0005	< 0.1	124	< 0.01	< 0.06	< 0.3	< 0.015	569	< 0.0005	0.0058	1155	3660	< 0.005	< 0.01
S2B	06-Jun-06	< 0.0004	< 0.1	150	< 0.01	0.043	< 0.2	< 0.02	639	0.006	0.0191	4008	4400	< 0.02	< 0.02
S2B	20-Sep-06	< 0.0004	< 0.1	199	< 0.01	0.046	< 0.1	< 0.02	702	0.00201	0.0125	3986	4330	< 0.02	< 0.02
S2B	28-May-07	< 0.0004	0.26	15.9	< 0.01	0.053	< 0.2	< 0.02	816	0.00932	0.0273	6020	3370	< 0.02	< 0.02
S2B	03-Oct-07	< 0.0002	< 0.05	163	< 0.005	0.056	< 0.2	< 0.01	927	0.00133	0.0119	5600	4640	< 0.01	< 0.01
	Total # samples	6	6	6	6	6	6	6	6	6	6	6	5	6	6
	MEAN	0.00020	0.081	117.82	0.005	0.041	0.100	0.008	692.3	0.0033	0.0137	3859	4080	0.0067	0.0075
	Median	0.0002	0.05	137	0.005	0.045	0.10	0.00875	670.5	0.00167	0.0122	3997	4330	0.0075	0.0075
	STD	0.000055	0.08834	69.339	0.00102	0.014	0.032	0.0025	158.19	0.00360	0.00839	1856.2	538.3	0.0038	0.002739
	MINIMUM	< 0.0002	< 0.05	15.9	< 0.005	< 0.04	< 0.1	< 0.01	501	< 0.0005	0.0053	1155	3370	< 0.005	< 0.01
	MAXIMUM	< 0.0005	0.26	199	< 0.01	< 0.06	< 0.3	< 0.02	927	0.00932	0.0273	6020	4640	< 0.02	< 0.02
	5th Percentile	0.000125	0.03125	25.67	0.003125	0.0225	0.063	0.005	518.0	0.000385	0.005425	1462.3	3428.0	0.0025	0.005
	25th Percentile	0.0002	0.0500	72.25	0.005	0.0332	0.1000	0.005625	586.5	0.000925	0.007325	2784.5	3660	0.003125	0.005
	75th Percentile	0.0002375	0.05	159.75	0.005	0.05125	0.1	0.01	787.5	0.0050025	0.01745	5202	4400	0.01	0.01
	95th Percentile	0.00025	0.2075	190	0.005	0.05525	0.1375	0.01	899.3	0.00849	0.02525	5915.0	4592.0	0.01	0.01
<b>S-Cluster Area Adversely Impacted</b>															
S1A	05-May-05	< 0.0025	< 0.5	205	< 0.05	< 0.04	< 0.2	< 0.01	609	0.0111	< 0.025	5580		< 0.025	< 0.05
S1A	12-Sep-05	< 0.0025	< 0.5	196	< 0.05	< 0.1	< 0.5	< 0.025	599	0.0104	< 0.025	1665	5600	< 0.025	< 0.05
S1A	20-Sep-06	< 0.0004	< 0.1	218	< 0.01	< 0.04	< 0.2	< 0.02	564	0.0129	0.0186	556	5930	< 0.02	< 0.02
S1A	28-May-07	< 0.001	< 0.25	216	< 0.025	< 0.04	< 0.2	< 0.05	557	0.0177	0.027	1738	5930	< 0.05	< 0.05
S1A	03-Oct-07	< 0.001	< 0.25	219	< 0.025	< 0.04	< 0.2	< 0.05	522	0.0194	0.028		6420	< 0.05	< 0.05
S2A	05-May-05	< 0.0025	< 0.5	213	< 0.05	< 0.04	< 0.2	< 0.01	502	0.0149	< 0.025	4107		< 0.025	< 0.05
S2A	12-Sep-05	< 0.0025	< 0.5	191	< 0.05	< 0.1	< 0.5	< 0.025	498	0.0188	< 0.025	1412	5440	< 0.025	< 0.05
S2A	06-Jun-06	< 0.001	< 0.25	210	< 0.025	< 0.04	< 0.2	< 0.05	512	0.0205	0.018	5.18	5930	< 0.05	< 0.05
S2A	20-Sep-06	< 0.0004	< 0.1	216	< 0.01	< 0.06	< 0.3	< 0.02	607	0.0174	0.018	5380	5840	< 0.02	< 0.02
S2A	28-May-07	< 0.001	< 0.25	228	< 0.025	< 0.04	< 0.2	< 0.05	504	0.0243	0.024	5200	5280	< 0.05	< 0.05
S2A	03-Oct-07	< 0.002	< 0.5	229	< 0.05	< 0.04	< 0.2	< 0.01	504	0.0247	< 0.03	6680	6400	< 0.1	< 0.1
S3	05-May-05	< 0.0025	< 0.5	173	< 0.05	< 0.04	< 0.2	< 0.01	589	< 0.0025	0.04	5420		< 0.025	< 0.05
S3	12-Sep-05	< 0.0025	< 0.5	171	< 0.05	< 0.1	< 0.5	< 0.025	500	< 0.0025	0.035	1611	5850	< 0.025	< 0.05
S3	20-Sep-06	< 0.001	2.69	206	< 0.025	< 0.06	< 0.3	< 0.05	571	0.00381	0.04	5930	6280	< 0.05	< 0.05
S3	29-May-07	< 0.001	0.53	211	< 0.025	< 0.04	< 0.2	< 0.05	451	0.0101	0.037	5960	4340	< 0.05	< 0.05
S3	03-Oct-07	< 0.002	< 0.5	192	< 0.05	< 0.04	< 0.2	< 0.01	468	0.0128	0.041	7010	6800	< 0.1	< 0.1
4B	20-Sep-06	< 0.002	< 0.5	203	< 0.05	< 0.06	< 0.3	< 0.1	497	0.0722	< 0.03	5370	6140	< 0.1	< 0.1
4B	28-May-07	< 0.002	< 0.5	214	< 0.05	< 0.04	< 0.2	< 0.1	372	0.0652	< 0.03	5080	4370	< 0.1	< 0.1
4B	03-Oct-07	< 0.002	< 0.5	215	< 0.05	< 0.04	< 0.2	< 0.1	394	0.0916	< 0.03		6270	< 0.1	< 0.1



### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
	Total # samples	24	4	24	20	24	24	24	24	24	24	24	18	24	24
	MEAN	10.70	1280.75	0.000025	4.405	0.0473	76.48	0.79	0.0022	19.12	0.0159	0.0014	6.40	6.98	0.0011
	Median	1.257	1298	1E-05	4.6	0.0495	62.45	0.87	0.0025	15.00	0.0132	0.00125	6.04	6.87	0.00125
	STD	14.9	758.3	3.42624E-05	0.98	0.0291	33.23	0.75	0.0014	10.82	0.01078	0.00113	0.64	0.53	0.00072
	MINIMUM	< 0.03	447	< 0.00002	2.4	< 0.025	33.8	< 0.003	< 0.002	8.5	< 0.005	< 0.001	5.66	6.14	< 0.001
	MAXIMUM	50.1	2080	< 0.0002	6.3	0.151	142	2.92	< 0.01	42	0.0535	< 0.01	7.45	7.87	< 0.005
	5th Percentile	0.015	508.35	1E-05	2.88	0.0125	47.07	0.00	0.001	8.68	0.005	0.0005	5.69	6.38	0.0005
	25th Percentile	0.0315	753.75	1E-05	4.00	0.025	55.50	0.03	0.001	10.68	0.011375	0.0005	5.95	6.57	0.0005
	75th Percentile	20.27	1825	1E-05	4.95	0.054	90.15	1.21	0.0025	24.28	0.019575	0.0025	6.95	7.32	0.00125
	95th Percentile	44.27	2029.0	1E-04	5.44	0.083	137.25	1.64	0.005	40.63	0.0338	0.0025	7.40	7.81	0.0025
<b>S-Cluster Area Highly Impacted</b>															
S2B	05-May-05	99	1880	< 0.0002		< 0.1	152	11.6	< 0.01	13.9	0.073	< 0.01	6.33	6.37	< 0.005
S2B	12-Sep-05	71	2090	< 0.0002		< 0.15	162	8.55	< 0.01	9.9	< 0.05	< 0.01	6.45	6.78	< 0.005
S2B	06-Jun-06	94.6		< 0.00002	4.8	< 0.1	444	33.6	< 0.02	23.1	0.524	< 0.01	6.62	6.99	< 0.01
S2B	20-Sep-06	119		< 0.00002	5.1	< 0.1	330	23.5	< 0.02	23.1	0.209	< 0.01	6.38	6.72	< 0.01
S2B	28-May-07	156		< 0.00002	7.2	< 0.1	522	55.2	< 0.02	27.8	0.754	< 0.01	6.59	6.17	< 0.01
S2B	03-Oct-07	193		< 0.00002	5.5	< 0.05	311	23.2	< 0.01	25.8	0.164	< 0.005	6.77	6.44	< 0.005
	Total # samples	6	2	6	4	6	6	6	6	6	6	6	6	6	6
	MEAN	122.10	1985	0.00004	5.65	0.0500	320.17	25.94	0.0075	20.60	0.2915	0.0046	6.52	6.58	0.0038
	Median	109	1985	1E-05	5.30	0.0500	320.50	23.35	0.0075	23.10	0.1865	0.005	6.52	6.58	0.00375
	STD	44.9	148.5	4.64758E-05	1.07	0.0158	148.02	16.95	0.0027	7.08	0.28628	0.00102	0.17	0.30	0.00137
	MINIMUM	71	1880	< 0.00002	4.8	< 0.05	152	8.55	< 0.01	9.9	< 0.05	< 0.005	6.33	6.17	< 0.005
	MAXIMUM	193	2090	< 0.0002	7.2	< 0.15	522	55.2	< 0.02	27.8	0.754	< 0.01	6.77	6.99	< 0.01
	5th Percentile	76.9	1890.50	1E-05	4.85	0.03125	154.50	9.31	0.005	10.90	0.037	0.003125	6.34	6.22	0.0025
	25th Percentile	95.7	1932.5	1E-05	5.03	0.050	199.25	14.50	0.005	16.20	0.0957	0.005	6.40	6.39	0.0025
	75th Percentile	146.75	2037.5	7.75E-05	5.93	0.05	415.50	31.08	0.01	25.13	0.4453	0.005	6.61	6.76	0.005
	95th Percentile	183.75	2079.5	1E-04	6.94	0.06875	502.50	49.80	0.01	27.30	0.6965	0.005	6.73	6.94	0.005
<b>S-Cluster Area Adversely Impacted</b>															
S1A	05-May-05	< 0.06	4440	< 0.0002		0.13	710	45.2	< 0.05	39.8	1.17	< 0.05	5.6	6.9	< 0.025
S1A	12-Sep-05	< 0.15	4430	< 0.0002		< 0.25	712	51	< 0.05	36	1.08	< 0.05	6.33	6.78	< 0.025
S1A	20-Sep-06	< 0.06		< 0.00002	10.4	0.15	753	65.4	< 0.02	43.2	1.37	< 0.01	6.02	6.85	< 0.01
S1A	28-May-07	< 0.06		< 0.00002	10.3	< 0.25	832	76.9	< 0.05	39.4	1.78	< 0.025	6.93	6.91	< 0.025
S1A	03-Oct-07	< 0.06		< 0.00002	12.4	< 0.25	858	73.4	< 0.05	36.7	1.73	< 0.025	6.51	6.63	< 0.025
S2A	05-May-05	1.16	3760	< 0.0002		0.12	609	50.8	< 0.05	30.5	1.17	< 0.05	5.92	6.98	< 0.025
S2A	12-Sep-05	1.19	4100	< 0.0002		< 0.25	694	67.5	< 0.05	34	1.61	< 0.05	6.05	6.84	< 0.025
S2A	06-Jun-06	1.36		< 0.00002	9.6	< 0.25	766	77.5	< 0.05	32.4	1.73	< 0.025	6.06	7.09	< 0.025
S2A	20-Sep-06	4.64		< 0.00002	10.7	0.14	794	83.8	< 0.02	33.7	1.49	< 0.01	6.01	6.77	< 0.01
S2A	28-May-07	0.236		< 0.00002	10.6	< 0.25	718	78.8	< 0.05	27.5	1.69	< 0.025	6.49	6.87	< 0.025
S2A	03-Oct-07	1.21		< 0.00002	12.1	< 0.5	862	85.2	< 0.1	27.9	1.89	< 0.05	6.31	6.67	< 0.05
S3	05-May-05	5.59	4700	< 0.0002		0.14	784	72.5	< 0.05	26.2	1.05	< 0.05	5.92	6.72	< 0.025
S3	12-Sep-05	4.69	4340	< 0.0002		< 0.25	750	70.3	< 0.05	33	1	< 0.05	5.98	6.65	< 0.025
S3	20-Sep-06	2.6		< 0.00002	12.4	< 0.25	917	121	< 0.05	27.3	1.72	< 0.025	5.85	6.65	< 0.025
S3	29-May-07	1.12		< 0.00002	10.5	< 0.25	825	115	< 0.05	22.1	2.11	< 0.025	6.01	6.85	< 0.025
S3	03-Oct-07	1.05		< 0.00002	13.7	< 0.5	957	118	< 0.1	25.3	2.42	< 0.05	6.11	6.63	< 0.05
4B	20-Sep-06	< 0.09		< 0.00002	12.1	< 0.5	871	132	< 0.1	23.5	2.69	< 0.05	5.84	6.66	< 0.05
4B	28-May-07	< 0.06		< 0.00002	9.1	< 0.5	757	108	< 0.1	21.2	2.75	< 0.05	6.06	7.19	< 0.05
4B	03-Oct-07	0.073		< 0.00002	13.1	< 0.5	872	112	< 0.1	23.4	2.97	< 0.05		6.6	< 0.05

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
	Total # samples	24	20	24		18	24	24	24	24	24
	MEAN	0.0022	0.00103	728.5		3.61	0.011	0.000	0.007	0.014	0.68
	Median	0.0025	0.0005	465.5		3.35	0.005	0.0005	0.00169	0.015	0.75
	STD	0.00144	0.00072	572.4		1.33	0.015	0.0003	0.0104	0.009	0.79
	MINIMUM	< 0.002	< 0.001	173		1.6	< 0.01	< 0.0004	< 0.0004	< 0.002	0.0078
	MAXIMUM	< 0.01	< 0.005	1910		6.3	< 0.1	< 0.002	0.0266	< 0.06	3.5
	5th Percentile	0.001	0.0005	241.7		1.94	0.005	0.0002	0.0002	0.001	0.009135
	25th Percentile	0.001	0.0005	294.25		2.55	0.005	0.0002	0.0005	0.0125	0.0465
	75th Percentile	0.0025	0.00125	918.5		4.55	0.005	0.0005	0.007425	0.015	1.005
	95th Percentile	0.005	0.0025	1802.5		5.81	0.05	0.001	0.02547	0.03	1.45
<b>S-Cluster Area Highly Impacted</b>											
S2B	05-May-05	< 0.01		1760		2.8	< 0.1	< 0.002	< 0.002	0.079	8.65
S2B	12-Sep-05	< 0.01		2510		4	< 0.15	< 0.002	< 0.002	< 0.09	1.19
S2B	06-Jun-06	< 0.02	< 0.01	3070		5.8	< 0.02	< 0.004	< 0.004	< 0.06	68.4
S2B	20-Sep-06	< 0.02	< 0.01	3230		3.2	< 0.01	< 0.004	< 0.004	< 0.06	29
S2B	28-May-07	< 0.02	< 0.01	3010		3	< 0.02	< 0.004	< 0.004	< 0.06	89.9
S2B	03-Oct-07	< 0.01	< 0.005	2960		2.3	< 0.02	< 0.002	< 0.002	< 0.01	20.5
	Total # samples	6	4	6		6	6	6	6	6	6
	MEAN	0.0075	0.00438	2756.7		3.52	0.027	0.002	0.002	0.037	36.27
	Median	0.0075	0.005	2985		3.10	0.01	0.0015	0.0015	0.03	24.75
	STD	0.00274	0.00125	544.4		1.25	0.029	0.0005	0.0005	0.024	35.22
	MINIMUM	< 0.01	< 0.005	1760		2.3	< 0.01	< 0.002	< 0.002	< 0.01	1.19
	MAXIMUM	< 0.02	< 0.01	3230		5.8	< 0.15	< 0.004	< 0.004	< 0.09	89.9
	5th Percentile	0.005	0.002875	1947.5		2.42	0.00625	0.001	0.001	0.01125	3.055
	25th Percentile	0.005	0.004375	2622.5		2.85	0.01	0.001	0.001	0.03	11.612
	75th Percentile	0.01	0.005	3055		3.80	0.04	0.002	0.002	0.04125	58.55
	95th Percentile	0.01	0.005	3190.0		5.35	0.06875	0.002	0.002	0.0705	84.53
<b>S-Cluster Area Adversely Impacted</b>											
S1A	05-May-05	< 0.05		4550		3.6	< 0.1	< 0.01	< 0.01	0.067	113
S1A	12-Sep-05	< 0.05		4070		5.2	< 0.25	< 0.01	< 0.01	< 0.15	118
S1A	20-Sep-06	< 0.02	< 0.01	4990		2.8	< 0.02	< 0.004	0.0084	0.068	166
S1A	28-May-07	< 0.05	< 0.025	5200		3.6	< 0.02	< 0.01	< 0.01	< 0.06	208
S1A	03-Oct-07	< 0.05	< 0.025	4800		1.8	< 0.02	< 0.01	< 0.01	< 0.05	215
S2A	05-May-05	< 0.05		1860		4.8	< 0.1	< 0.01	< 0.01	< 0.06	127
S2A	12-Sep-05	< 0.05		3910		4.4	< 0.25	< 0.01	< 0.01	< 0.15	178
S2A	06-Jun-06	< 0.05	< 0.025	4650		5.5	< 0.02	< 0.01	< 0.01	< 0.06	202
S2A	20-Sep-06	< 0.02	< 0.01	6280		4.1	< 0.03	< 0.004	0.0057	< 0.09	192
S2A	28-May-07	< 0.05	< 0.025	4450		3.2	< 0.02	< 0.01	< 0.01	< 0.06	207
S2A	03-Oct-07	< 0.1	< 0.05	4790		2.3	< 0.02	< 0.02	< 0.02	< 0.1	241
S3	05-May-05	< 0.05		4610		2	< 0.1	< 0.01	< 0.01	0.106	158
S3	12-Sep-05	< 0.05		4360		6.5	< 0.25	< 0.01	< 0.01	< 0.15	165
S3	20-Sep-06	< 0.05	< 0.025	5080		4.7	0.049	< 0.01	< 0.01	0.101	285
S3	29-May-07	< 0.05	< 0.025	4560		1.2	< 0.02	< 0.01	< 0.01	< 0.06	310
S3	03-Oct-07	< 0.1	< 0.05	5781		3.1	< 0.02	< 0.02	< 0.02	< 0.1	365
4B	20-Sep-06	< 0.1	< 0.05	3660		5.7	< 0.03	< 0.02	< 0.02	0.097	373
4B	28-May-07	< 0.1	< 0.05	4760		4	< 0.02	< 0.02	< 0.02	< 0.06	318
4B	03-Oct-07	< 0.1	< 0.05	4730			< 0.02	< 0.02	< 0.02	< 0.1	447

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
SRK05-SP-5	20-Sep-06	< 0.001	< 0.25	240	< 0.025	< 0.06	< 0.3	< 0.05	581	0.0227	0.02	5650	6000	< 0.05	< 0.05
SRK05-SP-5	28-May-07	< 0.002	< 0.5	231	< 0.05	< 0.04	< 0.2	< 0.1	490	0.0281	< 0.03	6580	4610	< 0.1	< 0.1
SRK05-SP-5	03-Oct-07	< 0.002	< 0.5	252	< 0.05	< 0.04	< 0.2	< 0.1	504	0.0313	0.04	6780	6530	< 0.1	< 0.1
	Total # samples	22	22	22	22	22	22	22	22	22	22	20	19	22	22
	MEAN	0.00084	0.327	211.32	0.019	0.026	0.130	0.027	518.0	0.0242	0.0233	4386	5787	0.0282	0.0316
	Median	0.001	0.25	213.5	0.025	0.02	0.10	0.025	504	0.01825	0.0183	5375	5930	0.025	0.025
	STD	0.000366	0.53717	19.372	0.00742	0.011	0.053	0.0174	63.53	0.02302	0.01071	2290.1	705.9	0.0162	0.013574
	MINIMUM	< 0.0004	< 0.1	171	< 0.01	< 0.04	< 0.2	< 0.01	372	< 0.0025	0.018	5.18	4340	< 0.02	< 0.02
	MAXIMUM	< 0.0025	2.69	252	< 0.05	< 0.1	< 0.5	< 0.1	609	0.0916	0.041	7010	6800	< 0.1	< 0.1
	5th Percentile	0.000215	0.05375	173.90	0.005375	0.02	0.100	0.005	396.8	0.001378	0.0125	528.5	4367.0	0.010125	0.0107
	25th Percentile	0.0005	0.125	203.5	0.0125	0.02	0.1000	0.0125	497.25	0.011525	0.015	1719.75	5520	0.0125	0.025
	75th Percentile	0.0011875	0.25	218.75	0.025	0.03	0.150	0.05	569.3	0.0246	0.03325	5937.5	6275	0.05	0.05
	95th Percentile	0.00125	0.5160	239.55	0.025	0.05	0.25	0.05	606.6	0.0719	0.04000	6791.5	6557.0	0.05	0.05
<b>Second Impoundment Non-Impacted</b>															
P03-01-01	03-May-05	< 0.00005	< 0.01	221	0.0018	0.111	< 0.1	< 0.005	62.3	< 0.00005	< 0.0005	251	402	< 0.0005	< 0.001
P03-01-01	08-Sep-05	< 0.00005	< 0.01	224	0.0047	0.098	< 0.1	< 0.005	64.6	< 0.00005	< 0.0005	370	444	< 0.0005	< 0.001
P03-01-01	09-Jun-06	< 0.00002	< 0.005	218	0.00524	0.113	< 0.1	< 0.001	66	< 0.000017	< 0.0003	362.1	417	< 0.001	< 0.001
P03-01-01	21-Sep-06	< 0.00005	< 0.01	233	0.0084	0.11	< 0.1	< 0.005	65.2	< 0.00005	< 0.0005	236.5	406	< 0.0005	< 0.001
P03-01-01	01-Jun-07	< 0.00002	0.0058	208	0.00547	0.104	< 0.1	< 0.001	76.1	0.000019	< 0.0003	426	382	< 0.001	< 0.001
P03-01-01	10-Oct-07	< 0.00002	< 0.005	206	0.00905	0.099	< 0.1	< 0.001	64.8	< 0.000017	0.0005	396	428	< 0.001	< 0.001
P03-01-02	03-May-05	< 0.00005	< 0.01	151	0.0027	0.11	< 0.1	< 0.005	58	< 0.00005	0.00323	224	367	< 0.0005	< 0.001
P03-01-02	08-Sep-05	< 0.00005	< 0.01	191	0.0021	0.125	< 0.1	< 0.005	69.9	< 0.00005	0.00638	371	432	< 0.0005	< 0.001
P03-01-02	09-Jun-06	< 0.00002	0.007	177	0.00206	0.123	< 0.1	< 0.001	60.4	< 0.000017	0.00165	238.2	368	< 0.001	< 0.001
P03-01-02	21-Sep-06	< 0.00005	< 0.01	229	< 0.001	0.126	< 0.1	< 0.005	65.5	< 0.00005	0.00072	223.5	397	< 0.0005	< 0.001
P03-01-02	01-Jun-07	< 0.00002	< 0.005	148	0.00143	0.111	< 0.1	< 0.001	68.4	< 0.000017	0.00322	356	327	< 0.001	< 0.001
P03-01-02	10-Oct-07	< 0.00002	< 0.005	195	0.00098	0.114	< 0.1	< 0.001	66.2	< 0.000017	0.00088	360	410	< 0.001	< 0.001
	Total # samples	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	MEAN	0.00002	0.004	200.08	0.004	0.112	0.050	0.002	65.6	0.0000	0.0015	318	398	0.0004	0.0005
	Median	1.75E-05	0.005	207	0.0024	0.111	0.05	0.0015	65.35	2.2E-05	0.00061	358	404	0.000375	0.0005
	STD	0.000008	0.00152	28.780	0.00286	0.009	0.000	0.0010	4.62	0.00001	0.00191	76.1	32.9	0.0001	0.000000
	MINIMUM	< 0.00002	< 0.005	148	0.00098	0.098	< 0.1	< 0.001	58	< 0.000017	< 0.0003	223.5	327	< 0.0005	< 0.001
	MAXIMUM	< 0.00005	< 0.01	233	0.00905	0.126	< 0.1	< 0.005	76.1	< 0.00005	0.00638	426	444	< 0.001	< 0.001
	5th Percentile	1E-05	0.0025	149.65	0.000764	0.0985	0.05	0.0005	59.3	8.5E-06	0.00015	223.8	349.0	0.00025	0.0005
	25th Percentile	1E-05	0.0025	187.5	0.0017075	0.1085	0.05	0.0005	64.0	8.5E-06	0.00025	237.775	378.5	0.00025	0.0005
	75th Percentile	2.5E-05	0.005	221.75	0.0052975	0.11625	0.050	0.0025	66.7	2.5E-05	0.00204	370.25	419.75	0.0005	0.0005
	95th Percentile	2.5E-05	0.00634	230.80	0.0086925	0.12545	0.05	0.0025	72.7	2.5E-05	0.00465	409.5	437.4	0.0005	0.0005
<b>Second Impoundment Slightly Impacted</b>															
P03-01-03	03-May-05	< 0.00005	< 0.01	128	0.0022	0.099	< 0.1	< 0.005	54.4	< 0.00005	0.00062	216	348	< 0.0005	< 0.001
P03-01-03	08-Sep-05	< 0.00005	< 0.01	137	< 0.001	0.073	< 0.1	< 0.005	49.2	< 0.00005	< 0.0005	305	354	< 0.0005	< 0.001
P03-01-03	09-Jun-06	< 0.00002	0.0056	108	< 0.0005	0.15	< 0.1	< 0.001	71.5	0.000057	< 0.0003	247.1	436	< 0.001	< 0.001
P03-01-03	21-Sep-06	< 0.00005	< 0.01	140	< 0.001	0.102	< 0.1	< 0.005	51.7	< 0.00005	< 0.0005	194	336	< 0.0005	< 0.001
P03-01-03	01-Jun-07	< 0.00002	< 0.005	98.9	< 0.0005	0.088	< 0.1	< 0.001	47	0.000038	< 0.0003	271	255	< 0.001	< 0.001
P03-01-03	10-Oct-07	< 0.00002	< 0.005	110	< 0.0005	0.083	< 0.1	< 0.001	49.3	0.00003	< 0.0003	274	314	< 0.001	< 0.001
P03-01-05	03-May-05	< 0.0001	< 0.02	72.8	< 0.002	0.085	< 0.1	< 0.005	135	0.0004	0.0018	508	724	< 0.001	< 0.002
P03-01-05	08-Sep-05	< 0.00005	0.013	79.8	< 0.001	0.046	< 0.1	< 0.005	65.4	0.000113	0.0009	361	434	< 0.0005	< 0.001
P03-01-05	09-Jun-06	< 0.00002	0.012	64.4	< 0.0005	0.091	< 0.1	< 0.001	87.2	0.000127	0.00144	418	554	< 0.001	< 0.001
P03-01-05	21-Sep-06	< 0.00005	< 0.01	61.1	< 0.001	0.042	< 0.1	< 0.005	52.2	0.000435	0.00098	204.4	369	< 0.0005	< 0.001

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
SRK05-SP-5	20-Sep-06	< 0.09		< 0.00002	10.3	< 0.25	819	82.9	< 0.05	39	1.66	< 0.025	5.86	6.93	< 0.025
SRK05-SP-5	28-May-07	0.625		< 0.00002	10.2	< 0.5	834	90	< 0.1	41.3	1.87	< 0.05	6.21	7.29	< 0.05
SRK05-SP-5	03-Oct-07	0.138		< 0.00002	12.2	< 0.5	906	102	< 0.1	32.5	2.21	< 0.05	6.19	6.75	< 0.05
	Total # samples	22	6	22	16	22	22	22	22	22	22	22	21	22	22
	MEAN	1.18	4295	3.45455E-05	11.23125	0.1673	800.00	85.42	0.0316	31.63	1.7800	0.0192	6.11	6.83	0.0158
	Median	0.431	4385	1E-05	10.65	0.1275	806.50	80.85	0.025	32.45	1.7250	0.025	6.05	6.81	0.0125
	STD	1.7	325.4	4.10258E-05	1.33	0.0582	84.08	24.24	0.0136	6.62	0.56046	0.00742	0.29	0.19	0.00679
	MINIMUM	< 0.06	3760	< 0.00002	9.1	0.12	609	45.2	< 0.02	21.2	1	< 0.01	5.6	6.6	< 0.01
	MAXIMUM	5.59	4700	< 0.00002	13.7	< 0.5	957	132	< 0.1	43.2	2.97	< 0.05	6.93	7.29	< 0.05
	5th Percentile	0.03	3845.00	1E-05	9.48	0.125	694.80	50.81	0.0107	22.17	1.051499953	0.005375	5.84	6.63	0.005375
	25th Percentile	0.045	4160	1E-05	10.30	0.125	750.75	70.85	0.025	26.48	1.4000	0.0125	5.92	6.66	0.0125
	75th Percentile	1.21	4437.5	7.75E-05	12.25	0.25	861.00	106.50	0.05	36.53	2.0550	0.025	6.21	6.91	0.025
	95th Percentile	4.69	4635.0	1E-04	13.25	0.25	916.45	120.85	0.05	41.23	2.7470	0.025	6.51	7.19	0.025
<b>Second Impoundment Non-Impacted</b>															
P03-01-01	03-May-05	4.23	212	< 0.0002		< 0.05	13.8	0.195	0.0046	7.8	< 0.005	< 0.001	7.62	8.1	< 0.0005
P03-01-01	08-Sep-05	4.12	212	< 0.0002		< 0.05	12.2	0.156	0.0032	6.3	< 0.005	< 0.001	7.52	7.46	< 0.0005
P03-01-01	09-Jun-06	5.02		< 0.00002	< 2	0.0148	13.9	0.161	0.0033	7.9	< 0.001	0.00072	7.05	8.14	< 0.0005
P03-01-01	21-Sep-06	4.77		< 0.00002		< 0.05	14.1	0.159	0.0035	7.1	< 0.005	< 0.001	7.15	8.06	< 0.0005
P03-01-01	01-Jun-07	4.03		< 0.00002	2.5	0.0143	13.9	0.162	0.0051	8	< 0.001	< 0.0005	6.82	8.19	< 0.0005
P03-01-01	10-Oct-07	4.13		< 0.00002	2.4	0.0137	13.4	0.134	0.0037	7.7	< 0.001	< 0.0005	7.32	8.09	< 0.0005
P03-01-02	03-May-05	0.282	190	< 0.0002		< 0.05	11	1.09	0.0046	3.6	< 0.005	< 0.001	7.67	8.14	< 0.0005
P03-01-02	08-Sep-05	0.432	221	< 0.0002		< 0.05	11.3	1.42	0.0042	4.1	< 0.005	< 0.001	7.55	7.73	< 0.0005
P03-01-02	09-Jun-06	0.266		< 0.00002	3.3	0.005	11	0.969	0.0065	5	0.0016	< 0.0005	7.13	8.16	< 0.0005
P03-01-02	21-Sep-06	0.542		< 0.0002		< 0.05	12.3	1.26	0.0079	5	< 0.005	< 0.001	7.26	8.11	< 0.0005
P03-01-02	01-Jun-07	0.201		< 0.00002	2.6	< 0.005	10.1	0.688	0.0031	3.3	0.0016	< 0.0005	6.43	8.16	< 0.0005
P03-01-02	10-Oct-07	0.434		< 0.00002	2.8	< 0.005	11.5	0.907	0.0071	5.1	< 0.001	< 0.0005	7.59	8.15	< 0.0005
	Total # samples	12	4	12	6	12	12	12	12	12	12	12	12	12	12
	MEAN	2.37	208.75	0.000055	2.43	0.0169	12.38	0.61	0.0047	5.91	0.0017	0.0004	7.26	8.04	0.0003
	Median	2.286	212	5.5E-05	2.55	0.0199	12.25	0.44	0.0044	5.70	0.00205	0.0005	7.29	8.12	0.00025
	STD	2.1	13.2	4.7001E-05	0.77	0.0094	1.40	0.50	0.0016	1.77	0.00094	0.00016	0.37	0.22	0.00000
	MINIMUM	0.201	190	< 0.00002	< 2	< 0.005	10.1	0.134	0.0031	3.3	< 0.001	< 0.0005	6.43	7.46	< 0.0005
	MAXIMUM	5.02	221	< 0.0002	3.3	< 0.05	14.1	1.42	0.0079	8	< 0.005	< 0.001	7.67	8.19	< 0.0005
	5th Percentile	0.237	193.30	1E-05	1.35	0.0025	10.60	0.15	0.003155	3.46	0.0005	0.00025	6.64	7.61	0.00025
	25th Percentile	0.395	206.5	1E-05	2.43	0.011525	11.23	0.16	0.00345	4.77	0.0005	0.00025	7.11	8.08	0.00025
	75th Percentile	4.16	214.25	1E-04	2.75	0.025	13.83	1.00	0.00545	7.72	0.0025	0.0005	7.56	8.15	0.00025
	95th Percentile	4.88	219.6	1E-04	3.17	0.025	13.99	1.33	0.00746	7.95	0.0025	0.000599	7.64	8.17	0.00025
<b>Second Impoundment Slightly Impacted</b>															
P03-01-03	03-May-05	0.535	177	< 0.0002		< 0.05	9.99	0.162	< 0.001	3.1	< 0.005	< 0.001	6.91	7.88	< 0.0005
P03-01-03	08-Sep-05	< 0.03	159	< 0.0002		< 0.05	8.68	0.037	< 0.001	2.2	< 0.005	< 0.001	7.23	7.38	< 0.0005
P03-01-03	09-Jun-06	< 0.03		< 0.00002	< 2	< 0.005	12.3	0.0527	< 0.001	3.7	0.0015	< 0.0005	6.91	7.97	< 0.0005
P03-01-03	21-Sep-06	< 0.03		< 0.0002		< 0.05	10.2	< 0.01	< 0.001	2.5	< 0.005	< 0.001	6.92	7.91	< 0.0005
P03-01-03	01-Jun-07	< 0.03		< 0.00002	< 2	< 0.005	7.43	0.0049	< 0.001	2.8	0.001	< 0.0005	6.84	7.85	< 0.0005
P03-01-03	10-Oct-07	< 0.03		< 0.00002	< 2	< 0.005	8.34	0.0011	< 0.001	2.6	< 0.001	< 0.0005	7.25	7.85	< 0.0005
P03-01-05	03-May-05	0.444	441	< 0.0002		< 0.05	25.1	0.458	< 0.002	6.6	0.015	< 0.002	6.68	7.33	< 0.001
P03-01-05	08-Sep-05	0.166	208	< 0.0002		< 0.05	10.9	0.29	< 0.001	3.6	0.008	< 0.001	6.53	7.02	< 0.0005
P03-01-05	09-Jun-06	0.707		< 0.00002	2.4	0.0176	15.4	0.353	< 0.001	5.5	0.0182	< 0.0005	6.3	7.49	< 0.0005
P03-01-05	21-Sep-06	0.072		< 0.0002		< 0.05	10.2	0.346	< 0.001	3.7	0.013	< 0.001	6.53	7.25	< 0.0005

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
SRK05-SP-5	20-Sep-06	< 0.05	< 0.025	4360		3.3	< 0.03	< 0.01	0.01	0.09	218
SRK05-SP-5	28-May-07	< 0.1	< 0.05	5180		2.5	< 0.02	< 0.02	< 0.02	< 0.06	234
SRK05-SP-5	03-Oct-07	< 0.1	< 0.05	4800		2.1	< 0.02	< 0.02	< 0.02	< 0.1	324
	Total # samples	22	16	22		21	22	22	22	22	22
	MEAN	0.0316	0.01703	4610.5		3.64	0.034	0.006	0.007	0.056	234.73
	Median	0.025	0.0125	4690		3.60	0.01	0.005	0.005	0.05	211.50
	STD	0.01357	0.00765	837.9		1.42	0.040	0.0027	0.0024	0.026	89.46
	MINIMUM	< 0.02	< 0.01	1860		1.2	< 0.02	< 0.004	0.0057	< 0.05	113
	MAXIMUM	< 0.1	< 0.05	6280		6.5	< 0.25	< 0.02	< 0.02	< 0.15	447
	5th Percentile	0.0107	0.005	3672.5		1.80	0.01	0.00215	0.005	0.03	118.450
	25th Percentile	0.025	0.0125	4382.5		2.50	0.01	0.005	0.005	0.03	169
	75th Percentile	0.05	0.025	4942.5		4.70	0.04975	0.01	0.01	0.075	303.75
	95th Percentile	0.05	0.025	5752.0		5.70	0.125	0.01	0.01	0.101	372.60
<b>Second Impoundment Non-Impacted</b>											
P03-01-01	03-May-05	< 0.001		11		4.1	< 0.05	< 0.0002	< 0.0002	< 0.03	0.0065
P03-01-01	08-Sep-05	< 0.001		18.3		5.2	< 0.05	< 0.0002	0.00027	< 0.03	< 0.005
P03-01-01	09-Jun-06	< 0.001	< 0.0005	20.4		7.4	< 0.01	< 0.0002	0.00027	< 0.03	< 0.005
P03-01-01	21-Sep-06	< 0.001		22		5.5	< 0.05	< 0.0002	0.00035	< 0.03	< 0.005
P03-01-01	01-Jun-07	< 0.001	< 0.0005	24.9		5.3	< 0.01	< 0.0002	0.00032	< 0.03	< 0.005
P03-01-01	10-Oct-07	< 0.001	< 0.0005	21.8		3.5	< 0.01	< 0.0002	0.00036	< 0.001	0.006
P03-01-02	03-May-05	< 0.001		49.2		3.9	< 0.05	< 0.0002	0.00216	< 0.03	0.0052
P03-01-02	08-Sep-05	< 0.001		46.3		4.4	< 0.05	< 0.0002	0.00206	< 0.03	< 0.005
P03-01-02	09-Jun-06	< 0.001	< 0.0005	26		5.5	< 0.01	< 0.0002	0.00245	< 0.03	< 0.005
P03-01-02	21-Sep-06	< 0.001		22.7		5.6	< 0.05	< 0.0002	0.00287	< 0.03	0.0105
P03-01-02	01-Jun-07	< 0.001	< 0.0005	37.8		5.4	< 0.01	< 0.0002	0.00289	< 0.03	< 0.005
P03-01-02	10-Oct-07	< 0.001	< 0.0005	26.4		3.6	< 0.01	< 0.0002	0.003	< 0.001	0.0114
	Total # samples	12	6	12		12	12	12	12	12	12
	MEAN	0.0005	0.00025	27.2		4.95	0.015	0.000	0.001	0.013	0.00
	Median	0.0005	0.00025	23.8		5.25	0.015	1E-04	0.00121	0.015	0.0025
	STD	0.00000	0.00000	11.4		1.11	0.010	0.0000	0.0012	0.006	0.00
	MINIMUM	< 0.001	< 0.0005	11		3.5	< 0.01	< 0.0002	< 0.0002	< 0.001	< 0.005
	MAXIMUM	< 0.001	< 0.0005	49.2		7.4	< 0.05	< 0.0002	0.003	< 0.03	0.0114
	5th Percentile	0.0005	0.00025	15.0		3.55	0.005	1E-04	0.0001935	0.0005	0.0025
	25th Percentile	0.0005	0.00025	21.45		4.05	0.005	1E-04	0.0003075	0.015	0.0025
	75th Percentile	0.0005	0.00025	29.2		5.50	0.025	1E-04	0.002555	0.015	0.006125
	95th Percentile	0.0005	0.00025	47.6		6.41	0.025	1E-04	0.0029395	0.015	0.010905
<b>Second Impoundment Slightly Impacted</b>											
P03-01-03	03-May-05	< 0.001		65.8		5.7	< 0.05	< 0.0002	0.00354	< 0.03	0.0079
P03-01-03	08-Sep-05	< 0.001		53.5		4.4	< 0.05	< 0.0002	0.0043	< 0.03	< 0.005
P03-01-03	09-Jun-06	< 0.001	< 0.0005	112		7	< 0.01	< 0.0002	0.00315	< 0.03	0.0056
P03-01-03	21-Sep-06	< 0.001		57.6		5.4	< 0.05	< 0.0002	0.00302	< 0.03	0.0074
P03-01-03	01-Jun-07	< 0.001	< 0.0005	40.5		5.9	< 0.01	< 0.0002	0.001	< 0.03	< 0.005
P03-01-03	10-Oct-07	< 0.001	< 0.0005	44.9		3.5	< 0.01	< 0.0002	0.00191	< 0.001	0.0064
P03-01-05	03-May-05	< 0.002		327		4.9	< 0.05	< 0.0004	< 0.0004	< 0.03	0.0306
P03-01-05	08-Sep-05	< 0.001		134		4.5	< 0.05	< 0.0002	< 0.0002	< 0.03	0.0146
P03-01-05	09-Jun-06	< 0.001	< 0.0005	191		15.5	< 0.01	< 0.0002	< 0.0002	< 0.03	0.0301
P03-01-05	21-Sep-06	< 0.001		139		5.7	< 0.05	< 0.0002	< 0.0002	< 0.03	0.0216

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-01-05	01-Jun-07	< 0.00004	< 0.01	12.5	< 0.001	0.065	< 0.1	< 0.002	108	0.00079	0.00206	606	575	< 0.002	< 0.002
P03-01-05	10-Oct-07	< 0.00002	0.0117	37.2	< 0.0005	0.037	< 0.1	< 0.001	52.9	0.0005	0.0016	327	366	< 0.001	< 0.001
P03-02-01	11-May-05	< 0.00005	< 0.01	148	< 0.001	0.085	< 0.3	< 0.015	63	< 0.00005	< 0.0005	388	363	< 0.0005	< 0.001
P03-02-01	08-Sep-05	< 0.00005	< 0.01	143	< 0.001	0.097	< 0.1	< 0.005	70.2	< 0.00005	0.00051	342	416	< 0.0005	< 0.001
P03-02-01	08-Jun-06	< 0.00002	0.0084	164	0.00061	0.089	< 0.1	< 0.001	58.9	< 0.000017	0.00048	460.1	350	< 0.001	< 0.001
P03-02-01	21-Sep-06	< 0.00005	< 0.01	168	< 0.001	0.097	< 0.1	< 0.005	62.6	< 0.00005	< 0.0005	415	407	< 0.0005	< 0.001
P03-02-01	01-Jun-07	< 0.00002	0.0115	158	< 0.0005	0.082	< 0.1	< 0.001	63.1	< 0.000017	0.00036	351	332	< 0.001	< 0.001
P03-02-01	05-Oct-07	< 0.00002	0.0053	169	0.00051	0.087	< 0.1	< 0.001	62.1	< 0.000017	0.00036	334	381	< 0.001	< 0.001
P03-02-02	11-May-05	< 0.00005	< 0.01	92.9	< 0.001	0.083	< 0.3	< 0.015	42.4	< 0.00005	< 0.0005	275	262	< 0.0005	< 0.001
P03-02-02	08-Sep-05	< 0.00005	< 0.01	101	< 0.001	0.098	< 0.1	< 0.005	48.5	< 0.00005	< 0.0005	298	336	< 0.0005	< 0.001
P03-02-02	08-Jun-06	< 0.00002	0.0063	104	< 0.0005	0.094	< 0.1	< 0.001	41.6	0.000029	< 0.0003	219.1	266	< 0.001	< 0.001
P03-02-02	21-Sep-06	< 0.00005	< 0.01	102	< 0.001	0.125	< 0.1	< 0.005	50.5	< 0.00005	< 0.0005	297.5	368	< 0.0005	< 0.001
P03-02-02	01-Jun-07	< 0.00002	< 0.005	102	< 0.0005	0.091	< 0.1	< 0.001	50.6	0.000028	< 0.0003	283	266	< 0.001	< 0.001
P03-02-02	05-Oct-07	< 0.00002	0.0068	104	< 0.0005	0.1	< 0.1	< 0.001	45.6	0.000036	< 0.0003	276	303	< 0.001	< 0.001
P03-02-03	11-May-05	< 0.00005	< 0.01	92.5	< 0.001	0.083	< 0.3	< 0.015	41.8	< 0.00005	< 0.0005	259	263	< 0.0005	< 0.001
P03-02-03	08-Sep-05	< 0.00005	< 0.01	91	< 0.001	0.097	< 0.1	< 0.005	44.1	< 0.00005	< 0.0005	280	317	< 0.0005	< 0.001
P03-02-03	08-Jun-06	< 0.00002	0.0141	97.9	< 0.0005	0.099	< 0.1	< 0.001	38.7	< 0.000017	< 0.0003	178.1	255	< 0.001	< 0.001
P03-02-03	22-Sep-06	< 0.00005	< 0.01	97.4	< 0.001	0.147	< 0.1	< 0.005	60.1	< 0.00005	< 0.0005	202.8	399	< 0.0005	< 0.001
P03-02-03	01-Jun-07	< 0.00002	< 0.005	98.2	< 0.0005	0.086	< 0.1	< 0.001	49.1	0.000026	< 0.0003	269	250	< 0.001	< 0.001
P03-02-03	05-Oct-07	< 0.00002	0.0093	114	< 0.0005	0.118	< 0.1	< 0.001	56	0.000037	< 0.0003	325	382	< 0.001	< 0.001
P03-04-04	03-May-05	< 0.0001	< 0.02	208	0.0049	0.051	< 0.1	< 0.005	127	< 0.0001	0.0025	655	1080	< 0.001	< 0.002
P03-04-04	22-Jul-05	< 0.0001	< 0.02	193	0.006	0.064	< 0.1	< 0.005	144	< 0.0001	0.0044	1006	1170	< 0.001	< 0.002
P03-04-04	10-Sep-05	< 0.00025	< 0.05	92.8	< 0.005	0.02	< 0.1	< 0.005	234	0.00056	0.0659	1019	1410	< 0.0025	< 0.005
P03-04-04	31-Oct-05	< 0.01	< 0.2	216	< 0.2	0.052	< 0.1	< 0.005	135	< 0.01	< 0.01	665	1120	< 0.01	< 0.01
P03-04-04	07-Jun-06	< 0.00004	0.011	95.8	0.0056	0.063	< 0.1	< 0.002	134	< 0.000034	0.00189	627	1060	< 0.002	< 0.002
P03-04-04	02-Aug-06	< 0.00004	< 0.01	202	0.0052	0.052	< 0.1	< 0.002	136	< 0.000034	0.00268	597	1130	< 0.002	< 0.002
P03-04-04	20-Sep-06	< 0.0001	< 0.025	234	0.0054	0.053	< 0.1	< 0.005	153	< 0.000085	0.0029	607	1120	< 0.005	< 0.005
P03-04-04	02-Nov-06	< 0.0001	< 0.025	222	0.0056	0.06	< 0.2	< 0.005	162	< 0.000085	0.0054	1220	1180	< 0.005	< 0.005
P03-04-04	30-May-07	< 0.0002	0.172	209	0.0067	0.059	< 0.1	< 0.01	182	< 0.00017	0.0057	1212	1110	< 0.01	< 0.01
P03-04-04	02-Aug-07	< 0.00004	< 0.01	222	0.0055	0.046	< 0.1	< 0.002	176	< 0.000034	0.00319	1177	1220	< 0.002	< 0.002
P03-04-04	04-Oct-07	< 0.0001	< 0.025	222	0.0058	0.055	< 0.1	< 0.005	162	< 0.000085	0.0031	1084	1220	< 0.005	< 0.005
P03-04-04	05-Nov-07	< 0.00004	< 0.01	215	0.006	0.056	< 0.1	< 0.002	169	< 0.000034	0.00464	1079	1260	< 0.002	< 0.002
P03-05-02	04-May-05	< 0.00025	< 0.05	136	0.0054	0.125	< 0.1	< 0.005	156	< 0.00025	0.0086	1008	979	< 0.0025	< 0.005
P03-05-02	10-Sep-05	< 0.00025	< 0.05	123	0.0052	0.137	< 0.1	< 0.005	172	< 0.00025	0.0091	818	1040	< 0.0025	< 0.005
P03-05-02	15-Jun-06	< 0.0001	0.034	139	0.0047	0.139	< 0.1	< 0.005	186	< 0.000085	0.0105	1115	1100	< 0.005	< 0.005
P03-05-02	02-Nov-06	< 0.0002	< 0.05	132	0.0054	0.129	< 0.2	< 0.01	173	< 0.00017	0.0139	860	1040	< 0.01	< 0.01
P03-05-02	31-May-07	< 0.0002	0.068	138	< 0.005	0.097	< 0.1	< 0.01	156	< 0.00017	0.0147	989	890	< 0.01	< 0.01
P03-05-02	02-Oct-07	< 0.0001	< 0.025	137	0.0053	0.119	< 0.1	< 0.005	158	< 0.000085	0.0155	985	994	< 0.005	< 0.005
P03-05-03	04-May-05	< 0.00025	< 0.05	140	< 0.005	0.166	< 0.1	< 0.005	143	< 0.00025	0.0041	890	875	< 0.0025	< 0.005
P03-05-03	10-Sep-05	< 0.00025	< 0.05	145	< 0.005	0.155	< 0.1	< 0.005	137	< 0.00025	0.0044	633	863	< 0.0025	< 0.005
P03-05-03	15-Jun-06	< 0.0001	< 0.025	152	< 0.0025	0.184	< 0.1	< 0.005	160	< 0.000085	0.0048	912	970	< 0.005	< 0.005
P03-05-03	02-Nov-06	< 0.0002	< 0.05	155	< 0.005	0.164	< 0.2	< 0.01	146	< 0.00017	0.0051	930	913	< 0.01	< 0.01
P03-05-03	31-May-07	< 0.00004	< 0.01	157	< 0.001	0.135	< 0.1	< 0.002	149	< 0.000034	0.00532	903	836	< 0.002	< 0.002
P03-05-03	02-Oct-07	< 0.00004	< 0.01	157	< 0.001	0.168	< 0.1	< 0.002	148	0.000049	0.00509	913	935	< 0.002	< 0.002
P03-05-04	04-May-05	< 0.00025	< 0.05	141	< 0.005	0.177	< 0.1	< 0.005	143	< 0.00025	0.0049	900	881	< 0.0025	< 0.005
P03-05-04	10-Sep-05	< 0.00025	< 0.05	154	< 0.005	0.186	< 0.1	< 0.005	155	< 0.00025	0.0046	605	868	< 0.0025	< 0.005
P03-05-04	15-Jun-06	< 0.0001	< 0.025	161	< 0.0025	0.19	< 0.1	< 0.005	161	< 0.000085	0.0051	808	983	< 0.005	< 0.005
P03-05-04	31-May-07	< 0.0001	< 0.025	155	< 0.0025	0.148	< 0.1	< 0.005	153	0.000125	0.005	904	834	< 0.005	< 0.005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-01-05	01-Jun-07	0.112		< 0.00002	2.3	0.023	16.1	0.689	< 0.002	7.4	0.0345	< 0.001	6.37	6.98	< 0.001
P03-01-05	10-Oct-07	0.049		< 0.00002	< 2	0.0192	8.72	0.664	< 0.001	5.1	0.0211	< 0.0005	6.5	7.2	< 0.0005
P03-02-01	11-May-05	0.136	199	< 0.0002		< 0.15	10.1	0.611	0.0023	< 6	< 0.005	< 0.001		8.05	< 0.0005
P03-02-01	08-Sep-05	0.152	222	< 0.0002		< 0.05	11.3	0.573	0.0018	2.9	< 0.005	< 0.001	7.4	6.2	< 0.0005
P03-02-01	08-Jun-06	0.133		< 0.00002	< 2	< 0.005	9.56	0.384	0.0021	3	0.0011	0.00102	6.81	7.98	< 0.0005
P03-02-01	21-Sep-06	0.308		< 0.0002		< 0.05	10.2	0.486	0.0018	2.4	< 0.005	< 0.001	7.18	7.34	< 0.0005
P03-02-01	01-Jun-07	0.15		< 0.00002	2.1	< 0.005	9.39	0.311	0.0017	3.5	< 0.001	< 0.0005	7.1	7.9	< 0.0005
P03-02-01	05-Oct-07	0.121		< 0.00002	2.2	< 0.005	9.98	0.309	0.0014	3.1	< 0.001	< 0.0005	7.33	7.91	< 0.0005
P03-02-02	11-May-05	< 0.09	138	< 0.0002		< 0.15	7.71	< 0.03	< 0.001	< 6	< 0.005	< 0.001		7.73	< 0.0005
P03-02-02	08-Sep-05	0.04	158	< 0.0002		< 0.05	8.93	< 0.01	< 0.001	2.3	< 0.005	< 0.001	7.05	6.81	< 0.0005
P03-02-02	08-Jun-06	< 0.03		< 0.00002	< 2	< 0.005	7.94	0.00119	< 0.001	2.6	< 0.001	0.00068	6.65	7.86	< 0.0005
P03-02-02	21-Sep-06	< 0.03		< 0.0002		< 0.05	10.5	< 0.01	< 0.001	2.4	< 0.005	< 0.001	7.29	7.48	< 0.0005
P03-02-02	01-Jun-07	0.229		< 0.00002	< 2	< 0.005	8.52	0.00222	< 0.001	3	< 0.001	< 0.0005	7.01	7.8	< 0.0005
P03-02-02	05-Oct-07	< 0.03		< 0.00002	< 2	< 0.005	8.71	0.00069	< 0.001	2.9	< 0.001	< 0.0005	6.57	7.48	< 0.0005
P03-02-03	11-May-05	0.514	136	< 0.0002		< 0.15	7.63	< 0.03	< 0.001	< 6	< 0.005	< 0.001		7.47	< 0.0005
P03-02-03	08-Sep-05	0.129	144	< 0.0002		< 0.05	8.08	0.014	< 0.001	2.3	< 0.005	< 0.001	6.83	6.98	< 0.0005
P03-02-03	08-Jun-06	0.049		< 0.00002	< 2	< 0.005	7.34	0.00374	< 0.001	2.4	< 0.001	0.00514	6.97	7.87	< 0.0005
P03-02-03	22-Sep-06	0.035		< 0.0002		< 0.05	11.6	< 0.01	< 0.001	2.5	< 0.005	< 0.001	7.01	7.56	< 0.0005
P03-02-03	01-Jun-07	< 0.03		< 0.00002	< 2	< 0.005	8.09	0.00275	< 0.001	2.8	< 0.001	< 0.0005	6.78	7.83	< 0.0005
P03-02-03	05-Oct-07	< 0.03		< 0.00002	< 2	0.0051	10.6	0.00066	< 0.001	2.9	< 0.001	< 0.0005	7.2	7.59	< 0.0005
P03-04-04	03-May-05	3.53	393	< 0.0002		< 0.05	18.3	2.84	0.0025	86.9	< 0.01	< 0.002	7.04	8.06	< 0.001
P03-04-04	22-Jul-05	4.32	448	< 0.0002		< 0.05	21.4	4.15	0.0028	87.4	< 0.01	< 0.002	7.06	7.64	< 0.001
P03-04-04	10-Sep-05	0.494	794	< 0.0002		< 0.05	51.1	30.5	< 0.005	29.4	0.107	< 0.005	6.01	6.85	< 0.0025
P03-04-04	31-Oct-05	3.57	407		2.9	0.014	16.8	2.55	< 0.03	92	< 0.05	< 0.05	6.93	7.58	< 0.2
P03-04-04	07-Jun-06	3.06		< 0.00002	2.5	< 0.01	17.8	2.22	0.0021	101	< 0.002	< 0.001	7.08	7.94	< 0.001
P03-04-04	02-Aug-06	4.13		< 0.00002	2.3	< 0.01	19.4	3.91	< 0.002	81.2	< 0.002	< 0.001	7.2	7.96	< 0.001
P03-04-04	20-Sep-06	4.41		< 0.00002	3.1	< 0.025	20.4	4.28	< 0.005	91.5	< 0.005	< 0.0025	6.75	7.84	< 0.0025
P03-04-04	02-Nov-06	5.43		< 0.00002	< 4	< 0.025	23.6	5.82	< 0.005	85.1	< 0.005	< 0.0025	7.45	7.56	< 0.0025
P03-04-04	30-May-07	5.63		< 0.00002	3.2	< 0.05	24.5	6.12	< 0.01	91	< 0.01	< 0.005	7.12	7.96	< 0.005
P03-04-04	02-Aug-07	5.5	538	< 0.00002	2.9	< 0.01	24.2	4.47	< 0.002	91.5	< 0.002	< 0.001	7.3	7.88	< 0.001
P03-04-04	04-Oct-07	4.9		< 0.00002	3.2	< 0.025	23	4.56	< 0.005	93	< 0.005	< 0.0025	7.6	7.66	< 0.0025
P03-04-04	05-Nov-07	5.98	525	< 0.00005	3.2	< 0.01	25	6.06	< 0.002	92.7	0.0033	< 0.001	7.77	7.93	< 0.001
P03-05-02	04-May-05	6.15	516	< 0.0002		< 0.05	30.7	11	< 0.005	11.4	< 0.025	< 0.005	6.32	7.66	< 0.0025
P03-05-02	10-Sep-05	6.52	561	< 0.0002		< 0.05	32.2	12	< 0.005	10.5	< 0.025	< 0.005	6.73	7.42	< 0.0025
P03-05-02	15-Jun-06	7.98		< 0.00002	2.1	< 0.025	36.3	13.5	< 0.005	12.9	0.0193	< 0.0025	6.97	7.56	< 0.0025
P03-05-02	02-Nov-06	7.81		< 0.00002	< 4	< 0.05	32.8	16.8	< 0.01	12.3	0.025	< 0.005	7.05	7.22	< 0.005
P03-05-02	31-May-07	7.25		< 0.00002	2.1	< 0.05	28.8	13.2	< 0.01	11.2	0.024	< 0.005	6.7	7.63	< 0.005
P03-05-02	02-Oct-07	7.66		0.000025	2.7	< 0.025	30.5	14.9	< 0.005	12	0.0245	< 0.0025	6.94	7.06	< 0.0025
P03-05-03	04-May-05	0.896	469	< 0.0002		< 0.05	26.9	10.5	< 0.005	11.7	< 0.025	< 0.005	6.94	7.77	< 0.0025
P03-05-03	10-Sep-05	1.14	442	< 0.0002		< 0.05	24.3	9.59	< 0.005	10	< 0.025	< 0.005	7.04	7.66	< 0.0025
P03-05-03	15-Jun-06	1.36		< 0.00002	< 2	< 0.025	30.7	11	< 0.005	12.8	< 0.005	< 0.0025	7.42	7.8	< 0.0025
P03-05-03	02-Nov-06	1.22		< 0.00002	< 4	< 0.05	26.3	10.9	< 0.01	12.1	< 0.01	< 0.005	6.95	7.4	< 0.005
P03-05-03	31-May-07	1.29		< 0.00002	< 2	< 0.01	25.1	11.5	< 0.002	10.9	0.0027	< 0.001	6.91	7.77	< 0.001
P03-05-03	02-Oct-07	1.39		< 0.00002	2.4	< 0.01	27.2	8.94	< 0.002	11.8	0.0024	< 0.001	6.78	7.49	< 0.001
P03-05-04	04-May-05	0.094	466	< 0.0002		< 0.05	26.7	11.4	< 0.005	11.8	< 0.025	< 0.005	7.1	7.8	< 0.0025
P03-05-04	10-Sep-05	0.094	497	< 0.0002		< 0.05	27.1	10.9	< 0.005	11.3	< 0.025	< 0.005	6.97	7.22	< 0.0025
P03-05-04	15-Jun-06	0.133		< 0.00002	< 2	< 0.025	29.6	12.5	< 0.005	11.9	< 0.005	< 0.0025	7.13	7.76	< 0.0025
P03-05-04	31-May-07	0.138		< 0.00002	< 2	< 0.025	25.9	10.5	< 0.005	11.1	< 0.005	< 0.0025	7	7.76	< 0.0025

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-01-05	01-Jun-07	< 0.002	< 0.001	262		6.1	< 0.01	< 0.0004	< 0.0004	< 0.03	0.0419
P03-01-05	10-Oct-07	< 0.001	< 0.0005	134		3.6	< 0.01	< 0.0002	< 0.0002	< 0.001	0.0264
P03-02-01	11-May-05	< 0.001		36		5.2	< 0.15	< 0.0002	0.00126	< 0.09	< 0.015
P03-02-01	08-Sep-05	< 0.001		62.8		4.5	< 0.05	< 0.0002	0.00157	< 0.03	< 0.005
P03-02-01	08-Jun-06	< 0.001	< 0.0005	30.4		7.1	< 0.01	< 0.0002	0.00174	< 0.03	< 0.005
P03-02-01	21-Sep-06	< 0.001		66.9		5.2	< 0.05	< 0.0002	0.00191	< 0.03	0.0167
P03-02-01	01-Jun-07	< 0.001	< 0.0005	33.8		4.5	< 0.01	< 0.0002	0.0017	< 0.03	0.18
P03-02-01	05-Oct-07	< 0.001	< 0.0005	42		3.7	< 0.01	< 0.0002	0.00213	< 0.001	< 0.005
P03-02-02	11-May-05	< 0.001		32.7		4.3	< 0.15	< 0.0002	0.00069	< 0.09	< 0.015
P03-02-02	08-Sep-05	< 0.001		66.3		4.1	< 0.05	< 0.0002	0.00092	< 0.03	0.0066
P03-02-02	08-Jun-06	< 0.001	< 0.0005	31.8		6.7	< 0.01	< 0.0002	0.0008	< 0.03	< 0.005
P03-02-02	21-Sep-06	< 0.001		102		4.8	< 0.05	< 0.0002	0.00061	< 0.03	0.0079
P03-02-02	01-Jun-07	< 0.001	< 0.0005	39.4		4.4	< 0.01	< 0.0002	0.00098	< 0.03	0.0072
P03-02-02	05-Oct-07	< 0.001	< 0.0005	46.7		3.6	< 0.01	< 0.0002	0.00097	< 0.001	< 0.005
P03-02-03	11-May-05	< 0.001		33.2		4.7	< 0.15	< 0.0002	0.00075	< 0.09	0.086
P03-02-03	08-Sep-05	< 0.001		67.9		4.3	< 0.05	< 0.0002	0.00044	< 0.03	0.0074
P03-02-03	08-Jun-06	< 0.001	< 0.0005	30.4		7.6	< 0.01	< 0.0002	0.00067	< 0.03	< 0.005
P03-02-03	22-Sep-06	< 0.001		125		4.2	< 0.05	< 0.0002	0.00059	< 0.03	0.0165
P03-02-03	01-Jun-07	< 0.001	< 0.0005	37.5		4.8	< 0.01	< 0.0002	0.00125	< 0.03	< 0.005
P03-02-03	05-Oct-07	< 0.001	< 0.0005	83.4		4	< 0.01	< 0.0002	0.00171	< 0.001	0.0071
P03-04-04	03-May-05	< 0.002		409		4	< 0.05	< 0.0004	0.00228	< 0.03	0.0059
P03-04-04	22-Jul-05	< 0.002		422		6.5	< 0.05	< 0.0004	0.00326	< 0.03	0.0054
P03-04-04	10-Sep-05	< 0.005		702		5.5	< 0.05	< 0.001	< 0.001	< 0.08	0.0569
P03-04-04	31-Oct-05	< 0.2	< 0.03	361		3.9	< 0.01	< 0.2		< 0.03	0.0078
P03-04-04	07-Jun-06	< 0.002	< 0.001	356		6.7	< 0.01	< 0.0004	0.00262	< 0.03	0.0055
P03-04-04	02-Aug-06	< 0.002	< 0.001	394		5.8	< 0.01	< 0.0004	0.00287	< 0.03	0.0054
P03-04-04	20-Sep-06	< 0.005	< 0.0025	404		4.8	< 0.01	< 0.001	0.0028	< 0.03	0.0232
P03-04-04	02-Nov-06	< 0.005	< 0.0025	459		1.9	< 0.02	< 0.001	0.0026	< 0.06	0.015
P03-04-04	30-May-07	< 0.01	< 0.005	448		7.3	< 0.01	< 0.002	0.0024	< 0.03	0.0054
P03-04-04	02-Aug-07	< 0.002	< 0.001	432		13	< 0.01	< 0.0004	0.00238	< 0.03	0.0081
P03-04-04	04-Oct-07	< 0.005	< 0.0025	399		4.3	< 0.01	< 0.001	0.0025	< 0.005	0.0064
P03-04-04	05-Nov-07	< 0.002	< 0.001	464		6.9	< 0.01	< 0.0004	0.00242	< 0.002	0.0062
P03-05-02	04-May-05	< 0.005		437		4.4	< 0.05	< 0.001	0.0044	0.044	0.0079
P03-05-02	10-Sep-05	< 0.005		454		5	< 0.05	< 0.001	0.0038	< 0.03	0.0074
P03-05-02	15-Jun-06	< 0.005	< 0.0025	513		13.1	< 0.01	< 0.001	0.0039	< 0.03	0.0068
P03-05-02	02-Nov-06	< 0.01	< 0.005	474		0.4	< 0.02	< 0.002	0.0039	< 0.06	0.008
P03-05-02	31-May-07	< 0.01	< 0.005	433		5.7	< 0.01	< 0.002	0.0041	< 0.03	0.0054
P03-05-02	02-Oct-07	< 0.005	< 0.0025	398		6.1	< 0.01	< 0.001	0.0037	< 0.005	0.0077
P03-05-03	04-May-05	< 0.005		360		4	< 0.05	< 0.001	0.0041	0.039	0.0073
P03-05-03	10-Sep-05	< 0.005		336		5.3	< 0.05	< 0.001	0.0043	< 0.03	0.0062
P03-05-03	15-Jun-06	< 0.005	< 0.0025	396		11.7	< 0.01	< 0.001	0.0052	< 0.03	0.0079
P03-05-03	02-Nov-06	< 0.01	< 0.005	361		0.5	< 0.02	< 0.002	0.0049	< 0.06	0.0093
P03-05-03	31-May-07	< 0.002	< 0.001	366		6.2	< 0.01	< 0.0004	0.00531	< 0.03	< 0.005
P03-05-03	02-Oct-07	< 0.002	< 0.001	331		5	< 0.01	< 0.0004	0.00499	< 0.002	0.0092
P03-05-04	04-May-05	< 0.005		365		3.8	< 0.05	< 0.001	0.0051	< 0.03	0.0076
P03-05-04	10-Sep-05	< 0.005		334		5.3	< 0.05	< 0.001	0.0047	< 0.03	0.0066
P03-05-04	15-Jun-06	< 0.005	< 0.0025	410		10.9	< 0.01	< 0.001	0.0052	< 0.03	0.0083
P03-05-04	31-May-07	< 0.005	< 0.0025	374		5.1	< 0.01	< 0.001	0.0052	< 0.03	0.0056



**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-05-04	02-Oct-07	< 0.00004	< 0.01	165	< 0.001	0.176	< 0.1	< 0.002	152	0.000113	0.00516	928	946	< 0.002	< 0.002
	Total # samples	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	MEAN	0.00013	0.016	135.85	0.004	0.101	0.058	0.002	107.4	0.0002	0.0042	601	695	0.0013	0.0015
	Median	0.00025	0.0093	138	0.00051	0.094	0.05	0.0025	127.00	0.00004	0.00189	597	724	0.0005	0.001
	STD	0.000647	0.02596	48.354	0.01293	0.043	0.024	0.0017	53.54	0.00066	0.00897	329.8	359.8	0.0014	0.001358
	MINIMUM	< 0.00002	< 0.005	12.5	< 0.0005	0.02	< 0.1	< 0.001	38.7	< 0.000017	< 0.0003	178.1	250	< 0.0005	< 0.001
	MAXIMUM	< 0.01	< 0.2	234	< 0.2	0.19	< 0.3	< 0.015	234	< 0.01	0.0659	1220	1410	< 0.01	< 0.01
	5th Percentile	1E-05	0.0025	64.07	0.00025	0.0456	0.05	0.0005	42.3	8.5E-06	0.00015	204.2	261.3	0.00025	0.0005
	25th Percentile	2E-05	0.005	99.95	0.0005	0.0645	0.05	0.001	52.6	2.5E-05	0.00025	290.25	352	0.0005	0.0005
	75th Percentile	5E-05	0.01275	159.5	0.0048	0.1320	0.05	0.0025	154.0	0.000113	0.00500	908	1017	0.00125	0.0025
	95th Percentile	0.000125	0.03739995	222	0.006	0.1777	0.105	0.005	176.6	0.000506	0.01398	1121.2	1220	0.005	0.005
<b>Second Impoundment</b>															
<b>Moderately Impacted</b>															
P03-01-04	03-May-05	< 0.0001	< 0.02	57.9	< 0.002	0.059	< 0.1	< 0.005	102	0.00029	< 0.001	388	567	< 0.001	< 0.002
P03-01-04	08-Sep-05	< 0.00005	< 0.01	57	< 0.001	0.083	< 0.1	< 0.005	86.7	0.000703	< 0.0005	419	543	< 0.0005	< 0.001
P03-01-04	09-Jun-06	< 0.00002	0.0065	72.1	< 0.0005	0.033	< 0.1	< 0.001	65.9	0.00124	0.00317	271.5	440	< 0.001	< 0.001
P03-01-04	21-Sep-06	< 0.00005	< 0.01	64.5	< 0.001	0.047	< 0.1	< 0.005	27.8	0.00066	0.00143	151.4	201	< 0.0005	0.001
P03-01-04	01-Jun-07	< 0.00004	0.01	22.6	< 0.001	0.034	< 0.1	< 0.002	91.2	0.00286	0.0218	573	544	< 0.002	0.0034
P03-01-04	10-Oct-07	< 0.00002	0.0143	31.9	< 0.0005	0.035	< 0.1	< 0.001	22.6	0.000716	0.00304	162	187	< 0.001	0.001
P03-01-06	03-May-05	< 0.00025	< 0.05	50.1	0.0092	0.104	< 0.1	< 0.005	56.7	< 0.00025	0.0558	638	963	< 0.0025	< 0.005
P03-01-06	08-Sep-05	< 0.0001	0.027	11.3	0.0096	0.07	< 0.1	< 0.005	46.3	< 0.0001	0.0636	524	750	< 0.001	< 0.002
P03-01-06	09-Jun-06	< 0.00004	< 0.01	20.4	0.0098	0.074	< 0.1	< 0.002	42.3	< 0.000034	0.0336	722	722	< 0.002	< 0.002
P03-01-06	21-Sep-06	< 0.0001	0.022	11.8	0.0093	0.087	< 0.1	< 0.005	50.7	< 0.0001	0.0734	301.5	873	< 0.001	< 0.002
P03-01-06	01-Jun-07	< 0.0001	0.027	11.4	0.0087	0.081	< 0.1	< 0.005	62	< 0.000085	0.0405	1038	888	< 0.005	< 0.005
P03-01-06	10-Oct-07	< 0.00004	0.025	30.1	0.0086	0.071	< 0.1	< 0.002	53.8	< 0.000034	0.052	887	965	< 0.002	< 0.002
P03-02-04	11-May-05	< 0.0001	< 0.02	64	< 0.002	< 0.06	< 0.3	< 0.015	74.1	0.00014	0.0053	452	515	< 0.001	< 0.002
P03-02-04	08-Sep-05	< 0.00025	< 0.05	57.3	< 0.005	0.049	< 0.1	< 0.005	79.2	< 0.00025	0.0038	407	542	< 0.0025	< 0.005
P03-02-04	08-Jun-06	< 0.00002	0.0213	42.7	0.00374	0.044	< 0.1	< 0.001	48.2	0.00112	0.00367	292	386	< 0.001	< 0.001
P03-02-04	22-Sep-06	< 0.00005	< 0.01	43.4	< 0.001	0.056	< 0.1	< 0.005	93.8	0.00107	0.00496	275	653	< 0.0005	< 0.001
P03-02-04	01-Jun-07	< 0.00004	< 0.01	48.8	< 0.001	0.034	< 0.1	< 0.002	62.3	0.000493	0.00379	408	370	< 0.002	0.002
P03-02-04	05-Oct-07	< 0.0001	< 0.025	44.9	< 0.0025	0.058	< 0.1	< 0.005	71.8	0.000985	0.0044	475	547	< 0.005	< 0.005
P03-04-01	03-May-05	< 0.00025	< 0.05	261	< 0.005	< 0.02	< 0.1	< 0.005	294	< 0.00025	< 0.0025	1154	1860	< 0.0025	< 0.005
P03-04-01	10-Sep-05	< 0.00025	< 0.05	259	< 0.005	< 0.02	< 0.1	< 0.005	363	< 0.00025	< 0.0025	1207	1880	< 0.0025	< 0.005
P03-04-01	07-Jun-06	< 0.0001	0.097	278	< 0.0025	< 0.02	< 0.1	< 0.005	285	< 0.000085	< 0.0015	896	1870	< 0.005	< 0.005
P03-04-01	02-Aug-06											798			
P03-04-01	20-Sep-06	< 0.0001	< 0.025	286	< 0.0025	< 0.02	< 0.1	< 0.005	321	< 0.000085	< 0.0015	1034	1860	< 0.005	< 0.005
P03-04-01	30-May-07	< 0.0001	< 0.025	275	< 0.0025	< 0.02	< 0.1	< 0.005	385	0.000098	< 0.0015	1987	1740	< 0.005	< 0.005
P03-04-01	04-Oct-07	< 0.0001	< 0.025	285	< 0.0025	< 0.02	< 0.1	< 0.005	330	< 0.000085	< 0.0015	1814	2010	< 0.005	< 0.005
P03-04-02	03-May-05	< 0.0005	< 0.1	111	< 0.01	< 0.02	< 0.1	< 0.005	209	0.0006	0.0808	859	1380	< 0.005	< 0.01
P03-04-02	22-Jul-05	< 0.0005	< 0.1	120	< 0.01	< 0.02	< 0.1	< 0.005	216	0.00222	0.0734	1202	1500	< 0.005	< 0.01
P03-04-02	10-Sep-05	< 0.00025	< 0.05	110	< 0.005	0.022	< 0.1	< 0.005	325	0.00246	0.0803	1025	1520	< 0.0025	< 0.005
P03-04-02	31-Oct-05	< 0.01	< 0.2	111	< 0.2	0.017	< 0.1	< 0.005	216	< 0.01	0.078	822	1450	< 0.01	< 0.01
P03-04-02	07-Jun-06	< 0.0001	0.027	107	< 0.0025	< 0.02	< 0.1	< 0.005	227	0.000181	0.0893	715	1490	< 0.005	< 0.005
P03-04-02	02-Aug-06	< 0.0001	< 0.025	117	< 0.0025	< 0.02	< 0.1	< 0.005	237	0.00277	0.0936	798	1640	< 0.005	< 0.005
P03-04-02	20-Sep-06	< 0.0001	< 0.025	135	< 0.0025	< 0.02	< 0.1	< 0.005	305	0.00227	0.099	766	1720	< 0.005	< 0.005
P03-04-02	02-Nov-06	< 0.0004	< 0.1	135	< 0.01	< 0.04	< 0.2	< 0.02	293	< 0.00034	0.111	1830	1750	< 0.02	< 0.02
P03-04-02	30-May-07	< 0.0002	< 0.05	124	< 0.005	< 0.02	< 0.1	< 0.01	309	0.00269	0.121	1661	1490	< 0.01	< 0.01
P03-04-02	02-Aug-07	< 0.0002	0.107	120	< 0.005	< 0.02	< 0.1	< 0.01	328	0.00312	0.131	1738	1840	< 0.01	< 0.01

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-05-04	02-Oct-07	0.151		< 0.00002	2.3	< 0.01	28.3	10.1	< 0.002	11.6	0.0032	< 0.001	6.83	7.4	< 0.001
	<b>Total # samples</b>	59	22	58	35	59	59	59	59	59	59	59	56	59	59
	<b>MEAN</b>	1.81	365.36	4.77586E-05	1.85	0.0185	18.38	4.79	0.0019	22.35	0.0084	0.0015	6.95	7.58	0.0024
	<b>Median</b>	0.229	424	1E-05	2	0.0192	16.80	0.69	0.001	7.40	0.0025	0.0005	6.97	7.66	0.0005
	<b>STD</b>	2.5	183.4	4.43587E-05	0.82	0.0162	9.78	6.15	0.0021	33.22	0.01535	0.00326	6.33	0.36	0.01294
	<b>MINIMUM</b>	< 0.03	136	< 0.00002	< 2	< 0.005	7.34	0.00066	< 0.001	2.2	< 0.001	< 0.0005	0.30	6.2	< 0.0005
	<b>MAXIMUM</b>	7.98	794	< 0.0002	< 4	< 0.15	51.1	30.5	< 0.03	101	0.107	< 0.05	7.77	8.06	< 0.2
	<b>5th Percentile</b>	0.015	138.30	1E-05	1.00	0.0025	7.70	0.00	0.0005	2.39	0.0005	0.00025	6.36	6.97	0.00025
	<b>25th Percentile</b>	0.060	182.5	1E-05	1.00	0.005	9.77	0.03	0.0005	2.95	0.00195	0.0005	6.78	7.40	0.00025
	<b>75th Percentile</b>	3.55	490	1E-04	2.40	0.025	26.10	10.30	0.0025	12.20	0.0125	0.00125	7.12	7.85	0.00125
	<b>95th Percentile</b>	7.29	559.9	1E-04	3.20	0.030	32.26	13.64	0.005	92.07	0.025	0.0025	7.43	7.97	0.0025
<b>Second Impoundment</b>															
<b>Moderately Impacted</b>															
P03-01-04	03-May-05	0.3	328	< 0.0002		< 0.05	18.2	0.075	< 0.002	5.5	0.013	< 0.002	6.81	7.27	< 0.001
P03-01-04	08-Sep-05	< 0.03	271	< 0.0002		< 0.05	13.3	0.168	< 0.001	3.5	0.0528	< 0.001	6.2	6.75	< 0.0005
P03-01-04	09-Jun-06	0.099		< 0.00002	2.1	0.0428	11.5	3.65	< 0.001	4.3	0.147	< 0.0005	6.57	7.48	< 0.0005
P03-01-04	21-Sep-06	< 0.03		< 0.0002		< 0.05	5.04	2.05	< 0.001	2.3	0.0837	< 0.001	6.77	7.26	< 0.0005
P03-01-04	01-Jun-07	< 0.03		< 0.00002	2.2	0.05	14.8	10.4	< 0.002	4.3	0.309	< 0.001	6.68	6.92	< 0.001
P03-01-04	10-Oct-07	< 0.03		< 0.00002	< 2	0.0228	3.88	2.66	< 0.001	2.2	0.0815	< 0.0005	7.06	7.07	< 0.0005
P03-01-06	03-May-05	148	237	< 0.0002		< 0.05	23.2	6.21	< 0.005	45.3	0.053	< 0.005	6.27	6.23	< 0.0025
P03-01-06	08-Sep-05	114	169	< 0.0002		< 0.05	13.1	6.02	< 0.002	18.4	0.054	0.0047	6.38	5.96	< 0.001
P03-01-06	09-Jun-06	88.1		< 0.00002	3.3	< 0.01	15.7	4.04	< 0.002	33.6	0.0392	0.0081	6.46	6.33	0.0015
P03-01-06	21-Sep-06	169		< 0.0002		< 0.05	19.3	6.59	< 0.002	27.8	0.059	< 0.002	6.44	6.14	< 0.001
P03-01-06	01-Jun-07	144		0.000026	4.3	< 0.025	28.2	4.45	< 0.005	39.8	0.0392	< 0.0025	6.26	6.22	< 0.0025
P03-01-06	10-Oct-07	157		< 0.00002	3.6	< 0.01	20.8	5.04	< 0.002	24.3	0.0424	< 0.001	6.65	6.44	< 0.001
P03-02-04	11-May-05	0.621	235	< 0.0002		< 0.15	12.1	8.88	< 0.002	8.7	0.055	< 0.002		7.15	< 0.001
P03-02-04	08-Sep-05	0.574	250	< 0.0002		0.064	12.7	9.1	< 0.005	7.2	0.091	< 0.005	6.29	6.76	< 0.0025
P03-02-04	08-Jun-06	0.425		< 0.00002	< 2	0.0367	8.53	7.03	0.0021	7.4	0.0793	0.00083	7.02	7.28	0.001
P03-02-04	22-Sep-06	0.718		< 0.0002		< 0.05	16.9	18.2	< 0.001	6.9	0.179	< 0.001	7.2	6.95	< 0.0005
P03-02-04	01-Jun-07	0.456		< 0.00002	2	0.031	9.94	8.96	< 0.002	7.1	0.11	< 0.001	6.25	7.12	< 0.001
P03-02-04	05-Oct-07	0.425		< 0.00002	2.2	0.033	13	12.5	< 0.005	6.1	0.176	< 0.0025	6.84	6.76	< 0.0025
P03-04-01	03-May-05	5	924	< 0.0002		< 0.05	46.2	1.43	< 0.005	94.4	< 0.025	< 0.005	6.84	7.92	< 0.0025
P03-04-01	10-Sep-05	5.01	1110	< 0.0002		< 0.05	49.4	1.44	< 0.005	94.8	< 0.025	< 0.005	7.15	7.84	< 0.0025
P03-04-01	07-Jun-06	4.63		< 0.00002	4.2	< 0.025	47	1.37	< 0.005	99.1	< 0.005	< 0.0025	7.26	7.86	< 0.0025
P03-04-01	02-Aug-06												6.28		
P03-04-01	20-Sep-06	4.75		< 0.00002	5.4	< 0.025	46.6	1.53	< 0.005	99.4	< 0.005	< 0.0025	6.93	7.73	< 0.0025
P03-04-01	30-May-07	7.66		< 0.00002	5.5	< 0.025	54.2	1.81	< 0.005	101	< 0.005	< 0.0025	7.12	7.9	< 0.0025
P03-04-01	04-Oct-07	15.1		< 0.00002	5.4	< 0.025	54.1	1.61	< 0.005	97.8	< 0.005	< 0.0025	7.4	7.57	< 0.0025
P03-04-02	03-May-05	0.205	725	< 0.0002		< 0.05	49.6	26.4	< 0.01	36.1	0.12	< 0.01	6.07	7.22	< 0.005
P03-04-02	22-Jul-05	0.123	748	< 0.0002		< 0.05	50.8	29.4	< 0.01	33.9	0.119	< 0.01	6.69	6.81	< 0.005
P03-04-02	10-Sep-05	0.156	1100	< 0.0002		< 0.05	70.5	35.6	< 0.005	33.3	0.132	< 0.005	6.24	6.97	< 0.0025
P03-04-02	31-Oct-05	0.127	748		3.8	0.026	50.9	29.5	< 0.03	34	0.12	< 0.05	5.91	6.6	< 0.2
P03-04-02	07-Jun-06	0.252		< 0.00002	3.1	< 0.025	51.6	30.6	< 0.005	33.5	0.14	< 0.0025	6.19	7.26	< 0.0025
P03-04-02	02-Aug-06	0.075		< 0.00002	3.3	< 0.025	59.8	34.5	< 0.005	32.5	0.139	< 0.0025	6.28	7.3	< 0.0025
P03-04-02	20-Sep-06	0.075		< 0.00002	4.4	< 0.025	68.9	35.9	< 0.005	35.8	0.17	< 0.0025	6.08	7.1	< 0.0025
P03-04-02	02-Nov-06	0.258		< 0.00002	4.1	< 0.1	63.8	39	< 0.02	34.9	0.198	< 0.01	6.46	6.78	< 0.01
P03-04-02	30-May-07	0.2		< 0.00002	4	< 0.05	64.3	38	< 0.01	27.7	0.192	< 0.005	6.39	7.44	< 0.005
P03-04-02	02-Aug-07	0.086	1130	< 0.00002	4	< 0.05	74.5	38.1	< 0.01	28.7	0.203	< 0.005	6.51	7.16	< 0.005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-05-04	02-Oct-07	< 0.002	< 0.001	343		5	< 0.01	< 0.0004	0.00558	< 0.002	0.008
	<b>Total # samples</b>	59	35	59		59	59	59	58	59	59
	<b>MEAN</b>	0.0031	0.00121	245.2		5.56	0.016	0.002	0.002	0.016	0.01
	<b>Median</b>	0.001	0.0005	327		5	0.005	0.0002	0.00239	0.015	0.0074
	<b>STD</b>	0.01290	0.00251	179.7		2.66	0.017	0.0130	0.0017	0.011	0.03
	<b>MINIMUM</b>	< 0.001	< 0.0005	30.4		0.4	< 0.01	< 0.0002	< 0.0002	< 0.001	< 0.005
	<b>MAXIMUM</b>	< 0.2	< 0.03	702		15.5	< 0.15	< 0.2	0.00558	< 0.09	0.18
	<b>5th Percentile</b>	0.0005	0.00025	32.6		3.34	0.005	1E-04	1E-04	0.0005	0.0025
	<b>25th Percentile</b>	0.0005	0.00025	60.20		4.30	0.005	1E-04	0.0009325	0.015	0.00555
	<b>75th Percentile</b>	0.0025	0.00125	398.5		6.10	0.025	0.0005	0.0039	0.015	0.00875
	<b>95th Percentile</b>	0.005	0.0025	465.0		11.83	0.03	0.001	0.0052	0.0441	0.0434
<b>Second Impoundment</b>											
<b>Moderately Impacted</b>											
P03-01-04	03-May-05	< 0.002		246		5	< 0.05	< 0.0004	< 0.0004	< 0.03	0.0271
P03-01-04	08-Sep-05	< 0.001		215		4.6	< 0.05	< 0.0002	< 0.0002	< 0.03	0.19
P03-01-04	09-Jun-06	< 0.001	< 0.0005	146		6.7	< 0.01	< 0.0002	< 0.0002	< 0.03	0.6
P03-01-04	21-Sep-06	< 0.001		50		5.2	< 0.05	< 0.0002	< 0.0002	< 0.03	0.732
P03-01-04	01-Jun-07	< 0.002	< 0.001	251		5.4	< 0.01	< 0.0004	< 0.0004	< 0.03	2.98
P03-01-04	10-Oct-07	< 0.001	< 0.0005	49.4		3.3	< 0.01	< 0.0002	< 0.0002	< 0.001	0.929
P03-01-06	03-May-05	< 0.005		530		3.8	< 0.05	< 0.001	< 0.001	0.06	5.13
P03-01-06	08-Sep-05	< 0.002		343		4.6	< 0.05	< 0.0004	< 0.0004	0.059	4.71
P03-01-06	09-Jun-06	< 0.002	< 0.001	284		12.5	< 0.01	< 0.0004	< 0.0004	< 0.03	2.33
P03-01-06	21-Sep-06	< 0.002		479		5	< 0.05	< 0.0004	< 0.0004	< 0.03	6.49
P03-01-06	01-Jun-07	< 0.005	< 0.0025	501		4.7	< 0.01	< 0.001	< 0.001	< 0.03	5.34
P03-01-06	10-Oct-07	< 0.002	< 0.001	460		3.5	< 0.01	< 0.0004	< 0.0004	< 0.002	6.34
P03-02-04	11-May-05	< 0.002		192		4.5	< 0.15	< 0.0004	< 0.0004	< 0.09	0.096
P03-02-04	08-Sep-05	< 0.005		212		4.5	< 0.05	< 0.001	< 0.001	< 0.03	0.246
P03-02-04	08-Jun-06	< 0.001	< 0.0005	136		7.3	< 0.01	< 0.0002	< 0.0002	< 0.03	0.268
P03-02-04	22-Sep-06	< 0.001		295		4.2	< 0.05	< 0.0002	< 0.0002	< 0.03	1.18
P03-02-04	01-Jun-07	< 0.002	< 0.001	148		5.8	< 0.01	< 0.0004	< 0.0004	< 0.03	0.83
P03-02-04	05-Oct-07	< 0.005	< 0.0025	244		4	< 0.01	< 0.001	< 0.001	< 0.005	1.67
P03-04-01	03-May-05	< 0.005		950		4.5	< 0.05	< 0.001	0.0067	< 0.03	0.0491
P03-04-01	10-Sep-05	< 0.005		838		6	< 0.05	< 0.001	0.0066	< 0.03	0.0082
P03-04-01	07-Jun-06	< 0.005	< 0.0025	894		6.3	< 0.01	< 0.001	0.0058	< 0.03	< 0.005
P03-04-01	02-Aug-06					6.1					
P03-04-01	20-Sep-06	< 0.005	< 0.0025	912		6.9	< 0.01	< 0.001	0.0078	< 0.03	0.0156
P03-04-01	30-May-07	< 0.005	< 0.0025	1010		6.3	< 0.01	< 0.001	0.0069	< 0.03	< 0.02
P03-04-01	04-Oct-07	< 0.005	< 0.0025	900		3.5	< 0.01	< 0.001	0.0074	< 0.005	0.0181
P03-04-02	03-May-05	< 0.01		745		4.5	< 0.05	< 0.002	< 0.002	0.047	0.0459
P03-04-02	22-Jul-05	< 0.01		726		5.1	< 0.05	< 0.002	< 0.002	< 0.03	0.0459
P03-04-02	10-Sep-05	< 0.005		776		6.4	< 0.05	< 0.001	< 0.001	< 0.06	0.0817
P03-04-02	31-Oct-05	< 0.2	< 0.03	679		2.5	< 0.01	< 0.2		< 0.03	0.0503
P03-04-02	07-Jun-06	< 0.005	< 0.0025	696		7.8	< 0.01	< 0.001	< 0.001	< 0.03	0.061
P03-04-02	02-Aug-06	< 0.005	< 0.0025	878		6.1	< 0.01	< 0.001	< 0.001	< 0.03	0.066
P03-04-02	20-Sep-06	< 0.005	< 0.0025	999		6	< 0.01	< 0.001	< 0.001	< 0.03	0.079
P03-04-02	02-Nov-06	< 0.02	< 0.01	1040		1.3	< 0.02	< 0.004	< 0.004	< 0.06	0.067
P03-04-02	30-May-07	< 0.01	< 0.005	977		7.8	< 0.01	< 0.002	< 0.002	< 0.03	0.0575
P03-04-02	02-Aug-07	< 0.01	< 0.005	1010		11.5	< 0.01	< 0.002	< 0.002	< 0.03	0.0643

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-04-02	04-Oct-07	< 0.0002	< 0.05	128	< 0.005	< 0.02	< 0.1	< 0.01	315	0.00296	0.131	1706	1900	< 0.01	< 0.01
P03-04-02	05-Nov-07	< 0.0002	< 0.05	131	< 0.005	< 0.02	< 0.1	< 0.01	312	0.00298	0.136	1670	1920	< 0.01	< 0.01
P03-04-03	03-May-05	< 0.0005	< 0.1	88	< 0.01	< 0.02	< 0.1	< 0.005	185	0.00064	0.0667	818	1350	< 0.005	< 0.01
P03-04-03	10-Sep-05	< 0.00025	< 0.05	93.9	< 0.005	< 0.02	< 0.1	< 0.005	194	0.00055	0.0636	968	1410	< 0.0025	< 0.005
P03-04-03	07-Jun-06	< 0.0001	0.025	124	< 0.0025	0.022	< 0.1	< 0.005	210	0.000307	0.0696	667	1410	< 0.005	< 0.005
P03-04-03	20-Sep-06	< 0.0001	< 0.025	110	< 0.0025	0.02	< 0.1	< 0.005	256	0.0015	0.069	748	1520	< 0.005	< 0.005
P03-04-03	30-May-07	< 0.0001	0.031	98.8	< 0.0025	< 0.02	< 0.1	< 0.005	263	0.00161	0.0655	1463	1340	< 0.005	< 0.005
P03-04-03	04-Oct-07	< 0.0002	< 0.05	103	< 0.005	< 0.02	< 0.1	< 0.01	284	0.00163	0.0766	1536	1740	< 0.01	< 0.01
P03-04-05	03-May-05	< 0.0005	< 0.1	141	< 0.01	0.06	< 0.1	< 0.005	208	< 0.0005	0.0273	922	1420	< 0.005	< 0.01
P03-04-05	10-Sep-05	< 0.00025	< 0.05	121	0.0064	0.052	< 0.1	< 0.005	215	< 0.00025	0.0206	938	1360	< 0.0025	< 0.005
P03-04-05	07-Jun-06	< 0.0002	< 0.05	211	0.0063	0.073	< 0.1	< 0.01	236	< 0.00017	0.0282	775	1450	< 0.01	< 0.01
P03-04-05	20-Sep-06	< 0.0001	< 0.025	133	0.0062	0.059	< 0.1	< 0.005	234	< 0.000085	0.0243	717	1380	< 0.005	< 0.005
P03-04-05	30-May-07	< 0.0002	< 0.05	125	0.0069	0.066	< 0.1	< 0.01	297	< 0.00017	0.0317	1669	1450	< 0.01	< 0.01
P03-05-01	04-May-05	< 0.00025	< 0.05	182	< 0.005	0.035	< 0.1	< 0.005	248	< 0.00025	< 0.0025	1481	1450	< 0.0025	< 0.005
P03-05-01	10-Sep-05	< 0.00025	< 0.05	187	< 0.005	0.037	< 0.1	< 0.005	276	< 0.00025	< 0.0025	1018	1510	< 0.0025	< 0.005
P03-05-01	15-Jun-06	< 0.0001	< 0.025	190	< 0.0025	0.032	< 0.1	< 0.005	271	< 0.000085	< 0.0015	1528	1560	< 0.005	< 0.005
P03-05-01	02-Nov-06	< 0.0002	< 0.05	195	< 0.005	< 0.04	< 0.2	< 0.01	296	< 0.00017	< 0.003	1500	1570	< 0.01	< 0.01
P03-05-01	31-May-07	< 0.0001	0.093	184	< 0.0025	0.023	< 0.1	< 0.005	309	< 0.000085	< 0.0015	1669	1450	< 0.005	< 0.005
P03-05-01	02-Oct-07	0.00015	< 0.025	179	< 0.0025	0.028	< 0.1	< 0.005	307	< 0.000085	< 0.0015	1708	1710	< 0.005	< 0.005
P03-05-05	04-May-05	< 0.00025	< 0.05	48.3	0.0092	0.031	< 0.1	< 0.005	172	< 0.00025	0.008	1767	1560	< 0.0025	< 0.005
P03-05-05	10-Sep-05	< 0.00025	< 0.05	29.1	0.0097	0.037	< 0.1	< 0.005	198	< 0.00025	0.0098	1115	1780	< 0.0025	< 0.005
P03-05-05	15-Jun-06	< 0.0001	< 0.025	27.9	0.0129	0.027	< 0.1	< 0.005	172	< 0.000085	0.0087	1594	1520	< 0.005	< 0.005
P03-05-05	02-Nov-06	< 0.0002	< 0.05	89.1	0.0098	< 0.04	< 0.2	< 0.01	192	< 0.00017	0.0119	1790	1630	< 0.01	< 0.01
P03-05-05	31-May-07	< 0.0001	< 0.025	23.4	0.0083	0.022	< 0.1	< 0.005	170	< 0.000085	0.0114	1610	1280	< 0.005	< 0.005
P03-05-05	02-Oct-07	< 0.0001	< 0.025	23.4	0.0088	0.034	< 0.1	< 0.005	171	< 0.000085	0.0117	1665	1530	< 0.005	< 0.005
P03-05-06	04-May-05	< 0.00025	0.617	108	0.0086	0.123	< 0.1	< 0.005	164	0.00117	< 0.0025	2820	2700	0.0039	0.0298
P03-05-06	10-Sep-05	< 0.0001	< 0.02	124	0.002	< 0.02	< 0.1	< 0.005	119	< 0.0001	< 0.001	1421	2550	< 0.001	< 0.004
P03-05-06	15-Jun-06	< 0.00004	< 0.01	147	< 0.001	< 0.02	< 0.1	< 0.002	128	< 0.000034	< 0.0006	2432	2490	< 0.002	< 0.002
P03-05-06	02-Nov-06	< 0.0002	< 0.05	142	< 0.005	< 0.04	< 0.2	< 0.01	163	< 0.00017	< 0.003	2780	2620	< 0.01	< 0.01
P03-05-06	31-May-07	< 0.0002	< 0.05	19.8	< 0.005	< 0.02	< 0.1	< 0.01	313	< 0.00017	< 0.003	3990	2900	< 0.01	< 0.01
P03-05-06	02-Oct-07	< 0.0002	< 0.05	17.5	< 0.005	< 0.02	< 0.1	< 0.01	319	< 0.00017	< 0.003	4580	4370	< 0.01	< 0.01
P03-06-01	03-May-05	< 0.0005	< 0.1	184	< 0.01	< 0.2	< 0.1	< 0.05	238	< 0.0005	0.0227	907	1600	< 0.005	< 0.01
P03-06-01	10-Sep-05	< 0.00025	< 0.05	194	< 0.005	0.077	< 0.1	< 0.005	223	< 0.00025	0.021	1316	1620	< 0.0025	< 0.005
P03-06-01	07-Jun-06	< 0.0001	< 0.025	181	< 0.0025	0.066	< 0.1	< 0.005	271	0.000115	0.0349	1475	1810	< 0.005	< 0.005
P03-06-01	21-Sep-06	< 0.0001	0.118	188	< 0.0025	0.06	< 0.1	< 0.005	251	0.000491	0.0397	503	1850	< 0.005	< 0.005
P03-06-01	30-May-07	< 0.0002	< 0.05	177	< 0.005	0.031	< 0.1	< 0.01	340	0.00115	0.0666	2740	1780	< 0.01	< 0.01
P03-06-01	04-Oct-07	< 0.0002	< 0.05	169	< 0.005	0.035	< 0.1	< 0.01	381	0.00152	0.0848	2061	2320	< 0.01	< 0.01
P03-06-02	03-May-05	< 0.0005	< 0.1	185	< 0.01	0.097	< 0.1	< 0.005	254	< 0.0005	0.0222	939	1650	< 0.005	< 0.01
P03-06-02	10-Sep-05	< 0.00025	< 0.05	159	< 0.005	0.072	< 0.1	< 0.005	225	0.00071	0.0343	1035	1490	< 0.0025	< 0.005
P03-06-02	07-Jun-06	< 0.0001	< 0.025	181	< 0.0025	0.078	< 0.1	< 0.005	280	0.000334	0.0291	1663	1760	< 0.005	< 0.005
P03-06-02	21-Sep-06	< 0.0001	< 0.025	128	< 0.0025	0.052	< 0.1	< 0.005	268	0.00196	0.0995	518	1930	< 0.005	< 0.005
P03-06-02	30-May-07	< 0.0004	< 0.1	75.9	< 0.01	0.02	< 0.1	< 0.02	368	0.00828	0.342	2140	2130	< 0.02	< 0.02
P03-06-02	04-Oct-07	< 0.0002	< 0.05	88.3	< 0.005	0.024	< 0.1	< 0.01	386	0.00869	0.282	2300	2570	< 0.01	< 0.01
P03-06-03	03-May-05	< 0.0005	< 0.1	153	< 0.01	0.032	< 0.1	< 0.005	200	< 0.0005	0.133	833	1390	< 0.005	< 0.01
P03-06-03	10-Sep-05	< 0.0005	< 0.1	122	< 0.01	0.036	< 0.1	< 0.005	312	0.0112	0.298	1164	2010	< 0.005	< 0.01
P03-06-03	07-Jun-06	< 0.0002	< 0.05	155	< 0.005	0.032	< 0.1	< 0.01	293	0.0106	0.216	1458	1890	< 0.01	< 0.01
P03-06-03	21-Sep-06	< 0.0001	< 0.025	115	< 0.0025	0.027	< 0.1	< 0.005	350	0.0162	0.369	672	2310	< 0.005	< 0.005
P03-06-03	30-May-07	< 0.0004	< 0.1	84.7	< 0.01	< 0.02	< 0.1	< 0.02	381	0.0215	0.475	2780	2160	< 0.02	< 0.02

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-04-02	04-Oct-07	0.421		< 0.00002	4.2	< 0.05	72.7	39.7	< 0.01	28.5	0.204	< 0.005	6.54	6.89	< 0.005
P03-04-02	05-Nov-07	0.049	1090	< 0.00005	4.2	< 0.05	74.9	41.5	< 0.01	28.7	0.203	< 0.005	6.83	7.33	< 0.005
P03-04-03	03-May-05	0.411	647	< 0.0002		< 0.05	45.2	24.7	< 0.01	32.9	0.104	< 0.01	6.53	6.97	< 0.005
P03-04-03	10-Sep-05	0.371	653	< 0.0002		< 0.05	41.1	25.7	< 0.005	23.3	0.103	< 0.005	6.19	6.92	< 0.0025
P03-04-03	07-Jun-06	0.315		< 0.00002	3.2	< 0.025	48.8	30.1	< 0.005	33.1	0.109	< 0.0025	6.27	7.19	< 0.0025
P03-04-03	20-Sep-06	0.27		< 0.00002	4.1	< 0.025	62.2	32.3	< 0.005	31	0.101	< 0.0025	6.04	6.92	< 0.0025
P03-04-03	30-May-07	0.196		< 0.00002	3.6	< 0.025	57.3	26.8	< 0.005	24.7	0.0905	< 0.0025	6.27	7.18	< 0.0025
P03-04-03	04-Oct-07	0.261		< 0.00002	4	< 0.05	68.9	35.8	< 0.01	25.9	0.107	< 0.005	6.49	6.85	< 0.005
P03-04-05	03-May-05	24.7	709	< 0.0002		< 0.05	45.9	29.6	< 0.01	29.6	< 0.05	< 0.01	6.67	7.11	< 0.005
P03-04-05	10-Sep-05	21.7	709	< 0.0002		< 0.05	42	28.8	< 0.005	23.9	< 0.025	< 0.005	6.64	7.18	< 0.0025
P03-04-05	07-Jun-06	25		< 0.00002	3	< 0.05	49.2	33.7	< 0.01	27.9	0.022	< 0.005	6.85	7.38	< 0.005
P03-04-05	20-Sep-06	24.2		< 0.00002	3.6	< 0.025	45.9	32.1	< 0.005	26.1	0.0192	< 0.0025	6.42	7.09	< 0.0025
P03-04-05	30-May-07	28.1		< 0.00002	3.7	< 0.05	57.6	36	< 0.01	26.6	0.026	< 0.005	6.68	7.29	< 0.005
P03-05-01	04-May-05	5.75	808	< 0.0002		< 0.05	46	0.692	< 0.005	27.8	< 0.025	< 0.005	6.86	7.87	< 0.0025
P03-05-01	10-Sep-05	5.88	887	< 0.0002		< 0.05	48.2	0.712	< 0.005	28.8	< 0.025	< 0.005	2.13	7.81	< 0.0025
P03-05-01	15-Jun-06	5.9		< 0.00002	2.4	< 0.025	52.7	0.867	< 0.005	31	< 0.005	< 0.0025	7.2	7.83	< 0.0025
P03-05-01	02-Nov-06	5.82		< 0.00002	< 4	< 0.05	52.5	0.914	< 0.01	31	< 0.01	< 0.005	7.19	7.52	< 0.005
P03-05-01	31-May-07	6.44		< 0.00002	2.7	< 0.025	58.1	1.16	< 0.005	31.1	< 0.005	< 0.0025	6.84	7.8	< 0.0025
P03-05-01	02-Oct-07	6.05		< 0.00002	3.2	< 0.025	59.3	0.985	< 0.005	30.1	< 0.005	< 0.0025	7.13	7.48	< 0.0025
P03-05-05	04-May-05	191	690	< 0.0002		< 0.05	63.2	17.3	< 0.005	46	< 0.025	< 0.005	6.69	6.25	< 0.0025
P03-05-05	10-Sep-05	194	762	< 0.0002		< 0.05	65.1	19	< 0.005	41	< 0.025	< 0.005	6.86	6.48	< 0.0025
P03-05-05	15-Jun-06	163		< 0.00002	5.1	< 0.025	57.3	16.4	< 0.005	39.1	< 0.005	< 0.0025	6.93	6.33	< 0.0025
P03-05-05	02-Nov-06	167		< 0.00002	5.8	< 0.05	59.6	22	< 0.01	38.6	< 0.01	< 0.005	7.01	6.14	< 0.005
P03-05-05	31-May-07	148		< 0.00002	4.5	< 0.025	53	20.9	< 0.005	33.7	< 0.005	< 0.0025	6.76	6.58	< 0.0025
P03-05-05	02-Oct-07	163		< 0.00002	5.7	< 0.025	56	17.2	< 0.005	33.8	< 0.005	< 0.0025	6.9	5.97	< 0.0025
P03-05-06	04-May-05	23.1	1030	< 0.0002		< 0.05	150	0.328	< 0.005	296	< 0.025	1.94	7.19	7.49	0.005
P03-05-06	10-Sep-05	8.28	739	< 0.0002		< 0.05	107	0.097	0.0055	235	< 0.01	< 0.002	7.78	7.72	0.0033
P03-05-06	15-Jun-06	6.16		< 0.00002	31.4	< 0.01	107	0.0685	0.0047	305	< 0.002	< 0.001	7.3	7.84	< 0.001
P03-05-06	02-Nov-06	9.35		< 0.00002	33.9	< 0.05	127	0.111	< 0.01	300	< 0.01	< 0.005	8.07	7.27	< 0.005
P03-05-06	31-May-07	97.9		< 0.00002	41	< 0.05	278	2.75	< 0.01	203	< 0.01	< 0.005	7.05	6.19	< 0.005
P03-05-06	02-Oct-07	271		< 0.00002	49.9	< 0.05	313	6.68	< 0.01	200	< 0.01	< 0.005	6.63	5.22	< 0.005
P03-06-01	03-May-05	0.51	866	< 0.0002		< 0.5	66.3	18.8	< 0.01	33	< 0.05	< 0.01	6.45	7.64	< 0.005
P03-06-01	10-Sep-05	0.12	799	< 0.0002		< 0.05	59	14	< 0.005	36.2	< 0.025	< 0.005	6.61	7.32	< 0.0025
P03-06-01	07-Jun-06	2		< 0.00002	2.4	< 0.025	78.3	24.9	< 0.005	38.6	0.0482	< 0.0025	7.2	7.61	< 0.0025
P03-06-01	21-Sep-06	0.768		< 0.00002	2.3	< 0.025	71.1	26.5	< 0.005	35.6	0.0547	< 0.0025	6.53	7.45	< 0.0025
P03-06-01	30-May-07	1.38		< 0.00002	2.8	< 0.05	92.7	38.5	< 0.01	36.8	0.093	< 0.005	6.09	7.36	< 0.005
P03-06-01	04-Oct-07	1.92		< 0.00002	3.7	< 0.05	107	41.4	< 0.01	37.1	0.118	< 0.005	6.6	6.82	< 0.005
P03-06-02	03-May-05	0.583	919	< 0.0002		< 0.05	69	17.7	< 0.01	36.3	< 0.05	< 0.01	6.87	7.65	< 0.005
P03-06-02	10-Sep-05	8.49	815	< 0.0002		< 0.05	61.5	15.2	< 0.005	35.9	0.036	< 0.005	6.72	7.07	< 0.0025
P03-06-02	07-Jun-06	0.549		< 0.00002	2.4	< 0.025	75.9	23.8	< 0.005	39.4	0.0301	< 0.0025	7	7.63	< 0.0025
P03-06-02	21-Sep-06	31.5		< 0.00002	2.7	< 0.025	78.3	30.6	< 0.005	36.1	0.116	< 0.0025	6.62	7	< 0.0025
P03-06-02	30-May-07	98.2		< 0.00002	3.5	< 0.1	106	58	< 0.02	31.8	0.395	< 0.01	6.38	6.74	< 0.01
P03-06-02	04-Oct-07	108		< 0.00002	4	< 0.05	113	56.2	< 0.01	31.5	0.314	< 0.005	6.27	6.31	< 0.005
P03-06-03	03-May-05	22	730	< 0.0002		< 0.05	56.2	18.2	< 0.01	32.4	0.204	< 0.01	6.75	7.33	< 0.005
P03-06-03	10-Sep-05	71.5	1160	< 0.0002		< 0.05	93.3	32.1	< 0.01	21.6	0.449	< 0.01	6.44	6.8	< 0.005
P03-06-03	07-Jun-06	45.4		< 0.00002	3.1	< 0.05	80.9	31.3	< 0.01	29.8	0.339	< 0.005	7	7.11	< 0.005
P03-06-03	21-Sep-06	91.9		< 0.00002	4	0.036	103	49.7	< 0.005	25	0.61	< 0.0025	6.62	6.7	< 0.0025
P03-06-03	30-May-07	133		< 0.00002	3.9	< 0.1	112	56.8	< 0.02	25.7	0.659	< 0.01	6.33	6.75	< 0.01

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-04-02	04-Oct-07	< 0.01	< 0.005	1000		3	< 0.01	< 0.002	< 0.002	< 0.01	0.0641
P03-04-02	05-Nov-07	< 0.01	< 0.005	994		4.5	< 0.01	< 0.002	< 0.002	< 0.01	0.074
P03-04-03	03-May-05	< 0.01		729		4.6	< 0.05	< 0.002	< 0.002	0.068	0.046
P03-04-03	10-Sep-05	< 0.005		715		5.7	< 0.05	< 0.001	< 0.001	< 0.04	0.0487
P03-04-03	07-Jun-06	< 0.005	< 0.0025	667		6.2	< 0.01	< 0.001	< 0.001	< 0.03	0.0553
P03-04-03	20-Sep-06	< 0.005	< 0.0025	863		5.7	< 0.01	< 0.001	< 0.001	< 0.03	0.086
P03-04-03	30-May-07	< 0.005	< 0.0025	835		5.3	< 0.01	< 0.001	< 0.001	< 0.03	0.0571
P03-04-03	04-Oct-07	< 0.01	< 0.005	930		3.4	< 0.01	< 0.002	< 0.002	< 0.01	0.0622
P03-04-05	03-May-05	< 0.01		710		4.2	< 0.05	< 0.002	< 0.002	0.059	0.0742
P03-04-05	10-Sep-05	< 0.005		604		5.6	< 0.05	< 0.001	0.0016	< 0.07	0.0699
P03-04-05	07-Jun-06	< 0.01	< 0.005	677		8.5	< 0.01	< 0.002	< 0.002	< 0.03	0.047
P03-04-05	20-Sep-06	< 0.005	< 0.0025	712		6.2	< 0.01	< 0.001	0.0018	< 0.03	0.059
P03-04-05	30-May-07	< 0.01	< 0.005	892		5.6	< 0.01	< 0.002	< 0.002	< 0.03	0.0343
P03-05-01	04-May-05	< 0.005		713		3.9	< 0.05	< 0.001	< 0.001	< 0.03	0.0225
P03-05-01	10-Sep-05	< 0.005		744		5.1	< 0.05	< 0.001	0.001	< 0.03	0.0062
P03-05-01	15-Jun-06	< 0.005	< 0.0025	784		9.9	< 0.01	< 0.001	0.0011	< 0.03	0.0103
P03-05-01	02-Nov-06	< 0.01	< 0.005	835		1.2	< 0.02	< 0.002	< 0.002	< 0.06	0.026
P03-05-01	31-May-07	< 0.005	< 0.0025	965		5.2	< 0.01	< 0.001	0.0013	< 0.03	0.007
P03-05-01	02-Oct-07	< 0.005	< 0.0025	889		5	< 0.01	< 0.001	0.0012	< 0.005	0.0092
P03-05-05	04-May-05	< 0.005		993		4	< 0.05	< 0.001	0.0013	0.1	0.0081
P03-05-05	10-Sep-05	< 0.005		1030		5.9	< 0.05	< 0.001	0.0015	< 0.15	0.0081
P03-05-05	15-Jun-06	< 0.005	< 0.0025	881		10.6	< 0.01	< 0.001	0.0015	< 0.03	0.0069
P03-05-05	02-Nov-06	< 0.01	< 0.005	1010		2.1	< 0.02	< 0.002	< 0.002	< 0.06	0.0098
P03-05-05	31-May-07	< 0.005	< 0.0025	874		5.8	< 0.01	< 0.001	0.0015	< 0.03	< 0.005
P03-05-05	02-Oct-07	< 0.005	< 0.0025	872		4.4	< 0.01	< 0.001	0.0014	< 0.005	0.01
P03-05-06	04-May-05	< 0.005		1560		5.2	< 0.05	< 0.001	< 0.001	< 0.03	0.725
P03-05-06	10-Sep-05	< 0.002		1300		5.1	< 0.05	< 0.0004	< 0.0004	< 0.03	0.0054
P03-05-06	15-Jun-06	< 0.002	< 0.001	1270		9.6	< 0.01	< 0.0004	< 0.0004	0.043	0.0056
P03-05-06	02-Nov-06	< 0.01	< 0.005	1440		2.5	< 0.02	< 0.002	< 0.002	< 0.06	0.012
P03-05-06	31-May-07	< 0.01	< 0.005	2770		6.5	< 0.01	< 0.002	< 0.002	< 0.03	< 0.005
P03-05-06	02-Oct-07	< 0.01	< 0.005	2990		5.3	< 0.01	< 0.002	< 0.002	< 0.01	0.023
P03-06-01	03-May-05	< 0.01		775			< 0.5	< 0.002	0.015	< 0.3	0.176
P03-06-01	10-Sep-05	< 0.005		804		5.2	< 0.05	< 0.001	0.0146	< 0.03	0.199
P03-06-01	07-Jun-06	< 0.005	< 0.0025	959		7.7	< 0.01	< 0.001	0.0132	< 0.03	1.55
P03-06-01	21-Sep-06	< 0.005	< 0.0025	932		7.3	< 0.01	< 0.001	0.0128	0.034	0.9
P03-06-01	30-May-07	< 0.01	< 0.005	1460		5.6	< 0.01	< 0.002	0.0118	< 0.03	0.837
P03-06-01	04-Oct-07	< 0.01	< 0.005	1390		5.7	< 0.01	< 0.002	0.0106	< 0.01	1.33
P03-06-02	03-May-05	< 0.01		810			< 0.05	< 0.002	0.0148	0.048	0.239
P03-06-02	10-Sep-05	< 0.005		734		4.4	< 0.05	< 0.001	0.0097	0.035	0.288
P03-06-02	07-Jun-06	< 0.005	< 0.0025	855		7.5	< 0.01	< 0.001	0.0129	< 0.03	0.358
P03-06-02	21-Sep-06	< 0.005	< 0.0025	1020		5.9	< 0.01	< 0.001	0.0069	0.03	0.731
P03-06-02	30-May-07	< 0.02	< 0.01	2120		7.5	< 0.01	< 0.004	0.004	< 0.03	1.99
P03-06-02	04-Oct-07	< 0.01	< 0.005	1730		5.9	< 0.01	< 0.002	0.0038	< 0.01	2.23
P03-06-03	03-May-05	< 0.01		643			< 0.05	< 0.002	0.007	0.04	0.348
P03-06-03	10-Sep-05	< 0.01		1170		4	< 0.05	< 0.002	0.003	< 0.09	1.41
P03-06-03	07-Jun-06	< 0.01	< 0.005	1070		8.3	< 0.01	< 0.002	0.0074	< 0.03	0.93
P03-06-03	21-Sep-06	< 0.005	< 0.0025	1460		5.3	< 0.01	< 0.001	0.0045	0.049	1.81
P03-06-03	30-May-07	< 0.02	< 0.01	1900		6.5	< 0.01	< 0.004	0.0054	< 0.03	2.24

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-06-03	04-Oct-07	< 0.0004	< 0.1	98.6	< 0.01	< 0.02	< 0.1	< 0.02	464	0.0289	0.619	2760	3040	< 0.02	< 0.02
P03-06-04	03-May-05	< 0.00025	< 0.05	45.3	< 0.005	0.075	< 0.1	< 0.005	167	< 0.00025	0.0279	861	1310	< 0.0025	< 0.005
P03-06-04	10-Sep-05	< 0.0001	< 0.02	136	< 0.002	0.056	< 0.1	< 0.005	161	0.00011	0.0123	721	1070	< 0.001	< 0.002
P03-06-04	07-Jun-06	< 0.0001	< 0.025	118	< 0.0025	0.067	< 0.1	< 0.005	176	0.00011	0.0254	1017	1190	< 0.005	< 0.005
P03-06-04	21-Sep-06	< 0.00004	< 0.01	171	< 0.001	0.069	< 0.1	< 0.002	179	0.000166	0.0232	432	1260	< 0.002	< 0.002
P03-06-04	30-May-07	< 0.0001	0.064	176	< 0.0025	0.041	< 0.1	< 0.005	244	0.000407	0.0596	1656	1390	< 0.005	< 0.005
P03-06-04	04-Oct-07	< 0.0001	< 0.025	168	< 0.0025	0.051	< 0.1	< 0.005	242	0.000348	0.0554	1397	1520	< 0.005	< 0.005
	Total # samples	89	89	89	89	89	89	89	89	89	89	90	89	89	89
	MEAN	0.00015	0.034	118.58	0.005	0.038	0.058	0.003	220.6	0.0018	0.0631	1257	1534	0.0028	0.0036
	Median	0.0001	0.025	120	0.0025	0.032	0.05	0.0025	234	0.00025	0.0273	1034.5	1520	0.0025	0.0025
	STD	0.000524	0.06655	68.876	0.01065	0.027	0.050	0.0030	102.13	0.00448	0.10438	798.3	670.5	0.0022	0.003482
	MINIMUM	< 0.00002	0.0065	11.3	< 0.0005	0.017	< 0.1	< 0.001	22.6	< 0.000034	< 0.0005	151.4	187	< 0.0005	< 0.001
	MAXIMUM	< 0.01	0.617	286	< 0.2	< 0.2	< 1	< 0.05	464	0.0289	0.619	4580	4370	< 0.02	0.0298
	5th Percentile	2E-05	0.005	20.04	0.0005	0.01	0.05	0.001	49.2	4.25E-05	0.00075	296.3	470.0	0.0005	0.001
	25th Percentile	5E-05	0.0125	57.90	0.00125	0.01	0.050	0.0025	164.0	8.5E-05	0.00317	721.25	1310	0.00125	0.0025
	75th Percentile	0.000125	0.0270	169	0.005	0.059	0.050	0.0025	297.0	0.00124	0.07340	1664.5	1850	0.0025	0.005
	95th Percentile	0.00025	0.0954	260.20	0.00966	0.0854	0.100	0.009	375.8	0.009835997	0.29160	2771.0	2600.0	0.005	0.008
<b>Second Impoundment Highly Impacted</b>															
P03-06-05	03-May-05	< 0.005	< 1	< 1	< 0.1	< 0.02	< 0.1	< 0.005	159	< 0.005	0.078	2480	3730	< 0.05	< 0.1
P03-06-05	10-Sep-05	< 0.0001	< 0.02	32.4	0.0066	0.021	< 0.1	< 0.005	121	< 0.0001	0.0019	761	1180	< 0.001	< 0.002
P03-06-05	07-Jun-06	< 0.0002	< 0.05	27.5	0.0089	< 0.02	< 0.1	< 0.01	81.1	< 0.00017	0.0185	1427	1600	< 0.01	< 0.01
P03-06-05	21-Sep-06	< 0.0001	< 0.025	23.2	0.0078	< 0.02	< 0.1	< 0.005	127	< 0.000085	0.0093	519	2040	< 0.005	< 0.005
P03-06-05	30-May-07	< 0.0004	0.17	14.6	< 0.01	< 0.02	< 0.1	< 0.02	168	< 0.00034	0.0572	4160	2720	< 0.02	< 0.02
P03-06-05	04-Oct-07	< 0.0001	< 0.025	14.5	0.0059	< 0.02	< 0.1	< 0.005	113	< 0.000085	0.012	1449	1510	< 0.005	< 0.005
	Total # samples	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	MEAN	0.00049	0.122	18.78	0.014	0.012	0.050	0.004	128.2	0.0005	0.0295	1799	2130	0.0076	0.0118
	Median	7.5E-05	0.01875	18.9	0.0072	0.01	0.05	0.0025	124	6.75E-05	0.01525	1438	1820	0.00375	0.00375
	STD	0.000986	0.19551	11.411	0.01767	0.004	0.000	0.0030	31.73	0.00099	0.03071	1342.7	947.0	0.0091	0.018965
	MINIMUM	< 0.0001	< 0.02	< 1	0.0059	< 0.02	< 0.1	< 0.005	81.1	< 0.000085	0.0019	519	1180	< 0.001	< 0.002
	MAXIMUM	< 0.005	< 1	32.4	< 0.1	0.021	< 0.1	< 0.02	168	< 0.005	0.078	4160	3730	< 0.05	< 0.1
	5th Percentile	5E-05	0.010625	4	0.005225	0.01	0.0500	0.0025	89.1	4.25E-05	0.00375	579.5	1262.5	0.001	0.001375
	25th Percentile	5E-05	0.0125	14.525	0.006075	0.01	0.050	0.0025	115.0	4.4375E-05	0.009975	927.5	1532.5	0.0025	0.0025
	75th Percentile	0.000175	0.13375	26.43	0.008625	0.01	0.05	0.004375	151.0	0.00014875	0.04753	2222.25	2550	0.00875	0.00875
	95th Percentile	0.001925	0.4175	31.175	0.039725	0.01825	0.05	0.00875	165.8	0.0019175	0.07280	3740.0	3477.5	0.02125	0.04
<b>Second Impoundment Adversely Impacted</b>															
P03-01-07	03-May-05	< 0.005	< 1	< 1	< 0.1	< 0.2	< 1	< 0.05	142	< 0.005	< 0.05	6480	11800	< 0.05	< 0.1
P03-01-07	08-Sep-05	< 0.0025	< 0.5	9.7	< 0.05	< 0.1	< 0.5	< 0.025	109	< 0.0025	< 0.025	1613	6120	< 0.025	< 0.05
P03-01-07	09-Jun-06											1707			
P03-01-07	21-Sep-06	< 0.0025	< 0.5	17.2	< 0.05	< 0.1	< 0.5	< 0.025	101	< 0.0025	< 0.025	1303	6140	< 0.025	< 0.05
P03-01-07	01-Jun-07	< 0.001	2.19	11.3	< 0.025	< 0.1	< 0.5	< 0.05	127	< 0.00085	< 0.015	9110	5440	< 0.05	< 0.05
P03-01-07	10-Oct-07	< 0.002	< 0.5	19.6	< 0.05	< 0.1	< 0.5	< 0.1	94.3	< 0.0017	< 0.03	> 20000	6780	< 0.1	< 0.1
P03-01-08	08-Sep-05	< 0.005	< 1	< 2	< 0.1	< 0.4	< 2	< 0.1	409	< 0.005	< 0.05	2119	20400	< 0.05	< 0.1
P03-01-08	09-Jun-06	< 0.01	< 2.5	10.2	< 0.25	< 0.4	< 2	< 0.5	302	< 0.0085	< 0.15	1388	19300	< 0.5	< 0.5
P03-01-08	21-Sep-06	< 0.025	< 5	< 2	< 0.5	< 0.5	< 2.5	< 0.12	429	< 0.025	< 0.25	2760	25800	< 0.25	< 0.5
P03-01-08	01-Jun-07	< 0.01	3.1	< 2	< 0.25	< 0.4	< 2	< 0.5	331	< 0.0085	< 0.15	25000	11500	< 0.5	< 0.5
P03-01-08	10-Oct-07	< 0.01	< 2.5	< 2	< 0.25	< 0.4	< 2	< 0.5	398	< 0.0085	< 0.15	> 20000	26700	< 0.5	< 0.5

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-06-03	04-Oct-07	181		< 0.00002	5.2	< 0.1	137	80.1	< 0.02	22.5	0.903	< 0.01	6.47	6.22	< 0.01
P03-06-04	03-May-05	153	594	< 0.0002		< 0.05	43.2	14.5	< 0.005	22.6	0.048	< 0.005	6.67	6.36	< 0.0025
P03-06-04	10-Sep-05	26	558	< 0.0002		< 0.05	37.9	11.1	0.0035	20.8	0.018	< 0.002	6.89	7.07	< 0.001
P03-06-04	07-Jun-06	42.1		< 0.00002	2.1	< 0.025	46.5	12.2	< 0.005	19.9	0.0406	< 0.0025	7.15	7.19	< 0.0025
P03-06-04	21-Sep-06	15.2		< 0.00002	2.2	0.011	46.7	14.1	0.0031	19.2	0.0318	< 0.001	6.94	7.41	< 0.001
P03-06-04	30-May-07	21		< 0.00002	2.3	< 0.025	62.7	19.9	< 0.005	16.7	0.0659	< 0.0025	6.7	7.45	< 0.0025
P03-06-04	04-Oct-07	19.1		< 0.00002	3.1	< 0.025	63	17.7	< 0.005	17.9	0.0552	< 0.0025	7.01	6.89	< 0.0025
	Total # samples	89	32	88	57	89	89	89	89	89	89	89	89	89	89
	MEAN	39.85	723.125	4.30795E-05	5.96	0.0262	61.66	19.44	0.0035	47.05	0.1029	0.0242	6.64	7.05	0.0028
	Median	5.88	743.5	1E-05	3.6	0.0250	56.00	17.70	0.0025	31.10	0.053	0.0025	6.67	7.11	0.00125
	STD	63.6	281.1	4.3336E-05	9.43	0.0269	46.82	16.64	0.0024	61.41	0.15021	0.20540	0.62	0.54	0.01048
	MINIMUM	< 0.03	169	< 0.00002	< 2	< 0.01	3.88	0.0685	< 0.001	2.2	< 0.002	< 0.0005	2.13	5.22	< 0.0005
	MAXIMUM	271	1160	< 0.0002	49.9	< 0.5	313	80.1	< 0.03	305	0.903	1.94	8.07	7.92	< 0.2
	5th Percentile	0.059	236.10	1E-05	2.00	0.0125	11.74	0.23	0.0007	4.78	0.0025	0.0005	6.08	6.16	0.00035
	25th Percentile	0.371	633.75	1E-05	2.70	0.0125	45.20	4.04	0.0025	23.90	0.0125	0.00125	6.39	6.76	0.00125
	75th Percentile	42.10	895	1E-04	4.20	0.025	70.5	30.60	0.005	36.30	0.1200	0.0025	6.93	7.44	0.0025
	95th Percentile	168.20	1119.0	1E-04	31.90	0.05	121.40	46.42	0.008	201.80	0.3726	0.005	7.24	7.84	0.005
<b>Second Impoundment Highly Impacted</b>															
P03-06-05	03-May-05	353	2110	< 0.0002		0.092	415	82.2	< 0.1	43	0.54	< 0.1	6.62	5.1	< 0.05
P03-06-05	10-Sep-05	214	452	< 0.0002		< 0.05	36.6	8.46	0.0047	27.8	< 0.01	0.0182	6.78	6.09	0.0016
P03-06-05	07-Jun-06	228		< 0.00002	2.5	< 0.05	96.4	24	< 0.01	26.2	0.08	< 0.005	6.67	6.44	< 0.005
P03-06-05	21-Sep-06	240		< 0.00002	2.4	0.029	129	32	< 0.005	27.9	0.0364	0.0025	6.52	6.11	< 0.0025
P03-06-05	30-May-07	303		< 0.00002	4	< 0.1	249	54.4	< 0.02	34.8	0.124	< 0.01	6.56	6.19	< 0.01
P03-06-05	04-Oct-07	180		< 0.00002	2.9	< 0.025	79.8	16	< 0.005	23.7	0.0276	< 0.0025	6.91	5.78	< 0.0025
	Total # samples	6	2	6	4	6	6	6	6	6	6	6	6	6	6
	MEAN	253.00	1281	0.00004	2.95	0.0389	167.63	36.18	0.0125	30.57	0.1355	0.0132	6.68	5.95	0.0061
	Median	234	1281	1E-05	2.7	0.0270	112.70	28.00	0.00485	27.85	0.0582	0.00375	6.64	6.10	0.00205
	STD	63.5	1172.4	4.64758E-05	0.73	0.0287	140.90	27.54	0.0186	7.12	0.20265	0.01907	0.15	0.47	0.00937
	MINIMUM	180	452	< 0.00002	2.4	< 0.025	36.6	8.46	0.0047	23.7	< 0.01	< 0.0025	6.52	5.1	0.0016
	MAXIMUM	353	2110	< 0.0002	4	< 0.1	415	82.2	< 0.1	43	0.54	< 0.1	6.91	6.44	< 0.05
	5th Percentile	188.5	534.90	1E-05	2.42	0.015625	47.40	10.35	0.0025	24.33	0.01065	0.0015625	6.53	5.27	0.00125
	25th Percentile	217.5	866.5	1E-05	2.48	0.025	83.95	18.00	0.00305	26.60	0.0298	0.0025	6.57	5.86	0.0013375
	75th Percentile	287.25	1695.5	7.75E-05	3.18	0.04475	219	48.8	0.00875	33.07	0.113	0.0149	6.75	6.17	0.004375
	95th Percentile	340.50	2027.1	1E-04	3.83	0.0815	373.50	75.25	0.04	40.95	0.4360	0.04205	6.88	6.38	0.02
<b>Second Impoundment Adversely Impacted</b>															
P03-01-07	03-May-05	3550	1150	< 0.0002		< 0.5	194	24.9	< 0.1	408	< 0.5	< 0.1	6.41	4.47	< 0.05
P03-01-07	08-Sep-05	3220	783	< 0.0002		< 0.25	124	22	0.149	415	< 0.25	< 0.05	6.76	4.13	< 0.025
P03-01-07	09-Jun-06												6.37		
P03-01-07	21-Sep-06	2620		< 0.0002		< 0.25	137	18	0.133	465	< 0.25	< 0.05	6.72	4.64	< 0.025
P03-01-07	01-Jun-07	3130		< 0.00002	40	< 0.25	180	23.6	0.097	426	< 0.05	< 0.025	6.13	3.82	< 0.025
P03-01-07	10-Oct-07	2550		0.000038	29	< 0.5	130	17.7	0.13	350	< 0.1	< 0.05	6.45	4.37	< 0.05
P03-01-08	08-Sep-05	14300	3230	< 0.0002		< 1	536	88.7	< 0.1	603	< 0.5	< 0.1	6.05	3.47	< 0.05
P03-01-08	09-Jun-06	12200		< 0.00002	70	< 2.5	436	75.7	< 0.5	654	< 0.5	< 0.25	5.69	3.46	< 0.25
P03-01-08	21-Sep-06	17500		< 0.0002		< 1.2	694	115	< 0.5	576	< 2.5	0.59	6	3.31	< 0.25
P03-01-08	01-Jun-07	12300		0.000043	100	< 2.5	569	102	< 0.5	596	< 0.5	< 0.25	5.25	3.25	< 0.25
P03-01-08	10-Oct-07	19900		< 0.00002	110	< 2.5	752	137	< 0.5	527	< 0.5	< 0.25	5.22	3.36	< 0.25



**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-06-03	04-Oct-07	< 0.02	< 0.01	2150		6	< 0.01	< 0.004	< 0.004	< 0.02	3.77
P03-06-04	03-May-05	< 0.005		685			< 0.05	< 0.001	0.0276	0.085	6.66
P03-06-04	10-Sep-05	< 0.002		451		4.1	< 0.05	< 0.0004	0.0273	< 0.03	1.77
P03-06-04	07-Jun-06	< 0.005	< 0.0025	538		8.8	< 0.01	< 0.001	0.0296	< 0.03	3.36
P03-06-04	21-Sep-06	< 0.002	< 0.001	609		5.1	< 0.01	< 0.0004	0.0325	< 0.03	2.11
P03-06-04	30-May-07	< 0.005	< 0.0025	904		5.7	< 0.01	< 0.001	0.0361	< 0.03	3.22
P03-06-04	04-Oct-07	< 0.005	< 0.0025	731		6.6	< 0.01	< 0.001	0.0302	< 0.005	3.4
	Total # samples	89	57	89		86	89	89	88	89	89
	MEAN	0.0043	0.00197	864.7		5.61	0.016	0.002	0.005	0.023	0.95
	Median	0.0025	0.00125	835		5.35	0.005	0.0005	0.001	0.015	0.079
	STD	0.01047	0.00210	516.1		1.99	0.028	0.0105	0.0081	0.023	1.61
	MINIMUM	< 0.001	< 0.0005	49.4		1.2	< 0.01	< 0.0002	< 0.0002	< 0.001	< 0.005
	MAXIMUM	< 0.2	< 0.03	2990		12.5	< 0.5	< 0.2	0.0361	< 0.3	6.66
	5th Percentile	0.0005	0.00045	165.6		2.63	0.005	1E-04	1E-04	0.0025	0.00584
	25th Percentile	0.0025	0.00125	643		4.50	0.005	0.0005	0.0005	0.015	0.027
	75th Percentile	0.005	0.0025	999		6.30	0.025	0.001	0.006625	0.030	1.18
	95th Percentile	0.008	0.005	1832.0		9.40	0.025	0.002	0.027495001	0.0648	4.962
<b>Second Impoundment Highly Impacted</b>											
P03-06-05	03-May-05	< 0.1		1560			< 0.05	< 0.02	< 0.02	0.303	242
P03-06-05	10-Sep-05	< 0.002		613		4.3	< 0.05	< 0.0004	0.00375	< 0.09	4.49
P03-06-05	07-Jun-06	< 0.01	< 0.005	851		10.5	< 0.01	< 0.002	< 0.002	< 0.03	42.3
P03-06-05	21-Sep-06	< 0.005	< 0.0025	1340		10.7	< 0.01	< 0.001	0.0041	0.038	34.7
P03-06-05	30-May-07	< 0.02	< 0.01	2740		5.5	< 0.01	< 0.004	0.0072	< 0.03	57.5
P03-06-05	04-Oct-07	< 0.005	< 0.0025	878		5.8	< 0.01	< 0.001	0.0046	< 0.005	16.2
	Total # samples	6	4	6		5	6	6	6	6	6
	MEAN	0.0118	0.00250	1330.3		7.36	0.012	0.002	0.005	0.070	66.20
	Median	0.00375	0.001875	1109		5.80	0.005	0.00075	0.00435	0.0265	38.50
	STD	0.01896	0.00177	773.2		3.01	0.010	0.0038	0.0031	0.115	88.15
	MINIMUM	< 0.002	< 0.0025	613		4.3	< 0.01	< 0.0004	< 0.002	< 0.005	4.49
	MAXIMUM	< 0.1	< 0.01	2740		10.7	< 0.05	< 0.02	< 0.02	0.303	242
	5th Percentile	0.001375	0.00125	672.5		4.54	0.005	0.000275	0.0016875	0.005625	7.417
	25th Percentile	0.0025	0.00125	857.75		5.50	0.005	0.0005	0.0038375	0.015	20.825
	75th Percentile	0.00875	0.003125	1505		10.50	0.02	0.00175	0.00655	0.04325	53.70
	95th Percentile	0.04	0.004625	2445.0		10.66	0.025	0.008	0.0093	0.2385	195.875
<b>Second Impoundment Adversely Impacted</b>											
P03-01-07	03-May-05	< 0.1		13600		4.4	< 0.5	< 0.02	< 0.02	< 0.3	279
P03-01-07	08-Sep-05	< 0.05		4820		5.2	< 0.25	< 0.01	< 0.01	< 0.15	315
P03-01-07	09-Jun-06					8.8					
P03-01-07	21-Sep-06	< 0.05		4900		6.2	< 0.25	< 0.01	< 0.01	< 0.15	227
P03-01-07	01-Jun-07	< 0.05	< 0.025	8220		7.6	< 0.05	< 0.01	< 0.01	0.23	287
P03-01-07	10-Oct-07	< 0.1	< 0.05	5360		2.9	< 0.05	< 0.02	< 0.02	< 0.1	263
P03-01-08	08-Sep-05	< 0.1		25200		5	< 1	< 0.02	< 0.02	< 7	1420
P03-01-08	09-Jun-06	< 0.5	< 0.25	21000		6.8	< 0.2	< 0.1	< 0.1	< 0.6	1250
P03-01-08	21-Sep-06	< 0.5		32400		9.6	< 1.2	< 0.1	< 0.1	0.91	2050
P03-01-08	01-Jun-07	< 0.5	< 0.25	29600		6	< 0.2	< 0.1	< 0.1	1.37	1500
P03-01-08	10-Oct-07	< 0.5	< 0.25	35400		3.2	0.32	< 0.1	< 0.1	< 0.5	2720

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-01-09	03-May-05	< 0.05	< 10	< 1	< 1	< 1	< 5	< 0.25	421	< 0.05	< 0.5		31200	< 0.5	< 1
P03-01-09	08-Sep-05	< 0.025	< 5	< 2	< 0.5	< 0.4	2.4	< 0.1	475	< 0.025	< 0.25		23800	< 0.25	< 0.5
P03-01-09	09-Jun-06	< 0.02	< 5	< 2	< 0.5	< 1	< 5	< 1	475	< 0.017	< 0.3	1907	31400	< 1	< 1
P03-01-09	21-Sep-06	< 0.025	< 5	< 2	< 0.5	< 0.6	< 3	< 0.15	441	< 0.025	< 0.25	3178	32900	< 0.25	< 0.5
P03-01-09	01-Jun-07	< 0.02	5.7	< 2	< 0.5	< 0.8	< 4	< 1	429	< 0.017	< 0.3	33300	15700	< 1	< 1
P03-01-09	10-Oct-07	< 0.02	< 5	< 2	< 0.5	< 1	< 5	< 1	437	< 0.017	< 0.3	> 20000	35600	< 0.17	< 1
P03-02-05	11-May-05	< 0.001	< 0.2	47.6	< 0.02	< 0.06	< 0.3	< 0.015	401	< 0.001	< 0.01	3000	6150	< 0.01	< 0.02
P03-02-05	08-Sep-05	< 0.0005	< 0.1	42.4	< 0.01	< 0.04	< 0.2	< 0.01	356	< 0.0005	< 0.005	1545	6290	< 0.005	< 0.01
P03-02-05	08-Jun-06	< 0.0004	< 0.1	23.2	0.021	< 0.1	< 0.5	< 0.02	367	< 0.00034	0.0095	5005	6960	< 0.02	< 0.02
P03-02-05	22-Sep-06	< 0.0025	< 0.5	10.8	< 0.05	< 0.1	< 0.5	< 0.025	400	< 0.0025	< 0.025	791	8290	< 0.025	< 0.05
P03-02-05	01-Jun-07	< 0.0004	< 0.1	20.7	< 0.01	< 0.04	< 0.2	< 0.02	335	< 0.00034	< 0.006	7960	4830	< 0.02	< 0.02
P03-02-05	05-Oct-07	< 0.001	< 0.25	22.5	< 0.025	< 0.1	< 0.5	< 0.05	382	< 0.00085	< 0.015	9260	8940	< 0.05	< 0.05
P03-02-07	11-May-05	< 0.001	< 0.2	46.8	< 0.02	< 0.1	< 0.5	< 0.025	443	< 0.001	< 0.01		9620	< 0.01	< 0.02
P03-02-07	08-Sep-05	< 0.0025	< 0.5	< 2	< 0.05	< 0.1	< 0.5	< 0.025	407	< 0.0025	< 0.025	2022	9310	< 0.025	< 0.05
P03-02-07	08-Jun-06	< 0.001	< 0.25	15.2	< 0.025	< 0.1	< 0.5	< 0.05	404	< 0.00085	< 0.015	2238	10300	< 0.05	< 0.05
P03-02-07	22-Sep-06	< 0.0025	17.8	13	< 0.05	< 0.1	< 0.5	< 0.025	455	0.0034	< 0.025	795	10500	< 0.025	0.093
P03-02-07	01-Jun-07	< 0.001	0.3	< 2	< 0.025	< 0.1	< 0.5	< 0.05	407	< 0.00085	< 0.015	12290	9220	< 0.05	< 0.05
P03-02-07	05-Oct-07	< 0.002	< 0.5	< 2	< 0.05	< 0.2	< 1	< 0.1	405	< 0.0017	< 0.03	12950	12900	< 0.1	< 0.1
P03-02-08	11-May-05	0.0012	0.92	< 2	0.051	0.24	< 0.5	< 0.025	363	0.0061	< 0.01	2250	10900	< 0.01	0.067
P03-02-08	08-Sep-05	< 0.005	< 1	55.6	< 0.1	< 0.2	< 1	< 0.05	389	< 0.005	< 0.05	2527	15000	< 0.05	< 0.1
P03-02-08	08-Jun-06	< 0.002	< 0.5	11	< 0.05	< 0.2	< 1	< 0.1	389	< 0.0017	< 0.03	3157	15300	< 0.1	< 0.1
P03-02-08	22-Sep-06	< 0.005	< 1	< 2	< 0.1	< 0.2	< 1	< 0.05	373	< 0.005	< 0.05	1087	16300	< 0.05	< 0.1
P03-02-08	01-Jun-07	< 0.002	< 0.5	< 2	< 0.05	< 0.4	< 2	< 0.1	387	< 0.0017	< 0.03	19020	13100	< 0.1	< 0.1
P03-02-08	05-Oct-07	< 0.004	< 1	< 2	< 0.1	< 0.4	< 2	< 0.2	388	< 0.0034	< 0.06	19650	20000	< 0.2	< 0.2
P03-02-09	11-May-05	< 0.005	< 1	< 2	< 0.1	< 0.4	< 2	< 0.1	419	< 0.005	< 0.05	2473	18800	< 0.05	< 0.1
P03-02-09	08-Sep-05	< 0.005	< 1	46.2	< 0.1	< 0.4	< 2	< 0.1	410	< 0.005	< 0.05		18500	< 0.05	< 0.1
P03-02-09	08-Jun-06	< 0.004	< 1	2.6	< 0.1	< 0.4	< 2	< 0.2	396	< 0.0034	< 0.06	2290	19200	< 0.2	< 0.2
P03-02-09	22-Sep-06	< 0.005	< 1	< 2	< 0.1	< 0.4	< 2	< 0.1	392	< 0.005	< 0.05	1171	20900	< 0.05	< 0.1
P03-02-09	01-Jun-07	< 0.004	< 1	< 2	< 0.1	< 0.8	< 4	< 0.2	383	< 0.0034	< 0.06	22000	14100	< 0.2	< 0.2
P03-02-09	05-Oct-07	< 0.004	< 1	< 2	< 0.1	< 0.4	< 2	< 0.2	394	< 0.0034	< 0.06	22800	23500	< 0.2	< 0.2
P03-04-06	03-May-05	< 0.005	< 1	57.9	< 0.1	< 0.2	< 1	< 0.05	398	< 0.005	< 0.05	5180	7470	< 0.05	< 0.1
P03-04-06	22-Jul-05	< 0.001	< 0.2	50.8	< 0.02	< 0.04	< 0.2	< 0.01	472	< 0.001	0.039	2967	5180	< 0.01	< 0.02
P03-04-06	10-Sep-05	< 0.0025	< 0.5	< 2	< 0.05	< 0.2	< 1	< 0.05	441	< 0.0025	< 0.025	2400	11600	< 0.025	< 0.05
P03-04-06	31-Oct-05	< 0.1	< 2	50.5	< 2	< 0.1	< 1	< 0.05	440	< 0.1	< 0.3	2088	12000	< 0.1	< 0.5
P03-04-06	07-Jun-06	< 0.0004	< 0.1	129	0.02	< 0.1	< 0.5	< 0.02	472	< 0.00034	0.0529	1461	6060	< 0.02	< 0.02
P03-04-06	02-Aug-06	< 0.0004	< 0.1	15.6	0.018	< 0.04	< 0.2	< 0.02	502	< 0.00034	0.0507	3612	5750	< 0.02	< 0.02
P03-04-06	21-Sep-06	< 0.001	< 0.25	16.3	< 0.025	< 0.2	< 1	< 0.05	501	< 0.00085	0.057	1338	5820	< 0.05	0.069
P03-04-06	02-Nov-06	< 0.002	< 0.5	43.7	< 0.05	< 0.1	< 0.5	< 0.1	504	< 0.0017	0.049	6900	6510	< 0.1	< 0.1
P03-04-06	30-May-07	< 0.0004	< 0.1	17.3	0.019	< 0.04	< 0.2	< 0.02	472	< 0.00034	0.0465	5590	3970	< 0.02	< 0.02
P03-04-06	02-Aug-07	< 0.0004	< 0.1	8.6	0.018	< 0.04	< 0.2	< 0.02	573	< 0.00034	0.0449		5530	< 0.02	< 0.02
P03-04-06	04-Oct-07	< 0.0004	< 0.1	19.9	0.017	< 0.04	< 0.2	< 0.02	468	< 0.00034	0.0446	5640	5390	< 0.02	< 0.02
P03-04-06	05-Nov-07	< 0.0004	< 0.1	13.6	0.016	< 0.06	< 0.3	< 0.02	477	< 0.00034	0.0402	4830	5350	< 0.02	< 0.02
P03-04-07	03-May-05	< 0.0025	< 0.5	69	< 0.05	< 0.2	< 1	< 0.05	442	< 0.0025	0.036	3630	5410	< 0.025	< 0.05
P03-04-07	10-Sep-05	< 0.0025	< 0.5	51.5	< 0.05	< 0.2	< 1	< 0.05	448	< 0.0025	< 0.025	2258	10400	< 0.025	< 0.05
P03-04-07	07-Jun-06	< 0.0004	< 0.1	21.4	0.021	< 0.1	< 0.5	< 0.02	483	< 0.00034	0.0525	1132	5920	< 0.02	< 0.02
P03-04-07	21-Sep-06	< 0.001	< 0.25	8.8	< 0.025	< 0.1	< 0.5	< 0.05	484	< 0.00085	0.051	1367	5960	< 0.05	< 0.05
P03-04-07	30-May-07	< 0.0004	< 0.1	17	0.019	< 0.04	< 0.2	< 0.02	469	< 0.00034	0.0478	5490	3810	< 0.02	< 0.02
P03-04-07	04-Oct-07	< 0.0004	< 0.1	31.4	0.018	< 0.04	< 0.2	< 0.02	462	< 0.00034	0.0458	5450	5230	< 0.02	< 0.02

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-01-09	03-May-05	23700	3540	0.00022		< 2.5	604	148	< 1	310	< 5	5.9		3.07	< 0.5
P03-01-09	08-Sep-05	17600	4390	< 0.0002		< 1	777	109	< 0.5	766	< 2.5	4.19		3.36	< 0.25
P03-01-09	09-Jun-06	24000		< 0.00002	< 100	< 5	687	178	< 1	290	< 1	1.4	4.61	3.04	< 0.5
P03-01-09	21-Sep-06	26400		< 0.0002		< 1.5	729	189	< 0.5	308	< 2.5	1.63	5.59	2.97	< 0.25
P03-01-09	01-Jun-07	27100		0.000087	100	< 5	735	197	< 1	338	< 1	< 0.5	3.45	2.98	< 0.5
P03-01-09	10-Oct-07	25400		< 0.00002	< 100	< 5	805	154	< 1	390	< 1	< 0.5	4.21	3.14	< 0.5
P03-02-05	11-May-05	1180	2310	< 0.0002		0.15	318	21.7	< 0.02	333	< 0.1	< 0.02		5.2	< 0.01
P03-02-05	08-Sep-05	1220	2160	< 0.0002		0.18	309	21.3	0.011	353	< 0.05	< 0.01	6.82	4.97	< 0.005
P03-02-05	08-Jun-06	1790		< 0.00002	46	0.21	317	27.3	< 0.02	345	< 0.02	< 0.01	5.77	5.01	< 0.01
P03-02-05	22-Sep-06	2560		< 0.0002		< 0.25	354	27.5	< 0.05	400	< 0.25	< 0.05	6.98	4	< 0.025
P03-02-05	01-Jun-07	1930		< 0.00002	49.9	0.17	285	22.8	< 0.02	329	< 0.02	< 0.01	6.38	4.9	< 0.01
P03-02-05	05-Oct-07	2830		< 0.00002	58	< 0.25	323	30.4	< 0.05	336	< 0.05	< 0.025	6.72	5.15	< 0.025
P03-02-07	11-May-05	3030	3050	< 0.0002		< 0.25	471	23.3	< 0.02	322	< 0.1	0.02		3.75	< 0.01
P03-02-07	08-Sep-05	2710	2860	< 0.0002		0.32	447	23.7	< 0.05	340	< 0.25	< 0.05	6.35	3.63	< 0.025
P03-02-07	08-Jun-06	3770		< 0.00002	73	0.34	433	35.2	< 0.05	288	< 0.05	0.086	6.26	3.7	< 0.025
P03-02-07	22-Sep-06	4290		< 0.0002		0.33	468	36.6	< 0.05	364	< 0.25	2.18	6.85	3.72	< 0.025
P03-02-07	01-Jun-07	5270		< 0.00002	80	0.37	460	45.2	< 0.05	288	< 0.05	< 0.025	6.11	3.42	< 0.025
P03-02-07	05-Oct-07	5730		< 0.00002	79	< 0.5	433	40.8	< 0.1	265	< 0.1	< 0.05	6.38	3.47	< 0.05
P03-02-08	11-May-05	4110	2510	0.00076		< 0.25	390	30.5	< 0.02	223	< 0.1	2.74		3.53	< 0.01
P03-02-08	08-Sep-05	8350	2770	< 0.0002		< 0.5	437	49.9	< 0.1	220	< 0.5	1.53	5.45	3.81	< 0.05
P03-02-08	08-Jun-06	9220		< 0.00002	54	< 0.5	424	58.5	< 0.1	182	< 0.1	1.23	5.6	3.41	< 0.05
P03-02-08	22-Sep-06	9180		< 0.0002		< 0.5	426	56.5	< 0.1	189	< 0.5	1.73	6.58	3.27	< 0.05
P03-02-08	01-Jun-07	12900		< 0.00002	59	< 0.5	407	81.8	< 0.1	133	< 0.1	0.441	4.2	3.14	< 0.05
P03-02-08	05-Oct-07	12900		< 0.00002	59	< 1	424	77.2	< 0.2	140	< 0.2	0.19	4.39	3.2	< 0.1
P03-02-09	11-May-05	12700	2180	< 0.0002		< 1	275	70.5	< 0.1	54	< 0.5	0.3		3.31	< 0.05
P03-02-09	08-Sep-05	12400	2120	< 0.0002		< 1	266	69.9	< 0.1	< 40	< 0.5	1.14		3.5	< 0.05
P03-02-09	08-Jun-06	13400		< 0.00002	< 40	< 1	253	77.8	< 0.2	< 40	< 0.2	1.16	6.13	3.27	< 0.1
P03-02-09	22-Sep-06	15200		< 0.0002		< 1	306	94.9	< 0.1	< 40	< 0.5	< 0.1	5.94	3.17	< 0.05
P03-02-09	01-Jun-07	15700		< 0.00002	< 80	< 1	300	103	< 0.2	< 80	< 0.2	0.12	3.71	3.11	< 0.1
P03-02-09	05-Oct-07	16800		< 0.00002	< 40	< 1	326	93.5	< 0.2	< 40	< 0.2	< 0.1	4.32	3.12	< 0.1
P03-04-06	03-May-05	3770	1360	< 0.0002		< 0.5	89.9	25.1	< 0.1	44	< 0.5	< 0.1	6.32	4.01	< 0.05
P03-04-06	22-Jul-05	1380	1640	< 0.0002		< 0.1	112	16.3	< 0.02	113	< 0.1	< 0.02	6	5.63	< 0.01
P03-04-06	10-Sep-05	6010	1800	< 0.0002		< 0.5	170	48.2	< 0.05	31	< 0.25	< 0.05	6.12	3.9	< 0.025
P03-04-06	31-Oct-05	6690	1730		< 20	< 0.1	154	60.5	< 0.3	37	< 0.5	< 0.5	6.11	3.68	< 2
P03-04-06	07-Jun-06	2030		< 0.00002	< 10	< 0.1	133	19.6	< 0.02	102	0.122	0.011	6.57	6.21	< 0.01
P03-04-06	02-Aug-06	1880		< 0.00002	12.4	< 0.1	135	19.5	< 0.02	113	0.119	< 0.01	6.16	5.51	< 0.01
P03-04-06	21-Sep-06	2150		< 0.00002	< 20	< 0.25	142	20.6	< 0.05	110	0.133	< 0.025	6.25	5.18	< 0.025
P03-04-06	02-Nov-06	2830		< 0.00002	10.8	< 0.5	128	24.7	< 0.1	103	0.1	< 0.05	6.39	5.34	< 0.05
P03-04-06	30-May-07	1640		< 0.00002	11.9	< 0.1	122	15.9	< 0.02	117	0.104	< 0.01	6.36	4.81	< 0.01
P03-04-06	02-Aug-07	1650	2000	0.000029	11.5	< 0.1	138	17.4	< 0.02	135	0.106	< 0.01		5.89	< 0.01
P03-04-06	04-Oct-07	1520		< 0.00002	11.9	< 0.1	112	14.8	< 0.02	123	0.108	< 0.01	6.7	4.87	< 0.01
P03-04-06	05-Nov-07	1560	1700	< 0.00005	12.3	< 0.1	124	14.7	< 0.02	130	0.093	< 0.01	6.73	5.93	< 0.01
P03-04-07	03-May-05	1960	1550	< 0.0002		< 0.5	107	14.3	< 0.05	85	< 0.25	< 0.05	6.29	5.06	< 0.025
P03-04-07	10-Sep-05	5320	1700	< 0.0002		< 0.5	141	39.2	< 0.05	37	< 0.25	< 0.05	6.14	5.54	< 0.025
P03-04-07	07-Jun-06	2040		< 0.00002	< 10	< 0.1	134	19	< 0.02	107	0.118	< 0.01	6.81	6.03	< 0.01
P03-04-07	21-Sep-06	2290		< 0.00002	12	< 0.25	128	20.1	< 0.05	101	0.107	< 0.025	6.41	5.22	< 0.025
P03-04-07	30-May-07	1580		< 0.00002	11.6	< 0.1	123	14.4	< 0.02	101	0.103	< 0.01	6.36	4.99	< 0.01
P03-04-07	04-Oct-07	1440		< 0.00002	11.8	< 0.1	117	13.7	< 0.02	117	0.103	< 0.01	6.72	5.54	< 0.01

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-01-09	03-May-05	< 1		54400			< 2.5	< 0.2	< 0.2	< 1.5	2450
P03-01-09	08-Sep-05	< 0.5		30600			< 1	< 0.1	< 0.1	< 10	1950
P03-01-09	09-Jun-06	< 1	< 0.5	46300		13.5	< 0.5	< 0.2	< 0.2	< 1.5	3350
P03-01-09	21-Sep-06	< 0.5		51900		9.2	< 1.5	< 0.1	< 0.1	< 0.9	3750
P03-01-09	01-Jun-07	< 1	< 0.5	58100		7.3	< 0.4	< 0.2	< 0.2	3.1	4040
P03-01-09	10-Oct-07	< 1	< 0.5	56000		2.7	< 0.5	< 0.2	< 0.2	< 1	3380
P03-02-05	11-May-05	< 0.02		4860		6.1	< 0.15	< 0.004	0.004	< 0.09	< 0.015
P03-02-05	08-Sep-05	< 0.01		4730		4.8	< 0.1	< 0.002	0.0041	0.668	< 0.01
P03-02-05	08-Jun-06	< 0.02	< 0.01	5350		15.6	< 0.05	< 0.004	< 0.004	< 0.15	0.051
P03-02-05	22-Sep-06	< 0.05		7360		5	< 0.25	< 0.01	< 0.01	< 0.15	0.418
P03-02-05	01-Jun-07	< 0.02	< 0.01	6540		5.7	< 0.02	< 0.004	< 0.004	0.128	0.018
P03-02-05	05-Oct-07	< 0.05	< 0.025	7790		4	< 0.05	< 0.01	< 0.01	< 0.05	0.0065
P03-02-07	11-May-05	< 0.02		8980			< 0.25	< 0.004	< 0.004	< 0.15	< 0.025
P03-02-07	08-Sep-05	< 0.05		8570		6	< 0.25	< 0.01	< 0.01	1.36	< 0.025
P03-02-07	08-Jun-06	< 0.05	< 0.025	9250		15.1	< 0.05	< 0.01	< 0.01	< 0.15	0.27
P03-02-07	22-Sep-06	< 0.05		10300		4.8	< 0.25	< 0.01	< 0.01	0.18	2.09
P03-02-07	01-Jun-07	< 0.05	< 0.025	13500		8.1	< 0.05	< 0.01	< 0.01	0.35	< 0.25
P03-02-07	05-Oct-07	< 0.1	< 0.05	12500		4.4	< 0.1	< 0.02	< 0.02	< 0.1	0.0129
P03-02-08	11-May-05	< 0.02		11000		5.6	< 0.25	< 0.004	< 0.004	< 0.15	15.9
P03-02-08	08-Sep-05	< 0.1		16600		6.9	< 0.5	< 0.02	< 0.02	3.98	21.7
P03-02-08	08-Jun-06	< 0.1	< 0.05	16100		14.1	< 0.1	< 0.02	< 0.02	< 0.3	38.8
P03-02-08	22-Sep-06	< 0.1		18700		5.1	< 0.5	< 0.02	< 0.02	0.65	32
P03-02-08	01-Jun-07	< 0.1	< 0.05	24300		8.3	< 0.2	< 0.02	< 0.02	1.47	105
P03-02-08	05-Oct-07	< 0.2	< 0.1	27100		5	< 0.2	< 0.04	< 0.04	< 0.2	126
P03-02-09	11-May-05	< 0.1		23600		5.2	< 1	< 0.02	< 0.02	< 0.6	436
P03-02-09	08-Sep-05	< 0.1		21900			< 1	< 0.02	< 0.02	5.91	477
P03-02-09	08-Jun-06	< 0.2	< 0.1	21000		18	< 0.2	< 0.04	< 0.04	< 0.6	496
P03-02-09	22-Sep-06	< 0.1		29500		4.5	< 1	< 0.02	< 0.02	< 0.6	680
P03-02-09	01-Jun-07	< 0.2	< 0.1	31194		8.6	< 0.4	< 0.04	< 0.04	1.7	848
P03-02-09	05-Oct-07	< 0.2	< 0.1	30500		4.7	< 0.2	< 0.04	< 0.04	< 0.2	912
P03-04-06	03-May-05	< 0.1		8060		4.8	< 0.5	< 0.02	< 0.02	< 0.3	5.08
P03-04-06	22-Jul-05	< 0.02		4400		4.7	< 0.1	< 0.004	< 0.004	< 0.06	5.11
P03-04-06	10-Sep-05	< 0.05		12200		7.1	< 0.5	< 0.01	< 0.01	< 3	12
P03-04-06	31-Oct-05	< 2	< 0.3	11700		3.5	< 0.1	< 2		< 0.5	7.92
P03-04-06	07-Jun-06	< 0.02	< 0.01	4810		9.3	< 0.05	< 0.004	< 0.004	< 0.15	4.3
P03-04-06	02-Aug-06	< 0.02	< 0.01	4970		5.6	< 0.02	< 0.004	< 0.004	< 0.06	4.5
P03-04-06	21-Sep-06	< 0.05	< 0.025	4910		7.1	< 0.1	< 0.01	< 0.01	< 0.3	3.78
P03-04-06	02-Nov-06	< 0.1	< 0.05	6120		0.5	< 0.05	< 0.02	< 0.02	< 1	2.88
P03-04-06	30-May-07	< 0.02	< 0.01	4650		5.7	< 0.02	< 0.004	< 0.004	0.1	3.57
P03-04-06	02-Aug-07	< 0.02	< 0.01	4280			< 0.02	< 0.004	< 0.004	< 0.06	5.42
P03-04-06	04-Oct-07	< 0.02	< 0.01	4010		4	< 0.02	< 0.004	< 0.004	< 0.02	5.01
P03-04-06	05-Nov-07	< 0.02	< 0.01	4150		3.7	< 0.03	< 0.004	< 0.004	< 0.02	4.53
P03-04-07	03-May-05	< 0.05		4960		4.4	< 0.5	< 0.01	< 0.01	< 0.3	1.8
P03-04-07	10-Sep-05	< 0.05		10700		5.7	< 0.5	< 0.01	< 0.01	< 2.5	5.54
P03-04-07	07-Jun-06	< 0.02	< 0.01	4520		7.7	< 0.05	< 0.004	< 0.004	< 0.15	3.72
P03-04-07	21-Sep-06	< 0.05	< 0.025	5030		5.6	< 0.05	< 0.01	< 0.01	< 0.2	3.19
P03-04-07	30-May-07	< 0.02	< 0.01	4420		6.2	< 0.02	< 0.004	< 0.004	0.087	2.12
P03-04-07	04-Oct-07	< 0.02	< 0.01	3840		4.5	< 0.02	< 0.004	< 0.004	< 0.02	3.19

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-04-08	03-May-05	< 0.005	< 1	< 1	< 0.1	< 0.2	< 1	< 0.05	389	< 0.005	< 0.05	5440	8230	< 0.05	< 0.1
P03-04-08	22-Jul-05	< 0.0025	< 0.5	47.4	< 0.05	< 0.1	< 0.5	< 0.025	429	< 0.0025	< 0.025	3760	8860	< 0.025	< 0.05
P03-04-08	10-Sep-05	< 0.0025	< 0.5	51	< 0.05	< 0.2	< 1	< 0.05	449	< 0.0025	< 0.025	2482	9960	< 0.025	< 0.05
P03-04-08	07-Jun-06	< 0.001	< 0.25	16.2	< 0.025	< 0.1	< 0.5	< 0.05	385	< 0.00085	< 0.015	1540	8650	< 0.05	< 0.05
P03-04-08	21-Sep-06	< 0.001	< 0.25	12.6	< 0.025	< 0.1	< 0.5	< 0.05	405	< 0.00085	< 0.015	1341	8350	< 0.05	< 0.05
P03-04-08	30-May-07	< 0.001	< 0.25	4	< 0.025	< 0.1	< 0.5	< 0.05	404	< 0.00085	< 0.015	7890	5190	< 0.05	< 0.05
P03-04-08	04-Oct-07	< 0.001	< 0.25	5.4	< 0.025	< 0.1	< 0.5	< 0.05	386	< 0.00085	< 0.015	6790	6780	< 0.05	< 0.05
P03-04-09	10-Sep-05	< 0.0025	< 0.5	2.8	< 0.05	< 0.2	< 1	< 0.05	489	< 0.0025	< 0.025	2362	7890	< 0.025	< 0.05
P03-04-09	07-Jun-06	< 0.001	< 0.25	16.2	< 0.025	< 0.1	< 0.5	< 0.05	412	< 0.00085	< 0.015	1837	8060	< 0.05	< 0.05
P03-04-09	21-Sep-06			9.7									7310		
P03-04-09	30-May-07	< 0.001	0.59		< 0.025	< 0.1	< 0.5	< 0.05	432	< 0.00085	< 0.015	5760		< 0.05	< 0.05
P03-04-09	04-Oct-07	< 0.001	< 0.25	14.6	< 0.025	< 0.1	< 0.5	< 0.05	384	< 0.00085	< 0.015	8170	8440	< 0.05	< 0.05
P03-05-07	04-May-05	< 0.0025	< 0.5	46.9	< 0.05	< 0.2	< 1	< 0.05	285	< 0.0025	< 0.025	7660	7140	< 0.025	< 0.05
P03-05-07	10-Sep-05	< 0.0001	< 0.02	45.3	< 0.002	< 0.1	< 0.5	< 0.025	325	< 0.0001	< 0.001	2492	7570	< 0.001	< 0.002
P03-05-07	15-Jun-06	< 0.0004	< 0.1	10	< 0.01	< 0.1	< 0.5	< 0.02	332	< 0.00034	< 0.006	6540	7700	< 0.02	< 0.02
P03-05-07	02-Nov-06	< 0.001	< 0.25	18.3	< 0.025	< 0.04	< 0.2	< 0.05	293	< 0.00085	< 0.015	3790	7440	< 0.05	< 0.05
P03-05-07	31-May-07	< 0.001	< 0.25	7.6	< 0.025	< 0.04	< 0.2	< 0.05	332	< 0.00085	< 0.015	7340	4620	< 0.05	< 0.05
P03-05-07	02-Oct-07	< 0.001	< 0.25	10.9	< 0.025	< 0.06	< 0.3	< 0.05	330	< 0.00085	< 0.015	8230	8080	< 0.05	< 0.05
P03-05-08	04-May-05	< 0.0025	< 0.5	43.9	< 0.05	< 0.2	< 1	< 0.05	263	< 0.0025	< 0.025	6630	6170	< 0.025	< 0.05
P03-05-08	10-Sep-05	< 0.001	< 0.2	45.7	0.021	< 0.1	< 0.5	< 0.025	297	< 0.001	< 0.01	2457	6610	< 0.01	< 0.02
P03-05-08	15-Jun-06	< 0.0004	< 0.1	12.8	< 0.01	< 0.1	< 0.5	< 0.02	322	< 0.00034	< 0.006	6310	6950	< 0.02	< 0.02
P03-05-08	02-Nov-06	< 0.001	< 0.25	19	< 0.025	< 0.04	< 0.2	< 0.05	286	< 0.00085	< 0.015	6840	6770	< 0.05	< 0.05
P03-05-08	31-May-07	< 0.001	< 0.25	< 2	< 0.025	< 0.04	< 0.2	< 0.05	323	< 0.00085	< 0.015	6580	4220	< 0.05	< 0.05
P03-05-08	02-Oct-07	< 0.001	< 0.25	13.2	< 0.025	< 0.06	< 0.3	< 0.05	303	< 0.00085	< 0.015	7170	6950	< 0.05	< 0.05
P03-06-06	10-Sep-05	< 0.0025	< 0.5	46.3	< 0.05	< 0.04	< 0.2	< 0.01	310	< 0.0025	0.117	1619	5880	< 0.025	< 0.05
P03-06-06	07-Jun-06	< 0.004	< 1	38.2	< 0.1	< 0.1	< 0.5	< 0.2	357	< 0.0034	0.305	4486	11600	< 0.2	< 0.2
P03-06-06	30-May-07	< 0.004	< 1		< 0.1	< 0.1	< 0.2	< 0.2	399	< 0.0034	0.792	7720		< 0.2	< 0.2
	Total # samples	84	84	83	84	84	84	84	84	84	84	80	83	84	84
	MEAN	0.00274	0.794	19.39	0.061	0.106	0.539	0.056	385.6	0.0027	0.0482	6259	11112	0.0572	0.0742
	Median	0.001	0.25	12.8	0.025	0.05	0.25	0.025	399.5	0.00085	0.015	3775	8230	0.025	0.025
	STD	0.006450	2.13298	22.145	0.13060	0.112	0.592	0.0987	90.98	0.00641	0.09817	6529.6	7302.1	0.1023	0.115615
	MINIMUM	< 0.0001	< 0.02	< 1	< 0.002	< 0.04	< 0.2	< 0.01	94.3	< 0.0001	< 0.001	791	3810	< 0.001	< 0.002
	MAXIMUM	< 0.1	17.8	129	< 2	< 1	< 5	< 1	573	< 0.1	0.792	33300	35600	< 1	< 1
	5th Percentile	0.0002	0.0500	1	0.00575	0.02	0.1000	0.01	160.2	0.00017	0.0033	1169.0	4865.0	0.005	0.01
	25th Percentile	0.0005	0.125	1	0.0125	0.05	0.25	0.0125	350.8	0.000425	0.0075	2111.25	6145	0.0125	0.025
	75th Percentile	0.002	0.5	27.30	0.05	0.1000	0.5	0.050	441.3	0.0025	0.04683	7212.5	13000	0.050	0.050
	95th Percentile	0.0121	2.5	51.45	0.25	0.3850	2	0.25	488.2	0.01189994	0.15000	20100.0	26610.0	0.25	0.25
<b>Toe of Cross Valley Dam</b>															
<b>Slightly Impacted</b>															
P01-02A	11-May-05	< 0.00005	< 0.01	208	< 0.001	0.06	< 0.3	< 0.015	102	0.00006	0.00051	528	646	< 0.0005	< 0.001
P01-02A	21-Jul-05	< 0.00005	< 0.01	208	< 0.001	0.062	< 0.1	< 0.005	90	0.00007	0.00062	552	621	< 0.0005	< 0.001
P01-02A	09-Sep-05	< 0.00005	< 0.01	217	< 0.001	0.059	< 0.1	< 0.005	100	0.000085	< 0.0005	624	647	< 0.0005	< 0.001
P01-02A	09-Jun-06	< 0.00002	< 0.005	215	0.00063	0.06	< 0.1	< 0.001	92.3	0.000086	0.00048	499	621	< 0.001	< 0.001
P01-02A	22-Sep-06	< 0.00002	< 0.005	234	0.00066	0.065	< 0.1	< 0.001	95.5	0.000067	0.00042	645	628	< 0.001	< 0.001
P01-02A	04-Oct-07	< 0.00004	< 0.01	254	< 0.001	0.06	< 0.1	< 0.002	105	0.000081	< 0.0006		645	< 0.002	< 0.002
P01-02B	21-Jul-05	< 0.00005	< 0.01	175	0.0034	0.033	< 0.1	< 0.005	63.9	< 0.00005	< 0.0005	953	509	< 0.0005	< 0.001
P01-02B	09-Sep-05	< 0.00005	< 0.01	193	0.0035	0.032	< 0.1	< 0.005	67.6	< 0.00005	< 0.0005	520	510	< 0.0005	< 0.001
P01-02B	09-Jun-06	< 0.00002	< 0.005	185	0.0038	0.033	< 0.1	< 0.001	64.2	< 0.000017	< 0.0003	626	495	< 0.001	< 0.001

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-04-08	03-May-05	3830	1190	< 0.0002		< 0.5	53.9	21	< 0.1	< 20	< 0.5	< 0.1	6.1	3.35	< 0.05
P03-04-08	22-Jul-05	4290	1340	< 0.0002		< 0.25	65.5	26	< 0.05	11	< 0.25	< 0.05	6.03	4.14	< 0.025
P03-04-08	10-Sep-05	5180	1490	< 0.0002		< 0.5	88.8	30.8	< 0.05	< 20	< 0.25	< 0.05	5.79	3.85	< 0.025
P03-04-08	07-Jun-06	4410		< 0.00002	< 10	< 0.25	67.6	32	< 0.05	19	< 0.05	< 0.025	5.99	4.12	< 0.025
P03-04-08	21-Sep-06	4350		< 0.00002	< 10	< 0.25	77.5	31.9	< 0.05	40	< 0.05	< 0.025	6.16	3.82	< 0.025
P03-04-08	30-May-07	3880		< 0.00002	10	< 0.25	80.4	28.9	< 0.05	75	< 0.05	< 0.025	5.74	3.6	< 0.025
P03-04-08	04-Oct-07	2680		< 0.00002	< 10	< 0.25	89.3	17.9	< 0.05	114	< 0.05	< 0.025	6.38	3.69	< 0.025
P03-04-09	10-Sep-05	3700	1470	< 0.0002		< 0.5	61.3	19.1	< 0.05	< 20	< 0.25	0.346	5.79	3.81	< 0.025
P03-04-09	07-Jun-06	3950		< 0.00002	< 10	< 0.25	89.6	32.6	< 0.05	29	< 0.05	0.079	4.84	4.01	< 0.025
P03-04-09	21-Sep-06													3.73	
P03-04-09	30-May-07	3880		0.00007	< 10	< 0.25	60.3	24.2	< 0.05	40	< 0.05	0.1	3.26		< 0.025
P03-04-09	04-Oct-07	3940		< 0.00002	< 10	< 0.25	74.3	26.6	< 0.05	50	< 0.05	< 0.025	4.1	3.81	< 0.025
P03-05-07	04-May-05	2160	2380	< 0.0002		< 0.5	405	31.5	< 0.05	271	< 0.25	< 0.05	6.2	4	< 0.025
P03-05-07	10-Sep-05	2190	2790	< 0.0002		< 0.25	480	30.8	< 0.002	290	< 0.01	0.0099	6.26	4.42	< 0.001
P03-05-07	15-Jun-06	2120		< 0.00002	57	0.11	492	32.1	< 0.02	252	< 0.02	0.021	5.86	4.24	< 0.01
P03-05-07	02-Nov-06	1790		< 0.00002	62.1	< 0.25	452	39.4	< 0.05	224	< 0.05	< 0.025	7.56	5.32	< 0.025
P03-05-07	31-May-07	1820		< 0.00002	59.4	< 0.25	511	38.3	< 0.05	252	< 0.05	< 0.025	6.09	3.76	< 0.025
P03-05-07	02-Oct-07	2080		< 0.00002	64	< 0.25	563	41.5	< 0.05	226	< 0.05	< 0.025	6.42	3.85	< 0.025
P03-05-08	04-May-05	1540	1990	< 0.0002		< 0.5	324	22.4	< 0.05	282	< 0.25	0.077	6.01	4.14	< 0.025
P03-05-08	10-Sep-05	1680	2340	< 0.0002		< 0.25	388	23.3	< 0.02	284	< 0.1	0.102	5.96	4.52	0.012
P03-05-08	15-Jun-06	1660		< 0.00002	56	< 0.1	439	27.4	< 0.02	252	< 0.02	0.04	6.17	4.21	< 0.01
P03-05-08	02-Nov-06	1430		< 0.00002	61	< 0.25	421	33.6	< 0.05	226	< 0.05	0.226	5.89	4.46	< 0.025
P03-05-08	31-May-07	1330		< 0.00002	58.5	< 0.25	471	31	< 0.05	240	< 0.05	0.037	6.05	3.78	< 0.025
P03-05-08	02-Oct-07	1580		< 0.00002	64.3	< 0.25	475	30.2	< 0.05	227	< 0.05	< 0.025	6.31	4.03	< 0.025
P03-06-06	10-Sep-05	238	3910	< 0.0002		0.19	762	152	< 0.05	76.7	0.49	0.172	6.12	5.49	< 0.025
P03-06-06	07-Jun-06	428		< 0.00002	16	< 1	1790	391	< 0.2	110	1.58	0.55	6.37	6.17	< 0.1
P03-06-06	30-May-07	329		< 0.00002	21.4	< 1	1570	331	< 0.2	118	1.71	0.13	6.09	6.09	< 0.1
	Total # samples	84	30	83	50	84	84	84	84	84	84	84	77	83	84
	MEAN	6295.8	2181.1	5.90602E-05	37.66	0.3535	352.41	56.95	0.0756	215.37	0.2270	0.3628	5.95	4.16	0.0466
	Median	3385	2060	0.00001	34.5	0.2000	317.50	30.90	0.025	204.50	0.1065	0.025	6.13	3.85	0.0125
	STD	6782.4	848.5	9.09311E-05	29.75	0.4945	294.27	64.60	0.1149	169.67	0.41444	0.91298	0.83	0.88	0.11979
	MINIMUM	238	783	< 0.00002	< 10	< 0.1	53.9	13.7	< 0.002	11	< 0.01	0.0099	3.26	2.97	< 0.001
	MAXIMUM	27100	4390	0.00076	110	< 5	1790	391	< 1	766	< 5	5.9	7.56	6.21	< 2
	5th Percentile	1236.5	1168.00	1E-05	5	0.050	68.60	14.97	0.01	19.15	0.0123	0.005	4.18	3.11	0.005
	25th Percentile	1865	1572.5	1E-05	11.53	0.125	128.00	22.30	0.025	82.92	0.025	0.0125	5.79	3.47	0.0125
	75th Percentile	8557.50	2705	1E-04	59.00	0.348	462	70.05	0.062	323.75	0.25	0.1765	6.38	4.88	0.025
	95th Percentile	23129.99	3743.5	1E-04	91.00	1.25	760.50	174.40	0.25	568.65	1.25	1.7150	6.81	5.86	0.231
<b>Toe of Cross Valley Dam</b>															
<b>Slightly Impacted</b>															
P01-02A	11-May-05	< 0.09	354	< 0.0002		< 0.15	24.4	1.04	0.0016	11	< 0.005	< 0.001		8.09	< 0.0005
P01-02A	21-Jul-05	< 0.03	322	< 0.0002		< 0.05	23.6	0.724	0.002	11.9	< 0.005	< 0.001	7.66	8.07	< 0.0005
P01-02A	09-Sep-05	< 0.03	348	< 0.0002		< 0.05	23.7	1	0.0019	12.2	< 0.005	< 0.001	7.59	5.83	< 0.0005
P01-02A	09-Jun-06	< 0.03		< 0.00002	2.2	0.006	22.7	1.01	0.0017	11.8	0.0021	< 0.0005	7.7	8.14	< 0.0005
P01-02A	22-Sep-06	< 0.03		< 0.00002	2.3	0.0056	23.1	0.925	0.0018	10.1	0.0019	< 0.0005	7.4	8.17	< 0.0005
P01-02A	04-Oct-07	< 0.03		< 0.00002	2.8	< 0.01	24.9	0.943	< 0.002	9.7	< 0.002	< 0.001		7.92	< 0.001
P01-02B	21-Jul-05	0.507	266	< 0.0002		< 0.05	25.8	0.148	< 0.001	12.4	< 0.005	< 0.001	7.54	8.1	< 0.0005
P01-02B	09-Sep-05	0.493	273	< 0.0002		< 0.05	25.3	0.141	< 0.001	12.3	< 0.005	< 0.001	8.1	6.34	< 0.0005
P01-02B	09-Jun-06	0.499		< 0.00002	< 2	0.0062	24.9	0.144	< 0.001	11	0.001	< 0.0005	7.64	8.15	< 0.0005

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-04-08	03-May-05	< 0.1		8350		7.7	< 0.5	< 0.02	< 0.02	< 0.3	2.76
P03-04-08	22-Jul-05	< 0.05		9350		11.6	< 0.25	< 0.01	< 0.01	< 0.15	2.68
P03-04-08	10-Sep-05	< 0.05		10100		7.9	< 0.5	< 0.01	< 0.01	< 2.5	3.08
P03-04-08	07-Jun-06	< 0.05	< 0.025	7320		12.7	< 0.05	< 0.01	< 0.01	< 0.15	4.27
P03-04-08	21-Sep-06	< 0.05	< 0.025	8290		5.9	< 0.05	< 0.01	< 0.01	< 0.3	3.8
P03-04-08	30-May-07	< 0.05	< 0.025	7940		6.6	< 0.05	< 0.01	< 0.01	0.21	3.22
P03-04-08	04-Oct-07	< 0.05	< 0.025	5650		5.4	< 0.05	< 0.01	< 0.01	< 0.05	2.91
P03-04-09	10-Sep-05	< 0.05		7500		8.6	< 0.5	< 0.01	< 0.01	< 2	7.24
P03-04-09	07-Jun-06	< 0.05	< 0.025	6880		16.1	< 0.05	< 0.01	< 0.01	< 0.15	0.951
P03-04-09	21-Sep-06			6930							
P03-04-09	30-May-07	< 0.05	< 0.025			10.5	< 0.05	< 0.01	< 0.01	0.26	0.85
P03-04-09	04-Oct-07	< 0.05	< 0.025	7740		5.8	< 0.05	< 0.01	< 0.01	< 0.05	0.4
P03-05-07	04-May-05	< 0.05		4060		4.8	< 0.5	< 0.01	< 0.01	< 0.3	< 0.05
P03-05-07	10-Sep-05	< 0.002		6600		5.5	< 0.25	< 0.0004	< 0.0004	< 1.5	0.389
P03-05-07	15-Jun-06	< 0.02	< 0.01	6480		9.9	< 0.05	< 0.004	< 0.004	< 0.15	0.0472
P03-05-07	02-Nov-06	< 0.05	< 0.025	6560		2.2	< 0.02	< 0.01	< 0.01	< 0.3	0.034
P03-05-07	31-May-07	< 0.05	< 0.025	6600		9	< 0.02	< 0.01	< 0.01	< 0.06	< 0.05
P03-05-07	02-Oct-07	< 0.05	< 0.025	6920		4.9	< 0.03	< 0.01	< 0.01	< 0.05	0.05
P03-05-08	04-May-05	< 0.05		4470		4.9	< 0.5	< 0.01	< 0.01	< 0.3	0.136
P03-05-08	10-Sep-05	< 0.02		5550		4.8	< 0.25	< 0.004	< 0.004	< 1	0.289
P03-05-08	15-Jun-06	< 0.02	< 0.01	5550		11.6	< 0.05	< 0.004	< 0.004	< 0.15	0.0778
P03-05-08	02-Nov-06	< 0.05	< 0.025	5880		2.3	< 0.02	< 0.01	< 0.01	< 0.3	0.185
P03-05-08	31-May-07	< 0.05	< 0.025	6100		8.8	< 0.02	< 0.01	< 0.01	< 0.06	< 0.05
P03-05-08	02-Oct-07	< 0.05	< 0.025	5710		4.2	< 0.03	< 0.01	< 0.01	< 0.05	0.073
P03-06-06	10-Sep-05	< 0.05		5080		8.8	< 0.1	< 0.01	< 0.01	0.141	370
P03-06-06	07-Jun-06	< 0.2	< 0.1	9510		15.1	< 0.05	< 0.04	< 0.04	< 0.15	755
P03-06-06	30-May-07	< 0.2	< 0.1			11.8	< 0.02	< 0.04	< 0.04	0.071	551
	Total # samples	84	50	83		80	84	84	83	84	84
	MEAN	0.0811	0.04005	13588.8		7.02	0.146	0.026	0.014	0.545	419.23
	Median	0.025	0.0125	7790		5.85	0.0625	0.005	0.005	0.150	4.28
	STD	0.15289	0.06358	13065.6		3.50	0.198	0.1100	0.0230	1.061	915.73
	MINIMUM	< 0.002	< 0.01	3840		0.5	< 0.02	< 0.0004	< 0.0004	< 0.02	0.0065
	MAXIMUM	< 2	< 0.5	58100		18	< 2.5	< 2	< 0.2	< 10	4040
	5th Percentile	0.01	0.005	4292.0		2.89	0.01	0.002	0.002	0.025	0.01256
	25th Percentile	0.025	0.006875	5355		4.80	0.025	0.005	0.005	0.075	0.364
	75th Percentile	0.050	0.04375	16350		8.65	0.25	0.01	0.01	0.5	294
	95th Percentile	0.462	0.205	45210.0		15.10	0.5	0.092	0.05	2.89	2679.50
<b>Toe of Cross Valley Dam</b>											
<b>Slightly Impacted</b>											
P01-02A	11-May-05	< 0.001		141		4.8	< 0.15	< 0.0002	0.0022	< 0.09	< 0.015
P01-02A	21-Jul-05	< 0.001		135		6.3	< 0.05	< 0.0002	0.00228	< 0.03	< 0.005
P01-02A	09-Sep-05	< 0.001		127		4.89	< 0.05	< 0.0002	0.00231	< 0.03	0.0081
P01-02A	09-Jun-06	< 0.001	< 0.0005	124		4.9	< 0.01	< 0.0002	0.00251	< 0.03	< 0.005
P01-02A	22-Sep-06	< 0.001	< 0.0005	124		4.7	< 0.01	< 0.0002	0.00232	< 0.03	0.0054
P01-02A	04-Oct-07	< 0.002	< 0.001	123			< 0.01	< 0.0004	0.0025	< 0.002	0.0053
P01-02B	21-Jul-05	< 0.001		103		6.4	< 0.05	< 0.0002	0.00229	< 0.03	< 0.005
P01-02B	09-Sep-05	< 0.001		92.3		7.62	< 0.05	< 0.0002	0.00232	< 0.03	0.0087
P01-02B	09-Jun-06	< 0.001	< 0.0005	94.6		4.8	< 0.01	< 0.0002	0.00229	< 0.03	< 0.005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P01-02B	22-Sep-06	< 0.00002	< 0.005	180	0.00426	0.035	< 0.1	< 0.001	64.4	< 0.000017	< 0.0003	524	507	< 0.001	< 0.001
P01-02B	30-May-07	< 0.00002	0.0196	205	0.00419	0.025	< 0.1	< 0.001	71.5	< 0.000017	< 0.0003	520	495	< 0.001	< 0.001
P03-09-01	04-May-05	< 0.00025	< 0.05	344	< 0.005	0.041	< 0.1	< 0.005	185	< 0.00025	< 0.0025	1300	1280	< 0.0025	< 0.005
P03-09-01	09-Sep-05	< 0.0001	< 0.02	341	< 0.002	0.039	< 0.1	< 0.005	198	< 0.0001	< 0.001	1032	1210	< 0.001	< 0.002
P03-09-01	06-Jun-06	< 0.00004	< 0.01	357	0.0013	0.036	< 0.1	< 0.002	164	< 0.000034	< 0.0006	824	1240	< 0.002	< 0.002
P03-09-01	19-Sep-06	< 0.0001	< 0.025	342	< 0.0025	0.042	< 0.1	< 0.005	171	< 0.000085	< 0.0015	979	1210	< 0.005	< 0.005
P03-09-01	29-May-07	< 0.00004	< 0.01	304	0.0013	0.027	< 0.1	< 0.002	179	< 0.000034	< 0.0006	1369	1270	< 0.002	< 0.002
P03-09-01	02-Oct-07	< 0.0001	< 0.025	343	< 0.0025	0.036	< 0.1	< 0.005	181	< 0.000085	< 0.0015	1288	1260	< 0.005	< 0.005
P03-09-02	04-May-05	< 0.0001	< 0.02	333	< 0.002	0.042	< 0.1	< 0.005	182	< 0.0001	< 0.001	1297	1250	< 0.001	< 0.002
P03-09-02	22-Jul-05	< 0.0001	< 0.02	307	< 0.002	0.035	< 0.1	< 0.005	158	< 0.0001	< 0.001	1095	1230	< 0.001	< 0.002
P03-09-02	09-Sep-05	< 0.0001	< 0.02	354	< 0.002	0.038	< 0.1	< 0.005	175	< 0.0001	< 0.001	894	1200	< 0.001	< 0.002
P03-09-02	01-Nov-05	< 0.01	< 0.2	344	< 0.2	0.036	< 0.1	< 0.005	158	< 0.01	< 0.01	576	1200	< 0.01	< 0.01
P03-09-02	06-Jun-06	< 0.00004	< 0.01	341	0.0012	0.039	< 0.1	< 0.002	169	< 0.000034	< 0.0006	682	1210	< 0.002	< 0.002
P03-09-02	02-Aug-06	< 0.00004	< 0.01	318	0.0015	0.037	< 0.1	< 0.002	165	< 0.000034	< 0.0006	384	1180	< 0.002	< 0.002
P03-09-02	19-Sep-06	< 0.00004	< 0.01	337	0.0013	0.04	< 0.1	< 0.002	171	< 0.000034	< 0.0006	1024	1190	< 0.002	< 0.002
P03-09-02	01-Nov-06	< 0.0001	< 0.025	338	< 0.0025	< 0.04	< 0.2	< 0.005	170	< 0.000085	< 0.0015	1250	1180	< 0.005	< 0.005
P03-09-02	29-May-07	< 0.00004	0.035	298	0.0013	0.026	< 0.1	< 0.002	170	< 0.000034	< 0.0006	1325	1240	< 0.002	< 0.002
P03-09-02	02-Aug-07	< 0.00004	< 0.01	332	0.0015	0.026	< 0.1	< 0.002	163	< 0.000034	< 0.0006	1166	1280	< 0.002	< 0.002
P03-09-02	02-Oct-07	< 0.0001	< 0.025	336	< 0.0025	0.035	< 0.1	< 0.005	180	< 0.000085	< 0.0015	1432	1260	< 0.005	< 0.005
P03-09-02	05-Nov-07	< 0.00004	< 0.01	338	0.0015	0.037	< 0.1	< 0.002	167	< 0.000034	< 0.0006	1154	1270	< 0.002	< 0.002
P03-09-03	04-May-05	< 0.0001	< 0.02	250	< 0.002	0.045	< 0.1	< 0.005	171	< 0.0001	0.0049	1006	995	< 0.001	< 0.002
P03-09-03	09-Sep-05	< 0.0001	< 0.02	284	< 0.002	0.052	< 0.1	< 0.005	208	< 0.0001	0.0051	737	1140	< 0.001	0.0025
P03-09-03	06-Jun-06	< 0.00004	< 0.01	254	< 0.001	0.04	< 0.1	< 0.002	153	< 0.000034	0.0046	613	1020	< 0.002	< 0.002
P03-09-03	19-Sep-06	< 0.00004	< 0.01	270	< 0.001	0.057	< 0.1	< 0.002	203	0.000049	0.00567	998	1250	< 0.002	< 0.0025
P03-09-03	29-May-07	< 0.00004	< 0.01	255	< 0.001	0.03	< 0.1	< 0.002	162	0.000072	0.00534	1149	1070	< 0.002	< 0.002
P03-09-03	02-Oct-07	< 0.0001	< 0.025	290	< 0.0025	0.058	< 0.1	< 0.005	247	0.000092	0.0068	1422	1410	< 0.005	< 0.005
P03-09-04	04-May-05	< 0.0001	< 0.02	253	< 0.002	0.042	< 0.1	< 0.005	172	0.00016	0.0034	1033	1010	< 0.001	< 0.002
P03-09-04	22-Jul-05	< 0.0001	< 0.02	234	< 0.002	0.038	< 0.1	< 0.005	161	0.00011	0.003	960	1100	< 0.001	< 0.002
P03-09-04	09-Sep-05	< 0.0001	< 0.02	271	< 0.002	0.042	< 0.1	< 0.005	198	0.0003	0.0033	741	1180	< 0.001	< 0.002
P03-09-04	01-Nov-05	< 0.01	< 0.2	263	< 0.2	0.044	< 0.1	< 0.005	183	< 0.01	< 0.01	578	1180	< 0.01	< 0.01
P03-09-04	06-Jun-06	< 0.00004	< 0.01	262	< 0.001	0.039	< 0.1	< 0.002	156	0.000037	0.00397	574	1010	< 0.002	< 0.002
P03-09-04	02-Aug-06	< 0.00004	< 0.01	263	< 0.001	0.049	< 0.1	< 0.002	199	0.000284	0.00343	603	1180	< 0.002	< 0.002
P03-09-04	19-Sep-06	< 0.00004	< 0.01	281	< 0.001	0.055	< 0.1	< 0.002	208	0.000262	0.00393	985	1260	< 0.002	< 0.002
P03-09-04	01-Nov-06	< 0.0001	< 0.025	284	< 0.0025	0.046	< 0.2	< 0.005	203	0.000413	0.0033	1280	1220	< 0.005	< 0.005
P03-09-04	29-May-07	< 0.00004	< 0.01	261	< 0.001	0.028	< 0.1	< 0.002	169	0.000206	0.00329	1138	1080	< 0.002	< 0.002
P03-09-04	02-Aug-07	< 0.00004	< 0.01	262	< 0.001	0.037	< 0.1	< 0.002	201	0.00034	0.00317	1217	1250	< 0.002	< 0.002
P03-09-04	02-Oct-07	< 0.0001	< 0.025	282	< 0.0025	0.051	< 0.1	< 0.005	237	0.000323	0.0039	1378	1360	< 0.005	< 0.005
P03-09-04	05-Nov-07	< 0.00004	< 0.01	277	< 0.001	0.053	< 0.1	< 0.002	220	0.000341	0.00346	1271	1400	< 0.002	< 0.002
P03-09-05	04-May-05	< 0.0001	< 0.02	250	< 0.002	0.042	< 0.1	< 0.005	168	< 0.0001	0.0044	1014	989	< 0.001	< 0.002
P03-09-05	09-Sep-05	< 0.00025	< 0.05	280	< 0.005	0.069	< 0.1	< 0.005	287	< 0.00025	0.0044	751	1180	< 0.0025	< 0.005
P03-09-05	06-Jun-06	< 0.00004	0.014	261	< 0.001	0.039	< 0.1	< 0.002	152	< 0.000034	0.00403	546	1010	< 0.002	< 0.002
P03-09-05	19-Sep-06	< 0.00004	0.013	277	< 0.001	0.058	< 0.1	< 0.002	217	0.000066	0.00487	991	1270	< 0.002	< 0.002
P03-09-05	29-May-07	< 0.00004	< 0.01	254	< 0.001	0.028	< 0.1	< 0.002	159	0.00005	0.00446	1135	1080	< 0.002	< 0.002
P03-09-05	02-Oct-07	< 0.0002	< 0.05	283	< 0.005	0.068	< 0.1	< 0.01	212	0.00031	< 0.003	1353	1360	< 0.01	< 0.01
P03-09-06	04-May-05	< 0.00025	< 0.05	269	< 0.005	0.063	< 0.1	< 0.005	184	< 0.00025	< 0.0025	1154	1120	< 0.0025	< 0.005
P03-09-06	22-Jul-05	< 0.0001	< 0.02	249	< 0.002	0.057	< 0.1	< 0.005	160	< 0.0001	0.001	952	1110	< 0.001	< 0.002
P03-09-06	09-Sep-05	< 0.00025	< 0.05	273	< 0.005	0.075	< 0.1	< 0.005	203	0.00051	< 0.0025	715	1160	< 0.0025	< 0.005
P03-09-06	01-Nov-05	< 0.01	< 0.2	274	< 0.2	0.06	< 0.1	< 0.005	174	< 0.01	< 0.01	578	1200	< 0.01	< 0.01



### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L	
P01-02B	22-Sep-06	0.672		< 0.00002	< 2	0.0057	24.5	0.137	< 0.001	10.5	< 0.001	< 0.0005	7.4	8.17	< 0.0005	
P01-02B	30-May-07	0.659		< 0.00002	< 2	0.0058	26	0.141	< 0.001	9.8	< 0.001	< 0.0005	7.75	8.27	< 0.0005	
P03-09-01	04-May-05	7.17	698	< 0.0002		< 0.05	57.2	0.419	< 0.005	48.7	< 0.025	< 0.005	6.64	7.92	< 0.0025	
P03-09-01	09-Sep-05	0.401	761	< 0.0002			0.054	64.8	0.428	< 0.002	60.4	< 0.01	< 0.002	7.16	7.73	< 0.001
P03-09-01	06-Jun-06	5.86		< 0.00002	2.7	0.035	49.3	0.371	< 0.002	44.2	< 0.002	< 0.001	6.3	7.86	< 0.001	
P03-09-01	19-Sep-06	6.99		< 0.00002	3.2	0.033	52.3	0.441	< 0.005	52.6	< 0.005	< 0.0025	6.84	8.02	< 0.0025	
P03-09-01	29-May-07	6.36		< 0.00002	3	0.038	54.1	0.388	< 0.002	42.4	< 0.002	< 0.001	7.04	7.9	< 0.001	
P03-09-01	02-Oct-07	6.02		< 0.00002	3.9	0.035	53.9	0.358	< 0.005	43.6	< 0.005	< 0.0025	8.02	7.69	< 0.0025	
P03-09-02	04-May-05	7.2	689	< 0.0002		< 0.05	57.1	0.417	< 0.002	48	< 0.01	< 0.002	6.9	7.91	< 0.001	
P03-09-02	22-Jul-05	5.92	590	< 0.0002		< 0.05	47.7	0.359	< 0.002	42.9	< 0.01	< 0.002	6.47	7.77	< 0.001	
P03-09-02	09-Sep-05	6.4	665	< 0.0002			0.053	55.7	0.375	< 0.002	48.5	< 0.01	< 0.002	7.12	7.66	< 0.001
P03-09-02	01-Nov-05	6.09	594		3.5	0.043	48.7	0.346	< 0.03	43	< 0.05	< 0.05	6.68	7.49	< 0.2	
P03-09-02	06-Jun-06	6.18		< 0.00002	2.9	0.033	51.9	0.352	< 0.002	46.4	< 0.002	< 0.001	6.67	7.89	< 0.001	
P03-09-02	02-Aug-06	6.37		< 0.00002	3	0.032	52	0.377	< 0.002	46.1	< 0.002	< 0.001	6.47	7.79	< 0.001	
P03-09-02	19-Sep-06	6.96		< 0.00002	3.2	0.032	51.3	0.389	< 0.002	50.9	< 0.002	< 0.001	6.75	8.03	< 0.001	
P03-09-02	01-Nov-06	6.34		< 0.00002	< 4	0.035	51.5	0.386	< 0.005	45.5	< 0.005	< 0.0025	7.11	7.46	< 0.0025	
P03-09-02	29-May-07	6.21		< 0.00002	2.9	0.036	51	0.387	< 0.002	41	< 0.002	< 0.001	7.1	7.89	< 0.001	
P03-09-02	02-Aug-07	6.22	619	< 0.00002	3.2	0.034	51.1	0.333	< 0.002	46	< 0.002	< 0.001	7.09	7.89	< 0.001	
P03-09-02	02-Oct-07	6.03		< 0.00002	3.9	0.035	53.8	0.363	< 0.005	43	< 0.005	< 0.0025	7.39	7.68	< 0.0025	
P03-09-02	05-Nov-07	6.84	658	< 0.00005	3.8	0.035	58.5	0.359	< 0.002	48.7	< 0.002	< 0.001	7.39	7.86	< 0.001	
P03-09-03	04-May-05	0.09	571	< 0.0002		< 0.05	34.6	6.61	< 0.002	31.2	< 0.01	< 0.002	7.17	8.01	< 0.001	
P03-09-03	09-Sep-05	0.085	685	< 0.0002		< 0.05	40.4	7.48	< 0.002	34.7	< 0.01	< 0.002	7.27	7.76	< 0.001	
P03-09-03	06-Jun-06	< 0.03		< 0.00002	3	< 0.01	31.3	5.54	< 0.002	25.3	0.0085	< 0.001	6.88	7.95	< 0.001	
P03-09-03	19-Sep-06	0.039		< 0.00002	3.7	< 0.01	41.3	7.88	< 0.002	36.2	0.01	< 0.001	6.8	8.08	< 0.001	
P03-09-03	29-May-07	< 0.03		< 0.00002	3.1	< 0.01	32	6.25	< 0.002	23	0.0104	< 0.001	7.15	8.07	< 0.001	
P03-09-03	02-Oct-07	< 0.03		< 0.00002	4.9	< 0.025	47.2	7.3	< 0.005	33.3	0.0123	< 0.0025	8.22	7.75	< 0.0025	
P03-09-04	04-May-05	0.034	570	< 0.0002		< 0.05	34.3	6.14	< 0.002	30.3	< 0.01	< 0.002	7.22	8.01	< 0.001	
P03-09-04	22-Jul-05	< 0.03	532	< 0.0002		< 0.05	31.4	5.26	< 0.002	27.1	< 0.01	< 0.002	7.01	7.86	< 0.001	
P03-09-04	09-Sep-05	0.052	636	< 0.0002		< 0.05	34.3	6.04	< 0.002	30.1	< 0.01	< 0.002	7.27	7.81	< 0.001	
P03-09-04	01-Nov-05	0.092	601		4	0.02	35	5.87	< 0.03	30.3	< 0.05	< 0.05	7.06	7.45	< 0.2	
P03-09-04	06-Jun-06	0.097		< 0.00002	3	< 0.01	30.7	5.41	< 0.002	25.8	0.0089	< 0.001	6.85	7.99	< 0.001	
P03-09-04	02-Aug-06	< 0.03		< 0.00002	3.7	< 0.01	40	6.41	< 0.002	32.5	0.009	< 0.001	6.33	7.9	< 0.001	
P03-09-04	19-Sep-06	< 0.03		< 0.00002	3.9	0.01	41.8	7.16	< 0.002	36.8	0.0099	< 0.001	6.93	8.1	< 0.001	
P03-09-04	01-Nov-06	< 0.06		< 0.00002	4.2	< 0.025	38.2	6.25	< 0.005	32.1	0.0099	< 0.0025	7.22	7.6	< 0.0025	
P03-09-04	29-May-07	< 0.03		< 0.00002	3.2	0.011	32.3	5.66	< 0.002	24.5	0.0096	< 0.001	7.19	8	< 0.001	
P03-09-04	02-Aug-07	< 0.03	673	< 0.00002	4.2	0.011	41.7	5.49	< 0.002	32.8	0.008	< 0.001	7.2	7.93	< 0.001	
P03-09-04	02-Oct-07	< 0.03		< 0.00002	4.7	< 0.025	44.7	6.01	< 0.005	31.9	0.0112	< 0.0025	8.23	7.77	< 0.0025	
P03-09-04	05-Nov-07	< 0.03	758	< 0.00005	4.8	0.012	50.7	6.49	< 0.002	37	0.0097	< 0.001	7.54	7.9	< 0.001	
P03-09-05	04-May-05	0.037	553	< 0.0002		< 0.05	32.7	6.17	< 0.002	27.7	< 0.01	< 0.002	7.31	8.02	< 0.001	
P03-09-05	09-Sep-05	0.06	954	< 0.0002		< 0.05	57.7	10.2	< 0.005	49.8	< 0.025	< 0.005	7.24	7.82	< 0.0025	
P03-09-05	06-Jun-06	< 0.03		< 0.00002	2.9	< 0.01	30.5	5.47	< 0.002	25.1	0.0093	< 0.001	6.92	7.99	< 0.001	
P03-09-05	19-Sep-06	0.134		< 0.00002	3.9	0.01	42	7.72	< 0.002	36.4	0.0114	0.0015	6.91	8.11	< 0.001	
P03-09-05	29-May-07	< 0.03		< 0.00002	3.1	< 0.01	30.8	6.06	< 0.002	22.6	0.0108	< 0.001	7.15	7.98	< 0.001	
P03-09-05	02-Oct-07	< 0.03		< 0.00002	4.4	< 0.05	44.7	6.26	< 0.01	33.3	< 0.01	< 0.005	8.23	7.74	< 0.005	
P03-09-06	04-May-05	0.1	612	< 0.0002		< 0.05	37.1	5.92	< 0.005	33.6	< 0.025	< 0.005	7.2	7.99	< 0.0025	
P03-09-06	22-Jul-05	< 0.03	544	< 0.0002		< 0.05	35.2	4.9	< 0.002	31.7	< 0.01	< 0.002	7.09	7.86	< 0.001	
P03-09-06	09-Sep-05	0.034	704	< 0.0002		< 0.05	47.5	6	< 0.005	44.5	< 0.025	< 0.005	7.15	7.84	< 0.0025	
P03-09-06	01-Nov-05	0.062	586		3.9	0.025	36.7	5.55	< 0.03	31.5	< 0.05	< 0.05	7.13	7.62	< 0.2	

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P01-02B	22-Sep-06	< 0.001	< 0.0005	94.4		4.1	< 0.01	< 0.0002	0.00214	< 0.03	0.0056
P01-02B	30-May-07	< 0.001	< 0.0005	107		3.8	< 0.01	< 0.0002	0.00247	< 0.03	0.0058
P03-09-01	04-May-05	< 0.005		385		5.2	< 0.05	< 0.001	0.0015	< 0.03	< 0.005
P03-09-01	09-Sep-05	< 0.002		352		4.4	< 0.05	< 0.0004	0.0015	< 0.03	< 0.005
P03-09-01	06-Jun-06	< 0.002	< 0.001	375		5.4	< 0.01	< 0.0004	0.0016	< 0.03	0.005
P03-09-01	19-Sep-06	< 0.005	< 0.0025	349		4.8	< 0.01	< 0.001	0.0015	< 0.03	0.0221
P03-09-01	29-May-07	< 0.002	< 0.001	409		5.5	< 0.01	< 0.0004	0.00183	< 0.03	< 0.005
P03-09-01	02-Oct-07	< 0.005	< 0.0025	340		3.8	< 0.01	< 0.001	0.0016	< 0.005	0.0056
P03-09-02	04-May-05	< 0.002		378		3.8	< 0.05	< 0.0004	0.00153	< 0.03	0.0055
P03-09-02	22-Jul-05	< 0.002		372		6.2	< 0.05	< 0.0004	0.00147	< 0.03	< 0.005
P03-09-02	09-Sep-05	< 0.002		344		4.4	< 0.05	< 0.0004	0.00146	< 0.03	0.0054
P03-09-02	01-Nov-05	< 0.2	< 0.03	324	0.767	3.6	< 0.01	< 0.2		< 0.03	< 0.005
P03-09-02	06-Jun-06	< 0.002	< 0.001	357		8	< 0.01	< 0.0004	0.00156	< 0.03	< 0.005
P03-09-02	02-Aug-06	< 0.002	< 0.001	347		4.6	< 0.01	< 0.0004	0.00156	< 0.03	0.0051
P03-09-02	19-Sep-06	< 0.002	< 0.001	345		5.2	< 0.01	< 0.0004	0.00152	< 0.03	0.0092
P03-09-02	01-Nov-06	< 0.005	< 0.0025	373		2.3	< 0.02	< 0.001	0.0017	< 0.06	0.0059
P03-09-02	29-May-07	< 0.002	< 0.001	372		6.8	< 0.01	< 0.0004	0.00186	< 0.03	< 0.005
P03-09-02	02-Aug-07	< 0.002	< 0.001	391		7.3	< 0.01	< 0.0004	0.00159	< 0.03	< 0.005
P03-09-02	02-Oct-07	< 0.005	< 0.0025	341		3.9	< 0.01	< 0.001	0.0016	< 0.005	0.0066
P03-09-02	05-Nov-07	< 0.002	< 0.001	407		2.9	< 0.01	< 0.0004	0.00158	< 0.002	0.0055
P03-09-03	04-May-05	< 0.002		309		4.7	< 0.05	< 0.0004	0.00601	< 0.03	0.0058
P03-09-03	09-Sep-05	< 0.002		375		4.5	< 0.05	< 0.0004	0.00665	< 0.03	0.0071
P03-09-03	06-Jun-06	< 0.002	< 0.001	327		5.9	< 0.01	< 0.0004	0.00618	< 0.03	< 0.005
P03-09-03	19-Sep-06	< 0.002	< 0.001	437		6.9	< 0.01	< 0.0004	0.00703	< 0.03	0.013
P03-09-03	29-May-07	< 0.002	< 0.001	367		4.7	< 0.01	< 0.0004	0.00732	< 0.03	< 0.005
P03-09-03	02-Oct-07	< 0.005	< 0.0025	480		3.8	< 0.01	< 0.001	0.008	< 0.005	0.0071
P03-09-04	04-May-05	< 0.002		319		4.5	< 0.05	< 0.0004	0.00583	< 0.03	0.0071
P03-09-04	22-Jul-05	< 0.002		370		4.8	< 0.05	< 0.0004	0.00602	< 0.03	< 0.005
P03-09-04	09-Sep-05	< 0.002		393		4.4	< 0.05	< 0.0004	0.0065	< 0.03	0.0065
P03-09-04	01-Nov-05	< 0.2	< 0.03	374	0.468	3.3	< 0.01	< 0.2		< 0.03	< 0.005
P03-09-04	06-Jun-06	< 0.002	< 0.001	286		7.6	< 0.01	< 0.0004	0.00602	< 0.03	< 0.005
P03-09-04	02-Aug-06	< 0.002	< 0.001	406		5.6	< 0.01	< 0.0004	0.00659	< 0.03	0.006
P03-09-04	19-Sep-06	< 0.002	< 0.001	447		5.4	< 0.01	< 0.0004	0.00672	< 0.03	0.012
P03-09-04	01-Nov-06	< 0.005	< 0.0025	458		5.3	< 0.02	< 0.001	0.0066	< 0.06	0.0083
P03-09-04	29-May-07	< 0.002	< 0.001	372		5.3	< 0.01	< 0.0004	0.00657	< 0.03	< 0.005
P03-09-04	02-Aug-07	< 0.002	< 0.001	444		8	< 0.01	< 0.0004	0.00622	< 0.03	0.0055
P03-09-04	02-Oct-07	< 0.005	< 0.0025	465		3.8	< 0.01	< 0.001	0.007	< 0.005	0.0078
P03-09-04	05-Nov-07	< 0.002	< 0.001	514		0.6	< 0.01	< 0.0004	0.00666	< 0.002	0.0064
P03-09-05	04-May-05	< 0.002		311		4	< 0.05	< 0.0004	0.0061	< 0.03	0.006
P03-09-05	09-Sep-05	< 0.005		391		4.4	< 0.05	< 0.001	0.0066	< 0.03	0.0098
P03-09-05	06-Jun-06	< 0.002	< 0.001	272		5.9	< 0.01	< 0.0004	0.00609	< 0.03	0.0069
P03-09-05	19-Sep-06	< 0.002	< 0.001	454		6	< 0.01	< 0.0004	0.00685	< 0.03	0.013
P03-09-05	29-May-07	< 0.002	< 0.001	365		4.5	< 0.01	< 0.0004	0.00696	< 0.03	< 0.005
P03-09-05	02-Oct-07	< 0.01	< 0.005	437		3.8	< 0.01	< 0.002	0.0056	< 0.01	0.01
P03-09-06	04-May-05	< 0.005		372		4	< 0.05	< 0.001	0.005	< 0.03	< 0.005
P03-09-06	22-Jul-05	< 0.002		362		4.9	< 0.05	< 0.0004	0.00442	< 0.03	< 0.005
P03-09-06	09-Sep-05	< 0.005		368		4.2	< 0.05	< 0.001	0.0047	< 0.03	< 0.005
P03-09-06	01-Nov-05	< 0.2	< 0.03	385	0.539	2.3	< 0.01	< 0.2		< 0.03	< 0.005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P03-09-06	06-Jun-06	< 0.00004	0.015	277	< 0.001	0.063	< 0.1	< 0.002	171	< 0.000034	0.00097	623	1110	< 0.002	< 0.002
P03-09-06	02-Aug-06	< 0.00004	< 0.01	267	< 0.001	0.062	< 0.1	< 0.002	177	0.000196	0.001	311	1090	< 0.002	< 0.002
P03-09-06	19-Sep-06	< 0.00004	< 0.01	279	< 0.001	0.074	< 0.1	< 0.002	197	0.000239	0.001	966	1220	< 0.002	< 0.002
P03-09-06	01-Nov-06	< 0.0001	< 0.025	295	< 0.0025	0.065	< 0.2	< 0.005	205	0.000325	< 0.0015	1280	1250	< 0.005	< 0.005
P03-09-06	29-May-07	< 0.00004	0.023	278	< 0.001	0.045	< 0.1	< 0.002	188	0.000249	0.00116	1274	1200	< 0.002	< 0.002
P03-09-06	02-Aug-07	< 0.00004	< 0.01	271	< 0.001	0.048	< 0.1	< 0.002	189	0.000176	0.00091	1181	1190	< 0.002	< 0.002
P03-09-06	02-Oct-07	< 0.0001	< 0.025	287	< 0.0025	0.066	< 0.1	< 0.005	219	0.000229	< 0.0015	1347	1350	< 0.005	< 0.005
P03-09-06	05-Nov-07	< 0.00004	< 0.01	298	< 0.001	0.072	< 0.1	< 0.002	219	0.000328	0.00114	1263	1470	< 0.002	< 0.002
P03-09-07	04-May-05	< 0.00025	< 0.05	264	< 0.005	0.066	< 0.1	< 0.005	210	< 0.00025	< 0.0025	1208	1180	< 0.0025	< 0.005
P03-09-07	22-Jul-05	< 0.0001	< 0.02	246	< 0.002	0.057	< 0.1	< 0.005	176	< 0.0001	0.0013	998	1200	< 0.001	< 0.002
P03-09-07	09-Sep-05	< 0.00025	< 0.05	281	< 0.005	0.084	< 0.1	< 0.005	286	< 0.00025	< 0.0025	910	1290	< 0.0025	< 0.005
P03-09-07	01-Nov-05	< 0.01	< 0.2	274	< 0.2	0.06	< 0.1	< 0.005	189	< 0.01	< 0.01	599	1280	< 0.01	< 0.01
P03-09-07	06-Jun-06	< 0.00004	< 0.01	183	< 0.001	0.059	< 0.1	< 0.002	185	< 0.000034	0.00132	624	1150	< 0.002	< 0.002
P03-09-07	02-Aug-06	< 0.00004	< 0.01	260	< 0.001	0.06	< 0.1	< 0.002	198	0.000208	0.00134	548	1170	< 0.002	< 0.002
P03-09-07	19-Sep-06	< 0.00004	< 0.01	274	< 0.001	0.073	< 0.1	< 0.002	224	0.000175	0.00139	1035	1340	< 0.002	< 0.002
P03-09-07	01-Nov-06	< 0.0002	< 0.05	298	< 0.005	0.066	< 0.2	< 0.01	234	0.00019	< 0.003	1420	1360	< 0.01	< 0.01
P03-09-07	29-May-07	< 0.00004	< 0.01	274	< 0.001	0.039	< 0.1	< 0.002	188	0.000244	0.00146	1326	1240	< 0.002	< 0.002
P03-09-07	02-Aug-07	< 0.00004	< 0.01	268	< 0.001	0.043	< 0.1	< 0.002	194	0.000312	0.00128	1269	1290	< 0.002	< 0.002
P03-09-07	02-Oct-07	< 0.0001	0.095	282	< 0.0025	0.066	< 0.1	< 0.005	250	0.000235	0.0016	1476	1480	< 0.005	< 0.005
P03-09-07	05-Nov-07	< 0.0001	< 0.025	286	< 0.0025	0.068	< 0.1	< 0.005	254	0.000373	0.0015	1394	1560	< 0.005	< 0.005
P03-09-08	04-May-05	< 0.00025	< 0.05	267	< 0.005	0.072	< 0.1	< 0.005	203	< 0.00025	0.0027	1215	1180	< 0.0025	< 0.005
P03-09-08	09-Sep-05	< 0.00025	< 0.05	281	< 0.005	0.094	< 0.1	< 0.005	277	< 0.00025	< 0.0025	892	1250	< 0.0025	< 0.005
P03-09-08	06-Jun-06	< 0.00004	< 0.01	178	< 0.001	0.06	< 0.1	< 0.002	164	0.000037	0.00249	603	799	< 0.002	< 0.002
P03-09-08	19-Sep-06	< 0.00004	< 0.01	269	< 0.001	0.074	< 0.1	< 0.002	209	0.000064	0.0025	1047	1280	< 0.002	< 0.002
P03-09-08	29-May-07	< 0.00004	< 0.01	277	< 0.001	0.035	< 0.1	< 0.002	184	0.000105	0.00284	1311	1240	< 0.002	< 0.002
P03-09-08	02-Oct-07	< 0.0001	< 0.025	280	< 0.0025	0.058	< 0.1	< 0.005	240	< 0.000085	0.0029	1443	1440	< 0.005	< 0.005
P03-09-09	04-May-05	< 0.00025	< 0.05	267	< 0.005	0.079	< 0.1	< 0.005	210	< 0.00025	0.0027	1209	1170	< 0.0025	< 0.005
P03-09-09	22-Jul-05	< 0.0001	< 0.02	245	< 0.002	0.071	< 0.1	< 0.005	180	0.00015	0.0027	1015	1190	< 0.001	0.0343
P03-09-09	09-Sep-05	< 0.00025	< 0.05	284	< 0.005	0.081	< 0.1	< 0.005	250	0.00026	< 0.0025	733	1240	< 0.0025	< 0.005
P03-09-09	01-Nov-05	< 0.01	< 0.2	276	< 0.2	0.068	< 0.1	< 0.005	201	< 0.01	< 0.01	590	1280	< 0.01	< 0.01
P03-09-09	06-Jun-06	< 0.00004	< 0.01	176	< 0.001	0.04	< 0.1	< 0.002	102	0.00011	0.00175	319.8	802	< 0.002	< 0.002
P03-09-09	02-Aug-06	< 0.00004	< 0.01	261	< 0.001	0.067	< 0.1	< 0.002	200	0.000086	0.0021	549	1170	< 0.002	< 0.002
P03-09-09	19-Sep-06	< 0.00004	< 0.01	280	< 0.001	0.072	< 0.1	< 0.002	208	0.000116	0.0024	1030	1280	< 0.002	< 0.002
P03-09-09	01-Nov-06	< 0.0002	< 0.05	297	< 0.005	0.066	< 0.2	< 0.01	228	0.00017	< 0.003	1370	1330	< 0.01	< 0.01
P03-09-09	29-May-07	< 0.00004	< 0.01	271	< 0.001	0.039	< 0.1	< 0.002	200	0.000189	0.00275	1313	1240	< 0.002	< 0.002
P03-09-09	02-Aug-07	< 0.00004	0.09	270	< 0.001	0.044	< 0.1	< 0.002	204	0.000281	0.00234	1279	1290	< 0.002	< 0.002
P03-09-09	02-Oct-07	< 0.0001	< 0.025	282	< 0.0025	0.061	< 0.1	< 0.005	243	0.000177	0.0028	1439	1430	< 0.005	< 0.005
P03-09-09	05-Nov-07	< 0.0001	< 0.025	294	< 0.0025	0.059	< 0.1	< 0.005	248	0.000208	0.003	1348	1520	< 0.005	< 0.005
P05-01-01	02-Aug-06	< 0.0001	< 0.025	405	< 0.0025	0.073	< 0.1	< 0.005	270	< 0.000085	< 0.0015	1618	1910	< 0.005	< 0.005
P05-01-01	19-Sep-06	< 0.0001	< 0.025	492	< 0.0025	0.071	< 0.1	< 0.005	208	< 0.000085	< 0.0015	1389	1780	< 0.005	< 0.005
P05-01-01	02-Oct-07	< 0.0001	< 0.025	497	< 0.0025	0.053	< 0.1	< 0.005	215	< 0.000085	< 0.0015	1679	1780	< 0.005	< 0.005
P05-03	21-Sep-06	< 0.0001	< 0.02	256	< 0.002	0.16	< 0.1	< 0.005	166	< 0.0001	0.0016	1124	1050	< 0.001	< 0.002
P05-03	30-May-07	< 0.00004	0.016	262	0.0022	0.211	< 0.1	< 0.002	249	0.000165	0.00202	1363	1310	< 0.002	< 0.002
P05-03	04-Oct-07	< 0.0001	< 0.025	281	< 0.0025	0.174	< 0.1	< 0.005	209	0.000134	0.0016	1120	1210	< 0.005	< 0.005
	Total # samples	101	101	101	101	101	101	101	101	101	101	100	101	101	101
	MEAN	0.00029	0.0169	278.6	0.0061	0.056	0.053	0.002	184.26	0.00037	0.00203	999.8	1165.0	0.001	0.002
	Median	0.000025	0.01	274	0.001	0.055	0.05	0.0025	185	0.000105	0.00139	1031	1210	0.001	0.001
	STD	0.00108	0.0234	52.6	0.0215	0.0274	0.015	0.0011	47.6	0.001068	0.00164	331.6	262.9	0.00124	0.0035

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P03-09-06	06-Jun-06	0.161		< 0.00002	3.1	0.014	35.1	5.26	< 0.002	31.6	0.0073	< 0.001	7.12	8.02	< 0.001
P03-09-06	02-Aug-06	0.068		< 0.00002	3.4	0.016	37.8	5.74	< 0.002	33.5	0.0072	< 0.001	7.02	7.9	< 0.001
P03-09-06	19-Sep-06	0.048		< 0.00002	3.8	0.015	43	6.48	< 0.002	37.4	0.0076	< 0.001	6.85	8.12	< 0.001
P03-09-06	01-Nov-06	< 0.06		< 0.00002	4.3	< 0.025	41.3	6.69	< 0.005	33.8	0.009	< 0.0025	7.17	7.6	< 0.0025
P03-09-06	29-May-07	0.031		< 0.00002	3.3	0.015	36.7	6.48	< 0.002	29	0.0088	< 0.001	7.09	8.01	< 0.001
P03-09-06	02-Aug-07	0.033	636	< 0.00002	3.8	0.016	40.1	5.36	< 0.002	34.5	0.0064	< 0.001	7.21	7.93	< 0.001
P03-09-06	02-Oct-07	0.111		< 0.00002	4.5	< 0.025	46	6.1	< 0.005	33.2	0.0092	< 0.0025	8.27	7.71	< 0.0025
P03-09-06	05-Nov-07	< 0.03	762	< 0.00005	4.7	0.015	52.3	7.46	< 0.002	37.7	0.009	< 0.001	7.6	7.88	< 0.001
P03-09-07	04-May-05	0.066	686	< 0.0002		< 0.05	39.6	7.32	< 0.005	34.8	< 0.025	< 0.005	7.14	7.96	< 0.0025
P03-09-07	22-Jul-05	< 0.03	584	< 0.0002		< 0.05	35	5.83	< 0.002	31.7	< 0.01	< 0.002	7.16	7.9	< 0.001
P03-09-07	09-Sep-05	0.056	944	< 0.0002		< 0.05	55.7	9.49	< 0.005	48.7	< 0.025	< 0.005	7.24	7.81	< 0.0025
P03-09-07	01-Nov-05	0.133	620		4	0.024	36.2	6.31	< 0.03	31.3	< 0.05	< 0.05	7.11	7.71	< 0.2
P03-09-07	06-Jun-06	0.073		< 0.00002	3.3	0.011	35.4	6.06	< 0.002	31.7	0.008	< 0.001	7.04	7.98	< 0.001
P03-09-07	02-Aug-06	< 0.03		< 0.00002	3.6	0.011	38.8	6.84	< 0.002	33.4	0.0082	< 0.001	7.01	7.9	< 0.001
P03-09-07	19-Sep-06	0.039		< 0.00002	3.9	0.012	42.6	8.27	< 0.002	35.8	0.009	< 0.001	6.87	8.09	< 0.001
P03-09-07	01-Nov-06	< 0.06		< 0.00002	4.5	< 0.05	43.4	8.51	< 0.01	34.1	0.011	< 0.005	7.15	7.55	< 0.005
P03-09-07	29-May-07	< 0.03		< 0.00002	3.2	0.013	34.9	7.56	< 0.002	27.5	0.0106	< 0.001	7.1	8.28	< 0.001
P03-09-07	02-Aug-07	0.031	640	< 0.00002	3.8	0.012	37.8	6.69	< 0.002	31	0.0082	< 0.001	7.18	7.9	< 0.001
P03-09-07	02-Oct-07	< 0.03		< 0.00002	4.7	< 0.025	49.3	7.76	< 0.005	33.3	0.0111	< 0.0025	8.27	7.72	< 0.0025
P03-09-07	05-Nov-07	< 0.03	870	< 0.00005	4.9	< 0.025	57.3	9.37	< 0.005	37.8	0.0115	< 0.0025	7.67	7.9	< 0.0025
P03-09-08	04-May-05	0.943	663	< 0.0002		< 0.05	37.7	7.33	< 0.005	34.3	< 0.025	< 0.005	7.14	8.04	< 0.0025
P03-09-08	09-Sep-05	1.08	904	< 0.0002		< 0.05	51.8	9.66	< 0.005	49	< 0.025	< 0.005	7.25	7.78	< 0.0025
P03-09-08	06-Jun-06	0.465		< 0.00002	2.9	< 0.01	31.7	5.5	0.0024	28.3	0.014	< 0.001	6.91	7.95	< 0.001
P03-09-08	19-Sep-06	0.744		< 0.00002	3.7	0.011	40.8	8.45	< 0.002	34	0.0078	< 0.001	6.98	7.88	< 0.001
P03-09-08	29-May-07	0.477		< 0.00002	3	0.013	34	7.73	< 0.002	25.9	0.0094	< 0.001	7.42	8.09	< 0.001
P03-09-08	02-Oct-07	0.658		< 0.00002	4.6	< 0.025	45.9	7.42	< 0.005	32.2	0.0098	< 0.0025	8.25	7.66	< 0.0025
P03-09-09	04-May-05	0.107	684	< 0.0002		< 0.05	38.4	7.05	< 0.005	35.9	< 0.025	< 0.005	7.19	8.01	< 0.0025
P03-09-09	22-Jul-05	0.08	594	< 0.0002		< 0.05	35.3	5.8	< 0.002	32.1	< 0.01	< 0.002	7.08	7.89	< 0.001
P03-09-09	09-Sep-05	0.078	814	< 0.0002		< 0.05	46.3	8.26	< 0.005	43.7	< 0.025	< 0.005	7.25	7.78	< 0.0025
P03-09-09	01-Nov-05	0.146	656		4.2	0.022	37.5	6.9	< 0.03	32	< 0.05	< 0.05	7.12	7.71	< 0.2
P03-09-09	06-Jun-06	0.043		< 0.00002	< 2	< 0.01	21.1	3.4	< 0.002	19.7	0.0117	< 0.001	6.96	8.03	< 0.001
P03-09-09	02-Aug-06	0.135		< 0.00002	3.6	0.011	39.2	6.55	< 0.002	34.1	0.008	< 0.001	7.02	7.89	< 0.001
P03-09-09	19-Sep-06	0.076		< 0.00002	3.6	0.012	39.5	8.04	< 0.002	33.3	0.0091	< 0.001	6.87	7.84	< 0.001
P03-09-09	01-Nov-06	0.065		< 0.00002	4.4	< 0.05	42	8.05	< 0.01	33.6	0.011	< 0.005	7.17	7.58	< 0.005
P03-09-09	29-May-07	0.069		< 0.00002	3.3	0.013	36.8	7.45	< 0.002	28.7	0.0113	< 0.001	7.16	7.95	< 0.001
P03-09-09	02-Aug-07	0.075	681	< 0.00002	4	0.012	41.5	6.52	< 0.002	33	0.0084	< 0.001	7.17	7.92	< 0.001
P03-09-09	02-Oct-07	0.077		< 0.00002	4.7	< 0.025	46.8	7.42	< 0.005	32.9	0.0116	< 0.0025	8.25	7.67	< 0.0025
P03-09-09	05-Nov-07	0.103	845	< 0.00005	4.7	< 0.025	54.8	9.04	< 0.005	36.6	0.0114	< 0.0025	7.54	7.92	< 0.0025
P05-01-01	02-Aug-06	6.78		< 0.00002	8.3	0.235	79.9	4.43	< 0.005	118	< 0.005	< 0.0025	6.27	7.71	< 0.0025
P05-01-01	19-Sep-06	6.14		< 0.00002	6.6	0.289	76.4	1.44	< 0.005	142	< 0.005	< 0.0025	6.59	7.83	< 0.0025
P05-01-01	02-Oct-07	5.02		< 0.00002	6.5	0.271	73	1.16	< 0.005	122	< 0.005	< 0.0025	6.91	7.34	< 0.0025
P05-03	21-Sep-06	1.81		< 0.0002		< 0.05	32.3	6.83	0.0037	<=> 24.1	< 0.01	< 0.002	6.24	7.88	< 0.001
P05-03	30-May-07	2.68		< 0.00002	3.6	< 0.01	50.5	10.3	0.0034	32	0.0027	< 0.001	7.23	8	< 0.001
P05-03	04-Oct-07	1.9		< 0.00002	4	< 0.025	39	7.58	< 0.005	27.6	< 0.005	< 0.0025	7.64	7.61	< 0.0025
	Total # samples	101	43	96	72	101	101	101	101	101	101	101	99	101	101
	MEAN	1.430	637.19	0.000038	3.66	0.027	41.76	4.877	0.0023	35.67	0.0078	0.0022	7.20	7.85	0.0057
	Median	0.077	640	1E-05	3.70	0.022	40.10	6.01	0.001	33.30	0.008	0.001	7.2	7.9	0.0005
	STD	2.502	157.8	4.11581E-05	1.17	0.0437	11.57	3.128	0.0031	19.37	0.0056	0.0053	0.44	0.31	0.0216

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P03-09-06	06-Jun-06	< 0.002	< 0.001	355		9.4	< 0.01	< 0.0004	0.0047	< 0.03	0.008
P03-09-06	02-Aug-06	< 0.002	< 0.001	331		4.6	< 0.01	< 0.0004	0.00471	< 0.03	0.0056
P03-09-06	19-Sep-06	< 0.002	< 0.001	416		5.1	< 0.01	< 0.0004	0.00483	< 0.03	0.0088
P03-09-06	01-Nov-06	< 0.005	< 0.0025	469		1.6	< 0.02	< 0.001	0.0054	< 0.06	0.0087
P03-09-06	29-May-07	< 0.002	< 0.001	417		5	< 0.01	< 0.0004	0.00584	< 0.03	< 0.005
P03-09-06	02-Aug-07	< 0.002	< 0.001	388		6.9	< 0.01	< 0.0004	0.00489	< 0.03	< 0.005
P03-09-06	02-Oct-07	< 0.005	< 0.0025	442		3.8	< 0.01	< 0.001	0.0055	< 0.005	0.0068
P03-09-06	05-Nov-07	< 0.002	< 0.001	550		3.5	< 0.01	< 0.0004	0.00577	< 0.002	0.0062
P03-09-07	04-May-05	< 0.005		415		4	< 0.05	< 0.001	0.006	< 0.03	0.0065
P03-09-07	22-Jul-05	< 0.002		412		5.6	< 0.05	< 0.0004	0.00563	< 0.03	< 0.005
P03-09-07	09-Sep-05	< 0.005		437		4.7	< 0.05	< 0.001	0.0058	< 0.03	0.008
P03-09-07	01-Nov-05	< 0.2	< 0.03	427	0.502	3.2	< 0.01	< 0.2		< 0.03	< 0.005
P03-09-07	06-Jun-06	< 0.002	< 0.001	382		6.1	< 0.01	< 0.0004	0.00551	< 0.03	0.0058
P03-09-07	02-Aug-06	< 0.002	< 0.001	405		5.2	< 0.01	< 0.0004	0.00554	< 0.03	0.0054
P03-09-07	19-Sep-06	< 0.002	< 0.001	488		4.8	< 0.01	< 0.0004	0.00608	< 0.03	0.0093
P03-09-07	01-Nov-06	< 0.01	< 0.005	544		1.4	< 0.02	< 0.002	0.007	< 0.06	0.0092
P03-09-07	29-May-07	< 0.002	< 0.001	480		4.8	< 0.01	< 0.0004	0.00656	< 0.03	< 0.005
P03-09-07	02-Aug-07	< 0.002	< 0.001	473		6.4	< 0.01	< 0.0004	0.00566	< 0.03	0.0071
P03-09-07	02-Oct-07	< 0.005	< 0.0025	536		3.8	< 0.01	< 0.001	0.0068	< 0.005	0.0075
P03-09-07	05-Nov-07	< 0.005	< 0.0025	613		3.2	< 0.01	< 0.001	0.0072	< 0.005	0.0073
P03-09-08	04-May-05	< 0.005		412		4.9	< 0.05	< 0.001	0.0059	< 0.03	0.0055
P03-09-08	09-Sep-05	< 0.005		418		6.5	< 0.05	< 0.001	0.0058	< 0.03	0.0088
P03-09-08	06-Jun-06	< 0.002	< 0.001	248		7.7	< 0.01	< 0.0004	0.00467	< 0.03	0.0089
P03-09-08	19-Sep-06	< 0.002	< 0.001	471		6.2	< 0.01	< 0.0004	0.0062	< 0.03	0.011
P03-09-08	29-May-07	< 0.002	< 0.001	467		6.6	< 0.01	< 0.0004	0.0066	< 0.03	< 0.005
P03-09-08	02-Oct-07	< 0.005	< 0.0025	498		3.9	< 0.01	< 0.001	0.0065	< 0.005	0.0083
P03-09-09	04-May-05	< 0.005		417		4.1	< 0.05	< 0.001	0.006	< 0.03	0.0051
P03-09-09	22-Jul-05	< 0.002		435		6	< 0.05	< 0.0004	0.00565	< 0.03	< 0.005
P03-09-09	09-Sep-05	< 0.005		429		4.4	< 0.05	< 0.001	0.0059	< 0.03	0.0085
P03-09-09	01-Nov-05	< 0.2	< 0.03	425	0.514	3.5	< 0.01	< 0.2		< 0.03	< 0.005
P03-09-09	06-Jun-06	< 0.002	< 0.001	250		12	< 0.01	< 0.0004	0.00322	< 0.03	0.009
P03-09-09	02-Aug-06	< 0.002	< 0.001	379		4.8	< 0.01	< 0.0004	0.00537	< 0.03	0.0061
P03-09-09	19-Sep-06	< 0.002	< 0.001	474		4.6	< 0.01	< 0.0004	0.00598	< 0.03	0.0099
P03-09-09	01-Nov-06	< 0.01	< 0.005	532		1	< 0.02	< 0.002	0.0069	< 0.06	0.0093
P03-09-09	29-May-07	< 0.002	< 0.001	459		5.4	< 0.01	< 0.0004	0.00639	< 0.03	< 0.005
P03-09-09	02-Aug-07	< 0.002	< 0.001	459		6.2	< 0.01	< 0.0004	0.00545	< 0.03	0.0058
P03-09-09	02-Oct-07	< 0.005	< 0.0025	497		3.8	< 0.01	< 0.001	0.0066	< 0.005	0.0077
P03-09-09	05-Nov-07	< 0.005	< 0.0025	588		3.6	< 0.01	< 0.001	0.0072	< 0.005	0.0068
P05-01-01	02-Aug-06	< 0.005	< 0.0025	717		5.3	< 0.01	< 0.001	< 0.001	< 0.03	0.008
P05-01-01	19-Sep-06	< 0.005	< 0.0025	549		4.5	< 0.01	< 0.001	< 0.001	< 0.03	0.034
P05-01-01	02-Oct-07	< 0.005	< 0.0025	489		4.9	< 0.01	< 0.001	< 0.001	< 0.005	0.0065
P05-03	21-Sep-06	< 0.002		363		5.3	< 0.05	< 0.0004	0.00656	< 0.03	0.0125
P05-03	30-May-07	< 0.002	< 0.001	564		3.2	< 0.01	< 0.0004	0.0101	< 0.03	0.0057
P05-03	04-Oct-07	< 0.005	< 0.0025	381		2.1	< 0.01	< 0.001	0.0082	< 0.005	0.0074
	Total # samples	101	72	101	5	100	101	101	96	101	101
	MEAN	0.0064	0.0018	382.05	0.558	4.87	0.011	0.0052	0.0047	0.014	0.006
	Median	0.001	0.0005	388.0	0.514	4.8	0.005	0.0002	0.00564	0.015	0.006
	STD	0.0215	0.0037	120.22	0.120	1.67	0.011	0.0217	0.00224	0.0068	0.0043

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
	MINIMUM	< 0.0002	< 0.005	175	0.00063	0.025	< 0.1	< 0.001	63.9	< 0.000017	< 0.0003	311	495	< 0.0005	< 0.001
	MAXIMUM	< 0.01	< 0.2	497	< 0.2	0.211	< 0.3	< 0.015	287	< 0.01	< 0.01	1679	1910	< 0.01	0.0343
	5th Percentile	2E-05	0.005	185.0	0.0005	0.0280	0.05	0.001	90.00	1.7E-05	0.00025	520.0	621.0	0.0005	0.0005
	25th Percentile	2E-05	0.005	260	0.0005	0.04	0.05	0.001	166	4.25E-05	0.00075	640.25	1110	0.001	0.001
	75th Percentile	5E-05	0.014	294	0.0015	0.066	0.050	0.0025	209	0.000208	0.00317	1280	1280	0.0025	0.0025
	95th Percentile	0.00013	0.0950	344.0	0.004	0.081	0.100	0.0025	250.00	0.00051	0.00500	1432	1480	0.005	0.005
<b>Toe of Cross Valley Dam</b>															
<b>Moderately Impacted</b>															
P01-11	10-May-05	< 0.0001	< 0.02	285	0.0207	< 0.06	< 0.3	< 0.015	357	< 0.0001	0.0015	1572	1940	< 0.001	< 0.002
P01-11	09-Sep-05	< 0.00025	< 0.05	316	0.0292	0.048	< 0.1	< 0.005	347	< 0.00025	< 0.0025	2023	1970	< 0.0025	< 0.005
P01-11	09-Jun-06	< 0.0001	< 0.025	334	0.0318	0.051	< 0.1	< 0.005	347	< 0.000085	0.0027	2065	2010	< 0.005	< 0.005
P01-11	21-Sep-06	< 0.00025	0.189	305	0.031	0.043	< 0.1	< 0.005	305	< 0.00025	0.0026	2180	2010	< 0.0025	< 0.005
P01-11	30-May-07	< 0.0001	< 0.025	303	0.0308	0.034	< 0.1	< 0.005	409	< 0.000085	0.003	2170	1980	< 0.005	< 0.005
P01-11	04-Oct-07	< 0.0001	< 0.025	337	0.0306	0.037	< 0.1	< 0.005	434	< 0.000085	0.0029	2120	2250	< 0.005	< 0.005
P05-01-02	02-Aug-06	< 0.0001	< 0.025	289	< 0.0025	0.041	< 0.1	< 0.005	416	< 0.000085	< 0.0015	1969	2100	< 0.005	< 0.005
P05-01-02	19-Sep-06	< 0.0001	< 0.025	299	< 0.0025	0.042	< 0.1	< 0.005	361	< 0.000085	< 0.0015	1596	2090	< 0.005	< 0.005
P05-01-02	02-Oct-07	< 0.0001	< 0.025	334	< 0.0025	0.033	< 0.1	< 0.005	432	< 0.000085	< 0.0015	1246	2280	< 0.005	< 0.005
P05-01-03	02-Aug-06	< 0.0001	< 0.025	287	< 0.0025	0.038	< 0.1	< 0.005	406	< 0.000085	< 0.0015	1278	2060	< 0.005	< 0.005
P05-01-03	19-Sep-06	< 0.0001	< 0.025	290	< 0.0025	0.038	< 0.1	< 0.005	350	< 0.000085	< 0.0015	1578	2020	< 0.005	< 0.005
P05-01-03	02-Oct-07	< 0.0001	< 0.025	331	< 0.0025	0.031	< 0.1	< 0.005	423	< 0.000085	< 0.0015	2220	2240	< 0.005	< 0.005
P05-01-04	02-Aug-06	< 0.0001	< 0.025	288	< 0.0025	0.027	< 0.1	< 0.005	408	< 0.000085	< 0.0015	1621	2100	< 0.005	< 0.005
P05-01-04	19-Sep-06	< 0.0001	< 0.025	298	< 0.0025	0.028	< 0.1	< 0.005	361	< 0.000085	< 0.0015	1552	2040	< 0.005	< 0.005
P05-01-04	02-Oct-07	< 0.0001	< 0.025	332	< 0.0025	0.022	< 0.1	< 0.005	426	< 0.000085	< 0.0015	2282	2300	< 0.005	< 0.005
P05-01-05	02-Aug-06	< 0.0001	< 0.025	242	< 0.0025	0.028	< 0.1	< 0.005	342	< 0.000085	0.0062	1714	1830	< 0.005	< 0.005
P05-01-05	19-Sep-06	< 0.0001	< 0.025	262	< 0.0025	0.03	< 0.1	< 0.005	335	< 0.000085	0.0063	1398	1840	< 0.005	< 0.005
P05-01-05	02-Oct-07	< 0.0001	< 0.025	278	< 0.0025	0.023	< 0.1	< 0.005	373	0.000126	0.0072	2000	2040	< 0.005	< 0.005
P05-01-06	14-Jun-06	< 0.0001	< 0.025	280	< 0.0025	0.035	< 0.1	< 0.005	306	0.00132	0.0096	1766	1780	< 0.005	< 0.005
P05-01-06	02-Aug-06	< 0.0001	< 0.025	247	< 0.0025	0.031	< 0.1	< 0.005	347	< 0.000085	0.0073	1176	1830	< 0.005	< 0.005
P05-01-06	19-Sep-06	< 0.0001	< 0.025	245	< 0.0025	0.032	< 0.1	< 0.005	318	< 0.000085	0.007	1413	1840	< 0.005	< 0.005
P05-01-06	29-May-07	< 0.0001	< 0.025	273	0.0027	0.02	< 0.1	< 0.005	329	< 0.000085	0.0104	2150	1960	< 0.005	< 0.005
P05-01-06	02-Oct-07	< 0.0001	< 0.025	282	< 0.0025	0.023	< 0.1	< 0.005	366	< 0.000085	0.0078	1989	2030	< 0.005	< 0.005
P05-02	22-Sep-06	< 0.0001	< 0.025	304	0.0088	0.057	< 0.1	< 0.005	347	0.000116	0.0086	2030	2040	< 0.005	< 0.005
P05-02	04-Oct-07	< 0.0001	< 0.025	343	0.008	0.048	< 0.1	< 0.005	423	0.000094	0.0085	2002	2120	< 0.005	< 0.005
	Total # samples	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	MEAN	0.00006	0.0200	295.4	0.0085	0.035	0.054	0.003	370.72	0.00011	0.00398	1804.4	2028.0	0.002	0.002
	Median	0.00005	0.0125	290	0.00125	0.033	0.05	0.0025	361	0.0000425	0.0027	1969	2030	0.0025	0.0025
	STD	0.00002	0.0353	29.3	0.0121	0.0095	0.020	0.0010	41.2	0.000254	0.00343	339.0	142.2	0.00051	0.0003
	MINIMUM	< 0.0001	< 0.02	242	< 0.0025	0.02	< 0.1	< 0.005	305	< 0.000085	< 0.0015	1176	1780	< 0.001	< 0.002
	MAXIMUM	< 0.00025	0.189	343	0.0318	< 0.06	< 0.3	< 0.015	434	0.00132	0.0104	2282	2300	< 0.005	< 0.005
	5th Percentile	5E-05	0.0125	245.4	0.00125	0.0222	0.05	0.0025	308.40	4.25E-05	0.00075	1252.4	1830.0	0.00125	0.0025
	25th Percentile	5E-05	0.0125	280	0.00125	0.03	0.05	0.0025	347	4.25E-05	0.00075	1572	1960	0.0025	0.0025
	75th Percentile	5E-05	0.0125	316	0.0088	0.041	0.050	0.0025	409	5E-05	0.0072	2065	2100	0.0025	0.0025
	95th Percentile	0.00011	0.0225	336.4	0.031	0.050	0.050	0.0025	430.80	0.00013	0.00940	2212	2274	0.002	0.002
<b>Toe of Intermediate Dam Non-Impacted</b>															
P01-04B	21-Jul-05	0.00044	< 0.02	743	< 0.002	0.505	< 0.1	< 0.005	152	< 0.0001	< 0.001	1082	1280	< 0.001	< 0.002
P01-04B	10-Sep-05	0.00036	< 0.02	746	< 0.002	0.475	< 0.1	< 0.005	114	< 0.0001	< 0.001	1225	1290	< 0.001	< 0.002
P01-04B	21-Sep-06	0.00027	< 0.02	643	< 0.002	0.425	< 0.1	< 0.005	118	< 0.0001	< 0.001	1346	1090	< 0.001	< 0.002

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
	MINIMUM	< 0.03	266	< 0.00002	< 2	0.0056	21.1	0.137	< 0.001	9.7	< 0.001	< 0.0005	6.24	5.83	< 0.0005
	MAXIMUM	7.2	954	< 0.0002	8.3	0.289	79.9	10.3	< 0.03	142	< 0.05	< 0.05	8.27	8.28	< 0.2
	5th Percentile	0.0150	324.6	1E-05	1.55	0.005	24.40	0.333	0.001	11.00	0.001	0.0005	6.47	7.49	0.00025
	25th Percentile	0.030	585	1E-05	3.08	0.012	34.60	0.943	0.001	28.70	0.0025	0.0005	6.97	7.76	0.0005
	75th Percentile	0.7440	693.5	1E-04	4.20	0.025	50.50	7.30	0.0025	41.00	0.011	0.00125	7.35	8.01	0.00125
	95th Percentile	6.78	901	1E-04	4.90	0.053	57.7	9.04	0.005	50.90	0.0140	0.0025	8.23	8.14	0.0025
<b>Toe of Cross Valley Dam</b>															
<b>Moderately Impacted</b>															
P01-11	10-May-05	24.7	1170	< 0.0002		< 0.15	66.9	13.4	< 0.002	46.6	< 0.01	< 0.002		7.97	< 0.001
P01-11	09-Sep-05	22.6	1110	< 0.0002		< 0.05	60.1	12.3	< 0.005	47.8	< 0.025	< 0.005	7.1	7.52	< 0.0025
P01-11	09-Jun-06	22.5		< 0.00002	6.1	< 0.025	61.9	14.7	< 0.005	48.9	< 0.005	< 0.0025	7.15	7.8	< 0.0025
P01-11	21-Sep-06	22.2		< 0.0002		< 0.05	57.8	15.5	< 0.005	44.6	< 0.025	< 0.005	6.56	7.69	< 0.0025
P01-11	30-May-07	27.3		< 0.00002	6.3	< 0.025	78.9	17.4	< 0.005	45.7	0.006	< 0.0025	7.08	7.83	< 0.0025
P01-11	04-Oct-07	24.7		< 0.00002	6.7	< 0.025	74.9	15.8	< 0.005	42.8	0.0053	< 0.0025	7.37	7.24	< 0.0025
P05-01-02	02-Aug-06	14.2		< 0.00002	8	0.026	76.2	15.6	< 0.005	48.1	< 0.005	< 0.0025	6.24	7.76	< 0.0025
P05-01-02	19-Sep-06	14.6		< 0.00002	6.3	0.027	72.4	17.4	< 0.005	52.8	< 0.005	< 0.0025	6.77	7.89	< 0.0025
P05-01-02	02-Oct-07	13.8		< 0.00002	6.2	0.026	77.1	18.6	< 0.005	41.8	< 0.005	< 0.0025	7	7.44	< 0.0025
P05-01-03	02-Aug-06	16.4		< 0.00002	8.1	0.026	75	14.1	< 0.005	46	< 0.005	< 0.0025	6.79	7.81	< 0.0025
P05-01-03	19-Sep-06	15.6		< 0.00002	6.1	0.027	69.2	15.8	< 0.005	48.5	< 0.005	< 0.0025	6.72	7.88	< 0.0025
P05-01-03	02-Oct-07	15.1		< 0.00002	6.4	< 0.025	76	17	< 0.005	40.6	< 0.005	< 0.0025	7.09	7.52	< 0.0025
P05-01-04	02-Aug-06	20		< 0.00002	7.7	< 0.025	76.5	16.1	< 0.005	45.7	< 0.005	< 0.0025	6.74	7.87	< 0.0025
P05-01-04	19-Sep-06	20.2		< 0.00002	6	< 0.025	72.3	17.7	< 0.005	50	< 0.005	< 0.0025	6.76	7.84	< 0.0025
P05-01-04	02-Oct-07	18.8		< 0.00002	6.2	< 0.025	77.3	19.4	< 0.005	42.3	< 0.005	< 0.0025	7	7.54	< 0.0025
P05-01-05	02-Aug-06	4.83		< 0.00002	7.2	< 0.025	68	14.1	< 0.005	37.8	0.0057	< 0.0025	6.83	7.85	< 0.0025
P05-01-05	19-Sep-06	5.26		< 0.00002	5.9	< 0.025	72.2	15.7	< 0.005	41	0.0051	< 0.0025	6.74	7.89	< 0.0025
P05-01-05	02-Oct-07	4.6		< 0.00002	6	< 0.025	70.7	17	< 0.005	33.5	0.0063	< 0.0025	6.92	7.59	< 0.0025
P05-01-06	14-Jun-06	< 0.03		< 0.00002	5.4	< 0.025	64.7	14	< 0.005	36	0.0146	< 0.0025	6.55	7.72	< 0.0025
P05-01-06	02-Aug-06	3.91		< 0.00002	7.1	< 0.025	69.6	14.6	< 0.005	37.3	0.0058	< 0.0025	6.81	7.84	< 0.0025
P05-01-06	19-Sep-06	4.21		< 0.00002	5.8	< 0.025	68.3	16.6	< 0.005	40.2	0.0062	< 0.0025	6.73	7.89	< 0.0025
P05-01-06	29-May-07	3.8		< 0.00002	5.7	< 0.025	68.4	17.5	< 0.005	34.7	0.0095	< 0.0025	6.88	7.79	< 0.0025
P05-01-06	02-Oct-07	4.07		< 0.00002	5.8	< 0.025	71.5	17.5	< 0.005	33.4	0.0068	< 0.0025	6.89	7.59	< 0.0025
P05-02	22-Sep-06	4.64		< 0.00002	5.9	< 0.025	72.5	15.1	< 0.005	45.7	0.0099	< 0.0025	8.09	7.76	< 0.0025
P05-02	04-Oct-07	4.65		< 0.00002	7	< 0.025	74.2	14.1	< 0.005	45.9	0.0093	< 0.0025	7.4	7.25	< 0.0025
	Total # samples	25	2	25	22	25	25	25	25	25	25	25	24	25	25
	MEAN	13.307	1140.00	0.000021	6.45	0.019	70.90	15.880	0.0024	43.11	0.0058	0.0013	6.93	7.71	0.0012
	Median	14.6	1140	0.00001	6.20	0.0125	72.20	15.80	0.0025	44.60	0.005	0.00125	6.9	7.8	0.00125
	STD	8.501	42.4	2.98496E-05	0.76	0.0132	5.52	1.732	0.0003	5.37	0.0037	0.0004	0.36	0.20	0.0001
	MINIMUM	< 0.03	1110	< 0.00002	5.4	< 0.025	57.8	12.3	< 0.002	33.4	< 0.005	< 0.002	6.24	7.24	< 0.001
	MAXIMUM	27.3	1170	< 0.0002	8.1	< 0.15	78.9	19.4	< 0.005	52.8	< 0.025	< 0.005	8.09	7.97	< 0.0025
	5th Percentile	3.8220	1113.0	1E-05	5.70	0.0125	60.46	13.520	0.0025	33.74	0.0025	0.00125	6.55	7.29	0.00125
	25th Percentile	4.6	1125	1E-05	5.93	0.0125	68.30	14.6	0.0025	40.20	0.0025	0.00125	6.74	7.59	0.00125
	75th Percentile	20.2000	1155	1E-05	6.92	0.025	75.00	17.40	0.0025	46.60	0.0068	0.00125	7.08	7.85	0.00125
	95th Percentile	24.70	1167	1E-04	7.99	0.027	77.3	18.42	0.002	49.78	0.0125	0.0022	7.40	7.89	0.0012
<b>Toe of Intermediate Dam Non-Impacted</b>															
P01-04B	21-Jul-05	0.815	615	< 0.0002		0.17	57.3	0.27	< 0.002	76.5	< 0.01	< 0.002	6.48	7.46	< 0.001
P01-04B	10-Sep-05	0.721	481	< 0.0002		0.175	47.7	0.248	< 0.002	68.6	< 0.01	< 0.002	6.61	7.28	< 0.001
P01-04B	21-Sep-06	0.61		< 0.0002		0.146	42.1	0.223	< 0.002	71.4	< 0.01	< 0.002	6.95	7.49	< 0.001

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
	MINIMUM	< 0.001	< 0.0005	92.3	0.468	0.6	< 0.01	< 0.0002	< 0.001	< 0.002	< 0.005
	MAXIMUM	< 0.2	< 0.03	717	0.767	12	< 0.15	< 0.2	0.0101	< 0.09	0.034
	5th Percentile	0.0005	0.00025	123.00	0.475	2.29	0.005	1E-04	0.0014925	0.0025	0.0025
	25th Percentile	0.001	0.0005	347.0	0.50	3.87	0.005	0.0002	0.00229	0.015	0.0025
	75th Percentile	0.0025	0.00125	454	0.5390	5.60	0.025	0.0005	0.006515	0.015	0.008
	95th Percentile	0.0050	0.015	549.0	0.721	7.62	0.025	0.001	0.0072	0.030	0.0120
<b>Toe of Cross Valley Dam</b>											
<b>Moderately Impacted</b>											
P01-11	10-May-05	< 0.002		914		3.8	< 0.15	< 0.0004	0.00315	< 0.09	< 0.015
P01-11	09-Sep-05	< 0.005		904		5.37	< 0.05	< 0.001	0.0043	< 0.03	0.0074
P01-11	09-Jun-06	< 0.005	< 0.0025	941		4.7	< 0.01	< 0.001	0.0048	< 0.03	0.064
P01-11	21-Sep-06	< 0.005		983		6	< 0.05	< 0.001	0.0047	< 0.03	0.005
P01-11	30-May-07	< 0.005	< 0.0025	1090		3.8	< 0.01	< 0.001	0.0053	< 0.03	< 0.005
P01-11	04-Oct-07	< 0.005	< 0.0025	1110		4.8	< 0.01	< 0.001	0.0052	< 0.005	0.0092
P05-01-02	02-Aug-06	< 0.005	< 0.0025	1030		5.9	< 0.01	< 0.001	0.0018	< 0.03	0.0092
P05-01-02	19-Sep-06	< 0.005	< 0.0025	965		4.5	< 0.01	< 0.001	0.0017	< 0.03	0.033
P05-01-02	02-Oct-07	< 0.005	< 0.0025	1120		5.9	< 0.01	< 0.001	0.0016	< 0.005	0.0065
P05-01-03	02-Aug-06	< 0.005	< 0.0025	998		7	< 0.01	< 0.001	0.0018	< 0.03	0.008
P05-01-03	19-Sep-06	< 0.005	< 0.0025	925		4.7	< 0.01	< 0.001	0.0017	< 0.03	0.031
P05-01-03	02-Oct-07	< 0.005	< 0.0025	1100		4.2	< 0.01	< 0.001	0.0016	< 0.005	0.445
P05-01-04	02-Aug-06	< 0.005	< 0.0025	1010		7.6	< 0.01	< 0.001	0.0014	< 0.03	0.0104
P05-01-04	19-Sep-06	< 0.005	< 0.0025	979		4.8	< 0.01	< 0.001	0.0014	< 0.03	0.032
P05-01-04	02-Oct-07	< 0.005	< 0.0025	1130		4.1	< 0.01	< 0.001	0.0017	< 0.005	0.0088
P05-01-05	02-Aug-06	< 0.005	< 0.0025	854		4.9	< 0.01	< 0.001	0.0027	< 0.03	0.0067
P05-01-05	19-Sep-06	< 0.005	< 0.0025	831		4.4	< 0.01	< 0.001	0.0028	< 0.03	0.0242
P05-01-05	02-Oct-07	< 0.005	< 0.0025	959		4.1	< 0.01	< 0.001	0.0034	< 0.005	0.0082
P05-01-06	14-Jun-06	< 0.005	< 0.0025	884		10.8	< 0.01	< 0.001	0.0039	< 0.03	0.007
P05-01-06	02-Aug-06	< 0.005	< 0.0025	851		10.8	< 0.01	< 0.001	0.0029	< 0.03	0.0068
P05-01-06	19-Sep-06	< 0.005	< 0.0025	850		4.8	< 0.01	< 0.001	0.003	< 0.03	< 0.025
P05-01-06	29-May-07	< 0.005	< 0.0025	1000		4.9	< 0.01	< 0.001	0.0043	< 0.03	< 0.025
P05-01-06	02-Oct-07	< 0.005	< 0.0025	961		4.4	< 0.01	< 0.001	0.0036	< 0.005	0.0076
P05-02	22-Sep-06	< 0.005	< 0.0025	929		6.1	< 0.01	< 0.001	0.0047	< 0.03	0.039
P05-02	04-Oct-07	< 0.005	< 0.0025	1000		3.3	< 0.01	< 0.001	0.0044	< 0.005	0.0302
	Total # samples	25	22	25		25	25	25	25	25	25
	MEAN	0.0024	0.0013	972.72		5.43	0.009	0.0005	0.0031	0.013	0.033
	Median	0.0025	0.00125	965.0		4.8	0.005	0.0005	0.003	0.015	0.009
	STD	0.0003	0.0000	88.47		1.90	0.015	0.0001	0.00133	0.0088	0.0870
	MINIMUM	< 0.002	< 0.0025	831		3.3	< 0.01	< 0.0004	0.0014	< 0.005	< 0.005
	MAXIMUM	< 0.005	< 0.0025	1130		10.8	< 0.15	< 0.001	0.0053	< 0.09	0.445
	5th Percentile	0.0025	0.00125	850.20		3.80	0.005	0.0005	0.00144	0.0025	0.0053
	25th Percentile	0.0025	0.00125	914.0		4.40	0.005	0.0005	0.0017	0.0025	0.0074
	75th Percentile	0.0025	0.00125	1010		5.90	0.005	0.0005	0.0043	0.015	0.030
	95th Percentile	0.0025	0.00125	1118.0		10.16	0.025	0.0005	0.0051	0.015	0.0590
<b>Toe of Intermediate Dam Non-Impacted</b>											
P01-04B	21-Jul-05	< 0.002		31.8		6.4	< 0.05	< 0.0004	0.00044	< 0.03	< 0.005
P01-04B	10-Sep-05	< 0.002		26		3.99	< 0.05	< 0.0004	< 0.0004	< 0.03	< 0.005
P01-04B	21-Sep-06	< 0.002		34		3.4	< 0.05	< 0.0004	< 0.0004	< 0.03	< 0.005



**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
P01-04B	31-May-07	0.00036	< 0.025	606	< 0.0025	0.407	< 0.1	< 0.005	130	0.00009	< 0.0015	1020	1000	< 0.005	< 0.005
P01-04B	04-Oct-07	0.000358	< 0.01	582	< 0.001	0.383	< 0.1	< 0.002	126	0.000066	< 0.0006	971	1050	< 0.002	< 0.002
	Total # samples	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	MEAN	0.00036	0.0095	664	0.0010	0.439	0.050	0.002	128.00	0.00006	0.00051	1128.8	1142	0.001	0.001
	Median	0.00036	0.01	643	0.001	0.425	0.05	0.0025	126	0.00005	0.0005	1082	1090	0.0005	0.001
	STD	0.00006	0.0027	76.6	0.0003	0.0500	0.000	0.0007	14.8	0.000018	0.00016	154.4	134.4	0.00087	0.0007
	MINIMUM	0.00027	< 0.01	582	< 0.001	0.383	< 0.1	< 0.002	114	0.000066	< 0.0006	971	1000	< 0.001	< 0.002
	MAXIMUM	0.00044	< 0.025	746	< 0.0025	0.505	< 0.1	< 0.005	152	< 0.0001	< 0.0015	1346	1290	< 0.005	< 0.005
	5th Percentile	0.0003	0.006	586.8	0.0006	0.3878	0.05	0.0013	114.80	5E-05	0.00034	980.8	1010.0	0.0005	0.001
	25th Percentile	0.000358	0.01	606	0.001	0.41	0.05	0.0025	118	5E-05	0.0005	1020	1050	0.0005	0.001
	75th Percentile	0.00036	0.01	743	0.001	0.475	0.050	0.0025	130	6.6E-05	0.0005	1225	1280	0.001	0.001
	95th Percentile	0.00042	0.0120	745.4	0.001	0.499	0.050	0.0025	147.60	0.00009	0.00070	1322	1288	0.002	0.002
<b>Toe of Intermediate Dump</b>															
<b>Moderately Impacted</b>															
P96-6	05-May-05	< 0.0001	< 0.02	341	< 0.002	< 0.04	< 0.2	< 0.01	169	0.00022	< 0.001	1107		< 0.001	< 0.002
P96-6	05-Jun-06	< 0.0001	0.078	432	< 0.0025	0.025	< 0.1	< 0.005	179	0.000334	< 0.0015	366.7	1210	< 0.005	< 0.005
P96-6	18-Sep-06	< 0.00004	< 0.01	279	< 0.001	< 0.02	< 0.1	< 0.002	143	0.000085	< 0.0006	822	900	< 0.002	< 0.002
P96-6	28-May-07	< 0.00004	< 0.01	374	< 0.001	< 0.02	< 0.1	< 0.002	185	0.000327	< 0.0006	1145	1070	< 0.002	< 0.002
P96-6	02-Oct-07	< 0.00004	< 0.01	271	< 0.001	< 0.02	< 0.1	< 0.002	138	0.000096	< 0.0006	922	924	< 0.002	< 0.002
	Total # samples	5	5	5	5	5	5	5	5	5	5	5	4	5	5
	MEAN	0.00003	0.0206	339.4	0.0008	0.015	0.060	0.002	162.80	0.00021	0.00043	872.5	1026.0	0.001	0.001
	Median	0.00002	0.005	341	0.0005	0.01	0.05	0.001	169	0.00022	0.0003	922	997	0.001	0.001
	STD	0.00002	0.0322	67.3	0.0004	0.0071	0.022	0.0017	21.2	0.000120	0.00020	312.3	143.8	0.00076	0.0007
	MINIMUM	< 0.00004	< 0.01	271	< 0.001	< 0.02	< 0.1	< 0.002	138	0.000085	< 0.0006	366.7	900	< 0.001	< 0.002
	MAXIMUM	< 0.0001	0.078	432	< 0.0025	< 0.04	< 0.2	< 0.01	185	0.000334	< 0.0015	1145	1210	< 0.005	< 0.005
	5th Percentile	2E-05	0.005	272.6	0.0005	0.01	0.05	0.001	139.00	8.72E-05	0.0003	457.8	903.6	0.0006	0.001
	25th Percentile	2E-05	0.005	279	0.0005	0.01	0.05	0.001	143	9.6E-05	0.0003	822	918	0.001	0.001
	75th Percentile	5E-05	0.01	374	0.001	0.020	0.050	0.0025	179	0.000327	0.0005	1107	1105	0.001	0.001
	95th Percentile	0.00005	0.0644	420.4	0.001	0.024	0.090	0.0045	183.80	0.00033	0.00070	1137	1189	0.002	0.002
<b>Toe of Intermediate Dam</b>															
<b>Slightly Impacted</b>															
P01-04A	21-Jul-05	< 0.00025	< 0.05	295	< 0.005	0.032	< 0.1	< 0.005	218	< 0.00025	< 0.0025	1147	1340	< 0.0025	< 0.005
P01-04A	10-Sep-05	< 0.0001	< 0.02	300	< 0.002	0.033	< 0.1	< 0.005	263	< 0.0001	< 0.001	1320	1350	< 0.001	< 0.002
P01-04A	21-Sep-06	< 0.0001	0.052	299	< 0.002	0.029	< 0.1	< 0.005	217	< 0.0001	< 0.001	1283	1380	< 0.001	< 0.002
P01-04A	31-May-07	< 0.0001	< 0.025	270	< 0.0025	0.021	< 0.1	< 0.005	265	< 0.000085	< 0.0015	1448	1380	< 0.005	< 0.005
P01-04A	04-Oct-07	< 0.0001	< 0.025	317	< 0.0025	0.025	< 0.1	< 0.005	276	< 0.000085	< 0.0015	1374	1510	< 0.005	< 0.005
X25A-96	21-Jul-05	< 0.0001	< 0.02	229	< 0.002	0.044	< 0.1	< 0.005	144	0.00035	0.0076	730	950	< 0.001	0.0024
X25A-96	09-Sep-05	< 0.0001	< 0.02	250	< 0.002	0.04	< 0.1	< 0.005	146	0.00043	0.0084	962	970	< 0.001	0.0027
X25A-96	31-Oct-05	< 0.01	< 0.2	248	< 0.2	0.036	< 0.1	< 0.005	140	< 0.01	< 0.01	722	943	< 0.01	< 0.01
X25A-96	09-Jun-06	< 0.00004	< 0.01	246	< 0.001	0.038	< 0.1	< 0.002	137	0.000321	0.00507	593	977	< 0.002	0.0037
X25A-96	02-Aug-06	< 0.00004	< 0.01	250	< 0.001	0.039	< 0.1	< 0.002	145	0.000301	0.00463	983	983	< 0.002	0.0032
X25A-96	21-Sep-06	< 0.0001	< 0.02	258	< 0.002	0.042	< 0.1	< 0.005	145	0.00027	0.0046	1073	967	< 0.001	0.003
X25A-96	01-Nov-06	< 0.0001	< 0.025	271	< 0.0025	< 0.04	< 0.2	< 0.005	142	0.000226	0.0038	600	967	< 0.005	< 0.005
X25A-96	31-May-07	< 0.00004	< 0.01	254	0.0025	0.035	< 0.1	< 0.002	160	0.000176	0.00265	961	927	< 0.002	< 0.002
X25A-96	01-Aug-07	< 0.00004	< 0.01	263	< 0.001	0.026	< 0.1	< 0.002	149	0.000148	0.00294	960	1020	< 0.002	< 0.002
X25A-96	04-Oct-07	< 0.00004	< 0.01	269	< 0.001	0.037	< 0.1	< 0.002	159	0.00019	0.00373	980	1000	< 0.002	0.003
X25A-96	06-Nov-07	< 0.0001	< 0.025	269	< 0.0025	0.04	< 0.1	< 0.005	152	0.000172	0.0036	1055	1040	< 0.005	< 0.005
X25B-96	21-Jul-05	< 0.0001	< 0.02	247	< 0.002	0.027	< 0.1	< 0.005	170	< 0.0001	< 0.001	966	1110	< 0.001	< 0.002

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
P01-04B	31-May-07	0.583		< 0.00002	2.8	0.142	45.8	0.229	< 0.005	72.3	< 0.005	< 0.0025	6.61	7.73	< 0.0025
P01-04B	04-Oct-07	0.505		< 0.00002	3.2	0.144	39.5	0.208	< 0.002	67.4	< 0.002	< 0.001	7.09	7.2	< 0.001
	Total # samples	5	2	5	2	5	5	5	5	5	5	5	5	5	5
	MEAN	0.647	548.00	0.000064	3	0.1554	46.48	0.2356	0.0013	71.24	0.0037	0.0010	6.75	7.43	0.0007
	Median	0.61	548	0.0001	3.00	0.146	45.8	0.229	0.001	71.4	0.005	0.001	6.6	7.5	0.0005
	STD	0.122	94.8	4.9295E-05	0.28	0.0158	6.84	0.024	0.0007	3.55	0.0019	0.0003	0.26	0.21	0.0003
	MINIMUM	0.505	481	< 0.00002	2.8	0.142	39.5	0.208	< 0.002	67.4	< 0.002	< 0.001	6.48	7.2	< 0.001
	MAXIMUM	0.815	615	< 0.0002	3.2	0.175	57.3	0.27	< 0.005	76.5	< 0.01	< 0.0025	7.09	7.73	< 0.0025
	5th Percentile	0.5206	487.7	1E-05	2.82	0.14240	40.02	0.211	0.001	67.64	0.0013	0.0006	6.51	7.22	0.0005
	25th Percentile	0.583	514.5	1E-05	2.90	0.144	42.10	0.223	0.001	68.60	0.0025	0.001	6.61	7.28	0.0005
	75th Percentile	0.7210	581.5	1E-04	3.10	0.170	47.70	0.25	0.001	72.30	0.005	0.001	6.95	7.49	0.0005
	95th Percentile	0.80	608	1E-04	3.18	0.174	55.4	0.27	0.0022	75.66	0.0050	0.0012	7.06	7.68	0.0011
<b>Toe of Intermediate Dump</b>															
<b>Moderately Impacted</b>															
P96-6	05-May-05	0.068	640	< 0.0002		< 0.1	53.2	0.068	< 0.002	9.2	0.018	< 0.002	5.24	6.71	< 0.001
P96-6	05-Jun-06	0.068		< 0.00002	3.7	0.043	61.1	0.092	< 0.005	8.2	0.0214	< 0.0025	6.78	6.72	< 0.0025
P96-6	18-Sep-06	0.044		< 0.00002	3	0.029	43.6	0.0156	< 0.002	4.7	0.0077	< 0.001	6.2	7.24	< 0.001
P96-6	28-May-07	< 0.03		< 0.00002	3.7	0.04	59.3	0.0326	< 0.002	6.9	0.0225	< 0.001	6.22	6.9	< 0.001
P96-6	02-Oct-07	< 0.03		< 0.00002	3.4	0.03	44.4	0.0022	< 0.002	5.1	0.0078	< 0.001	6.68	6.85	< 0.001
	Total # samples	5	1	5	4	5	5	5	5	5	5	5	5	5	5
	MEAN	0.042	640.00	0.000028	3.45	0.038	52.32	0.042	0.0013	6.82	0.0155	0.0008	6.22	6.88	0.0007
	Median	0.044	640	0.00001	3.55	0.04	53.20	0.03	0.001	6.90	0.018	0.0005	6.2	6.9	0.0005
	STD	0.027		4.02492E-05	0.33	0.0089	8.14	0.037	0.0007	1.94	0.0072	0.0004	0.61	0.22	0.0003
	MINIMUM	< 0.03	640	< 0.00002	3	0.029	43.6	0.0022	< 0.002	4.7	0.0077	< 0.001	5.24	6.71	< 0.001
	MAXIMUM	0.068	640	< 0.0002	3.7	< 0.1	61.1	0.092	< 0.005	9.2	0.0225	< 0.0025	6.78	7.24	< 0.0025
	5th Percentile	0.015	640.0	1E-05	3.06	0.02920	43.76	0.005	0.001	4.78	0.00772	0.0005	5.43	6.71	0.0005
	25th Percentile	0.015	640	1E-05	3.30	0.030	44.40	0.016	0.001	5.10	0.0078	0.0005	6.20	6.72	0.0005
	75th Percentile	0.0680	640	1E-05	3.70	0.043	59.30	0.07	0.001	8.20	0.0214	0.001	6.68	6.90	0.0005
	95th Percentile	0.07	640	8.2E-05	3.70	0.049	60.7	0.09	0.002	9.00	0.0223	0.0012	6.76	7.17	0.0011
<b>Toe of Intermediate Dam</b>															
<b>Slightly Impacted</b>															
P01-04A	21-Jul-05	4.81	695	< 0.0002		< 0.05	36.7	1.15	< 0.005	46.3	< 0.025	< 0.005	7.23	7.74	< 0.0025
P01-04A	10-Sep-05	5.29	808	< 0.0002		< 0.05	36.9	1.39	< 0.002	49.6	< 0.01	< 0.002	7.29	7.7	< 0.001
P01-04A	21-Sep-06	4.95		< 0.0002		< 0.05	34.3	1.35	< 0.002	43.2	< 0.01	< 0.002	7.21	7.86	< 0.001
P01-04A	31-May-07	5.3		< 0.00002	4	< 0.025	41.9	1.84	< 0.005	46.3	< 0.005	< 0.0025	7.17	7.98	< 0.0025
P01-04A	04-Oct-07	4.64		< 0.00002	4.4	< 0.025	38.8	1.83	< 0.005	43.9	< 0.005	< 0.0025	7.41	7.53	< 0.0025
X25A-96	21-Jul-05	< 0.03	508	< 0.0002		< 0.05	35.7	5.44	< 0.002	30	0.011	< 0.002	7.1	7.88	< 0.001
X25A-96	09-Sep-05	0.038	503	< 0.0002		< 0.05	33.4	5.58	< 0.002	27.2	0.012	< 0.002	7.15	7.67	< 0.001
X25A-96	31-Oct-05	< 0.03	481		4	< 0.01	31.6	4.33	< 0.03	25.2	< 0.05	< 0.05	6.6	7.73	< 0.2
X25A-96	09-Jun-06	0.049		< 0.00002	2.9	< 0.01	31.8	5.43	< 0.002	24.2	0.0084	< 0.001	7.2	7.92	< 0.001
X25A-96	02-Aug-06	< 0.03		< 0.00002	3.4	< 0.01	34.5	5.26	< 0.002	25.1	0.0082	< 0.001	7.33	7.91	< 0.001
X25A-96	21-Sep-06	< 0.03		< 0.0002		< 0.05	34.5	4.33	< 0.002	27.1	< 0.01	< 0.002	7.75	7.86	< 0.001
X25A-96	01-Nov-06	< 0.06		< 0.00002	4.2	< 0.025	33.8	3.89	< 0.005	26.5	0.0071	< 0.0025	7.32	7.6	< 0.0025
X25A-96	31-May-07	< 0.03		< 0.00002	4.3	< 0.01	36.7	6.09	0.0021	26.2	0.0055	< 0.001	7.13	8.1	< 0.001
X25A-96	01-Aug-07	< 0.03	512	< 0.00002	3.5	< 0.01	34.2	5.46	< 0.002	23.9	0.0043	< 0.001	7.21	7.98	< 0.001
X25A-96	04-Oct-07	< 0.03		< 0.00002	4.1	< 0.01	34	5.25	< 0.002	25.6	0.0052	< 0.001	7.6	7.59	< 0.001
X25A-96	06-Nov-07	< 0.03	542	< 0.00005	4.3	< 0.025	39.2	5.49	< 0.005	27.4	0.0053	< 0.0025	7.76	7.93	< 0.0025
X25B-96	21-Jul-05	0.672	547	< 0.0002		< 0.05	29.8	0.182	< 0.002	53.5	< 0.01	< 0.002	7.44	8.02	< 0.001

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
P01-04B	31-May-07	< 0.005	< 0.0025	34.3		3.3	< 0.01	< 0.001	< 0.001	< 0.03	< 0.005
P01-04B	04-Oct-07	< 0.002	< 0.001	31.2		2.4	< 0.01	< 0.0004	< 0.0004	< 0.002	0.0065
	Total # samples	5	2	5		5	5	5	5	5	5
	MEAN	0.0013	0.0009	31.46		3.90	0.017	0.0003	0.0003	0.012	0.003
	Median	0.001	0.000875	31.8		3.4	0.025	0.0002	0.0002	0.015	0.0025
	STD	0.0007	0.0005	3.34		1.51	0.011	0.0001	0.00015	0.0063	0.0018
	MINIMUM	< 0.002	< 0.001	26		2.4	< 0.01	< 0.0004	< 0.0004	< 0.002	< 0.005
	MAXIMUM	< 0.005	< 0.0025	34.3		6.4	< 0.05	< 0.001	< 0.001	< 0.03	0.0065
	5th Percentile	0.001	0.0005375	27.04		2.58	0.005	0.0002	0.0002	0.0038	0.0025
	25th Percentile	0.001	0.0006875	31.2		3.30	0.005	0.0002	0.0002	0.015	0.0025
	75th Percentile	0.001	0.0010625	34		3.99	0.025	0.0002	0.00044	0.015	0.0025
	95th Percentile	0.0022	0.0012125	34.2		5.92	0.025	0.00044	0.000488	0.015	0.0057
<b>Toe of Intermediate Dump</b>											
<b>Moderately Impacted</b>											
P96-6	05-May-05	< 0.002		286		2	< 0.1	< 0.0004	0.012	< 0.06	0.727
P96-6	05-Jun-06	< 0.005	< 0.0025	298		1.5	< 0.01	< 0.001	0.0185	< 0.03	0.84
P96-6	18-Sep-06	0.0038	< 0.001	268		2.7	< 0.01	< 0.0004	0.0171	< 0.03	0.219
P96-6	28-May-07	< 0.002	< 0.001	264		4.1	< 0.01	< 0.0004	0.0173	< 0.03	0.808
P96-6	02-Oct-07	0.0033	< 0.001	268		2	< 0.01	< 0.0004	0.0162	< 0.002	0.239
	Total # samples	5	4	5		5	5	5	5	5	5
	MEAN	0.0023	0.0007	276.80		2.46	0.014	0.0003	0.0162	0.015	0.567
	Median	0.0025	0.0005	268.0		2.0	0.005	0.0002	0.0171	0.015	0.727
	STD	0.0013	0.0004	14.60		1.01	0.020	0.0001	0.00250	0.0103	0.3110
	MINIMUM	< 0.002	< 0.001	264		1.5	< 0.01	< 0.0004	0.012	< 0.002	0.219
	MAXIMUM	< 0.005	< 0.0025	298		4.1	< 0.1	< 0.001	0.0185	< 0.06	0.84
	5th Percentile	0.001	0.0005	264.80		1.60	0.005	0.0002	0.01284	0.0038	0.22
	25th Percentile	0.001	0.0005	268.0		2.00	0.005	0.0002	0.0162	0.015	0.239
	75th Percentile	0.0033	0.0006875	286		2.70	0.005	0.0002	0.0173	0.015	0.808
	95th Percentile	0.0037	0.0011375	295.6		3.82	0.041	0.00044	0.0183	0.027	0.8336
<b>Toe of Intermediate Dam</b>											
<b>Slightly Impacted</b>											
P01-04A	21-Jul-05	< 0.005		494		4.8	< 0.05	< 0.001	0.0033	< 0.03	< 0.005
P01-04A	10-Sep-05	< 0.002		463		3.66	< 0.05	< 0.0004	0.00324	< 0.03	0.0056
P01-04A	21-Sep-06	< 0.002		555		3.8	< 0.05	< 0.0004	0.00369	< 0.03	< 0.005
P01-04A	31-May-07	< 0.005	< 0.0025	613		3.1	< 0.01	< 0.001	0.0041	< 0.03	0.0053
P01-04A	04-Oct-07	< 0.005	< 0.0025	546		2.3	< 0.01	< 0.001	0.0038	< 0.005	0.0063
X25A-96	21-Jul-05	< 0.002		292		5	< 0.05	< 0.0004	0.00877	< 0.03	0.0067
X25A-96	09-Sep-05	< 0.002		295		4.26	< 0.05	< 0.0004	0.00866	< 0.03	0.0057
X25A-96	31-Oct-05	< 0.2	< 0.03	288	0.355	2.5	< 0.01	< 0.2		< 0.03	0.016
X25A-96	09-Jun-06	< 0.002	< 0.001	260		3.9	< 0.01	< 0.0004	0.00894	< 0.03	0.041
X25A-96	02-Aug-06	< 0.002	< 0.001	289		5.4	< 0.01	< 0.0004	0.00892	< 0.03	0.0091
X25A-96	21-Sep-06	< 0.002		326		3.3	< 0.05	< 0.0004	0.00885	< 0.03	0.0132
X25A-96	01-Nov-06	< 0.005	< 0.0025	296		0	< 0.02	< 0.001	0.0093	< 0.06	0.0078
X25A-96	31-May-07	< 0.002	< 0.001	285		3.4	< 0.01	< 0.0004	0.00883	< 0.03	0.0071
X25A-96	01-Aug-07	< 0.002	< 0.001	301		9.3	< 0.01	< 0.0004	0.00876	< 0.03	0.0064
X25A-96	04-Oct-07	< 0.002	< 0.001	293		2	< 0.01	< 0.0004	0.00918	< 0.002	0.0067
X25A-96	06-Nov-07	< 0.005	< 0.0025	334		0.5	< 0.01	< 0.001	0.0088	< 0.005	0.008
X25B-96	21-Jul-05	< 0.002		347		5.8	< 0.05	< 0.0004	0.00508	< 0.03	< 0.005

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
X25B-96	09-Sep-05	< 0.0001	< 0.02	267	< 0.002	0.025	< 0.1	< 0.005	170	< 0.0001	< 0.001	1107	1100	< 0.001	< 0.002
X25B-96	31-Oct-05	< 0.01	< 0.2	272	< 0.2	0.025	< 0.1	< 0.005	170	< 0.01	< 0.01	317	1110	< 0.01	< 0.01
X25B-96	09-Jun-06	< 0.00004	< 0.01	269	< 0.001	0.027	< 0.1	< 0.002	158	0.000035	< 0.0006	1110	1080	< 0.002	< 0.002
X25B-96	02-Aug-06	< 0.00004	< 0.01	257	< 0.001	0.027	< 0.1	< 0.002	168	< 0.000034	< 0.0006	1080	1110	< 0.002	< 0.002
X25B-96	21-Sep-06	< 0.0001	< 0.02	269	< 0.002	0.027	< 0.1	< 0.005	162	< 0.0001	< 0.001	895	1090	< 0.001	< 0.002
X25B-96	01-Nov-06	< 0.0001	< 0.025	278	< 0.0025	< 0.04	< 0.2	< 0.005	169	< 0.000085	< 0.0015	910	1080	< 0.005	< 0.005
X25B-96	31-May-07	< 0.0001	< 0.025	270	< 0.0025	0.025	< 0.1	< 0.005	183	< 0.000085	< 0.0015	1075	1030	< 0.005	< 0.005
X25B-96	01-Aug-07	< 0.00004	< 0.01	274	< 0.001	< 0.02	< 0.1	< 0.002	172	< 0.000034	< 0.0006	1118	1140	< 0.002	< 0.002
X25B-96	04-Oct-07	< 0.00004	< 0.01	280	< 0.001	0.024	< 0.1	< 0.002	184	0.000045	< 0.0006	1072	1120	< 0.002	< 0.002
X25B-96	06-Nov-07	< 0.00004	< 0.01	274	0.001	0.024	< 0.1	< 0.002	177	< 0.000034	< 0.0006	1104	1140	< 0.002	< 0.002
	Total # samples	27	27	27	27	27	27	27	27	27	27	27	27	27	27
	MEAN	0.00041	0.0175	268.3	0.0084	0.030	0.054	0.002	175.59	0.00049	0.00242	998.0	1104.2	0.001	0.002
	Median	0.00005	0.01	269	0.001	0.03	0.05	0.0025	168.0	0.00005	0.00075	1055	1080	0.001	0.0025
	STD	0.00132	0.0255	19.0	0.0264	0.0081	0.013	0.0007	39.0	0.001305	0.00241	247.0	156.0	0.00126	0.0012
	MINIMUM	< 0.00004	< 0.01	229	< 0.001	< 0.02	< 0.1	< 0.002	137	< 0.000034	< 0.0006	317	927	< 0.001	< 0.002
	MAXIMUM	< 0.01	< 0.2	317	< 0.2	0.044	< 0.2	< 0.005	276	< 0.01	< 0.01	1448	1510	< 0.01	< 0.01
	5th Percentile	2E-05	0.005	246.3	0.0005	0.02	0.05	0.001	140.60	1.7E-05	0.0003	595.1	945.1	0.0005	0.001
	25th Percentile	2E-05	0.005	255.5	0.0005	0.03	0.05	0.001	147.5	4.25E-05	0.0005	935	980	0.0005	0.001
	75th Percentile	5E-05	0.0125	274	0.00125	0.036	0.050	0.0025	180	0.000248	0.0042	1108.5	1130	0.0025	0.0026
	95th Percentile	0.00354	0.0856	299.7	0.071	0.041	0.085	0.0025	264.40	0.00363	0.00684	1358	1380	0.004	0.005
<b>Toe of Intermediate Dam</b>															
<b>Moderately Impacted</b>															
P01-03	04-May-05	< 0.0005	< 0.1	315	< 0.01	< 0.02	< 0.1	< 0.005	516	0.00113	0.0587	2531	2340	< 0.005	< 0.01
P01-03	09-Sep-05	< 0.0005	< 0.1	324	< 0.01	< 0.02	< 0.1	< 0.005	473	0.00176	0.0518	2395	2420	< 0.005	< 0.01
P01-03	08-Jun-06	< 0.0002	< 0.05	351	< 0.005	< 0.02	< 0.1	< 0.01	445	0.00208	0.0583		2560	< 0.01	< 0.01
P01-03	21-Sep-06	< 0.00025	0.227	358	< 0.005	< 0.02	< 0.1	< 0.005	446	0.00167	0.0568	2680	2620	< 0.0025	< 0.005
P01-03	04-Oct-07	< 0.0002	< 0.05	385	< 0.005	< 0.02	< 0.1	< 0.01	558	0.00146	0.0793	2666	2900	< 0.01	< 0.01
X24D-96	04-May-05	< 0.0005	< 0.1	354	< 0.01	0.025	< 0.1	< 0.005	522	0.00257	0.0325	2709	2500	< 0.005	< 0.01
X24D-96	21-Jul-05	< 0.00025	< 0.05	318	< 0.005	0.023	< 0.1	< 0.005	450	0.00194	0.0282	1883	2700	< 0.0025	< 0.005
X24D-96	09-Sep-05	< 0.0005	< 0.1	358	< 0.01	0.021	< 0.1	< 0.005	566	0.0024	0.0331	2700	2670	< 0.005	< 0.01
X24D-96	31-Oct-05	< 0.01	< 0.2	366	< 0.2	0.021	< 0.1	< 0.005	488	< 0.01	0.031	802	2710	< 0.01	< 0.01
X24D-96	09-Jun-06	< 0.0002	< 0.05	399	< 0.005	0.024	< 0.1	< 0.01	487	0.00295	0.0414	2825	2710	< 0.01	< 0.01
X24D-96	02-Aug-06	< 0.0002	< 0.05	356	< 0.005	0.023	< 0.1	< 0.01	513	0.00253	0.0407	2758	2780	< 0.01	< 0.01
X24D-96	21-Sep-06	< 0.00025	< 0.05	394	< 0.005	0.022	< 0.1	< 0.005	527	0.00268	0.042	2900	2800	< 0.0025	< 0.005
X24D-96	01-Nov-06	< 0.0004	< 0.1	396	< 0.01	< 0.04	< 0.2	< 0.02	555	0.00251	0.0469	170	2850	< 0.02	< 0.02
X24D-96	01-Aug-07	< 0.0002	< 0.05	395	< 0.005	< 0.02	< 0.1	< 0.01	583	0.00291	0.0562	3134	3230	< 0.01	< 0.01
X24D-96	04-Oct-07	< 0.0004	< 0.1	404	< 0.01	< 0.02	< 0.1	< 0.02	576	0.00292	0.0645	2888	3240	< 0.02	< 0.02
X24D-96	06-Nov-07	< 0.0002	< 0.05	406	< 0.005	< 0.02	< 0.1	< 0.01	593	0.00284	0.057	3203	3220	< 0.01	< 0.01
	Total # samples	16	16	16	16	16	16	16	16	16	16	15	16	16	16
	MEAN	0.00046	0.0517	367.4	0.0095	0.016	0.053	0.004	518.63	0.00246	0.04865	2416.3	2765.6	0.004	0.005
	Median	0.000125	0.0375	362	0.0025	0.015	0.05	0.00375	519	0.00252	0.04935	2700	2710	0.005	0.005
	STD	0.00121	0.0508	30.8	0.0242	0.0065	0.013	0.0025	50.1	0.000880	0.01410	850.3	274.2	0.00270	0.0021
	MINIMUM	< 0.0002	< 0.05	315	< 0.005	< 0.02	< 0.1	< 0.005	445	0.00113	0.0282	170	2340	< 0.0025	< 0.005
	MAXIMUM	< 0.01	0.227	406	< 0.2	< 0.04	< 0.2	< 0.02	593	< 0.01	0.0793	3203	3240	< 0.02	< 0.02
	5th Percentile	1E-04	0.025	317.3	0.0025	0.01	0.05	0.0025	445.75	0.0013775	0.0303	612.4	2400.0	0.00125	0.0025

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
X25B-96	09-Sep-05	0.62	542	< 0.0002		< 0.05	28.6	0.16	< 0.002	50.5	< 0.01	< 0.002	7.24	8.01	< 0.001
X25B-96	31-Oct-05	0.585	542		3.2	0.016	28.5	0.157	< 0.03	47.7	< 0.05	< 0.05	7.33	7.92	< 0.2
X25B-96	09-Jun-06	0.622		< 0.00002	2.5	< 0.01	28.4	0.169	< 0.002	49.4	< 0.002	< 0.001	7.5	8.03	< 0.001
X25B-96	02-Aug-06	0.68		< 0.00002	2.7	< 0.01	30.7	0.157	< 0.002	51.2	< 0.002	< 0.001	7.41	8.03	< 0.001
X25B-96	21-Sep-06	0.686		< 0.0002		< 0.05	28.2	0.163	< 0.002	48.4	< 0.01	< 0.002	7.35	8.02	< 0.001
X25B-96	01-Nov-06	0.622		< 0.00002	< 4	< 0.025	28.3	0.176	< 0.005	48.2	< 0.005	< 0.0025	7.56	7.9	< 0.0025
X25B-96	31-May-07	0.616		< 0.00002	3.4	< 0.025	30.4	0.201	< 0.005	46.4	< 0.005	< 0.0025	7.27	8.22	< 0.0025
X25B-96	01-Aug-07	0.643	549	< 0.00002	2.7	< 0.01	28.8	0.162	< 0.002	45	< 0.002	< 0.001	7.52	8.1	< 0.001
X25B-96	04-Oct-07	0.57		< 0.00002	3.2	< 0.01	27.8	0.167	< 0.002	44.9	< 0.002	< 0.001	7.97	7.82	< 0.001
X25B-96	06-Nov-07	0.685	565	< 0.00005	3.1	< 0.01	30	0.191	< 0.002	43.6	< 0.002	< 0.001	8.48	8.04	< 0.001
	Total # samples	27	12	25	18	27	27	27	27	27	27	27	27	27	27
	MEAN	1.194	566.17	0.000044	3.44	0.014	32.87	2.444	0.0025	38.76	0.0065	0.0027	7.39	7.89	0.0081
	Median	0.616	542	0.00001	3.40	0.0125	33.40	1.39	0.001	43.90	0.005	0.001	7.3	7.9	0.0005
	STD	1.873	93.0	4.33618E-05	0.71	0.0088	3.90	2.369	0.0037	10.89	0.0062	0.0064	0.34	0.17	0.0265
	MINIMUM	< 0.03	481	< 0.00002	2.5	< 0.01	27.8	0.157	< 0.002	23.9	< 0.002	< 0.001	6.6	7.53	< 0.001
	MAXIMUM	5.3	808	< 0.0002	4.4	< 0.05	41.9	6.09	< 0.03	53.5	< 0.05	< 0.05	8.48	8.22	< 0.2
	5th Percentile	0.0150	493.1	1E-05	2.43	0.005	28.23	0.158	0.001	24.47	0.0005	0.0005	7.11	7.59	0.0005
	25th Percentile	0.015	511	1E-05	2.95	0.005	29.30	0.172	0.001	26.80	0.0025	0.0005	7.21	7.78	0.0005
	75th Percentile	0.6825	553	1E-04	4.08	0.025	35.10	5.26	0.0025	47.95	0.00765	0.00125	7.51	8.02	0.00125
	95th Percentile	5.19	746	1E-04	4.32	0.025	39.1	5.55	0.011	50.99	0.0213	0.0183	7.91	8.10	0.0704
<b>Toe of Intermediate Dam</b>															
<b>Moderately Impacted</b>															
P01-03	04-May-05	0.27	1760	< 0.0002		< 0.05	113	39.1	< 0.01	47.7	0.091	< 0.01	6.63	7.69	< 0.005
P01-03	09-Sep-05	0.149	1600	< 0.0002		< 0.05	103	37.7	< 0.01	45.3	0.093	< 0.01	6.78	7.35	< 0.005
P01-03	08-Jun-06	0.277		< 0.00002	5.2	< 0.05	98.7	46.7	< 0.01	39.3	0.125	< 0.005		7.52	< 0.005
P01-03	21-Sep-06	0.236		< 0.0002		< 0.05	103	48.4	< 0.005	41.1	0.116	< 0.005	6.73	7.43	< 0.0025
P01-03	04-Oct-07	0.202		< 0.00002	6.8	< 0.05	117	53.6	< 0.01	41.2	0.143	< 0.005	6.82	6.9	< 0.005
X24D-96	04-May-05	0.034	1760	< 0.0002		< 0.05	110	35.7	< 0.01	50.6	0.157	< 0.01	6.9	7.71	< 0.005
X24D-96	21-Jul-05	< 0.03	1540	< 0.0002		< 0.05	102	37.9	< 0.005	47.7	0.136	< 0.005	6.7	7.45	< 0.0025
X24D-96	09-Sep-05	< 0.03	1890	< 0.0002		0.053	116	37.7	< 0.01	51	0.153	< 0.01	6.68	7.14	< 0.005
X24D-96	31-Oct-05	< 0.03	1650		7	0.048	105	40.2	< 0.03	45	0.133	< 0.05	6.53	7.28	< 0.2
X24D-96	09-Jun-06	< 0.03		< 0.00002	6.4	< 0.05	102	44.7	< 0.01	49.3	0.177	< 0.005	6.56	7.58	< 0.005
X24D-96	02-Aug-06	< 0.03		< 0.00002	6.7	< 0.05	121	48.5	< 0.01	49	0.177	< 0.005	6.42	7.44	< 0.005
X24D-96	21-Sep-06	< 0.03		< 0.0002		< 0.05	120	50.5	< 0.005	46.9	0.177	< 0.005	6.29	7.37	< 0.0025
X24D-96	01-Nov-06	< 0.06		< 0.00002	7.2	< 0.1	112	50	< 0.02	46.1	0.196	< 0.01	6.57	7.13	< 0.01
X24D-96	01-Aug-07	< 0.03	1990	< 0.00002	6.4	< 0.05	131	52.6	< 0.01	43.5	0.221	< 0.005	6.52	7.48	< 0.005
X24D-96	04-Oct-07	< 0.03		< 0.00002	7.7	< 0.1	134	51.6	< 0.02	47.1	0.243	< 0.01	7	7.06	< 0.01
X24D-96	06-Nov-07	< 0.03	2060	< 0.00005	7.7	< 0.05	140	53.2	< 0.01	47.9	0.213	< 0.005	6.87	7.38	< 0.005
	Total # samples	16	8	15	9	16	16	16	16	16	16	16	15	16	16
	MEAN	0.083	1781.25	0.000053	6.79	0.031	114.23	45.506	0.0058	46.17	0.1594	0.0048	6.67	7.37	0.0087
	Median	0.015	1760	0.000025	6.80	0.025	112.50	47.55	0.005	47.00	0.155	0.0025	6.7	7.4	0.0025
	STD	0.104	186.0	4.56618E-05	0.77	0.0113	12.46	6.438	0.0033	3.43	0.0445	0.0055	0.19	0.22	0.0244
	MINIMUM	< 0.03	1540	< 0.00002	5.2	0.048	98.7	35.7	< 0.005	39.3	0.091	< 0.005	6.29	6.9	< 0.0025
	MAXIMUM	0.277	2060	< 0.0002	7.7	< 0.1	140	53.6	< 0.03	51	0.243	< 0.05	7	7.71	< 0.2
	5th Percentile	0.015	1561.0	1E-05	5.68	0.025	101.17	37.200	0.0025	40.65	0.0925	0.0025	6.38	7.02	0.00125

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
X25B-96	09-Sep-05	< 0.002		335		4	< 0.05	< 0.0004	0.00522	< 0.03	< 0.005
X25B-96	31-Oct-05	< 0.2	< 0.03	331	0.394	1.9	< 0.01	< 0.2		< 0.03	< 0.005
X25B-96	09-Jun-06	< 0.002	< 0.001	274		4.6	< 0.01	< 0.0004	0.00531	< 0.03	0.03
X25B-96	02-Aug-06	< 0.002	< 0.001	359		4.2	< 0.01	< 0.0004	0.00494	< 0.03	0.0065
X25B-96	21-Sep-06	< 0.002		388		4.1	< 0.05	< 0.0004	0.00508	< 0.03	< 0.005
X25B-96	01-Nov-06	< 0.005	< 0.0025	363		0.6	< 0.02	< 0.001	0.0052	< 0.06	0.0063
X25B-96	31-May-07	< 0.005	< 0.0025	356		3.3	< 0.01	< 0.001	0.0056	< 0.03	0.0056
X25B-96	01-Aug-07	< 0.002	< 0.001	348		7.2	< 0.01	< 0.0004	0.00536	< 0.03	< 0.005
X25B-96	04-Oct-07	< 0.002	< 0.001	311		1.9	< 0.01	< 0.0004	0.00531	< 0.002	0.0064
X25B-96	06-Nov-07	< 0.002	< 0.001	378		1.4	< 0.01	< 0.0004	0.00545	< 0.002	< 0.005
	Total # samples	27	18	27	2	27	27	27	25	27	27
	MEAN	0.0087	0.0024	360.00	0.375	3.56	0.012	0.0077	0.0064	0.014	0.008
	Median	0.001	0.0005	334.0	0.3745	3.7	0.005	0.0002	0.00536	0.015	0.006
	STD	0.0263	0.0046	93.34	0.028	2.03	0.009	0.0266	0.00219	0.0071	0.0087
	MINIMUM	< 0.002	< 0.001	260	0.355	0	< 0.01	< 0.0004	0.00324	< 0.002	< 0.005
	MAXIMUM	< 0.2	< 0.03	613	0.394	9.3	< 0.05	< 0.2	0.0093	< 0.06	0.041
	5th Percentile	0.001	0.0005	277.30	0.357	0.53	0.005	0.0002	0.003378	0.001	0.0025
	25th Percentile	0.001	0.0005	294.0	0.36	2.15	0.005	0.0002	0.00508	0.015	0.0025
	75th Percentile	0.0025	0.00125	370.5	0.3842	4.43	0.025	0.0005	0.0088	0.015	0.007
	95th Percentile	0.0708	0.015	552.3	0.392	6.78	0.025	0.0702	0.0091	0.026	0.0258
<b>Toe of Intermediate Dam</b>											
<b>Moderately Impacted</b>											
P01-03	04-May-05	< 0.01		1360		3.2	< 0.05	< 0.002	0.0072	0.099	0.0188
P01-03	09-Sep-05	< 0.01		1230		4.36	< 0.05	< 0.002	0.0059	< 0.03	0.0172
P01-03	08-Jun-06	< 0.01	< 0.005	1090			< 0.01	< 0.002	0.0071	< 0.03	0.335
P01-03	21-Sep-06	< 0.005		1570		6.8	< 0.05	< 0.001	0.0071	0.047	0.0175
P01-03	04-Oct-07	< 0.01	< 0.005	1620		1.9	< 0.01	< 0.002	0.0075	< 0.01	0.0308
X24D-96	04-May-05	< 0.01		1450		4	< 0.05	< 0.002	0.005	0.071	0.0517
X24D-96	21-Jul-05	< 0.005		1490		7	< 0.05	< 0.001	0.0046	0.031	0.0488
X24D-96	09-Sep-05	< 0.01		1390		4.93	< 0.05	< 0.002	0.0047	< 0.03	0.0569
X24D-96	31-Oct-05	< 0.2	< 0.03	1340	1.29	2.2	< 0.01	< 0.2		< 0.03	0.0482
X24D-96	09-Jun-06	< 0.01	< 0.005	1410		5.5	< 0.01	< 0.002	0.0053	< 0.03	0.29
X24D-96	02-Aug-06	< 0.01	< 0.005	1650		3.9	< 0.01	< 0.002	0.0053	< 0.03	0.068
X24D-96	21-Sep-06	< 0.005		1710		6.6	< 0.05	< 0.001	0.005	0.06	0.0926
X24D-96	01-Nov-06	< 0.02	< 0.01	1700		0	< 0.02	< 0.004	0.0054	< 0.06	0.078
X24D-96	01-Aug-07	< 0.01	< 0.005	1840		10.9	< 0.01	< 0.002	0.0057	< 0.03	0.0697
X24D-96	04-Oct-07	< 0.02	< 0.01	1890		1.6	< 0.01	< 0.004	0.0058	< 0.02	0.0824
X24D-96	06-Nov-07	< 0.01	< 0.005	1930		1.4	0.011	< 0.002	0.0053	< 0.01	0.076
	Total # samples	16	9	16	1	15	16	16	15	16	16
	MEAN	0.0111	0.0044	1541.88	1.290	4.29	0.014	0.0072	0.0058	0.029	0.086
	Median	0.005	0.0025	1530.0	1.29	4.0	0.0105	0.001	0.0054	0.015	0.062
	STD	0.0238	0.0041	239.37		2.80	0.010	0.0247	0.00097	0.0269	0.0917
	MINIMUM	< 0.005	< 0.005	1090	1.29	0	< 0.01	< 0.001	0.0046	< 0.01	0.0172
	MAXIMUM	< 0.2	< 0.03	1930	1.29	10.9	< 0.05	< 0.2	0.0075	0.099	0.335
	5th Percentile	0.0025	0.0025	1195.00	1.29	0.98	0.005	0.0005	0.00467	0.005	0.017425

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
	25th Percentile	1E-04	0.025	353.25	0.0025	0.01	0.05	0.0025	483.5	0.001895	0.0388	2463	2605	0.0025	0.005
	75th Percentile	0.00025	0.050	395.25	0.005	0.022	0.050	0.005	560	0.0028575	0.057325	2856.5	2862.5	0.005	0.005
	95th Percentile	0.00144	0.1318	404.5	0.029	0.024	0.063	0.01	585.50	0.00346	0.06820	3155	3233	0.010	0.010
<b>Toe of Northeast Dump</b>															
<b>Slightly Impacted</b>															
BH12A	06-May-05	< 0.0001	< 0.02	200	< 0.002	0.044	< 0.1	< 0.005	160	0.00029	< 0.001	706	1290	< 0.001	< 0.004
BH12A	11-Sep-05	< 0.0001	< 0.02	183	< 0.002	0.033	< 0.1	< 0.005	111	0.00023	< 0.001	936	919	< 0.001	0.0022
BH12A	05-Jun-06	< 0.0002	0.174	230	< 0.005	0.084	< 0.1	< 0.01	408	0.00095	< 0.003	1236	2550	< 0.01	< 0.01
BH12A	18-Sep-06	< 0.00004	< 0.01	188	< 0.001	0.036	< 0.1	< 0.002	124	0.000198	< 0.0006	467.1	917	< 0.002	0.002
BH12A	02-Oct-07	< 0.00004	< 0.01	186	< 0.001	0.039	< 0.1	< 0.002	117	0.000289	< 0.0006	893	1020	< 0.002	0.0021
BH12B	06-May-05	< 0.0001	< 0.02	201	< 0.002	0.043	< 0.1	< 0.005	148	0.00027	< 0.001	1251	1250	< 0.001	< 0.004
BH12B	11-Sep-05	< 0.0001	< 0.02	180	< 0.002	0.031	< 0.1	< 0.005	105	0.00023	< 0.001	937	938	< 0.001	0.0023
BH12B	05-Jun-06	< 0.0002	0.201	230	< 0.005	0.079	< 0.1	< 0.01	391	0.00081	< 0.003	1065	2490	< 0.01	< 0.01
BH12B	18-Sep-06	< 0.00004	< 0.01	187	< 0.001	0.036	< 0.1	< 0.002	110	0.000222	< 0.0006	388.5	871	< 0.002	0.0021
BH12B	02-Oct-07	< 0.00004	0.018	195	< 0.001	0.028	< 0.1	< 0.002	138	0.000422	< 0.0006	1160	1190	< 0.002	< 0.002
BH13A	06-May-05	< 0.0001	< 0.02	124	< 0.002	0.025	< 0.1	< 0.005	136	< 0.0001	< 0.001	1055	1000	< 0.001	0.0069
BH13A	11-Sep-05	< 0.0001	< 0.02	188	< 0.002	0.039	< 0.1	< 0.005	100	< 0.0001	0.0012	857	756	< 0.001	< 0.002
BH13A	02-Oct-07	< 0.00002	0.0274	129	0.00055	0.032	< 0.1	< 0.001	45.3	0.000067	0.00071	436	528	< 0.001	0.0019
BH13B	11-Sep-05	< 0.0001	< 0.02	101	< 0.002	0.025	< 0.1	< 0.005	164	< 0.0001	< 0.001	1048	1030	< 0.001	0.005
BH13B	18-Sep-06	< 0.00004	0.012	93.5	< 0.001	0.042	< 0.1	< 0.002	211	0.00009	0.00124	1233	1330	< 0.002	0.0046
BH13B	02-Oct-07	< 0.0001	< 0.025	92	< 0.0025	0.037	< 0.1	< 0.005	215	0.000123	< 0.0015	1407	1460	< 0.005	0.0059
	Total # samples	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	MEAN	0.00004	0.0331	169.2	0.0010	0.041	0.050	0.002	167.71	0.00027	0.00069	942.2	1221.2	0.001	0.003
	Median	5E-05	0.01	186.5	0.001	0.04	0.05	0.0025	137.0	0.000226	0.0005	992.5	1025	0.00075	0.00215
	STD	0.00003	0.0607	45.9	0.0006	0.0169	0.000	0.0013	99.5	0.000262	0.00042	308.0	557.4	0.00151	0.0019
	MINIMUM	< 0.00002	< 0.01	92	0.00055	0.025	< 0.1	< 0.001	45.3	0.000067	< 0.0006	388.5	528	< 0.001	0.0019
	MAXIMUM	< 0.0002	0.201	230	< 0.005	0.084	< 0.1	< 0.01	408	0.00095	< 0.003	1407	2550	< 0.01	< 0.01
	5th Percentile	1.75E-05	0.005	93.13	0.0005	0.025	0.05	0.000875	86.32	5E-05	0.0003	424.1	699.0	0.0005	0.001
	25th Percentile	2E-05	0.01	127.75	0.0005	0.03	0.05	0.001	110.75	8.425E-05	0.00045	819.25	918.5	0.0005	0.002
	75th Percentile	5E-05	0.013875	196.25	0.001	0.042	0.050	0.0025	175.75	0.000	0.0008625	1178.25	1300	0.001	0.005
	95th Percentile	0.00010	0.1807	230.0	0.002	0.080	0.050	0.005	395.25	0.00084	0.00150	1290	2505	0.005	0.006
<b>Toe of Northeast Dump</b>															
<b>Moderately Impacted</b>															
BH14A	05-May-05	< 0.0005	< 0.1	341	< 0.01	< 0.04	< 0.2	< 0.01	612	< 0.0005	< 0.005	3214		< 0.005	< 0.01
BH14A	11-Sep-05	< 0.00025	< 0.05	358	< 0.005	0.023	< 0.1	< 0.005	600	< 0.00025	< 0.0025	3809	3740	< 0.0025	< 0.005
BH14A	18-Sep-06	< 0.0002	< 0.05	422	< 0.005	< 0.02	< 0.1	< 0.01	588	0.00031	< 0.003	3466	3730	< 0.01	< 0.01
BH14A	28-May-07	< 0.0001	< 0.025	356	< 0.0025	< 0.02	< 0.1	< 0.005	565	0.000105	< 0.0015	3490	2920	< 0.005	< 0.005
BH14A	02-Oct-07	0.00029	0.27	424	< 0.005	< 0.02	< 0.1	< 0.01	591	0.00029	< 0.003	2450	3790	< 0.01	< 0.01
BH14B	11-Sep-05	< 0.00025	< 0.05	312	< 0.005	< 0.02	< 0.1	< 0.005	506	< 0.00025	< 0.0025	3388	3220	< 0.0025	< 0.005
BH14B	18-Sep-06	< 0.0002	< 0.05	441	< 0.005	< 0.02	< 0.1	< 0.01	509	0.00018	< 0.003	3283	3510	< 0.01	< 0.01
BH14B	28-May-07	< 0.0001	< 0.025	352	< 0.0025	< 0.02	< 0.1	< 0.005	568	0.000136	< 0.0015	3430	2870	< 0.005	< 0.005
BH14B	02-Oct-07	< 0.0002	< 0.05	407	< 0.005	< 0.02	< 0.1	< 0.01	525	< 0.00017	< 0.003	2228	3400	< 0.01	< 0.01
	Total # samples	9	9	9	9	9	9	9	9	9	9	9	8	9	9
	MEAN	0.00013	0.0522	379.2	0.0025	0.013	0.056	0.004	562.67	0.00018	0.00139	3195.3	3397.5	0.003	0.004
	Median	0.0001	0.025	358	0.0025	0.01	0.05	0.005	568	0.000136	0.0015	3388	3455	0.0025	0.005
	STD	0.00008	0.0824	44.9	0.0011	0.0051	0.017	0.0013	40.0	0.000084	0.00052	515.8	365.0	0.00165	0.0013
	MINIMUM	< 0.0001	< 0.025	312	< 0.0025	< 0.02	< 0.1	< 0.005	506	0.000105	< 0.0015	2228	2870	< 0.0025	< 0.005
	MAXIMUM	< 0.0005	0.27	441	< 0.01	< 0.04	< 0.2	< 0.01	612	< 0.0005	< 0.005	3809	3790	< 0.01	< 0.01

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
	25th Percentile	0.015	1637.5	1E-05	6.40	0.025	103.00	38.8	0.005	44.63	0.131	0.0025	6.55	7.24	0.0025
	75th Percentile	0.1623	1915	1E-04	7.20	0.03075	120.25	50.78	0.005	48.18	0.1818	0.005	6.80	7.49	0.0025
	95th Percentile	0.27	2036	1E-04	7.70	0.051	135.5	53.30	0.011	50.70	0.2265	0.0100	6.93	7.70	0.0287
<b>Toe of Northeast Dump</b>															
<b>Slightly Impacted</b>															
BH12A	06-May-05	< 0.03	742	< 0.0002		< 0.05	83.1	< 0.01	< 0.002	6.6	0.011	< 0.002	6.47	7.94	< 0.001
BH12A	11-Sep-05	< 0.03	520	< 0.0002		< 0.05	58.8	< 0.01	< 0.002	5	< 0.01	< 0.002	7.02	7.82	< 0.001
BH12A	05-Jun-06	< 0.03		< 0.00002	4.7	< 0.05	154	< 0.003	< 0.01	10.9	0.028	< 0.005	7.82	7.35	< 0.005
BH12A	18-Sep-06	< 0.03		< 0.00002	2.4	0.018	61.7	0.0155	< 0.002	5.6	0.0077	< 0.001	7.51	7.62	< 0.001
BH12A	02-Oct-07	< 0.03		< 0.00002	3	0.018	70.8	0.00565	< 0.002	5.9	0.0097	< 0.001	7.64	7.57	< 0.001
BH12B	06-May-05	< 0.03	705	< 0.0002		< 0.05	81.4	< 0.01	< 0.002	6.7	0.011	< 0.002	6.2	7.96	< 0.001
BH12B	11-Sep-05	< 0.03	475	< 0.0002		< 0.05	52	< 0.01	< 0.002	4.4	< 0.01	< 0.002	6.93	7.73	< 0.001
BH12B	05-Jun-06	< 0.03		< 0.00002	4.8	< 0.05	156	< 0.003	< 0.01	10.9	0.031	< 0.005	7.64	7.5	< 0.005
BH12B	18-Sep-06	< 0.03		< 0.00002	2.4	0.017	56	0.00737	< 0.002	5.2	0.0088	< 0.001	7.27	7.67	< 0.001
BH12B	02-Oct-07	< 0.03		< 0.00002	3	0.02	76.4	0.00281	< 0.002	6.4	0.0095	< 0.001	7.61	7.8	< 0.001
BH13A	06-May-05	< 0.03	511	< 0.0002		< 0.05	41.8	< 0.01	0.0049	14.3	< 0.01	< 0.002	6.11	7.89	< 0.001
BH13A	11-Sep-05	2.24	362	< 0.0002		< 0.05	27.2	0.43	0.0054	37.2	< 0.01	< 0.002	7.59	7.98	< 0.001
BH13A	02-Oct-07	0.511		< 0.00002	2.7	0.008	15.3	0.107	0.0032	9.9	0.0011	0.0013	7.74	7.86	< 0.0005
BH13B	11-Sep-05	< 0.03	601	< 0.0002		< 0.05	46.3	< 0.01	0.004	4.9	< 0.01	< 0.002	7.26	7.47	< 0.001
BH13B	18-Sep-06	< 0.03		< 0.00002	2.8	0.011	70.9	0.0101	0.004	6.7	0.0088	< 0.001	7.28	7.45	< 0.001
BH13B	02-Oct-07	< 0.03		< 0.00002	3.3	< 0.025	70.3	0.0018	< 0.005	7.2	0.0113	< 0.0025	7.4	7.32	< 0.0025
	Total # samples	16	7	16	9	16	16	16	16	16	16	16	16	16	16
	MEAN	0.185	559.43	0.000049	3.23	0.021	70.13	0.038	0.0026	9.24	0.0102	0.0011	7.22	7.68	0.0008
	Median	0.015	520	1E-05	3.00	0.025	66.00	0.00	0.00175	6.65	0.009	0.001	7.3	7.7	0.0005
	STD	0.562	133.1	4.61113E-05	0.91	0.0059	38.03	0.108	0.0018	7.94	0.0081	0.0006	0.54	0.22	0.0007
	MINIMUM	< 0.03	362	< 0.00002	2.4	0.008	15.3	0.0018	< 0.002	4.4	0.0011	< 0.001	6.11	7.32	< 0.0005
	MAXIMUM	2.24	742	< 0.0002	4.8	< 0.05	156	0.43	< 0.01	37.2	0.031	< 0.005	7.82	7.98	< 0.005
	5th Percentile	0.0150	395.9	1E-05	2.40	0.01025	24.23	0.002	0.001	4.78	0.004025	0.0005	6.18	7.34	0.0004375
	25th Percentile	0.015	493	1E-05	2.70	0.01775	50.57	0.004	0.001	5.50	0.005	0.0005	7.00	7.49	0.0005
	75th Percentile	0.0150	653	1E-04	3.30	0.025	77.65	0.01	0.004225	10.15	0.011	0.0010625	7.62	7.87	0.0005
	95th Percentile	0.94	731	1E-04	4.76	0.025	154.5	0.19	0.005	20.03	0.0288	0.0025	7.76	7.97	0.0025
<b>Toe of Northeast Dump</b>															
<b>Moderately Impacted</b>															
BH14A	05-May-05	< 0.06	2320	< 0.0002		< 0.1	192	< 0.02	< 0.01	21.6	< 0.05	< 0.01	6.16	7.75	< 0.005
BH14A	11-Sep-05	< 0.03	2460	< 0.0002		0.069	233	< 0.01	< 0.005	15.4	< 0.025	0.0056	6.67	7.25	< 0.0025
BH14A	18-Sep-06	< 0.03		< 0.00002	3.5	0.056	234	< 0.003	< 0.01	19	< 0.01	< 0.005	6.96	7.58	< 0.005
BH14A	28-May-07	< 0.03		< 0.00002	3.1	0.051	211	< 0.0015	< 0.005	19.7	< 0.005	< 0.0025	7.04	7.78	< 0.0025
BH14A	02-Oct-07	< 0.03		< 0.00002	3.6	0.06	240	< 0.003	< 0.01	15.1	< 0.01	< 0.005	7.09	7.4	< 0.005
BH14B	11-Sep-05	< 0.03	2060	< 0.0002		0.057	194	< 0.01	< 0.005	12.5	< 0.025	< 0.005	6.2	7.46	< 0.0025
BH14B	18-Sep-06	< 0.03		< 0.00002	3.3	< 0.05	201	< 0.003	< 0.01	14.4	< 0.01	< 0.005	7.12	7.7	< 0.005
BH14B	28-May-07	< 0.03		< 0.00002	3.2	0.05	218	< 0.0015	< 0.005	15.3	< 0.005	< 0.0025	7.22	7.89	< 0.0025
BH14B	02-Oct-07	< 0.03		< 0.00002	4	0.051	214	< 0.003	< 0.01	14.7	< 0.01	< 0.005	7.06	7.43	< 0.005
	Total # samples	9	3	9	6	9	9	9	9	9	9	9	9	9	9
	MEAN	0.017	2280.00	0.000040	3.45	0.052	215.22	0.003	0.0039	16.41	0.0083	0.0028	6.84	7.58	0.0019
	Median	0.015	2320	0.00001	3.40	0.051	214.00	0.00	0.005	15.30	0.005	0.0025	7.0	7.6	0.0025
	STD	0.005	203.0	0.000045	0.33	0.0119	17.68	0.003	0.0013	2.97	0.0073	0.0015	0.40	0.21	0.0007
	MINIMUM	< 0.03	2060	< 0.00002	3.1	< 0.05	192	< 0.0015	< 0.005	12.5	< 0.005	< 0.0025	6.16	7.25	< 0.0025
	MAXIMUM	< 0.06	2460	< 0.0002	4	< 0.1	240	< 0.02	< 0.01	21.6	< 0.05	< 0.01	7.22	7.89	< 0.005



**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
	25th Percentile	0.005	0.0025	1382.5	1.29	2.05	0.005	0.001	0.00515	0.015	0.04385
	75th Percentile	0.005	0.005	1702.5	1.29	6.05	0.025	0.001	0.0065	0.035	0.079
	95th Percentile	0.0325	0.011	1900.0	1.29	8.17	0.025	0.0265	0.0073	0.078	0.3012
<b>Toe of Northeast Dump</b>											
<b>Slightly Impacted</b>											
BH12A	06-May-05	0.0027		475		1.3	< 0.05	< 0.0004	0.00643	< 0.03	0.171
BH12A	11-Sep-05	< 0.002		298		5.1	< 0.05	< 0.0004	0.00532	< 0.03	0.201
BH12A	05-Jun-06	< 0.01	< 0.005	135		3.3	< 0.01	< 0.002	0.0092	< 0.03	0.558
BH12A	18-Sep-06	< 0.002	< 0.001	307		3.6	< 0.01	< 0.0004	0.00451	< 0.03	0.15
BH12A	02-Oct-07	< 0.002	< 0.001	304		2.6	< 0.01	< 0.0004	0.00509	< 0.002	0.224
BH12B	06-May-05	0.0022		451		2.3	< 0.05	< 0.0004	0.00661	< 0.03	0.187
BH12B	11-Sep-05	< 0.002		315		4	< 0.05	< 0.0004	0.00515	< 0.03	0.167
BH12B	05-Jun-06	< 0.01	< 0.005	133		3.8	< 0.01	< 0.002	0.0092	< 0.03	0.683
BH12B	18-Sep-06	< 0.002	< 0.001	285		4.3	< 0.01	< 0.0004	0.00469	< 0.03	0.175
BH12B	02-Oct-07	< 0.002	< 0.001	379		2.6	< 0.01	< 0.0004	0.00549	< 0.002	0.305
BH13A	06-May-05	< 0.002		406		2	< 0.05	< 0.0004	0.0014	< 0.03	0.0091
BH13A	11-Sep-05	< 0.002		234		2.7	< 0.05	< 0.0004	0.00136	< 0.03	0.0191
BH13A	02-Oct-07	< 0.001	< 0.0005	142		1.6	< 0.01	< 0.0002	0.00051	< 0.001	0.0265
BH13B	11-Sep-05	0.0053		437		2.4	< 0.05	< 0.0004	0.00119	< 0.03	0.008
BH13B	18-Sep-06	0.0102	< 0.001	584		4.3	< 0.01	< 0.0004	0.00153	< 0.03	0.011
BH13B	02-Oct-07	0.013	< 0.0025	623		1.6	< 0.01	< 0.001	0.0018	< 0.005	0.0091
	Total # samples	16	9	16		16	16	16	16	16	16
	MEAN	0.0032	0.0010	344.25		2.97	0.014	0.0003	0.0043	0.012	0.181
	Median	0.001	0.0005	311.0		2.6	0.005	0.0002	0.00489	0.015	0.169
	STD	0.0037	0.0009	147.94		1.12	0.010	0.0003	0.00279	0.0062	0.1968
	MINIMUM	< 0.001	< 0.0005	133		1.3	< 0.01	< 0.0002	0.00051	< 0.001	0.008
	MAXIMUM	0.013	< 0.005	623		5.1	< 0.05	< 0.002	0.0092	< 0.03	0.683
	5th Percentile	0.000875	0.00035	134.50		1.52	0.005	0.000175	0.00102	0.000875	0.008825
	25th Percentile	0.001	0.0005	272.3		2.23	0.005	0.0002	0.0014975	0.011875	0.017075
	75th Percentile	0.005	0.00125	440.5		3.85	0.025	0.0002	0.005725	0.015	0.207
	95th Percentile	0.0109	0.0025	593.8		4.50	0.025	0.0010	0.0092	0.015	0.5893
<b>Toe of Northeast Dump</b>											
<b>Moderately Impacted</b>											
BH14A	05-May-05	< 0.01		1550		2	< 0.1	< 0.002	0.117	< 0.06	0.019
BH14A	11-Sep-05	< 0.005		2040		6.2	< 0.05	< 0.001	0.129	0.037	0.164
BH14A	18-Sep-06	< 0.01	< 0.005	1920		5.7	< 0.01	< 0.002	0.143	< 0.03	0.55
BH14A	28-May-07	< 0.005	< 0.0025	1840		1	< 0.01	< 0.001	0.123	< 0.03	0.121
BH14A	02-Oct-07	< 0.01	< 0.005	2030		4.4	< 0.01	< 0.002	0.135	< 0.01	0.59
BH14B	11-Sep-05	< 0.005		1570		6.31	< 0.05	< 0.001	0.122	0.041	0.0763
BH14B	18-Sep-06	< 0.01	< 0.005	1760		7.8	< 0.01	< 0.002	0.156	< 0.03	0.386
BH14B	28-May-07	< 0.005	< 0.0025	1660		4.6	< 0.01	< 0.001	0.14	< 0.03	0.224
BH14B	02-Oct-07	< 0.01	< 0.005	1710		4.1	< 0.01	< 0.002	0.141	< 0.01	0.239
	Total # samples	9	6	9		9	9	9	9	9	9
	MEAN	0.0039	0.0021	1786.67		4.68	0.014	0.0008	0.1340	0.020	0.263
	Median	0.005	0.0025	1760.0		4.6	0.005	0.001	0.135	0.015	0.224
	STD	0.0013	0.0006	183.58		2.15	0.016	0.0003	0.01240	0.0131	0.2034
	MINIMUM	< 0.005	< 0.0025	1550		1	< 0.01	< 0.001	0.117	< 0.01	0.019
	MAXIMUM	< 0.01	< 0.005	2040		7.8	< 0.1	< 0.002	0.156	< 0.06	0.59

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
	5th Percentile	5E-05	0.0125	323.6	0.00125	0.01	0.05	0.0025	507.20	9.3E-05	0.00075	2316.8	2887.5	0.00125	0.0025
	25th Percentile	1E-04	0.025	352	0.0025	0.01	0.05	0.0025	525	0.000125	0.00125	3214	3145	0.0025	0.0025
	75th Percentile	0.000125	0.025	422	0.0025	0.010	0.050	0.005	591	0.00025	0.0015	3466	3732.5	0.005	0.005
	95th Percentile	0.00027	0.1820	434.2	0.004	0.022	0.080	0.005	607.20	0.00030	0.00210	3681	3773	0.005	0.005
<b>Upstream RC Tailings Facility</b>															
<b>Non-Impacted</b>															
TH86-17	22-Jul-05	< 0.00005	< 0.01	74.4	< 0.001	0.054	< 0.1	< 0.005	26.6	< 0.00005	< 0.0005	183.3	171	< 0.0005	0.001
TH86-17	10-Sep-05	< 0.00005	< 0.01	88.1	< 0.001	0.063	< 0.1	< 0.005	30.6	< 0.00005	< 0.0005	186	2060	< 0.0005	< 0.001
TH86-17	06-Jun-06	< 0.00002	0.0051	73.8	< 0.0005	0.046	< 0.1	< 0.001	24.9	< 0.000017	< 0.0003	166.5	166	< 0.001	0.0013
TH86-17	20-Sep-06	< 0.00002	0.0067	86.4	< 0.0005	0.05	< 0.1	< 0.001	25	< 0.000017	< 0.0003	156	170	< 0.001	< 0.001
TH86-17	02-Oct-07	< 0.00002	0.0069	73.9	< 0.0005	0.05	< 0.1	< 0.001	23.4	0.000018	< 0.0003	171	176	< 0.001	< 0.001
	Total # samples	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	MEAN	0.00002	0.0057	79.32	0.0004	0.053	0.050	0.001	26.10	0.00002	0.00019	172.6	548.6	0.000	0.001
	Median	0.00001	0.0051	74.4	0.00025	0.05	0.05	0.0005	25	0.000018	0.000	171	171	0.0005	0.0005
	STD	0.00001	0.0010	7.27	0.0001	0.0065	0.000	0.0011	2.8	8.26892E-06	0.00005	12.3	844.9	0.00014	0.0004
	MINIMUM	< 0.00002	0.0051	73.8	< 0.0005	0.046	< 0.1	< 0.001	23.4	< 0.000017	< 0.0003	156	166	< 0.0005	< 0.001
	MAXIMUM	< 0.00005	< 0.01	88.1	< 0.001	0.063	< 0.1	< 0.005	30.6	< 0.00005	< 0.0005	186	2060	< 0.001	0.0013
	5th Percentile	1E-05	0.005	73.82	0.00025	0.0468	0.05	0.0005	23.70	8.5E-06	0.00015	158.1	166.8	0.00025	0.0005
	25th Percentile	1E-05	0.005	73.9	0.00025	0.05	0.05	0.0005	24.9	8.5E-06	0.00015	166.5	170	0.00025	0.0005
	75th Percentile	2.5E-05	0.0067	86.40	0.0005	0.054	0.050	0.0025	26.6	2.5E-05	0.00025	183.30	176	0.0005	0.001
	95th Percentile	0.00002	0.0069	87.8	0.001	0.061	0.050	0.0025	29.80	0.00002	0.00025	185	1683	0.001	0.001
<b>Vangorda WRD Area Slightly Impacted</b>															
P2001-02A	03-May-05	< 0.00025	< 0.05	469	0.0206	0.028	< 0.1	< 0.005	173	< 0.00025	< 0.0025	1434	1320	< 0.0025	< 0.005
P2001-02A	08-Sep-05	< 0.0001	< 0.02	432	0.0514	0.022	< 0.1	< 0.005	171	< 0.0001	< 0.001	1174	1300	< 0.001	< 0.002
P2001-02A	07-Jun-06	< 0.00004	0.043	489	0.0291	< 0.02	< 0.1	< 0.002	174	< 0.000034	< 0.0006	1321	1320	< 0.002	< 0.002
P2001-02A	19-Sep-06	< 0.00004	< 0.01	475	0.0201	< 0.02	< 0.1	< 0.002	185	< 0.000034	< 0.0006	1248	1340	< 0.002	< 0.002
P2001-02A	29-May-07	< 0.00002	0.0026	442	0.0149	0.0161	< 0.02	< 0.001	183	< 0.000034	< 0.0002	1211	1210	< 0.001	< 0.0002
P2001-02A	11-Oct-07	< 0.00004	0.247	476	0.0111	< 0.02	< 0.1	< 0.002	178	< 0.000034	< 0.0006	1093	1260	< 0.002	< 0.002
P2001-02B	08-Sep-05	< 0.0001	< 0.02	305	0.0198	0.032	< 0.1	< 0.005	164	< 0.0001	< 0.001		1190	< 0.001	< 0.002
P2001-02B	07-Jun-06	< 0.00004	< 0.01	492	0.0119	0.039	< 0.1	< 0.002	154	< 0.000034	< 0.0006	1226	1230	< 0.002	< 0.002
P2001-02B	19-Sep-06	< 0.00004	< 0.01	455	0.0126	0.031	< 0.1	< 0.002	177	< 0.000034	< 0.0006	1101	1270	< 0.002	< 0.002
P2001-02B	29-May-07	< 0.00002	0.0048	361	0.0173	0.0255	< 0.02	< 0.001	155	< 0.000034	0.00024	1118	1120	< 0.001	< 0.0002
P2001-02B	11-Oct-07	< 0.00004	0.043	464	0.0154	< 0.02	< 0.1	< 0.002	174	< 0.000034	< 0.0006	1065	1250	< 0.002	< 0.002
P2001-03	07-Jun-06	< 0.00004	0.016	335	0.0174	0.033	< 0.1	< 0.002	93.6	< 0.000034	< 0.0006	988	1050	< 0.002	< 0.002
P2001-03	19-Sep-06	< 0.00004	0.075	313	0.0154	0.039	< 0.1	< 0.002	106	0.000153	< 0.0006	956	1040	< 0.002	0.0069
P2001-03	29-May-07	< 0.00002	0.0048	440	0.00372	0.0309	0.023	< 0.001	99.8	0.000888	0.00077	922	929	< 0.001	0.00233
V34	03-May-05	< 0.00005	< 0.01	436	0.0014	0.116	< 0.1	< 0.005	74.9	< 0.00005	< 0.0005	820	796	< 0.0005	< 0.001
V34	08-Sep-05	< 0.00005	< 0.01	421	< 0.001	0.096	< 0.1	< 0.005	71.2	< 0.00005	< 0.0005	806	843	< 0.0005	< 0.001
V34	07-Jun-06	< 0.00002	0.0082	483	0.00139	0.109	< 0.1	< 0.001	73.3	< 0.000017	0.00041	7.9	844	< 0.001	< 0.001
V34	19-Sep-06	< 0.00002	0.005	460	0.00167	0.108	< 0.1	< 0.001	78	< 0.000017	0.00052	794	863	< 0.001	< 0.001
V34	29-May-07	< 0.00002	0.0048	506	0.00163	0.112	< 0.02	< 0.001	90.2	< 0.000034	0.00048	962	968	< 0.001	0.00023
V34	11-Oct-07	< 0.00004	0.682	473	0.0013	0.128	< 0.1	< 0.002	99.1	< 0.000034	< 0.0006	943	1070	< 0.002	< 0.002
V36	03-May-05	< 0.00025	0.103	440	0.0818	0.024	< 0.1	< 0.005	225	< 0.00025	< 0.0025	1688	1580	< 0.0025	< 0.005
V36	08-Sep-05	< 0.0001	< 0.02	407	0.0089	< 0.02	< 0.1	< 0.005	202	0.00028	0.0017	1542	1630	< 0.001	< 0.002
V36	07-Jun-06	< 0.0001	< 0.025	443	0.0061	< 0.02	< 0.1	< 0.005	200	0.000208	< 0.0015	1498	1520	< 0.005	< 0.005
V36	19-Sep-06	< 0.00004	< 0.01	425	0.0057	< 0.02	< 0.1	< 0.002	210	0.000193	0.00122	1420	1520	< 0.002	< 0.002
V36	29-May-07	< 0.00005	< 0.005	487	0.0597	0.0142	< 0.05	< 0.0025	251	0.000146	0.00167	1710	1760	< 0.0025	< 0.0005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
	5th Percentile	0.015	2086.0	1E-05	3.12	0.035	192.80	0.001	0.0025	13.26	0.0025	0.00125	6.18	7.31	0.00125
	25th Percentile	0.015	2190	1E-05	3.23	0.050	201.00	0.002	0.0025	14.70	0.005	0.0025	6.67	7.43	0.00125
	75th Percentile	0.0150	2390	1E-04	3.58	0.057	233.00	0.00	0.005	19.00	0.0125	0.0025	7.09	7.75	0.0025
	95th Percentile	0.02	2446	1E-04	3.90	0.065	237.6	0.01	0.005	20.84	0.0200	0.0054	7.18	7.85	0.0025
<b>Upstream RC Tailings Facility</b>															
<b>Non-Impacted</b>															
TH86-17	22-Jul-05	0.07	91.2	< 0.0002		< 0.05	6.05	< 0.01	< 0.001	2	< 0.005	< 0.001	5.81	7.87	< 0.0005
TH86-17	10-Sep-05	0.477	105	< 0.0002		< 0.05	7.02	< 0.01	0.0013	< 2	< 0.005	< 0.001	7.9	7.74	< 0.0005
TH86-17	06-Jun-06	0.178		< 0.00002	< 2	< 0.005	5.68	0.00525	< 0.001	2.1	0.0025	< 0.0005	7.23	7.82	< 0.0005
TH86-17	20-Sep-06	0.206		< 0.00002	< 2	< 0.005	5.83	0.00776	< 0.001	< 2	0.0013	< 0.0005	7.08	7.69	< 0.0005
TH86-17	02-Oct-07	0.272		< 0.00002	< 2	< 0.005	5.28	0.00436	< 0.001	2.1	< 0.001	< 0.0005	7.82	7.42	< 0.0005
	Total # samples	5	2	5	3	5	5	5	5	5	5	5	5	5	5
	MEAN	0.241	98.10	0.000046	1.00	0.012	5.97	0.005	0.0007	1.64	0.0019	0.0004	7.17	7.71	0.0003
	Median	0.206	98.10	0.00001	1.00	0.0025	5.83	0.01	0.0005	2.00	0.003	0.00025	7.2	7.7	0.00025
	STD	0.151	9.8	4.9295E-05	0.00	0.0123	0.65	0.001	0.0004	0.59	0.0009	0.0001	0.84	0.18	0.0000
	MINIMUM	0.07	91.2	< 0.00002	< 2	< 0.005	5.28	0.00436	< 0.001	< 2	< 0.001	< 0.0005	5.81	7.42	< 0.0005
	MAXIMUM	0.477	105	< 0.0002	< 2	< 0.05	7.02	< 0.01	0.0013	2.1	< 0.005	< 0.001	7.9	7.87	< 0.0005
	5th Percentile	0.0916	91.9	1E-05	1.00	0.0025	5.36	0.004	0.0005	1.00	0.00066	0.00025	6.06	7.47	0.00025
	25th Percentile	0.178	94.65	1E-05	1.00	0.0025	5.68	0.005	0.0005	1.00	0.0013	0.00025	7.08	7.69	0.00025
	75th Percentile	0.2720	101.5	1E-04	1	0.025	6.05	0.01	0.0005	2.10	0.0025	0.0005	7.82	7.82	0.00025
	95th Percentile	0.44	104	1E-04	1	0.025	6.8	0.01	0.001	2.10	0.0025	0.0005	7.88	7.86	0.0003
<b>Vangorda WRD Area Slightly Impacted</b>															
P2001-02A	03-May-05	1.7	791	< 0.0002		< 0.05	87.5	0.127	< 0.005	7.8	< 0.025	< 0.005	6.55	8.07	< 0.0025
P2001-02A	08-Sep-05	0.795	769	< 0.0002		< 0.05	82.9	0.142	0.0053	6.9	< 0.01	< 0.002	7.08	7.82	< 0.001
P2001-02A	07-Jun-06	1.71		< 0.00002	3.6	0.028	89.8	0.136	0.0037	7.5	< 0.002	< 0.001	7.4	7.93	< 0.001
P2001-02A	19-Sep-06	1.56		< 0.00002	3.9	0.029	93.5	0.123	0.0028	7	< 0.002	< 0.001	7.39	7.95	< 0.001
P2001-02A	29-May-07	1.36			3.8	0.026	87.4	0.117	0.00164	6.7	< 0.001	< 0.0001	7.42	8.14	< 0.0002
P2001-02A	11-Oct-07	0.909		< 0.00002	3.8	0.03	86.1	0.102	< 0.002	6.5	< 0.002	< 0.001	7.59	7.87	< 0.001
P2001-02B	08-Sep-05	0.97	675	< 0.0002		< 0.05	64.5	0.216	0.004	12.4	< 0.01	< 0.002		7.9	< 0.001
P2001-02B	07-Jun-06	1.79		< 0.00002	4.1	0.029	83.9	0.334	0.0051	10.9	< 0.002	< 0.001	7.51	8.05	< 0.001
P2001-02B	19-Sep-06	1.27		< 0.00002	4.7	0.031	97	0.213	0.005	10.5	< 0.002	< 0.001	7.34	7.9	< 0.001
P2001-02B	29-May-07	1.95			4.8	0.033	85.3	0.181	0.00606	11.1	< 0.001	0.00016	7.42	8.12	< 0.0002
P2001-02B	11-Oct-07	1.63		< 0.00002	3.8	0.029	83.2	0.179	0.0021	7.3	< 0.002	< 0.001	7.87	7.95	< 0.001
P2001-03	07-Jun-06	< 0.03		< 0.00002	2.7	0.011	41.8	0.00679	0.0719	100	< 0.002	< 0.001	8.06	8.17	< 0.001
P2001-03	19-Sep-06	0.178		< 0.00002	3.2	0.012	47	0.137	0.0768	120	0.0031	0.0024	7.77	8.12	< 0.001
P2001-03	29-May-07	< 0.03			3.2	0.011	64.4	0.593	0.0165	42.1	0.0018	< 0.0001	7.53	8.15	< 0.0002
V34	03-May-05	0.551	528	< 0.0002		< 0.05	82.7	0.104	0.0051	5.7	< 0.005	< 0.001	6.72	8.31	< 0.0005
V34	08-Sep-05	0.081	476	< 0.0002		< 0.05	72.4	0.079	0.0034	4.5	< 0.005	< 0.001	7.12	8.23	< 0.0005
V34	07-Jun-06	0.553		< 0.00002	3.2	0.0124	77.9	0.0739	0.0033	5.2	< 0.001	< 0.0005	7.7	8.06	< 0.0005
V34	19-Sep-06	0.686		< 0.00002	3.6	0.0148	82.4	0.0883	0.0031	5.6	< 0.001	< 0.0005	7.3	8.05	< 0.0005
V34	29-May-07	0.854			3.9	0.014	97.3	0.0832	0.00318	6.6	< 0.001	0.00028	7.51	8.21	< 0.0002
V34	11-Oct-07	0.95		< 0.00002	3.3	0.017	102	0.0739	0.0027	6.1	< 0.002	< 0.001	7.68	8.01	< 0.001
V36	03-May-05	0.82	1140	< 0.0002		< 0.05	141	0.197	< 0.005	8.4	< 0.025	0.0081	6.32	8.13	< 0.0025
V36	08-Sep-05	< 0.03	970	< 0.0002		< 0.05	113	0.12	< 0.002	5.6	< 0.01	< 0.002	7.11	7.91	< 0.001
V36	07-Jun-06	< 0.03		< 0.00002	3.3	0.029	112	0.104	< 0.005	5.9	0.0083	< 0.0025	7.18	7.84	< 0.0025
V36	19-Sep-06	< 0.03		< 0.00002	4.3	0.032	120	0.118	< 0.002	6.6	0.0064	0.0013	7.42	7.72	< 0.001
V36	29-May-07	0.609			5.6	0.036	158	0.186	0.00328	9	0.0066	0.00127	7.26	8.1	< 0.0005

### Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
	5th Percentile	0.0025	0.00125	1558.00		1.40	0.005	0.0005	0.1190	0.005	0.04
	25th Percentile	0.0025	0.0015625	1660.0		4.10	0.005	0.0005	0.123	0.015	0.121
	75th Percentile	0.005	0.0025	1920		6.20	0.025	0.001	0.1410	0.030	0.386
	95th Percentile	0.005	0.0025	2036.0		7.20	0.040	0.001	0.1508	0.039	0.5740
<b>Upstream RC Tailings Facility</b>											
<b>Non-Impacted</b>											
TH86-17	22-Jul-05	< 0.001		16.6		7.9	< 0.05	< 0.0002	0.0005	< 0.03	0.0136
TH86-17	10-Sep-05	< 0.001		15.8		7.58	< 0.05	< 0.0002	0.00075	< 0.03	0.0135
TH86-17	06-Jun-06	< 0.001	< 0.0005	13.6		2.5	< 0.01	< 0.0002	0.00078	< 0.03	0.0123
TH86-17	20-Sep-06	< 0.001	< 0.0005	14.7		6.3	< 0.01	< 0.0002	0.00021	< 0.03	0.0156
TH86-17	02-Oct-07	< 0.001	< 0.0005	14.3		5.1	< 0.01	< 0.0002	0.00045	< 0.001	0.0138
	Total # samples	5	3	5		5	5	5	5	5	5
	MEAN	0.0005	0.0003	15.00		5.88	0.013	0.0001	0.0005	0.012	0.014
	Median	0.0005	0.00025	14.7		6.3	0.005	0.0001	0.0005	0.015	0.0136
	STD	0.0000	0.0000	1.20		2.19	0.011	0	0.00023	0.0065	0.0012
	MINIMUM	< 0.001	< 0.0005	13.6		2.5	< 0.01	< 0.0002	0.00021	< 0.001	0.0123
	MAXIMUM	< 0.001	< 0.0005	16.6		7.9	< 0.05	< 0.0002	0.00078	< 0.03	0.0156
	5th Percentile	0.0005	0.00025	13.74		3.02	0.005	1E-04	0.000258	0.0034	0.01254
	25th Percentile	0.0005	0.00025	14.3		5.10	0.005	1E-04	0.00045	0.015	0.0135
	75th Percentile	0.0005	0.00025	15.80		7.58	0.025	1E-04	0.00075	0.015	0.014
	95th Percentile	0.001	0.0003	16.4		7.84	0.025	0.0001	0.000774	0.015	0.0152
<b>Vangorda WRD Area Slightly Impacted</b>											
P2001-02A	03-May-05	< 0.005		338		5.8	< 0.05	< 0.001	0.0216	< 0.03	0.0088
P2001-02A	08-Sep-05	< 0.002		314		5.4	< 0.05	< 0.0004	0.0202	< 0.03	0.0067
P2001-02A	07-Jun-06	< 0.002	< 0.001	349		7.1	< 0.01	< 0.0004	0.0235	< 0.03	0.0075
P2001-02A	19-Sep-06	< 0.002	< 0.001	364		3.6	< 0.01	< 0.0004	0.0222	< 0.03	0.0062
P2001-02A	29-May-07	< 0.002	< 0.0002	308	0.822	3.1	< 0.01	< 0.0002	0.0207	< 0.002	0.004
P2001-02A	11-Oct-07	< 0.002	< 0.001	332		2.5	< 0.01	< 0.0004	0.0209	< 0.002	0.011
P2001-02B	08-Sep-05	< 0.002		337			< 0.05	< 0.0004	0.0132	< 0.03	0.0089
P2001-02B	07-Jun-06	< 0.002	< 0.001	294		7.9	< 0.01	< 0.0004	0.0153	< 0.03	0.0083
P2001-02B	19-Sep-06	< 0.002	< 0.001	313		4.2	< 0.01	< 0.0004	0.0192	< 0.03	0.0037
P2001-02B	29-May-07	< 0.002	< 0.0002	249	0.771	3.2	< 0.01	< 0.0002	0.0174	< 0.002	0.0047
P2001-02B	11-Oct-07	< 0.002	< 0.001	317		1.2	< 0.01	< 0.0004	0.0195	< 0.002	0.022
P2001-03	07-Jun-06	< 0.002	< 0.001	288		10.6	< 0.01	< 0.0004	0.00207	< 0.03	0.0052
P2001-03	19-Sep-06	< 0.002	< 0.001	291		3.9	< 0.01	< 0.0004	0.00233	< 0.03	0.039
P2001-03	29-May-07	< 0.002	< 0.0002	124	0.613	3	< 0.01	< 0.0002	0.0128	< 0.002	0.0089
V34	03-May-05	< 0.001		42.5		3.9	< 0.05	< 0.0002	0.00568	< 0.03	0.0086
V34	08-Sep-05	< 0.001		48.1		5.16	< 0.05	< 0.0002	0.00551	< 0.03	0.0084
V34	07-Jun-06	< 0.001	< 0.0005	61.4		812	< 0.01	< 0.0002	0.00644	< 0.03	0.0103
V34	19-Sep-06	< 0.001	< 0.0005	71.6		4.4	< 0.01	< 0.0002	0.00809	< 0.03	0.0088
V34	29-May-07	< 0.002	< 0.0002	107	0.824	3.2	< 0.01	< 0.0002	0.0103	< 0.002	0.0073
V34	11-Oct-07	< 0.002	< 0.001	131		0.7	< 0.01	< 0.0004	0.0117	< 0.002	0.038
V36	03-May-05	< 0.005		509		5.1	< 0.05	< 0.001	0.0313	< 0.03	0.0168
V36	08-Sep-05	< 0.002		553		3.93	< 0.05	< 0.0004	0.0248	< 0.03	0.0243
V36	07-Jun-06	< 0.005	< 0.0025	558		4.7	< 0.01	< 0.001	0.021	< 0.03	0.042
V36	19-Sep-06	< 0.002	< 0.001	530		3.1	< 0.01	< 0.0004	0.0245	< 0.03	0.047
V36	29-May-07	< 0.005	< 0.0005	693	1.07	2.6	< 0.01	< 0.0005	0.0407	< 0.005	0.0142

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
V36	11-Oct-07	< 0.0001	< 0.025	416	0.0068	< 0.02	< 0.1	< 0.005	214	0.000224	< 0.0015	1357	1560	< 0.005	< 0.005
V37	03-May-05	< 0.00005	0.065	420	0.0022	0.18	< 0.1	< 0.005	66.3	< 0.00005	< 0.0005	919	829	< 0.0005	< 0.001
V37	08-Sep-05	< 0.00005	< 0.01	428	0.0012	0.138	< 0.1	< 0.005	49.6	< 0.00005	< 0.0005	776	850	< 0.0005	< 0.001
V37	07-Jun-06	< 0.00002	< 0.005	450	0.00241	0.168	< 0.1	< 0.001	58.5	< 0.000017	< 0.0003	818	785	< 0.001	< 0.001
V37	19-Sep-06	< 0.00002	0.0078	402	0.00123	0.18	< 0.1	< 0.001	63	< 0.000017	< 0.0003	711	770	< 0.001	< 0.001
V37	03-Jun-07	< 0.00002	< 0.002	407	0.00139	0.163	0.035	< 0.001	56.1	0.000062	0.00022	750	769	< 0.001	0.0003
V37	11-Oct-07	< 0.00004	< 0.01	430	< 0.001	0.146	< 0.1	< 0.002	57.7	0.000044	< 0.0006	714	794	< 0.002	0.0025
	Total # samples	32	32	32	32	32	32	32	32	32	32	31	32	32	32
	MEAN	0.00003	0.0449	433.8	0.0140	0.064	0.044	0.001	135.23	0.00009	0.00052	1067.5	1143.1	0.001	0.001
	Median	2E-05	0.0064	440	0.00785	0.0315	0.05	0.001	154.5	2.5E-05	0.0003	1065	1155	0.00075	0.001
	STD	0.00003	0.1254	49.2	0.0186	0.0605	0.013	0.0008	60.9	0.000164	0.00043	347.6	291.9	0.00054	0.0013
	MINIMUM	< 0.00002	< 0.002	305	< 0.001	0.0142	< 0.02	< 0.001	49.6	< 0.000017	< 0.0002	7.9	769	< 0.0005	< 0.0002
	MAXIMUM	< 0.00025	0.682	506	0.0818	0.18	< 0.1	< 0.005	251	0.000888	< 0.0025	1710	1760	< 0.005	0.0069
	5th Percentile	1E-05	0.0025	325.1	0.000885	0.01	0.01	0.0005	56.98	8.5E-06	0.00015	712.5	778.2	0.00025	0.0001715
	25th Percentile	1E-05	0.005	419	0.0015725	0.01	0.05	0.0005	74.5	1.7E-05	0.00025	819	848.5	0.0005	0.0005
	75th Percentile	2.5E-05	0.018	470	0.017325	0.113	0.050	0.0025	179.25	0.000125	0.0005775	1284.5	1320	0.001	0.001
	95th Percentile	0.00008	0.1678	490.4	0.055	0.173	0.050	0.0025	218.95	0.00025	0.00144	1615	1603	0.002	0.002
<b>Vangorda WRD Area</b>															
<b>Moderately Impacted</b>															
V35	03-May-05	< 0.00025	< 0.05	383	< 0.005	0.023	< 0.1	< 0.005	227	< 0.00025	< 0.0025	2032	1410	< 0.0025	< 0.005
V35	08-Sep-05	< 0.0001	< 0.02	377	< 0.002	< 0.02	< 0.1	< 0.005	214	< 0.0001	< 0.001	1523	1510	0.0014	< 0.002
V35	07-Jun-06	< 0.0001	< 0.025	643	< 0.0025	< 0.02	< 0.1	< 0.005	398	0.000148	< 0.0015	2037	2800	< 0.005	< 0.005
V35	18-Sep-06	< 0.0001	< 0.025	655	< 0.0025	< 0.02	< 0.1	< 0.005	471	0.000201	< 0.0015	2723	2940	< 0.005	< 0.005
V35	29-May-07	< 0.0001	< 0.01	677	0.0011	0.0126	< 0.1	< 0.005	521	0.0002	< 0.001	3310	3050	< 0.005	0.0012
V35	11-Oct-07	< 0.0001	0.27	528	< 0.0025	< 0.02	< 0.1	< 0.005	308	0.000147	< 0.0015	1862	2060	< 0.005	< 0.005
	Total # samples	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	MEAN	0.00006	0.0558	543.8	0.0014	0.013	0.050	0.003	356.50	0.00015	0.00075	2247.8	2295	0.002	0.002
	Median	5E-05	0.0125	585.5	0.00125	0.01	0.05	0.0025	353	0.0001475	0.00075	2034.5	2430	0.0025	0.0025
	STD	0.00003	0.1051	137.0	0.0006	0.0052	0.000	0.0000	127.5	0.000056	0.00027	651.0	734.3	0.00061	0.0007
	MINIMUM	< 0.0001	< 0.01	377	0.0011	0.0126	< 0.1	< 0.005	214	< 0.0001	< 0.001	1523	1410	0.0014	0.0012
	MAXIMUM	< 0.00025	0.27	677	< 0.005	0.023	< 0.1	< 0.005	521	< 0.00025	< 0.0025	3310	3050	< 0.005	< 0.005
	5th Percentile	5E-05	0.00625	378.5	0.001025	0.01	0.05	0.0025	217.25	6.875E-05	0.0005	1607.8	1435.0	0.0012875	0.00105
	25th Percentile	5E-05	0.010625	419.25	0.0011375	0.01	0.05	0.0025	247.25	0.0001305	0.0005625	1904.5	1647.5	0.001675	0.001525
	75th Percentile	5E-05	0.021875	652	0.00125	0.012	0.050	0.0025	452.75	0.000187	0.00075	2551.5	2905	0.0025	0.0025
	95th Percentile	0.00011	0.2088	671.5	0.002	0.020	0.050	0.0025	508.50	0.00020	0.00113	3163	3023	0.002	0.002
<b>Zone II Outwash Area</b>															
<b>Moderately Impacted</b>															
BH1	05-May-05	< 0.00005	0.043	147	< 0.001	0.057	< 0.2	< 0.01	66.4	0.00237	0.00087	424		< 0.0005	0.004
BH1	11-Sep-05	< 0.00005	0.09	164	< 0.001	0.038	< 0.1	< 0.005	85.6	0.0036	0.00098	499	509	< 0.0005	0.0041
BH1	05-Jun-06	< 0.00002	0.0884	142	< 0.0005	0.047	< 0.1	< 0.001	56.7	0.00443	0.00284	3.6	389	< 0.001	0.0044
BH1	18-Sep-06	< 0.00002	0.0652	152	< 0.0005	0.043	< 0.1	< 0.001	49.1	0.00559	0.00288	341.3	341	< 0.001	0.0051
BH1	28-May-07	< 0.00002	0.056	165	< 0.0005	0.046	< 0.1	< 0.001	55.7	0.00302	0.00148	359	338	< 0.001	0.0045
BH1	02-Oct-07	< 0.00002	0.102	126	< 0.0005	0.046	< 0.1	< 0.001	62	0.00624	0.00354		427	< 0.001	0.0086
BH4	05-May-05	< 0.0001	9.22	21.7	< 0.002	< 0.04	< 0.2	< 0.01	76.5	0.0131	0.0603	578		< 0.001	0.182
BH4	11-Sep-05	< 0.00005	0.085	125	< 0.001	0.028	< 0.1	< 0.005	85.9	0.00356	0.00887	435	474	< 0.0005	0.0052
BH4	05-Jun-06	< 0.00002	0.289	130	< 0.0005	0.03	< 0.1	< 0.001	64.4	0.00451	0.0144	213.4	432	< 0.001	0.0133
BH4	18-Sep-06	< 0.00002	0.218	103	< 0.0005	0.022	< 0.1	< 0.001	64.4	0.00322	0.00928	395.4	387	< 0.001	0.0096
BH4	02-Oct-07	< 0.00002	1.38	99.2	< 0.0005	< 0.02	< 0.1	< 0.001	67.5	0.00567	0.0167	454	432	< 0.001	0.019
BH6	18-Sep-06	< 0.00002	0.0454	102	< 0.0005	0.043	< 0.1	< 0.001	59.6	0.00193	0.0452	442.1	426	< 0.001	< 0.001

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
V36	11-Oct-07	0.036		< 0.00002	3.8	0.035	118	0.1	< 0.005	5.8	0.0082	< 0.0025	7.55	7.82	< 0.0025
V37	03-May-05	1.15	495	< 0.0002		< 0.05	79.9	0.101	0.0234	24.4	< 0.005	< 0.001	6.28	8.4	< 0.0005
V37	08-Sep-05	0.863	389	< 0.0002		< 0.05	64.4	0.072	0.0202	18.4	< 0.005	< 0.001	7.7	8.29	< 0.0005
V37	07-Jun-06	1.45		< 0.00002	4.9	0.022	68.3	0.0806	0.019	23.5	< 0.001	< 0.0005	7.78	8.19	< 0.0005
V37	19-Sep-06	0.382		< 0.00002	6.1	0.0257	75.8	0.0363	0.0188	25.5	< 0.001	< 0.0005	7.62	8.05	< 0.0005
V37	03-Jun-07	1.16			6.2	0.025	71.5	0.084	0.0168	24.2	< 0.001	< 0.0001	7.8	8.31	< 0.0002
V37	11-Oct-07	0.317		< 0.00002	5.8	0.025	70.2	0.0355	0.0173	21.5	< 0.002	< 0.001	7.81	7.96	< 0.001
	Total # samples	32	9	26	23	32	32	32	32	32	32	32	31	32	32
	MEAN	0.824	692.56	0.000041	4.16	0.024	87.53	0.136	0.0110	17.79	0.0030	0.0009	7.38	8.05	0.0005
	Median	0.837	675	1E-05	3.80	0.025	83.55	0.11	0.00355	7.65	0.001	0.0005	7.4	8.1	0.0005
	STD	0.612	249.5	4.36648E-05	0.99	0.0069	24.35	0.105	0.0179	25.77	0.0034	0.0014	0.43	0.16	0.0003
	MINIMUM	< 0.03	389	< 0.00002	2.7	0.011	41.8	0.00679	0.00164	4.5	< 0.001	< 0.0001	6.28	7.72	< 0.0002
	MAXIMUM	1.95	1140	< 0.0002	6.2	< 0.05	158	0.593	0.0768	120	< 0.025	0.0081	8.06	8.4	< 0.0025
	5th Percentile	0.015	423.8	1E-05	3.20	0.01155	56.57	0.036	0.001	5.42	0.0005	5E-05	6.44	7.82	1E-04
	25th Percentile	0.282	495	1E-05	3.45	0.02425	72.18	0.083	0.0025	6.40	0.000875	0.0002725	7.22	7.92	0.00025
	75th Percentile	1.2925	791	1E-04	4.75	0.029	97.08	0.15	0.016575	19.17	0.005	0.001	7.69	8.15	0.0005
	95th Percentile	1.75	1072	1E-04	6.07	0.034	129.5	0.27	0.045	68.16	0.0102	0.0024	7.84	8.31	0.0012
<b>Vangorda WRD Area</b>															
<b>Moderately Impacted</b>															
V35	03-May-05	0.046	1040	< 0.0002		< 0.05	115	< 0.01	< 0.005	6.6	< 0.025	< 0.005	6.47	8.15	< 0.0025
V35	08-Sep-05	< 0.03	966	< 0.0002		< 0.05	105	0.012	< 0.002	5.2	< 0.01	< 0.002	6.49	7.92	< 0.001
V35	07-Jun-06	< 0.03		< 0.00002	4	0.026	221	0.0693	< 0.005	9.3	0.0059	< 0.0025	7.35	7.84	< 0.0025
V35	18-Sep-06	< 0.03		< 0.00002	5.5	0.03	256	0.104	< 0.005	10.5	0.007	0.0036	7.01	7.72	< 0.0025
V35	29-May-07	< 0.03			5.5	< 0.05	293	0.186	0.00212	11.5	0.0118	0.0006	7.13	8.05	< 0.001
V35	11-Oct-07	0.08		< 0.00002	4	0.026	164	0.815	< 0.005	7.3	0.0071	< 0.0025	7.48	7.83	< 0.0025
	Total # samples	6	2	5	4	6	6	6	6	6	6	6	6	6	6
	MEAN	0.031	1003.00	0.000046	4.75	0.026	192.33	0.199	0.0022	8.4	0.0082	0.0017	6.99	7.92	0.0010
	Median	0.015	1003	0.00001	4.75	0.0255	192.5	0.09	0.0025	8.30	0.00705	0.00125	7.1	7.9	0.00125
	STD	0.027	52.3	4.9295E-05	0.87	0.0019	76.71	0.309	0.0006	2.43	0.0032	0.0011	0.43	0.16	0.0004
	MINIMUM	< 0.03	966	< 0.00002	4	0.026	105	< 0.01	< 0.002	5.2	0.0059	0.0006	6.47	7.72	< 0.001
	MAXIMUM	0.08	1040	< 0.0002	5.5	< 0.05	293	0.815	< 0.005	11.5	< 0.025	< 0.005	7.48	8.15	< 0.0025
	5th Percentile	0.015	969.7	1E-05	4.00	0.025	107.50	0.007	0.00128	5.55	0.005225	0.0007	6.47	7.75	0.0005
	25th Percentile	0.015	984.5	1E-05	4.00	0.025	127.25	0.026	0.002215	6.77	0.006175	0.0010625	6.62	7.83	0.0006875
	75th Percentile	0.0382	1021.5	1E-04	5.50	0.026	247.25	0.17	0.0025	10.20	0.010625	0.0021875	7.30	8.02	0.00125
	95th Percentile	0.07	1036	1E-04	5.50	0.029	283.8	0.66	0.002	11.25	0.0123	0.0033	7.45	8.13	0.0012
<b>Zone II Outwash Area</b>															
<b>Moderately Impacted</b>															
BH1	05-May-05	< 0.06	225	< 0.0002		< 0.1	14.4	0.217	< 0.001	5.6	< 0.005	0.0027		7.02	< 0.0005
BH1	11-Sep-05	< 0.03	292	< 0.0002		< 0.05	19	0.36	< 0.001	6.4	0.0069	0.0024	6.4	6.99	< 0.0005
BH1	05-Jun-06	< 0.03		< 0.00002	< 2	0.0156	14.3	0.536	< 0.001	4.7	0.0093	0.00379	6.19	7.37	< 0.0005
BH1	18-Sep-06	< 0.03		< 0.00002	< 2	0.0148	12.8	0.358	< 0.001	3.8	0.0126	0.00141	5.64	6.84	< 0.0005
BH1	28-May-07	< 0.03		< 0.00002	< 2	0.0128	12.9	0.225	< 0.001	4.2	0.0059	0.00179	6.13	7.13	< 0.0005
BH1	02-Oct-07	< 0.03		< 0.00002	< 2	0.0148	13.7	0.307	< 0.001	4.8	0.0132	0.00401	6.15	6.47	< 0.0005
BH4	05-May-05	< 0.06	268	< 0.0002		< 0.1	18.7	0.747	< 0.002	5.8	0.068	0.0025	5.05	6.03	< 0.001
BH4	11-Sep-05	< 0.03	295	< 0.0002		< 0.05	19.7	0.149	< 0.001	6.3	0.0186	< 0.001	6.17	7.11	< 0.0005
BH4	05-Jun-06	0.036		< 0.00002	< 2	0.0167	14.9	0.189	< 0.001	4.8	0.0238	< 0.0005	5.52	7.04	< 0.0005
BH4	18-Sep-06	0.05		< 0.00002	< 2	0.0212	15.9	0.105	< 0.001	4.6	0.0165	0.00062	5.63	6.68	< 0.0005
BH4	02-Oct-07	0.073		< 0.00002	< 2	0.0292	14.1	0.182	< 0.001	4.6	0.0254	0.001	6.12	6.33	< 0.0005
BH6	18-Sep-06	8.36		< 0.00002	< 2	0.0254	18.4	1.94	< 0.001	4.9	0.0426	0.00077	5.96	6.63	< 0.0005

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
V36	11-Oct-07	< 0.005	< 0.0025	544		1.6	< 0.01	< 0.001	0.0233	< 0.005	0.03
V37	03-May-05	< 0.001		77.9		3.9	< 0.05	< 0.0002	0.00043	< 0.03	0.0066
V37	08-Sep-05	< 0.001		74.6		4.49	< 0.05	< 0.0002	0.00037	< 0.03	0.0054
V37	07-Jun-06	< 0.001	< 0.0005	71.7		3.8	< 0.01	< 0.0002	0.00035	< 0.03	< 0.005
V37	19-Sep-06	< 0.001	< 0.0005	66.2		3.8	< 0.01	< 0.0002	0.00074	< 0.03	0.0076
V37	03-Jun-07	< 0.002	< 0.0002	63.5	0.492	3.1	< 0.01	< 0.0002	0.000327	< 0.002	0.0044
V37	11-Oct-07	< 0.002	< 0.001	63.9		1.8	< 0.01	< 0.0004	0.00076	< 0.002	0.011
	Total # samples	32	23	32	6	31	32	32	32	32	32
	MEAN	0.0011	0.0004	265.14	0.765	30.09	0.011	0.0002	0.0140	0.010	0.015
	Median	0.001	0.0005	292.5	0.7965	3.9	0.005	0.0002	0.01425	0.015	0.0088
	STD	0.0006	0.0003	185.82	0.199	145.1	0.009	0.0001	0.01050	0.0066	0.0128
	MINIMUM	< 0.001	< 0.0002	42.5	0.492	0.7	< 0.01	< 0.0002	0.000327	< 0.002	0.004
	MAXIMUM	< 0.005	< 0.0025	693	1.07	812	< 0.05	< 0.001	0.0407	< 0.03	0.047
	5th Percentile	0.0005	1E-04	55.41	0.522	1.40	0.005	1E-04	0.000361	0.001	0.00422
	25th Percentile	0.000875	0.00025	73.9	0.65	3.10	0.005	1E-04	0.004715	0.001	0.006675
	75th Percentile	0.001	0.0005	340.75	0.8235	4.90	0.025	0.0002	0.02115	0.015	0.0181
	95th Percentile	0.0025	0.001175	555.3	1.0085	9.25	0.025	0.0005	0.0277	0.015	0.0404
<b>Vangorda WRD Area</b>											
<b>Moderately Impacted</b>											
V35	03-May-05	< 0.005		495		3.9	< 0.05	< 0.001	0.0424	< 0.03	0.0104
V35	08-Sep-05	0.0024		496		4.48	< 0.05	< 0.0004	0.0367	< 0.03	0.0141
V35	07-Jun-06	< 0.005	< 0.0025	1480		6.4	< 0.01	< 0.001	0.104	< 0.03	0.03
V35	18-Sep-06	< 0.005	< 0.0025	1480		3.3	< 0.01	< 0.001	0.125	< 0.03	0.113
V35	29-May-07	< 0.01	< 0.001	1680	1.59	3	< 0.01	< 0.001	0.139	< 0.01	< 0.005
V35	11-Oct-07	< 0.005	< 0.0025	870		2.5	< 0.01	< 0.001	0.0679	< 0.005	0.029
	Total # samples	6	4	6	1	6	6	6	6	6	6
	MEAN	0.0029	0.0011	1083.50	1.59	3.93	0.012	0.0005	0.0858	0.011	0.033
	Median	0.0025	0.00125	1175.0	1.59	3.6	0.005	0.0005	0.085950001	0.015	0.02155
	STD	0.0010	0.0004	530.53		1.39	0.010	0.0001	0.04316	0.0059	0.0406
	MINIMUM	0.0024	< 0.001	495	1.59	2.5	< 0.01	< 0.0004	0.0367	< 0.005	< 0.005
	MAXIMUM	< 0.01	< 0.0025	1680	1.59	6.4	< 0.05	< 0.001	0.139	< 0.03	0.113
	5th Percentile	0.002425	0.0006125	495.25	1.59	2.63	0.005	0.000275	0.038124999	0.003125	0.004475
	25th Percentile	0.0025	0.0010625	589.5	1.59	3.08	0.005	0.0005	0.049	0.0075	0.011325
	75th Percentile	0.0025	0.00125	1480	1.59	4.34	0.02	0.0005	0.1198	0.015	0.02975
	95th Percentile	0.004375	0.00125	1630.0	1.59	5.92	0.025	0.0005	0.1355	0.015	0.0922
<b>Zone II Outwash Area</b>											
<b>Moderately Impacted</b>											
BH1	05-May-05	< 0.001		54.9		4	< 0.1	< 0.0002	0.00138	< 0.06	0.615
BH1	11-Sep-05	< 0.001		110		5.7	< 0.05	< 0.0002	0.00162	< 0.03	0.951
BH1	05-Jun-06	< 0.001	< 0.0005	51.3		7.1	< 0.01	< 0.0002	0.00098	< 0.03	1.37
BH1	18-Sep-06	< 0.001	< 0.0005	50.5		4.2	< 0.01	< 0.0002	0.00036	< 0.03	2.09
BH1	28-May-07	< 0.001	< 0.0005	41.4		3.6	< 0.01	< 0.0002	0.00111	< 0.03	0.971
BH1	02-Oct-07	< 0.001	< 0.0005	94.1		4.7	< 0.01	< 0.0002	0.00059	< 0.001	2.43
BH4	05-May-05	< 0.002		240		3.5	< 0.1	< 0.0004	0.00051	< 0.06	7.66
BH4	11-Sep-05	< 0.001		121		5	< 0.05	< 0.0002	< 0.0002	< 0.03	1.91
BH4	05-Jun-06	< 0.001	< 0.0005	261		1.4	< 0.01	< 0.0002	< 0.0002	< 0.03	2.37
BH4	18-Sep-06	< 0.001	< 0.0005	108		4.8	< 0.01	< 0.0002	< 0.0002	< 0.03	1.32
BH4	02-Oct-07	< 0.001	< 0.0005	129		2.8	< 0.01	< 0.0002	< 0.0002	< 0.001	1.94
BH6	18-Sep-06	< 0.001	< 0.0005	129		3.3	< 0.01	< 0.0002	0.00025	< 0.03	5.51

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	AG-D mg/L	AL-D mg/L	ALK-T mg/L	AS-D mg/L	BA-D mg/L	B-D mg/L	BE-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	COND-F μS/cm	COND-L μS/cm	CR-D mg/L	CU-D mg/L
BH6	28-May-07	< 0.00002	0.0421	136	< 0.0005	0.024	< 0.1	< 0.001	48	0.00128	0.031	582	329	< 0.001	< 0.001
BH6	02-Oct-07	< 0.00002	0.0341	117	< 0.0005	0.038	< 0.1	< 0.001	54.2	0.00144	0.0313	418	397	< 0.001	< 0.001
P05-04	18-Sep-06	< 0.00002	0.045	165	< 0.0005	0.054	< 0.1	< 0.001	65.8	0.00269	0.00172	410.8	406	< 0.001	< 0.001
P05-04	28-May-07	< 0.00002	0.0424	165	< 0.0005	0.036	< 0.1	< 0.001	60.4	0.00242	< 0.0003	376	360	< 0.001	< 0.001
P05-04	02-Oct-07	< 0.00002	0.0424	153	< 0.0005	0.043	< 0.1	< 0.001	63.3	0.00248	0.00077	416	409	< 0.001	< 0.001
	Total # samples	17	17	17	17	17	17	17	17	17	17	16	15	17	17
	MEAN	0.00002	0.6993	130.2	0.0003	0.037	0.056	0.001	63.85	0.00397	0.01366	396.7	403.7	0.000	0.015
	Median	0.00001	0.0652	136	0.00025	0.04	0.05	0.0005	63.3	0.00322	0.004	417	406	0.0005	0.0044
	STD	0.00001	2.2190	36.0	0.0002	0.0128	0.017	0.0016	10.8	0.002772	0.01791	136.5	50.0	0.00010	0.0432
	MINIMUM	< 0.00002	0.0341	21.7	< 0.0005	< 0.02	< 0.1	< 0.001	48	0.00128	< 0.0003	3.6	329	< 0.0005	< 0.001
	MAXIMUM	< 0.0001	9.22	165	< 0.002	0.057	< 0.2	< 0.01	85.9	0.0131	0.0603	582	509	< 0.001	0.182
	5th Percentile	1E-05	0.0405	83.70	0.00025	0.0180	0.05	0.0005	48.88	0.001408	0.000646	160.9	335.3	0.00025	0.0005
	25th Percentile	1E-05	0.043	117	0.00025	0.03	0.05	0.0005	56.7	0.00242	0.00148	371.75	373.5	0.0005	0.0005
	75th Percentile	1E-05	0.102	153	0.00025	0.046	0.050	0.0005	66.4	0.00451	0.0167	445.08	429.5	0.0005	0.0086
	95th Percentile	0.00003	2.9480	165.0	0.001	0.055	0.100	0.005	85.66	0.00761	0.04822	579	485	0.001	0.052



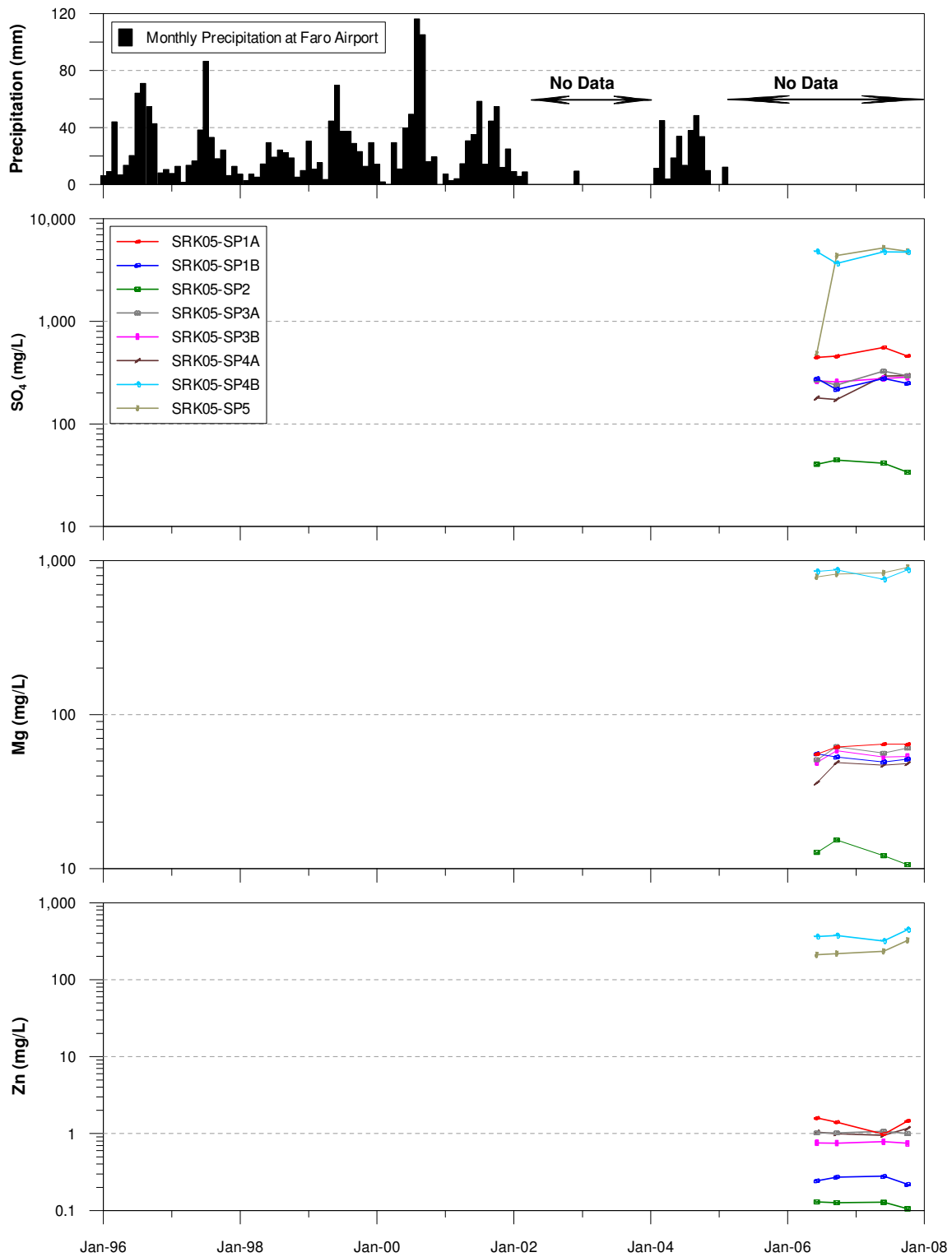
**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

STATION GROUP	DATE	FE-D mg/L	HARD mg/L	HG-D mg/L	K-D mg/L	LI-D mg/L	MG-D mg/L	MN-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	PB-D mg/L	PH-F pH unit	PH-L pH unit	SB-D mg/L
BH6	28-May-07	4.51		< 0.00002	< 2	0.021	13.7	1.33	< 0.001	4.3	0.0289	0.00063	6.13	7.26	< 0.0005
BH6	02-Oct-07	4.71		< 0.00002	2.2	0.0233	15.1	1.25	< 0.001	5	0.0295	0.00078	6.16	6.47	< 0.0005
P05-04	18-Sep-06	< 0.03		< 0.00002	< 2	0.0164	16.6	0.0318	< 0.001	4.8	0.0122	< 0.0005	6.09	6.86	< 0.0005
P05-04	28-May-07	< 0.03		< 0.00002	< 2	0.0155	15	0.00196	< 0.001	4.6	0.0092	< 0.0005	6.11	6.95	< 0.0005
P05-04	02-Oct-07	< 0.03		< 0.00002	< 2	0.0159	14.2	0.0203	< 0.001	4.7	0.0092	< 0.0005	6.2	6.61	< 0.0005
	Total # samples	17	4	17	13	17	17	17	17	17	17	17	16	17	17
	MEAN	1.055	270.00	0.000031	1.09	0.023	15.49	0.468	0.0005	4.94	0.0197	0.0014	5.98	6.81	0.0003
	Median	0.015	280	0.00001	1.00	0.021	14.90	0.23	0.0005	4.80	0.013	0.00078	6.1	6.9	0.00025
	STD	2.417	32.3	3.93514E-05	0.33	0.0112	2.20	0.546	0.0001	0.70	0.0163	0.0012	0.34	0.36	0.0001
	MINIMUM	< 0.03	225	< 0.00002	< 2	0.0128	12.8	0.00196	< 0.001	3.8	< 0.005	< 0.0005	5.05	6.03	< 0.0005
	MAXIMUM	8.36	295	< 0.0002	2.2	< 0.1	19.7	1.94	< 0.002	6.4	0.068	0.00401	6.4	7.37	< 0.001
	5th Percentile	0.0150	231.4	1E-05	1.00	0.0144	12.88	0.017	0.0005	4.12	0.00522	0.00025	5.40	6.27	0.00025
	25th Percentile	0.015	257.25	1E-05	1.00	0.0156	14.10	0.149	0.0005	4.60	0.0092	0.0005	5.88	6.61	0.00025
	75th Percentile	0.0500	292.75	1E-05	1.00	0.025	16.60	0.54	0.0005	5.00	0.0254	0.0024	6.16	7.04	0.00025
	95th Percentile	5.44	295	1E-04	1.48	0.050	19.1	1.45	0.001	6.32	0.0477	0.0038	6.25	7.28	0.0003

**Appendix B1.2: Faro Mine Groundwater Data 2005-2007 Summary Statistics**

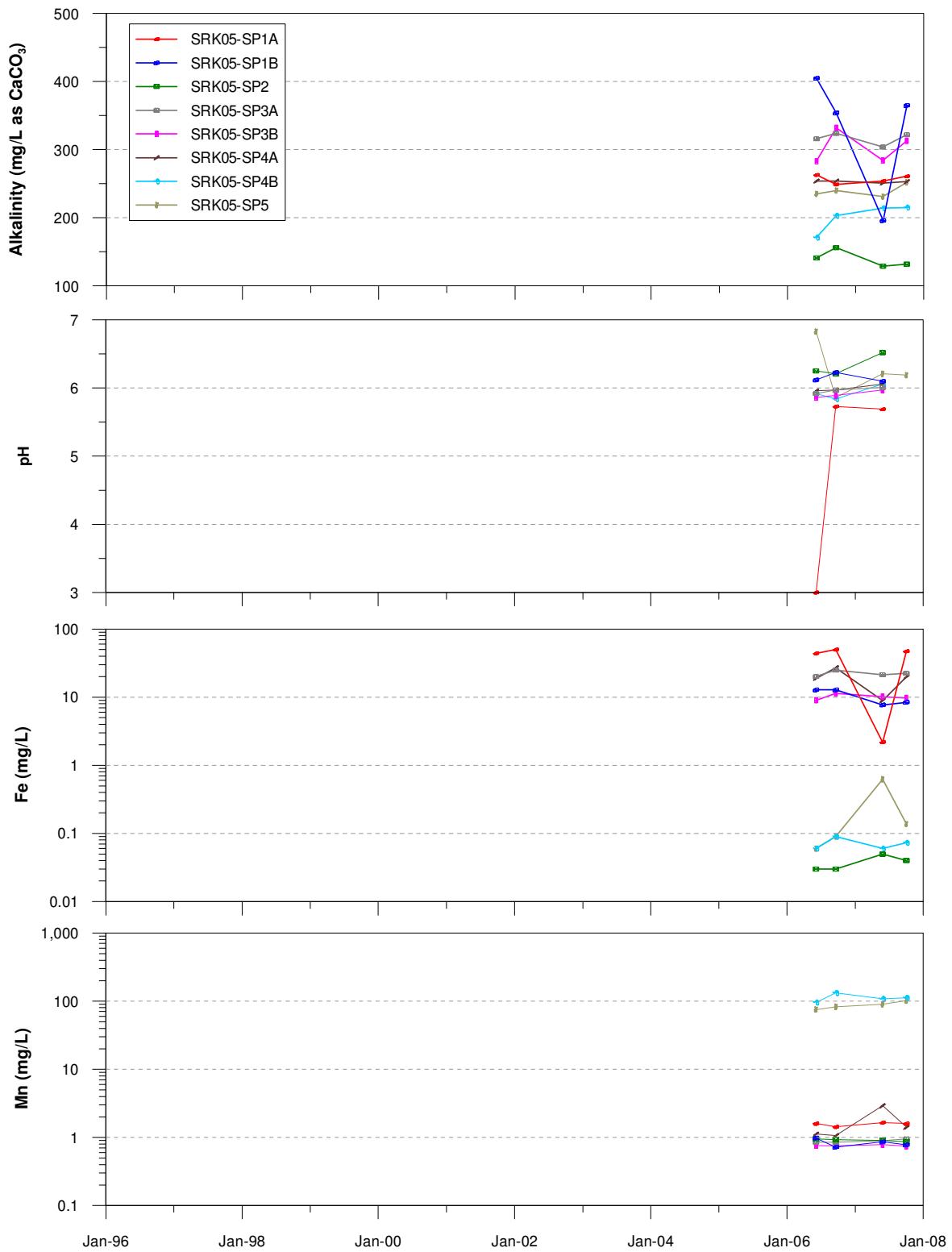
STATION GROUP	DATE	SE-D mg/L	SN-D mg/L	SO4 mg/L	SR-D mg/L	TEMP-F °C	TI-D mg/L	TL-D mg/L	U-D mg/L	V-D mg/L	ZN-D mg/L
BH6	28-May-07	< 0.001	< 0.0005	56.7		5.5	< 0.01	< 0.0002	0.00062	< 0.03	3.92
BH6	02-Oct-07	< 0.001	< 0.0005	88.1		2.4	< 0.01	< 0.0002	0.00082	< 0.001	3.79
P05-04	18-Sep-06	< 0.001	< 0.0005	70.8		3	< 0.01	< 0.0002	0.00077	< 0.03	2
P05-04	28-May-07	< 0.001	< 0.0005	48.1		5.2	< 0.01	< 0.0002	0.00078	< 0.03	1.64
P05-04	02-Oct-07	< 0.001	< 0.0005	63.4		2.2	< 0.01	< 0.0002	0.00101	< 0.001	1.57
	Total # samples	17	13	17		17	17	17	17	17	17
	MEAN	0.0005	0.0003	101.02		4.02	0.013	0.0001	0.0007	0.013	2.474
	Median	0.0005	0.00025	88.1		4.0	0.005	0.0001	0.00062	0.015	1.94
	STD	0.0001	0.0000	63.75		1.46	0.016	0.0000	0.00047	0.0088	1.8204
	MINIMUM	< 0.001	< 0.0005	41.4		1.4	< 0.01	< 0.0002	< 0.0002	< 0.001	0.615
	MAXIMUM	< 0.002	< 0.0005	261		7.1	< 0.1	< 0.0004	0.00162	< 0.06	7.66
	5th Percentile	0.0005	0.00025	46.76		2.04	0.005	1E-04	1E-04	0.0005	0.88
	25th Percentile	0.0005	0.00025	54.9		3.00	0.005	1E-04	0.00025	0.015	1.37
	75th Percentile	0.0005	0.00025	121		5.00	0.005	1E-04	0.00098	0.015	2.430
	95th Percentile	0.0006	0.0003	244.2		5.98	0.050	0.0001	0.001428	0.030	5.9400

### B1.3: Groundwater Quality Temporal Trends



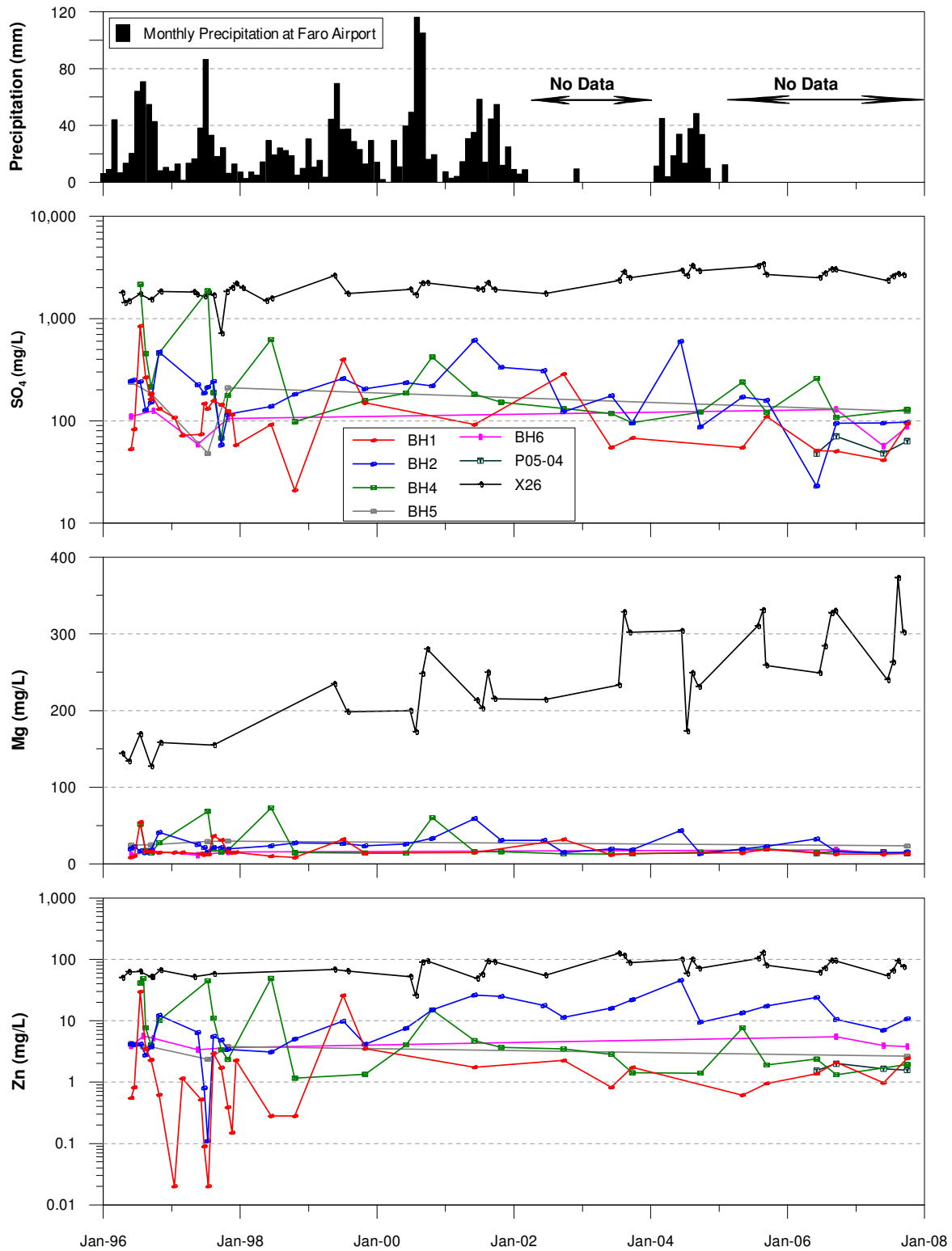
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in SRK Wells in S-Cluster Area.

### B1.3: Groundwater Quality Temporal Trends



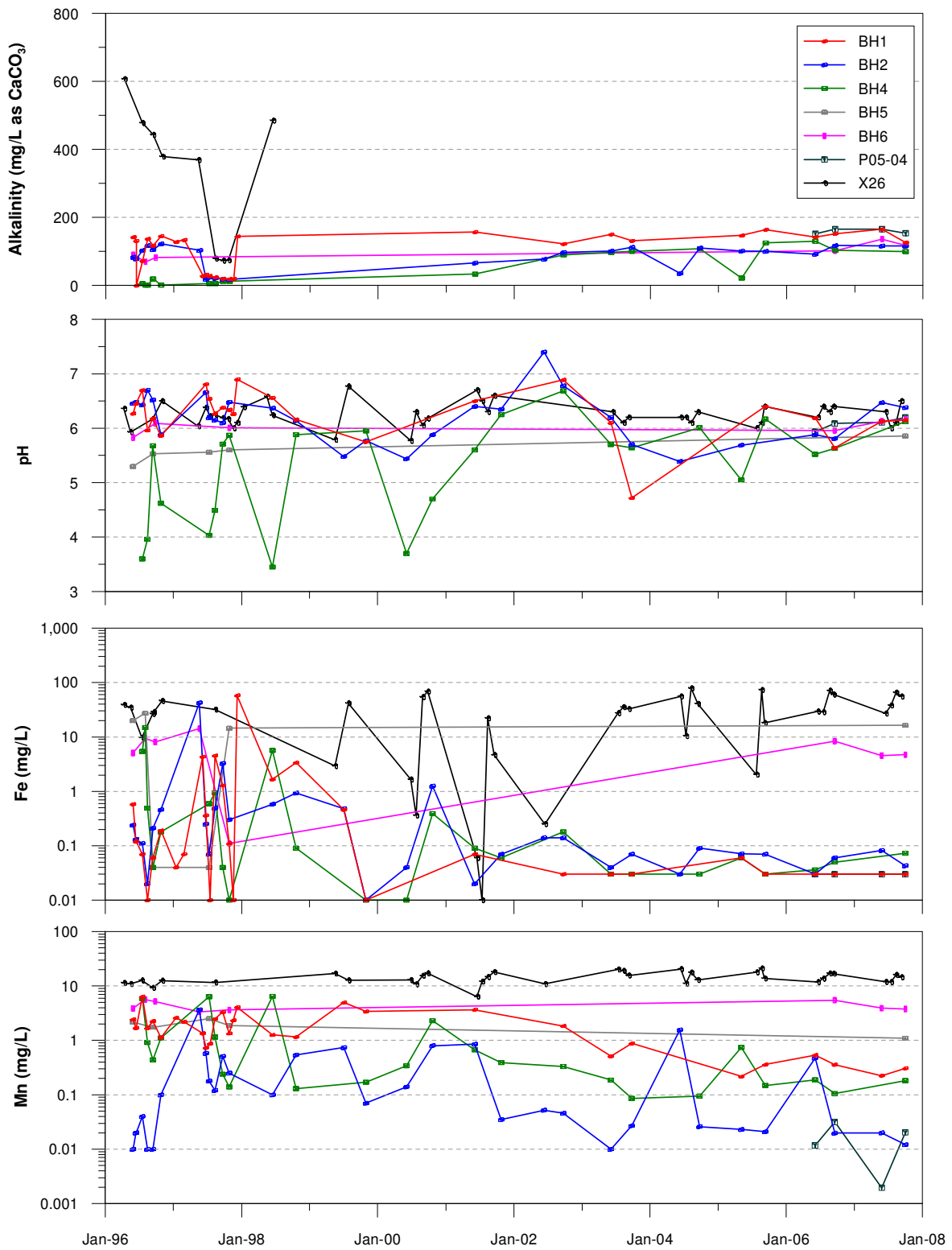
Water quality (alkalinity, pH, Fe and Mn) in SRK Wells in S-Cluster Area.

### B1.3: Groundwater Quality Temporal Trends



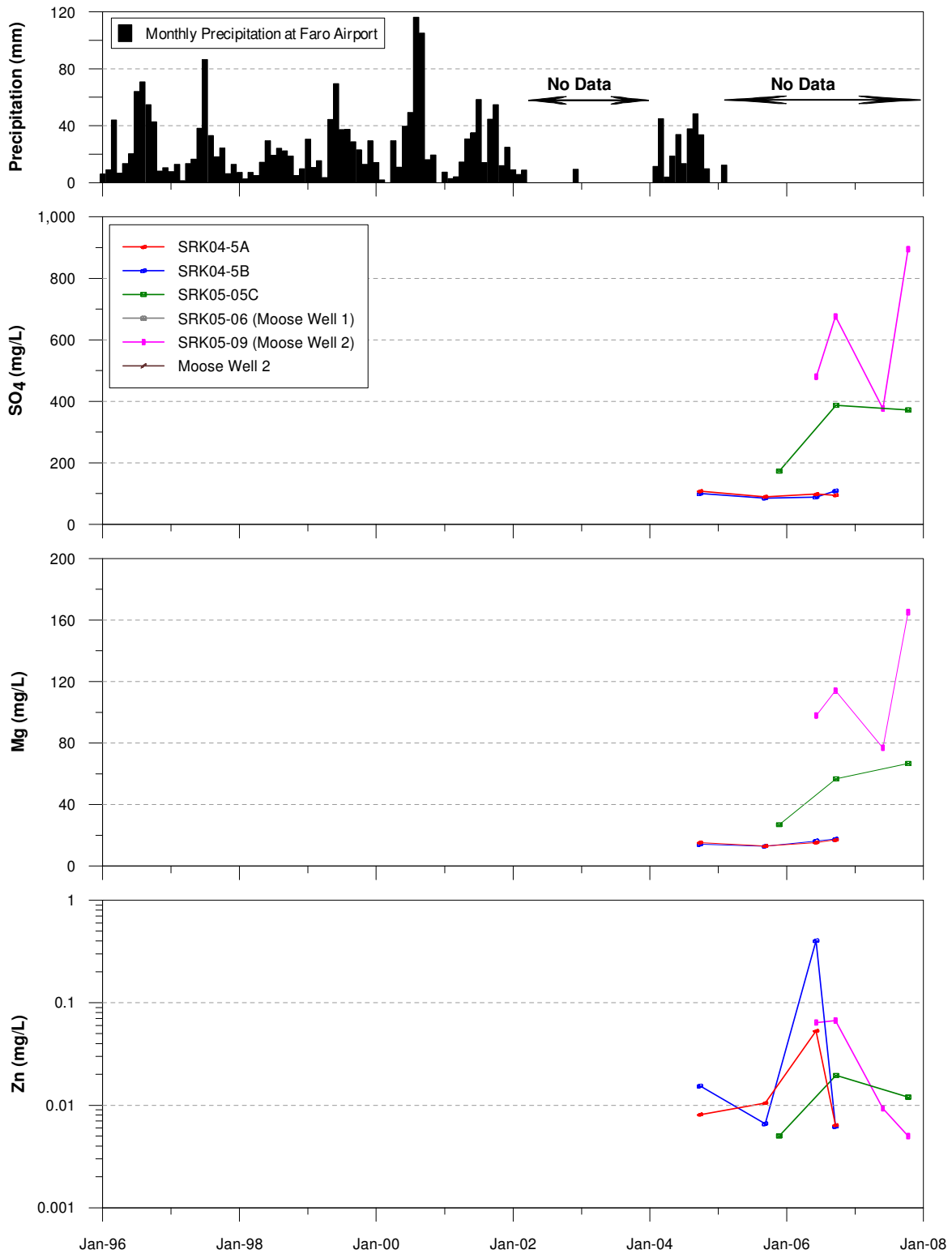
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in Zone 2 Outwash Area.

### B1.3: Groundwater Quality Temporal Trends



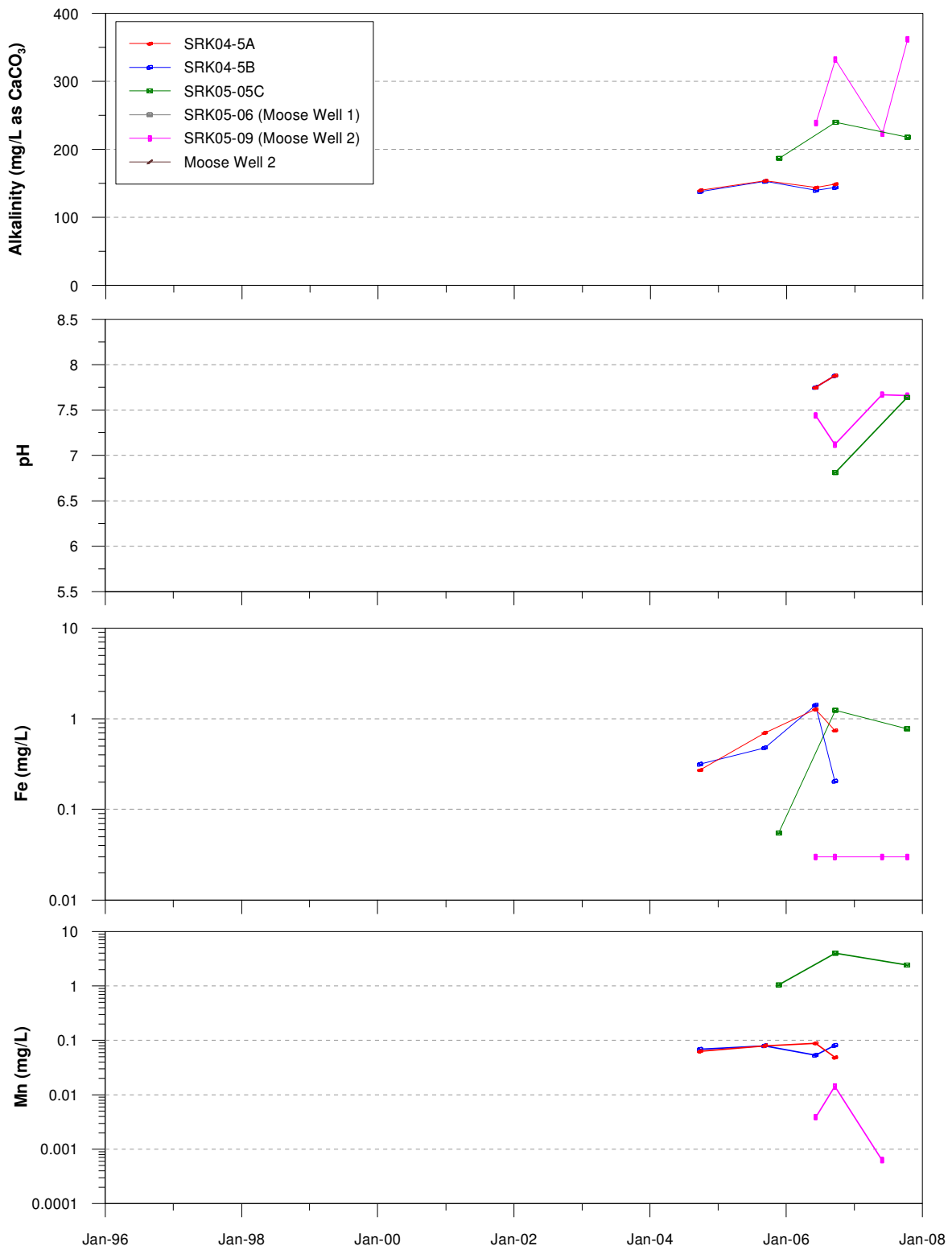
Water quality (alkalinity, pH, Fe and Mn) in Zone 2 Outwash Area.

### B1.3: Groundwater Quality Temporal Trends



Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in wells in Grum Creek drainage.

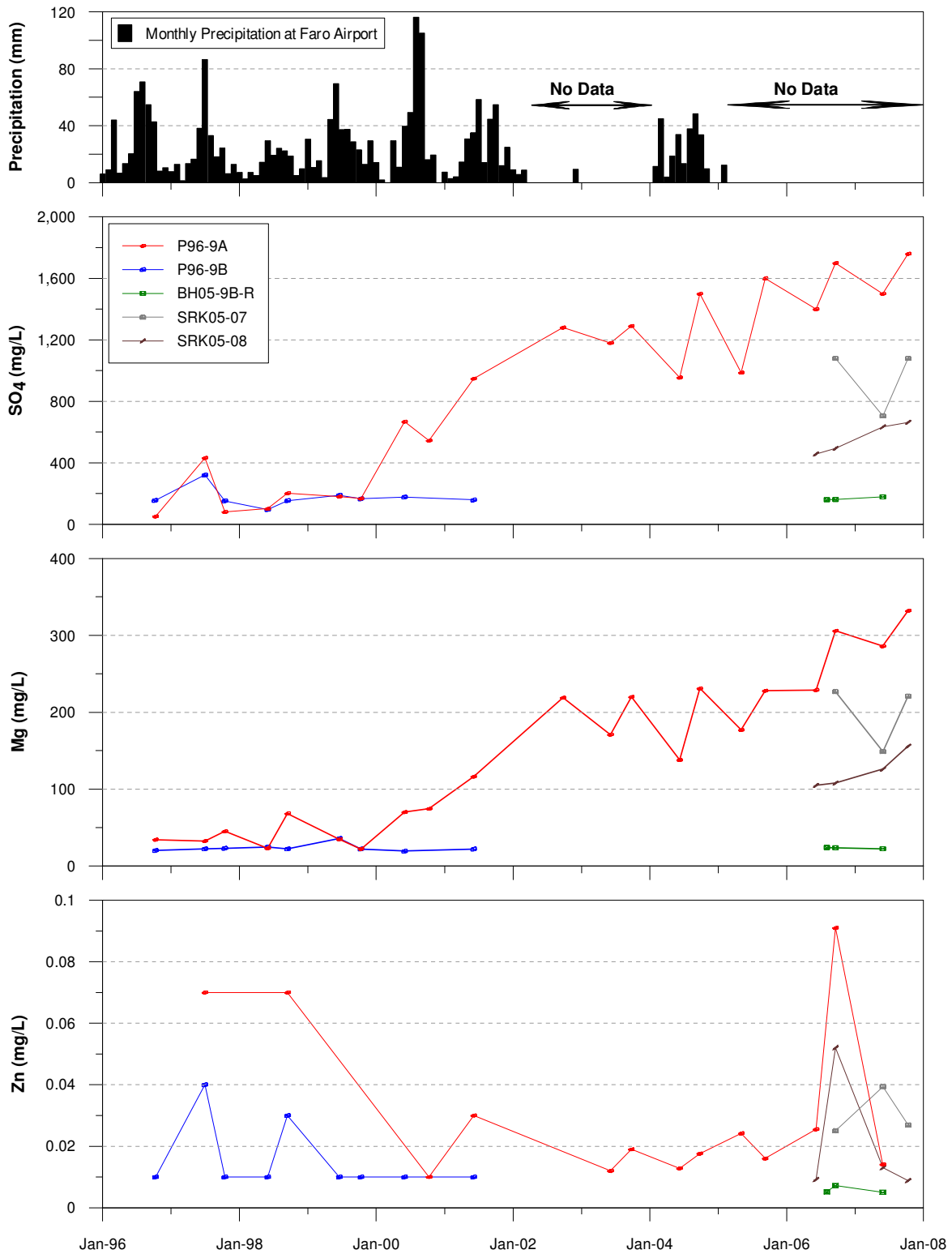
### B1.3: Groundwater Quality Temporal Trends



Water quality (alkalinity, pH, Fe and Mn) in wells in Grum Creek drainage.

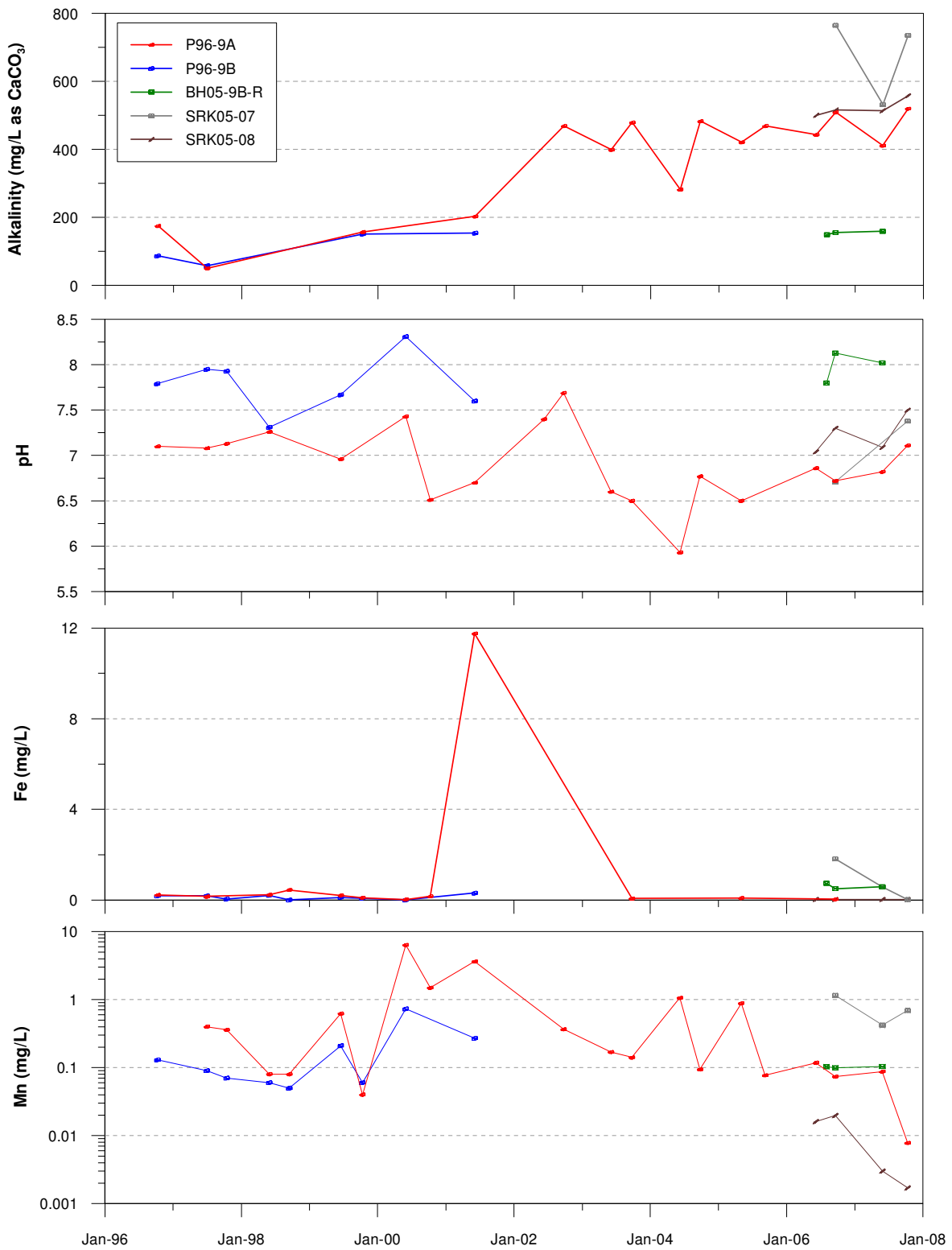


### B1.3: Groundwater Quality Temporal Trends



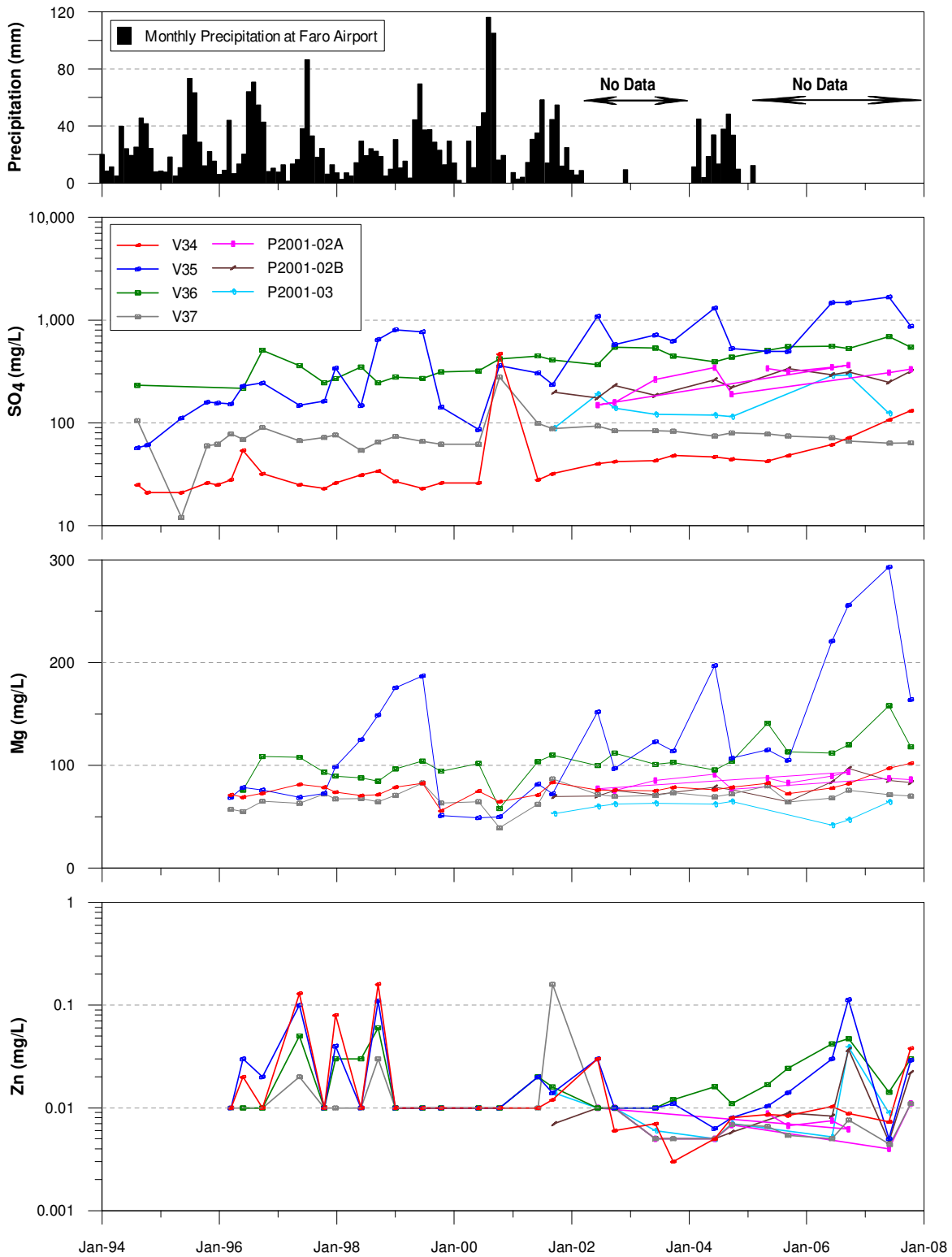
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in wells located west of Grum Creek.

### B1.3: Groundwater Quality Temporal Trends



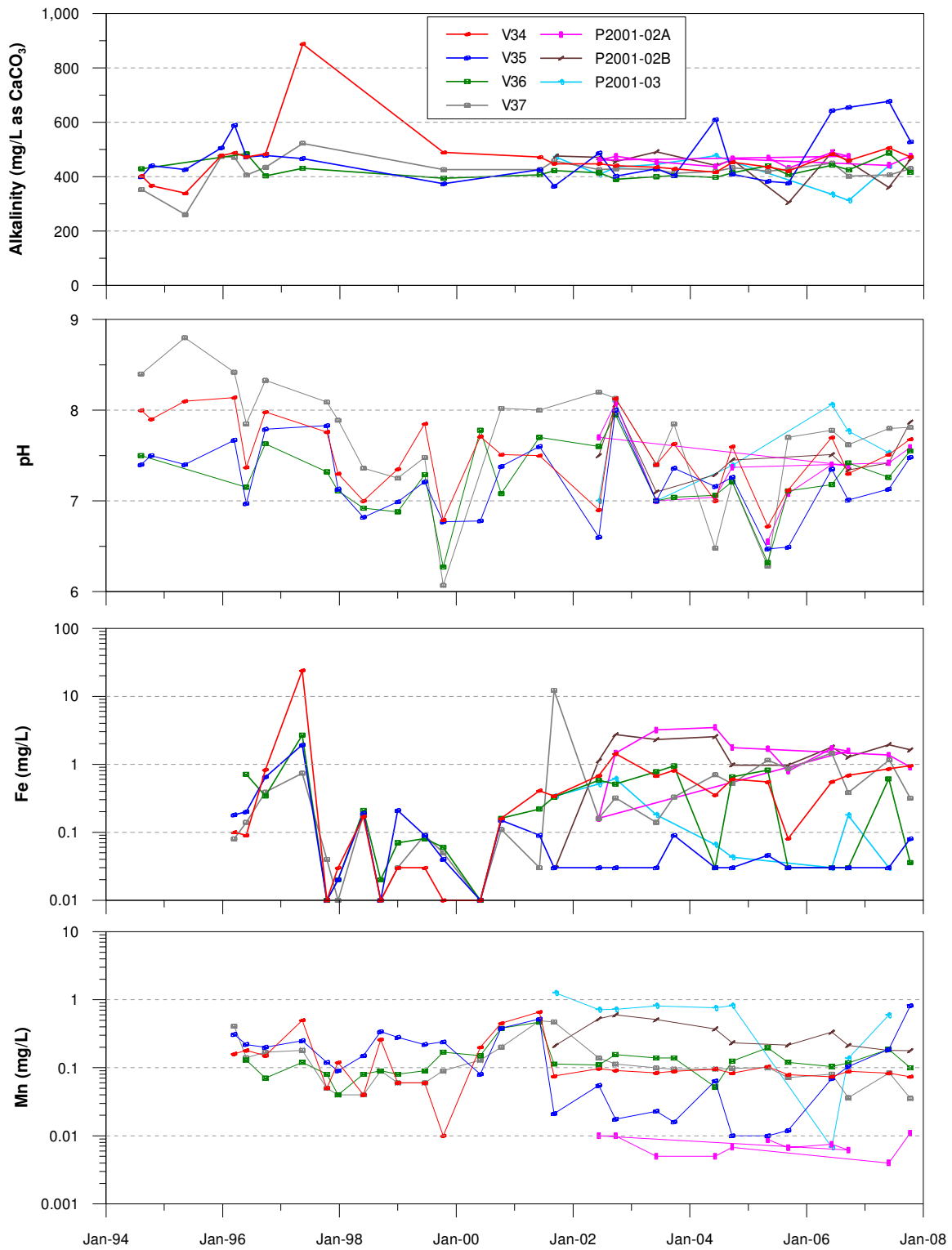
Water quality (alkalinity, pH, Fe and Mn) in wells located west of Grum Creek.

### B1.3: Groundwater Quality Temporal Trends



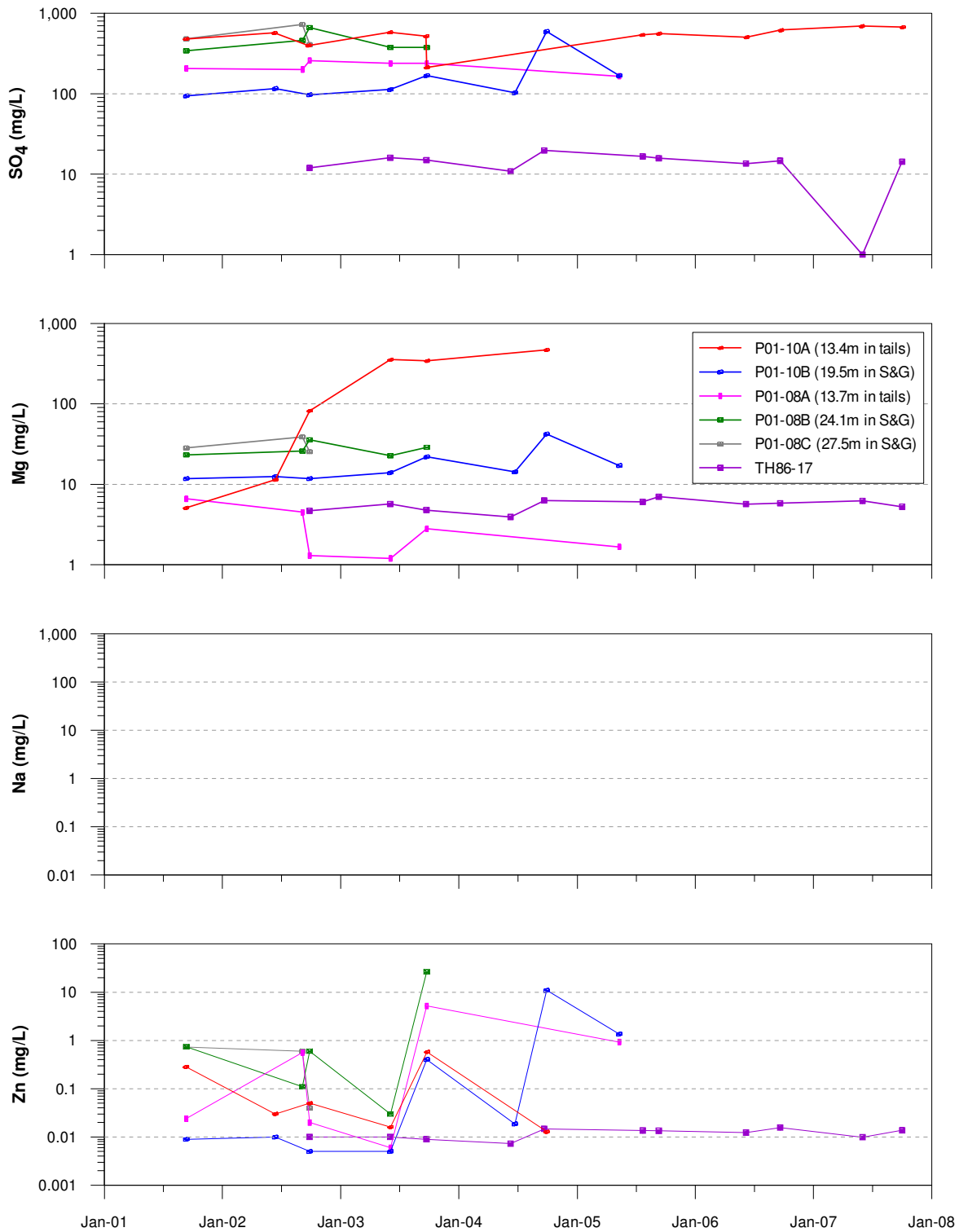
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in wells downgradient of Vangorda Rock Dump.

### B1.3: Groundwater Quality Temporal Trends



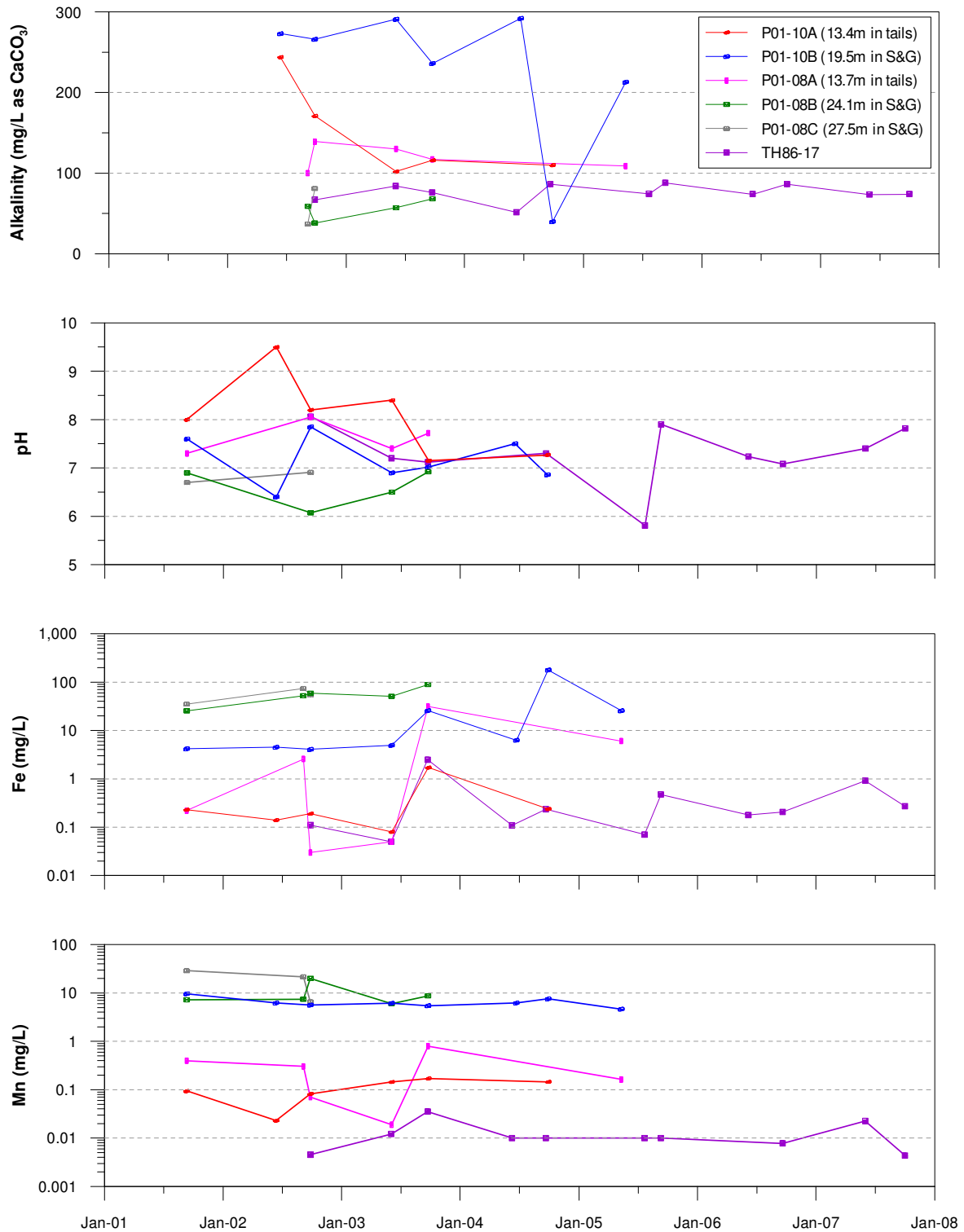
Water quality (alkalinity, pH, Fe and Mn) in wells downgradient of Vangorda Rock Dump.

### B1.3: Groundwater Quality Temporal Trends



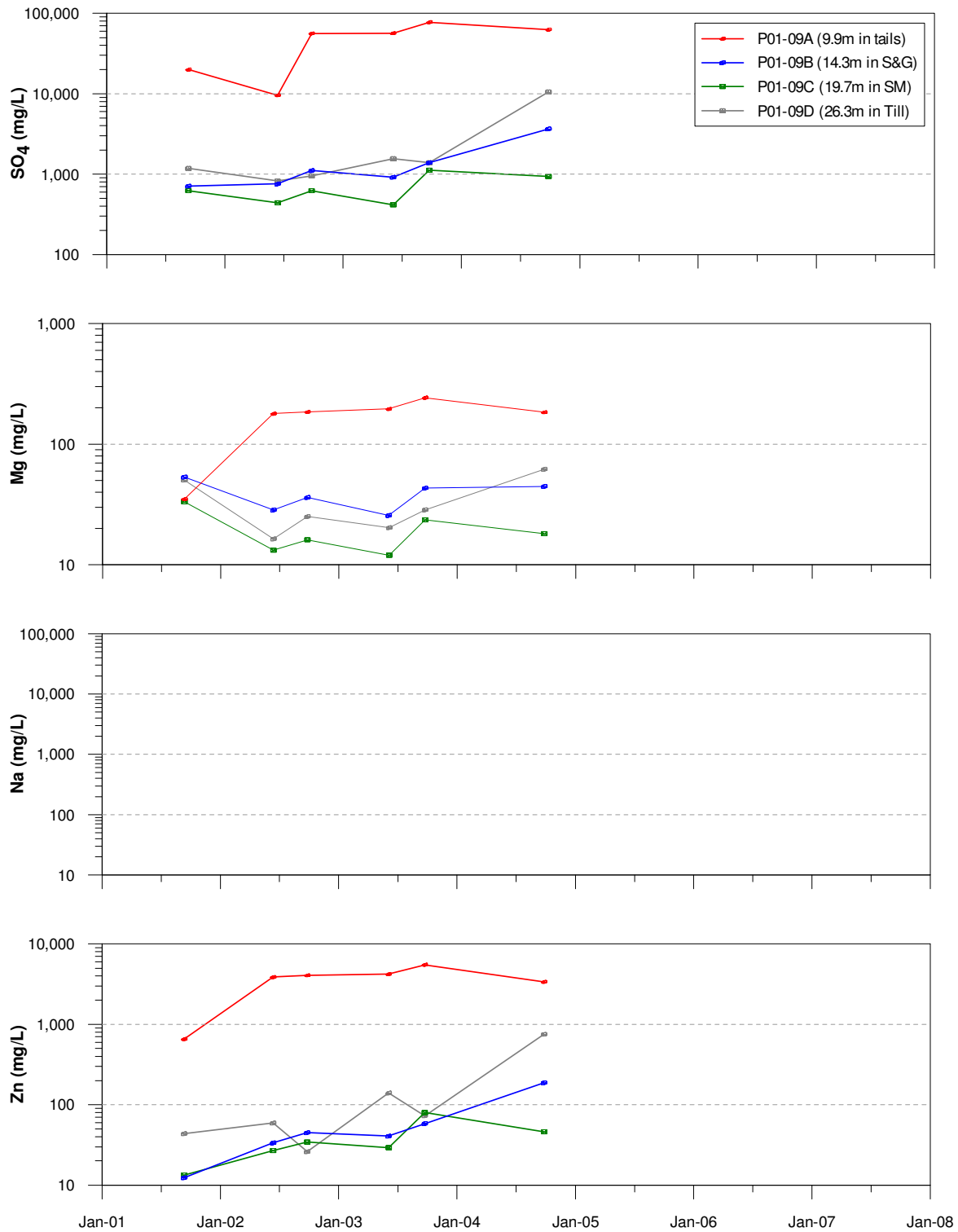
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in P01-10, P01-08 and TH86-17 (Original Impoundment).

### B1.3: Groundwater Quality Temporal Trends



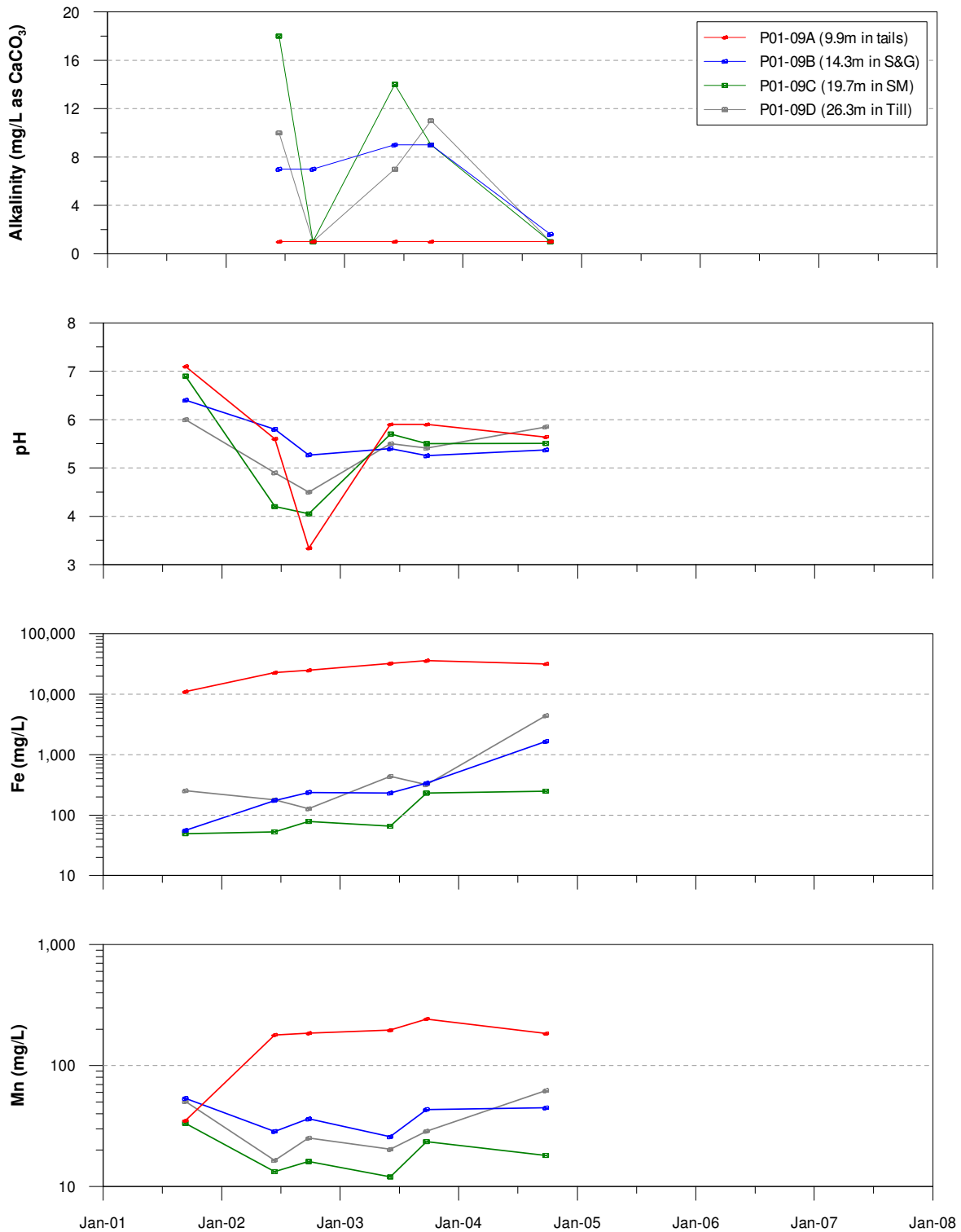
Water quality (alkalinity, pH, Fe and Mn) in P01-10, P01-08 and TH86-17 (Original Impoundment).

### B1.3: Groundwater Quality Temporal Trends



Water quality (SO<sub>4</sub>, Mg, Na and Zn) in P01-09 (Second Impoundment).

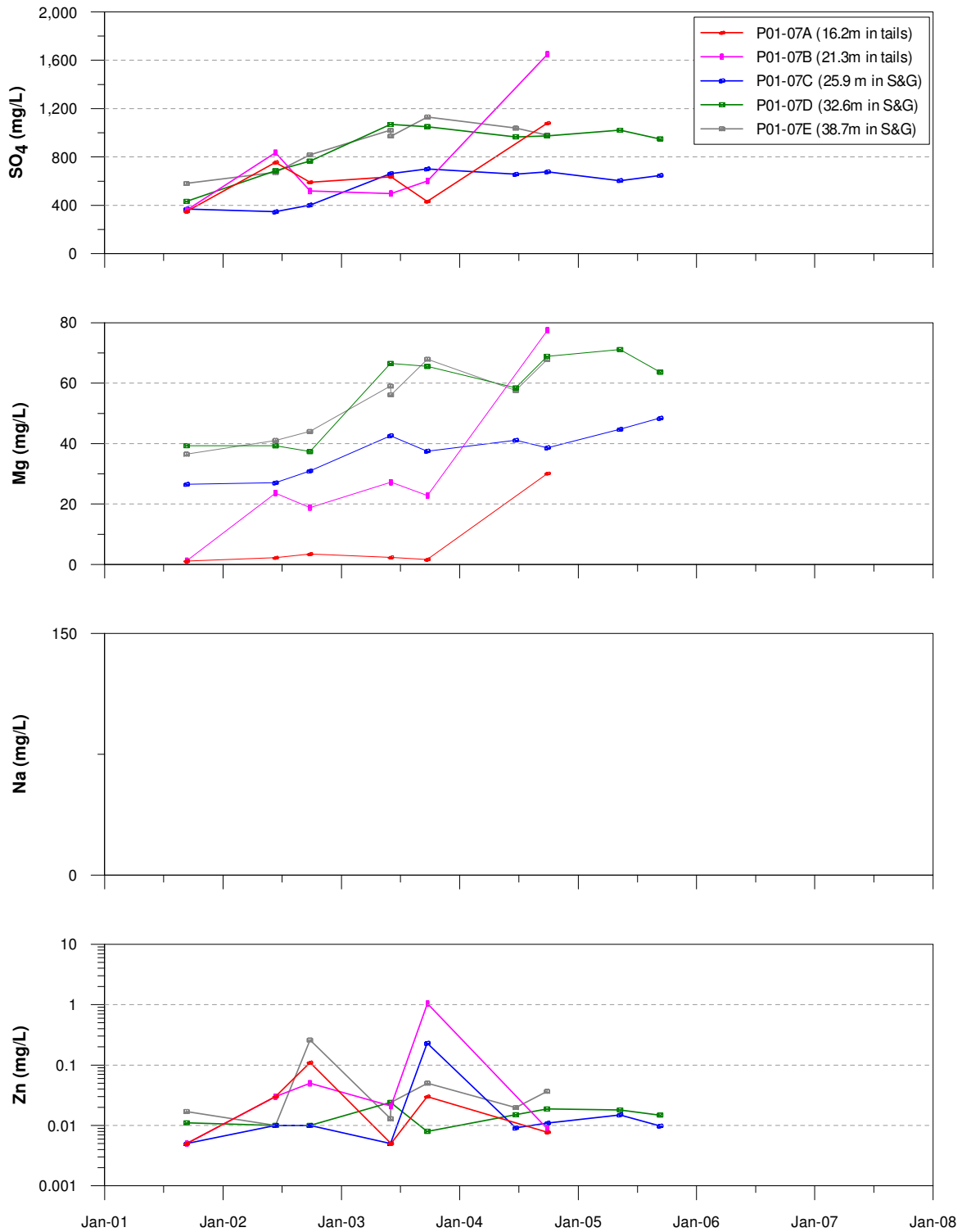
### B1.3: Groundwater Quality Temporal Trends



Water quality (alkalinity, pH, Fe and Mn) in P01-09 (Second Impoundment).

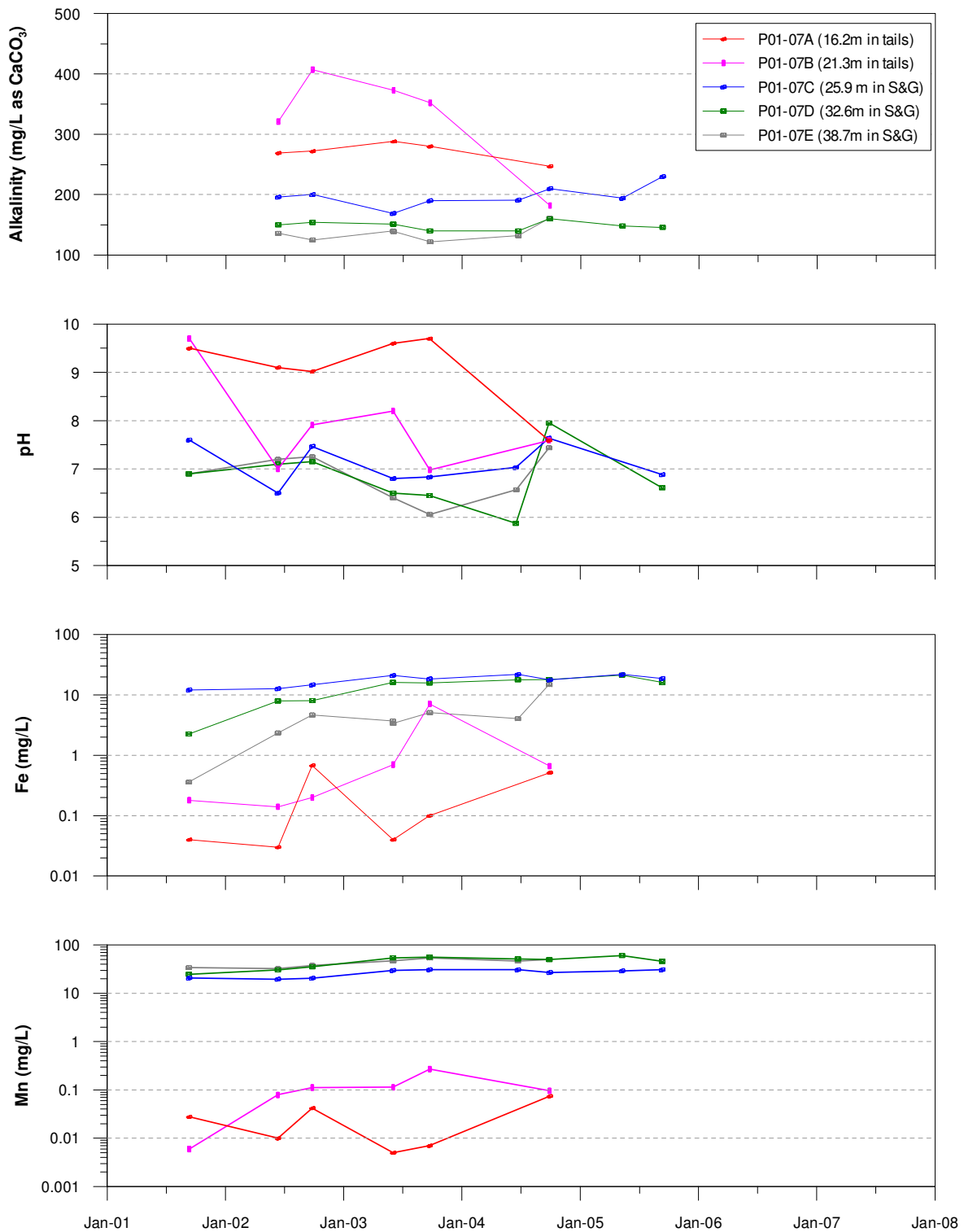


### B1.3: Groundwater Quality Temporal Trends



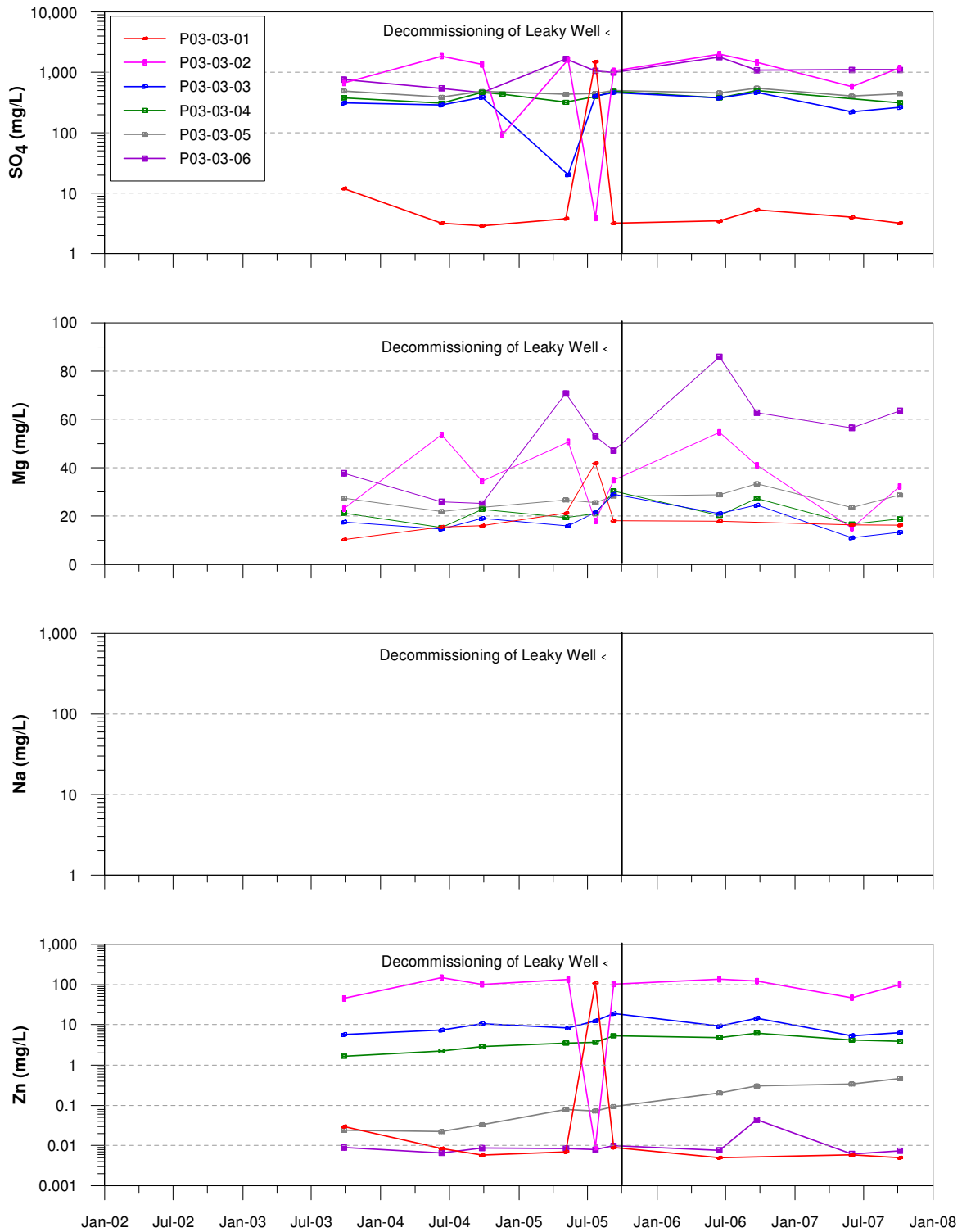
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in P01-07 (Second Impoundment).

### B1.3: Groundwater Quality Temporal Trends



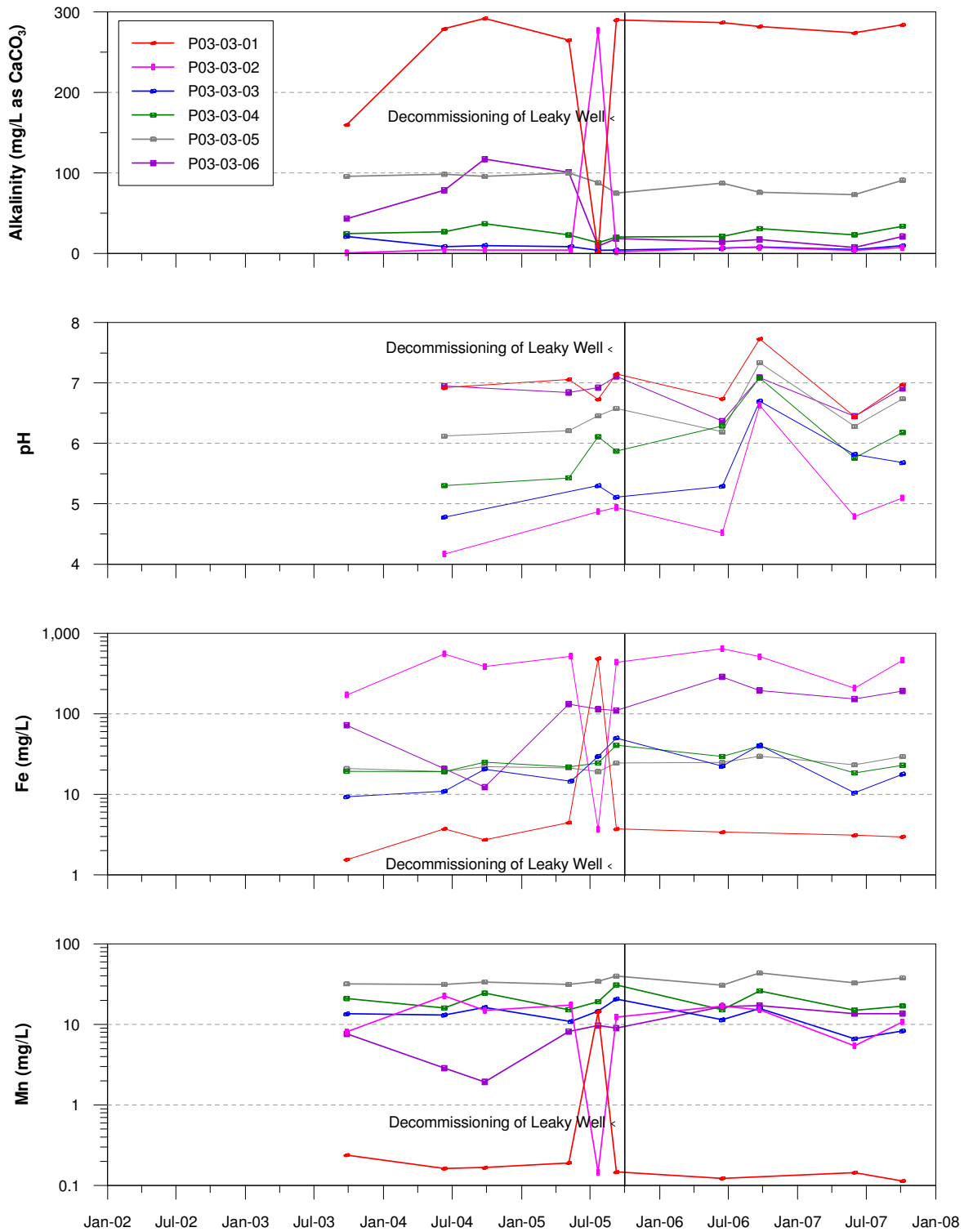
Water quality (alkalinity, pH, Fe and Mn) in P01-07 (Second Impoundment).

### B1.3: Groundwater Quality Temporal Trends



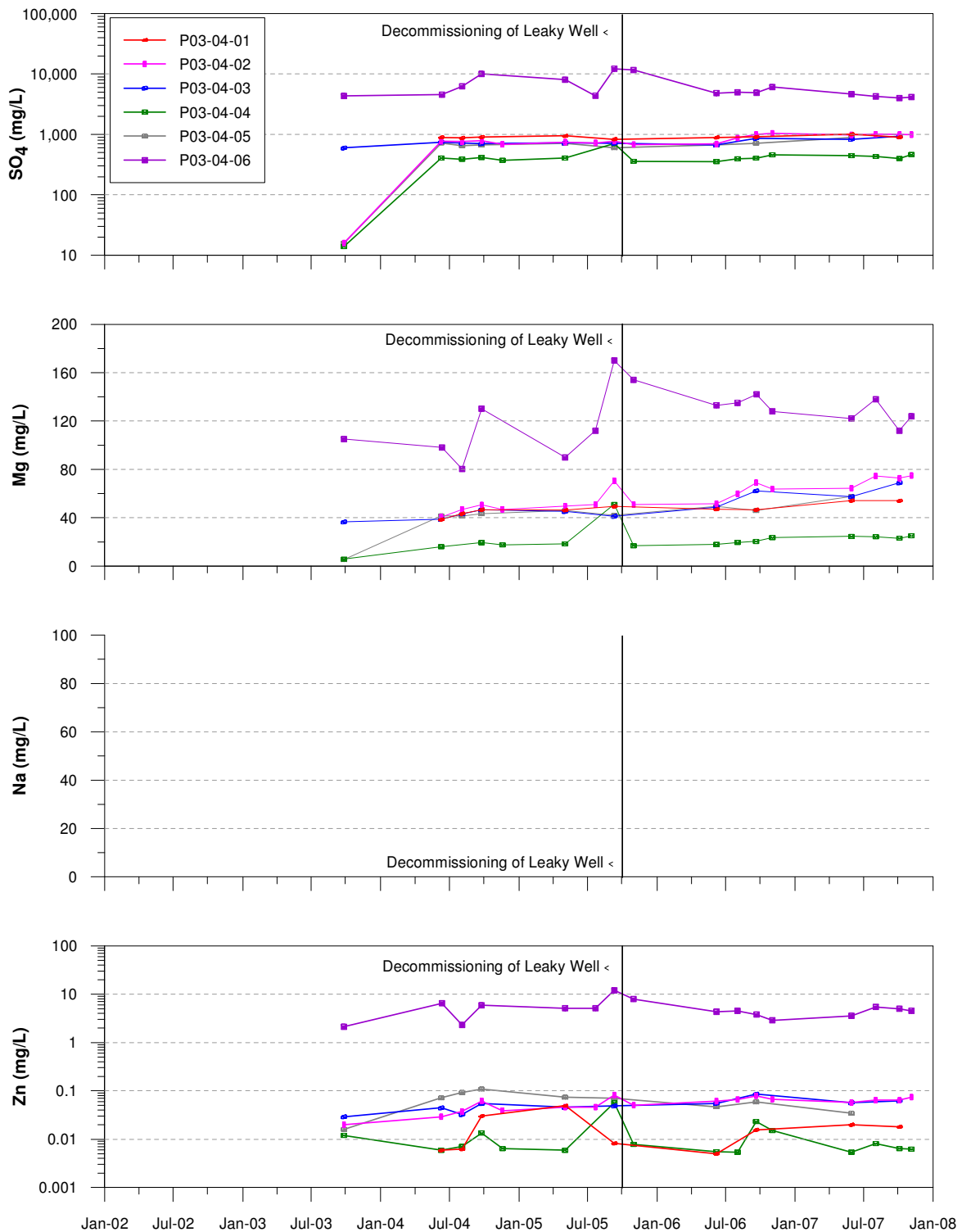
Water quality ( $\text{SO}_4$ , Mg, Na and Zn) in P03-03 (aquifer only).

### B1.3: Groundwater Quality Temporal Trends



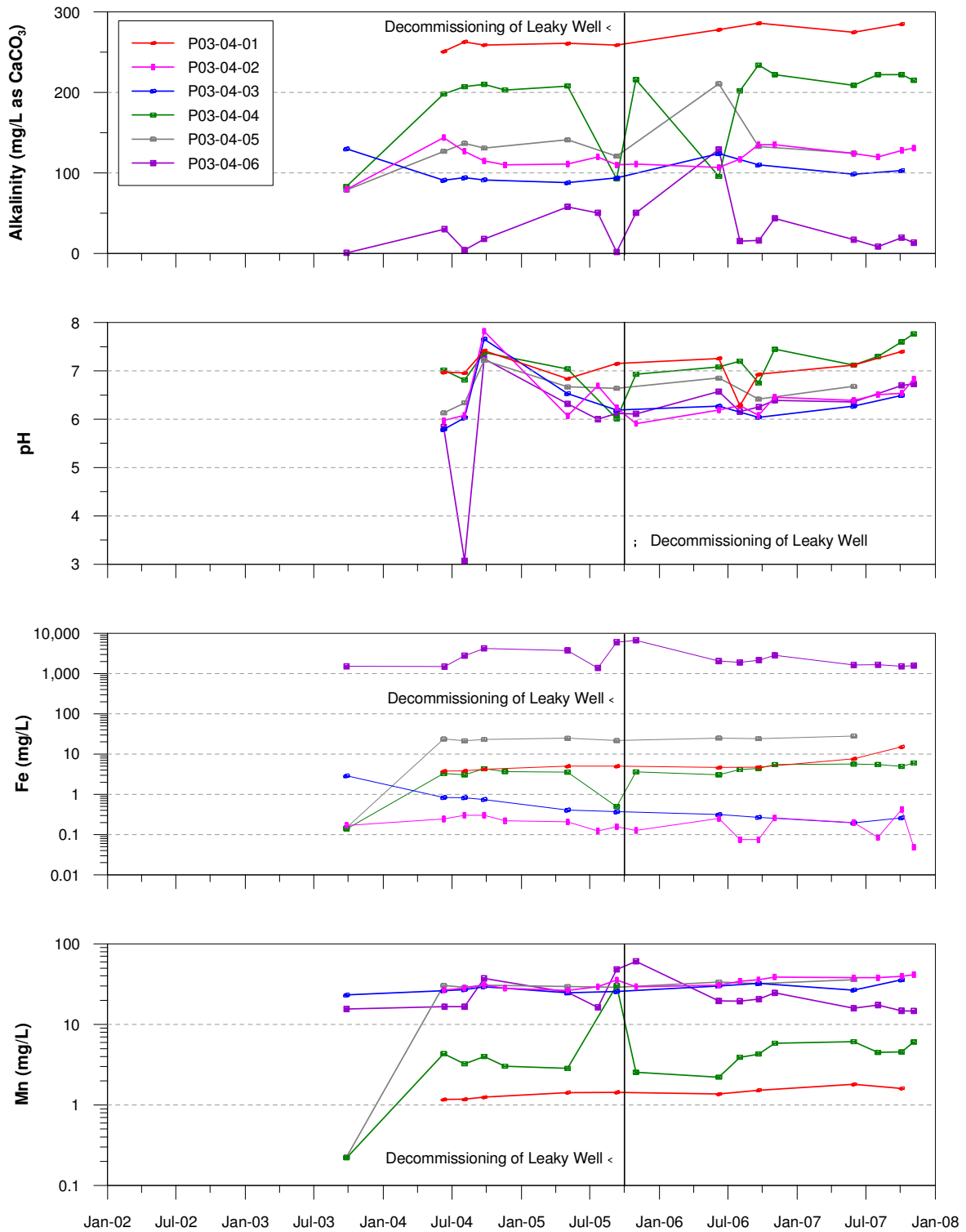
Water quality (alkalinity, pH, Fe and Mn) in P03-03 (aquifer only).

### B1.3: Groundwater Quality Temporal Trends



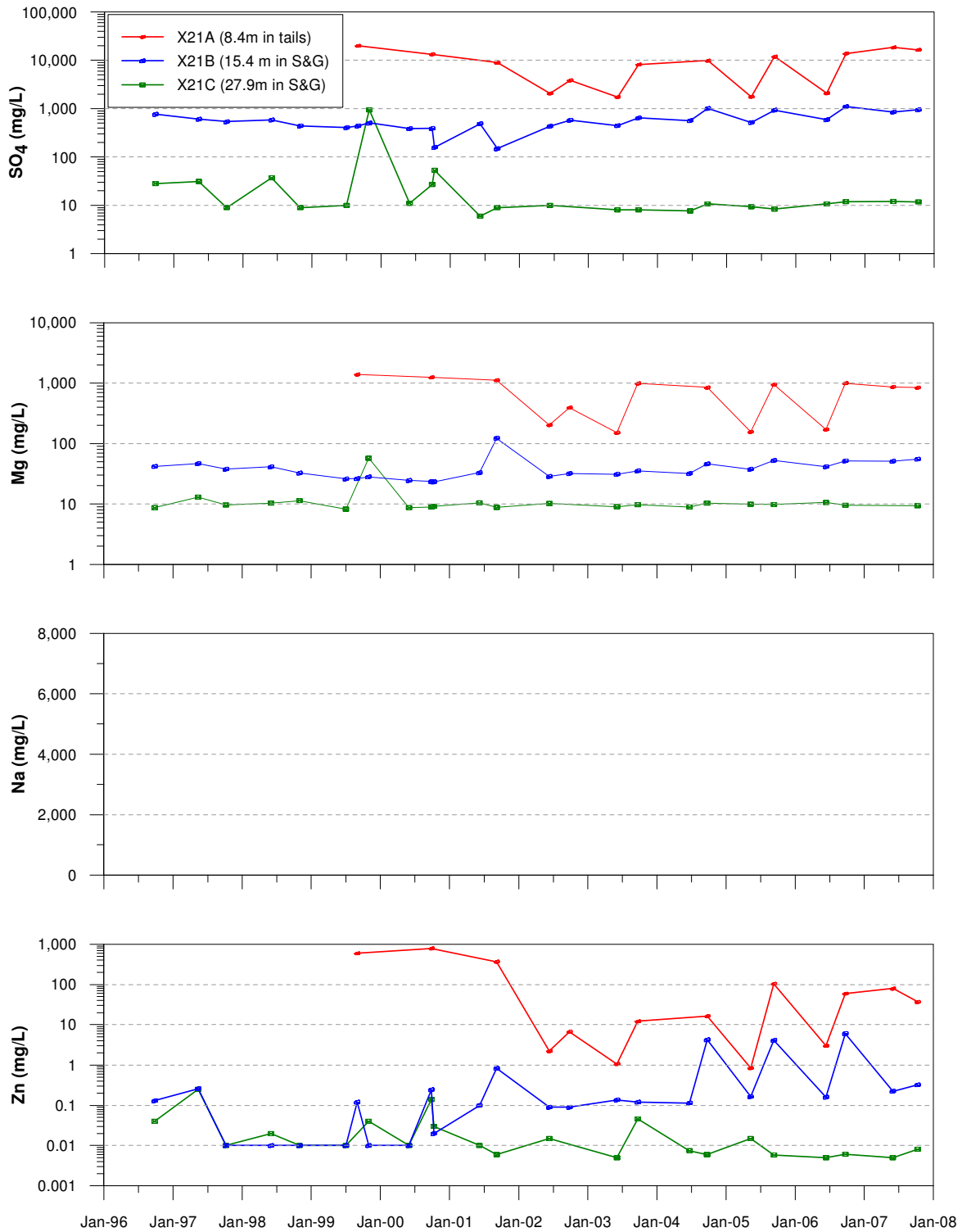
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in P03-04 (aquifer only).

### B1.3: Groundwater Quality Temporal Trends



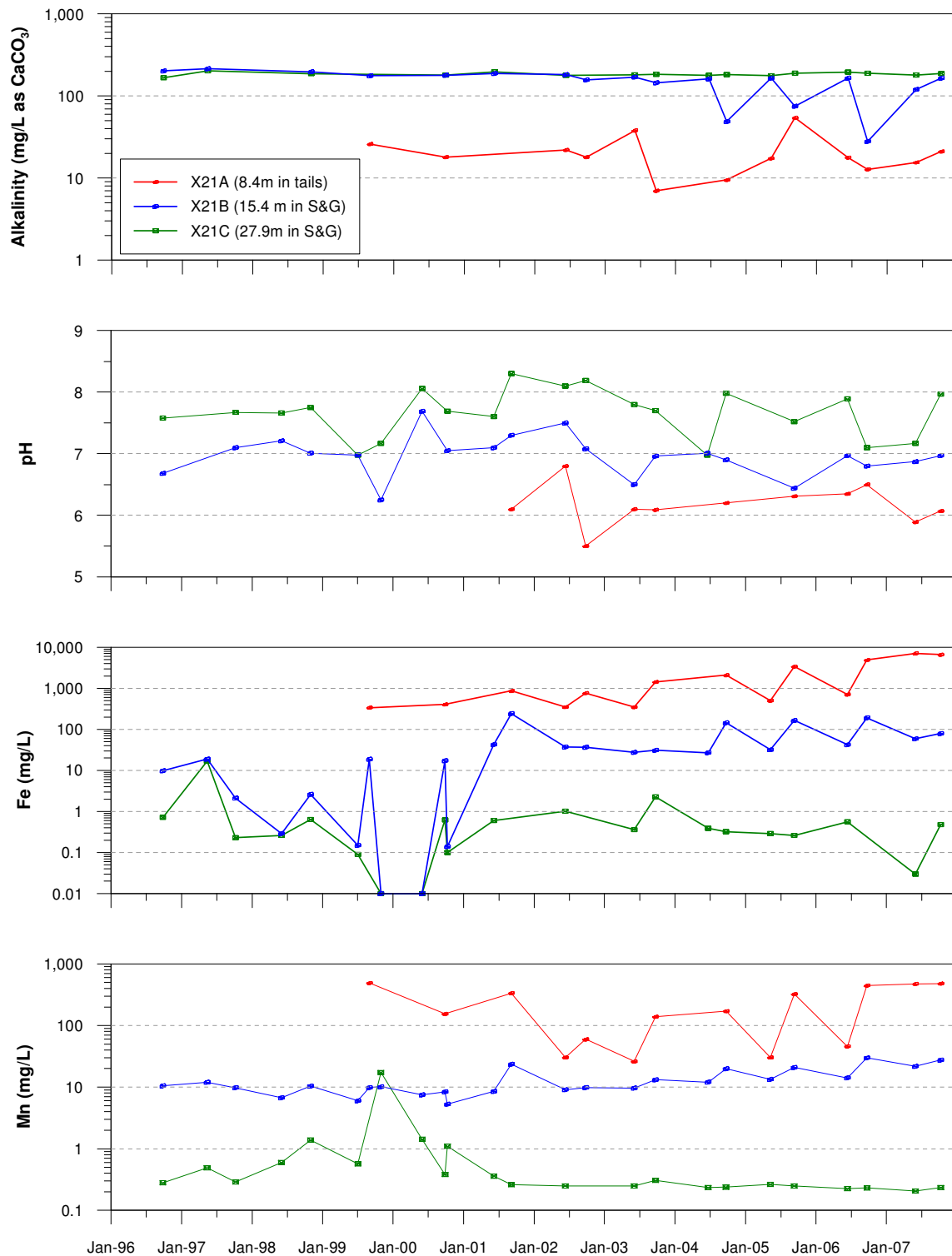
Water quality (alkalinity, pH, Fe and Mn) in P03-04 (aquifer only).

### B1.3: Groundwater Quality Temporal Trends



Water quality (SO<sub>4</sub>, Mg, Na and Zn) in X21(96) (Intermediate Impoundment).

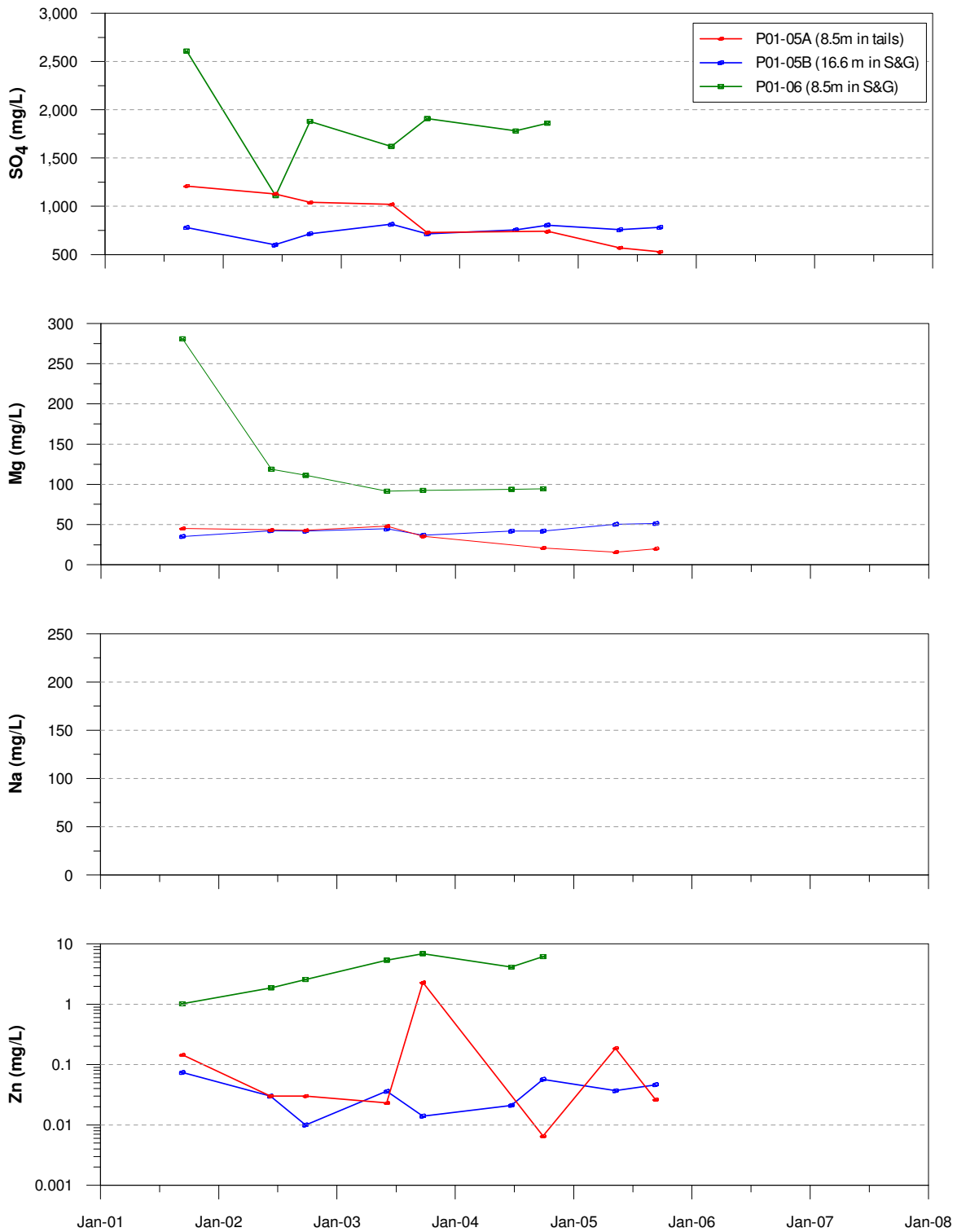
### B1.3: Groundwater Quality Temporal Trends



Water quality (Alkalinity, pH, Fe and Mn) in X21(96) (Intermediate Impoundment).

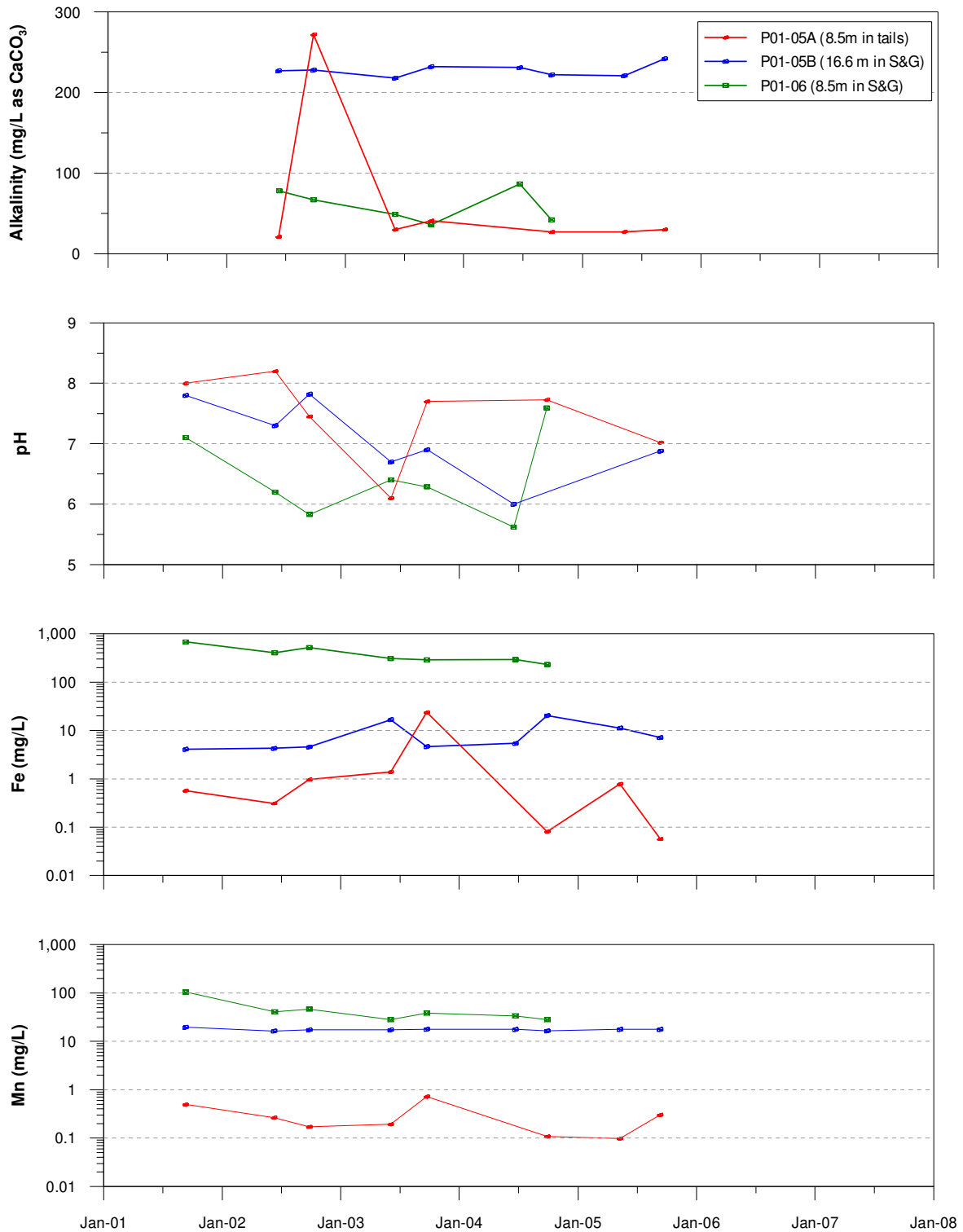


### B1.3: Groundwater Quality Temporal Trends



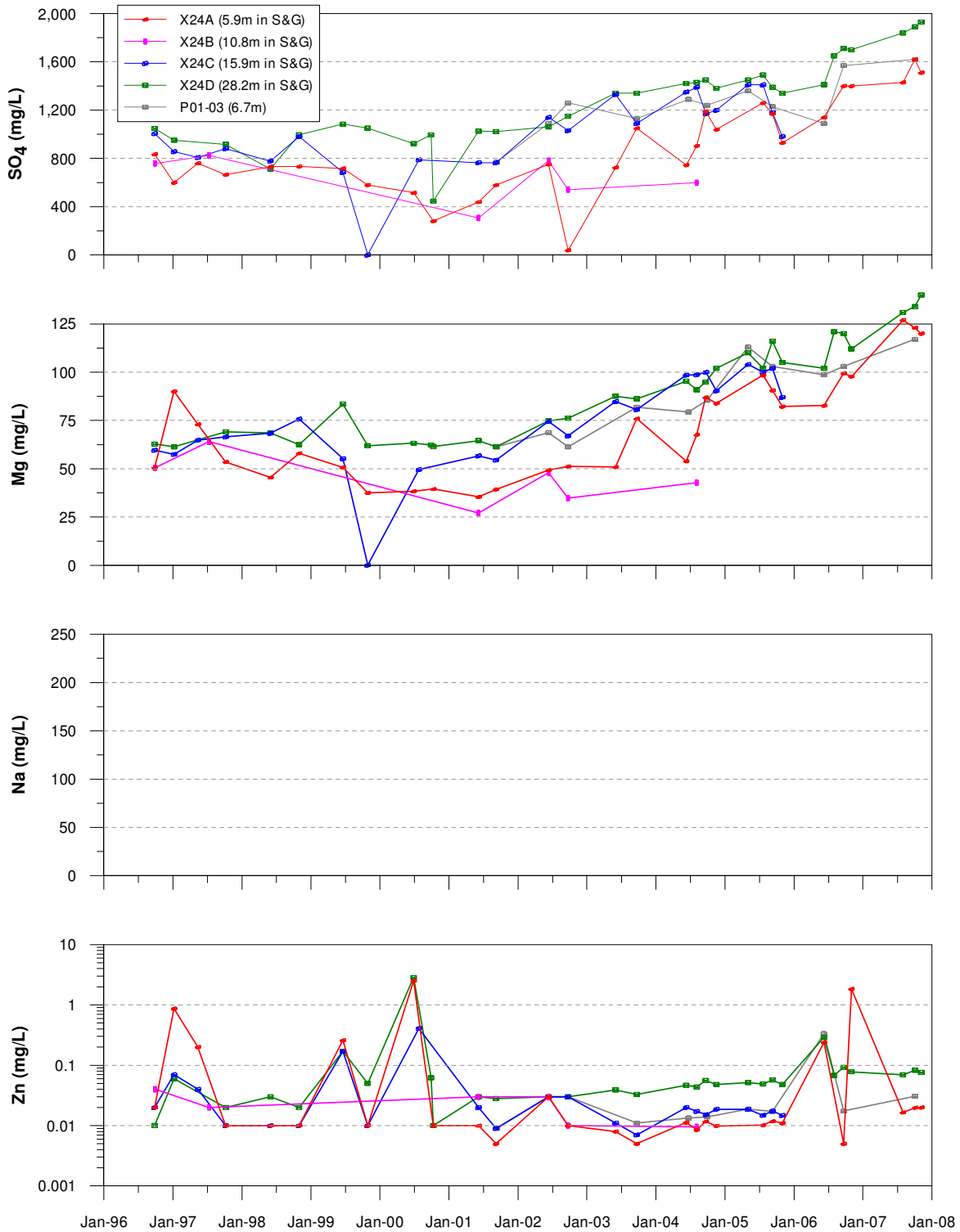
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in P01-05 and P01-06 (Intermediate Impoundment).

### B1.3: Groundwater Quality Temporal Trends



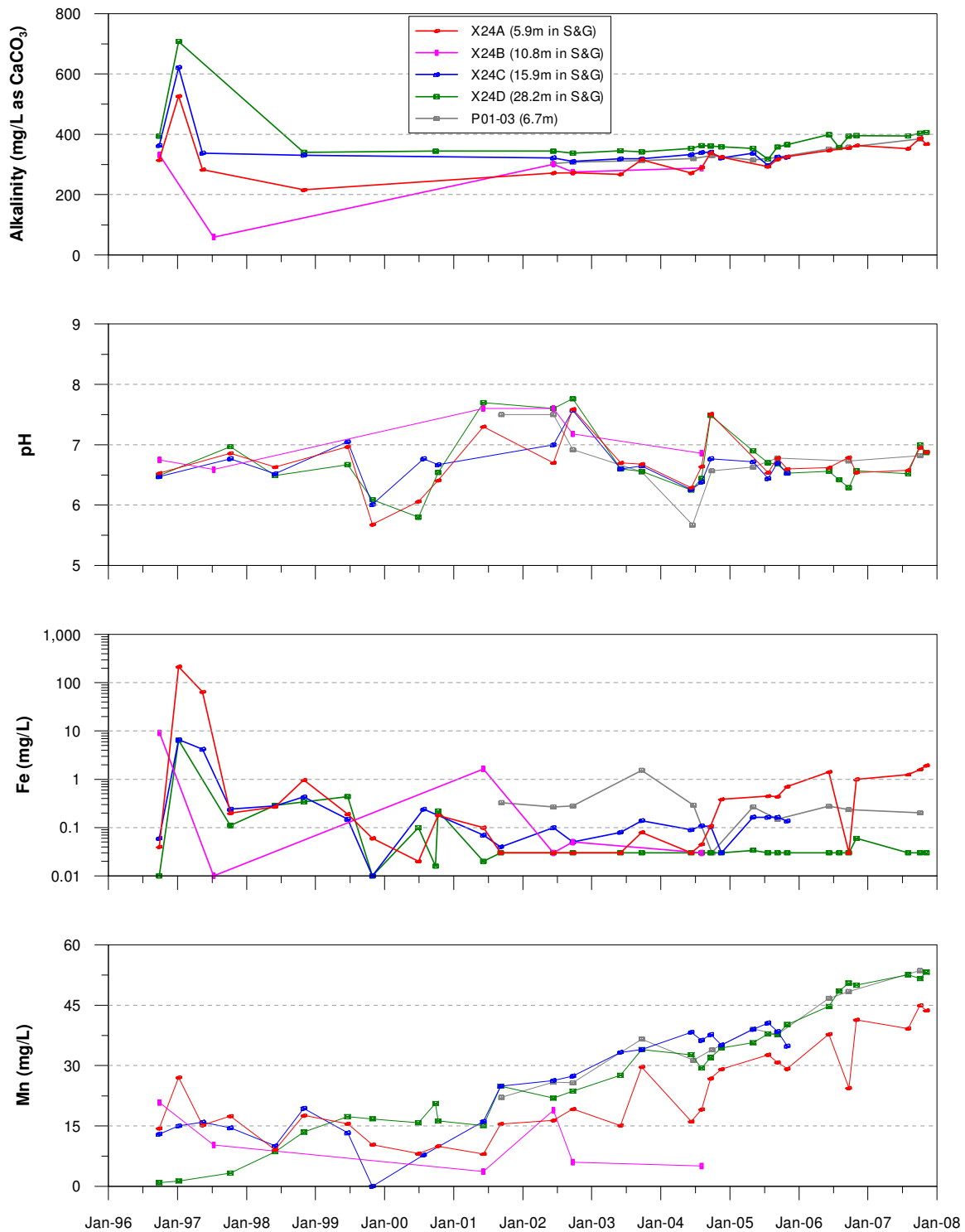
Water quality (alkalinity, pH, Fe and Mn) in P01-05 and P01-06 (Intermediate Impoundment).

### B1.3: Groundwater Quality Temporal Trends



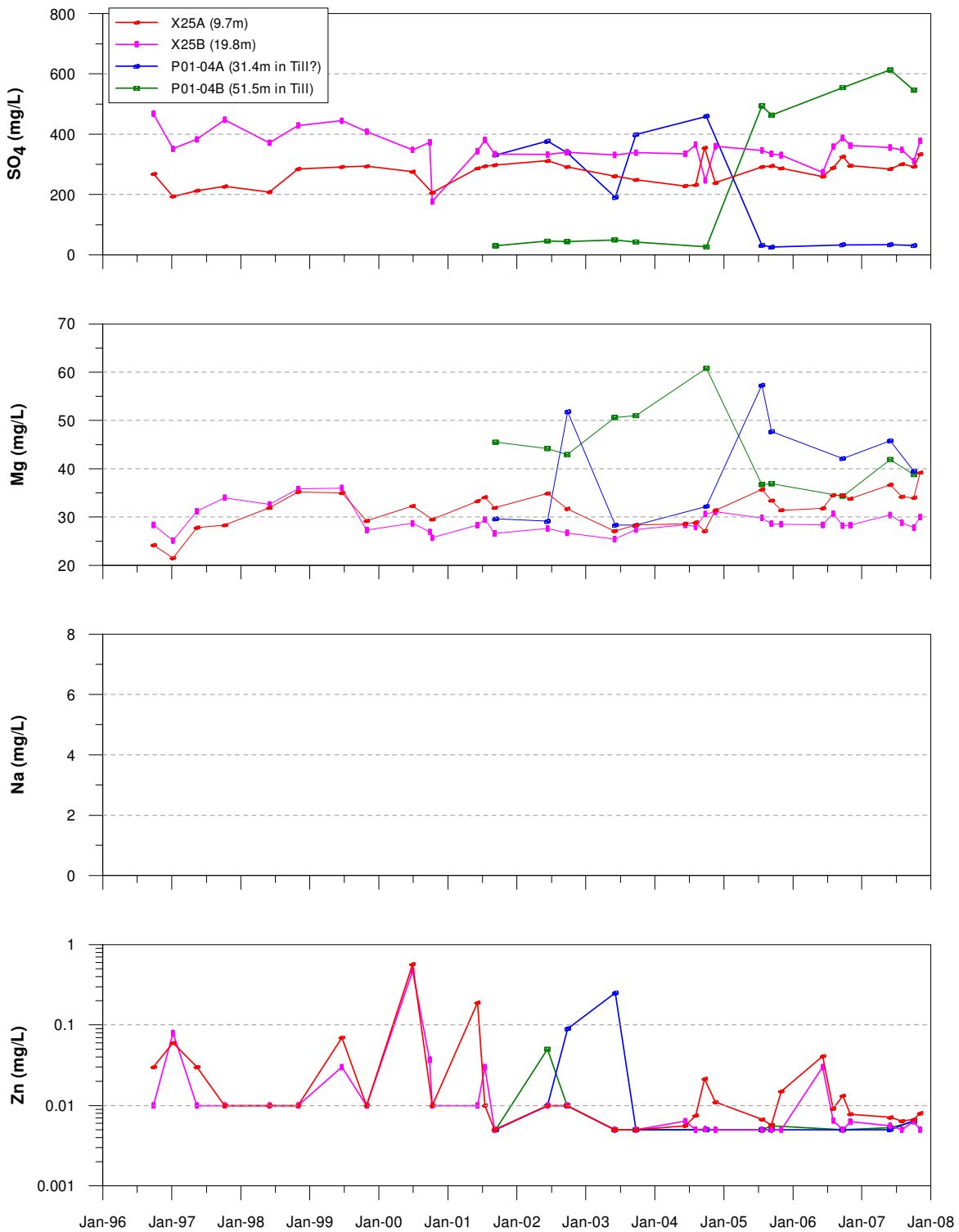
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in X24(96) and P01-03 (north side of Intermediate Dam).

### B1.3: Groundwater Quality Temporal Trends



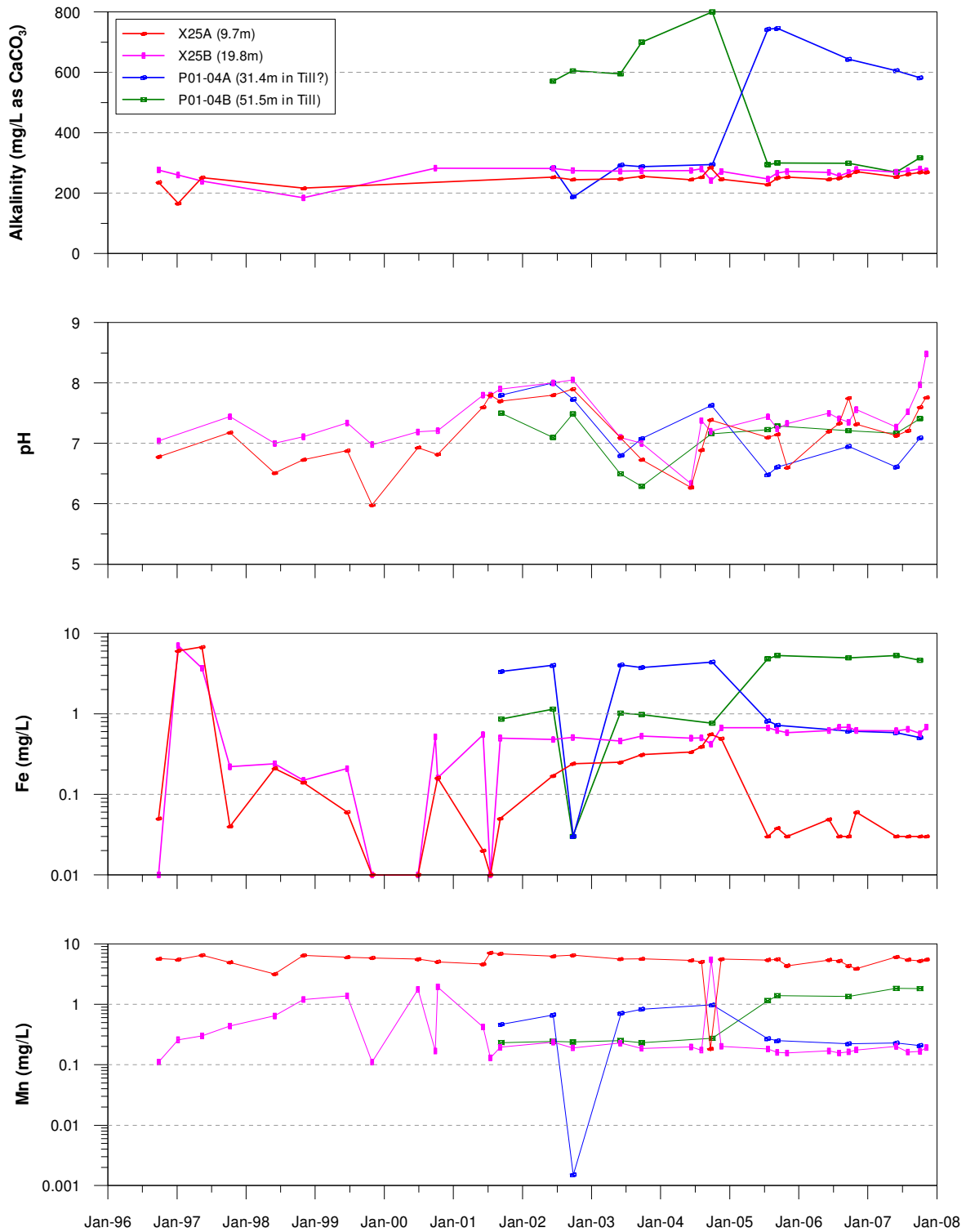
Water quality (alkalinity, pH, Fe and Mn) in X24(96) and P01-03 (north side of Intermediate Dam).

### B1.3: Groundwater Quality Temporal Trends



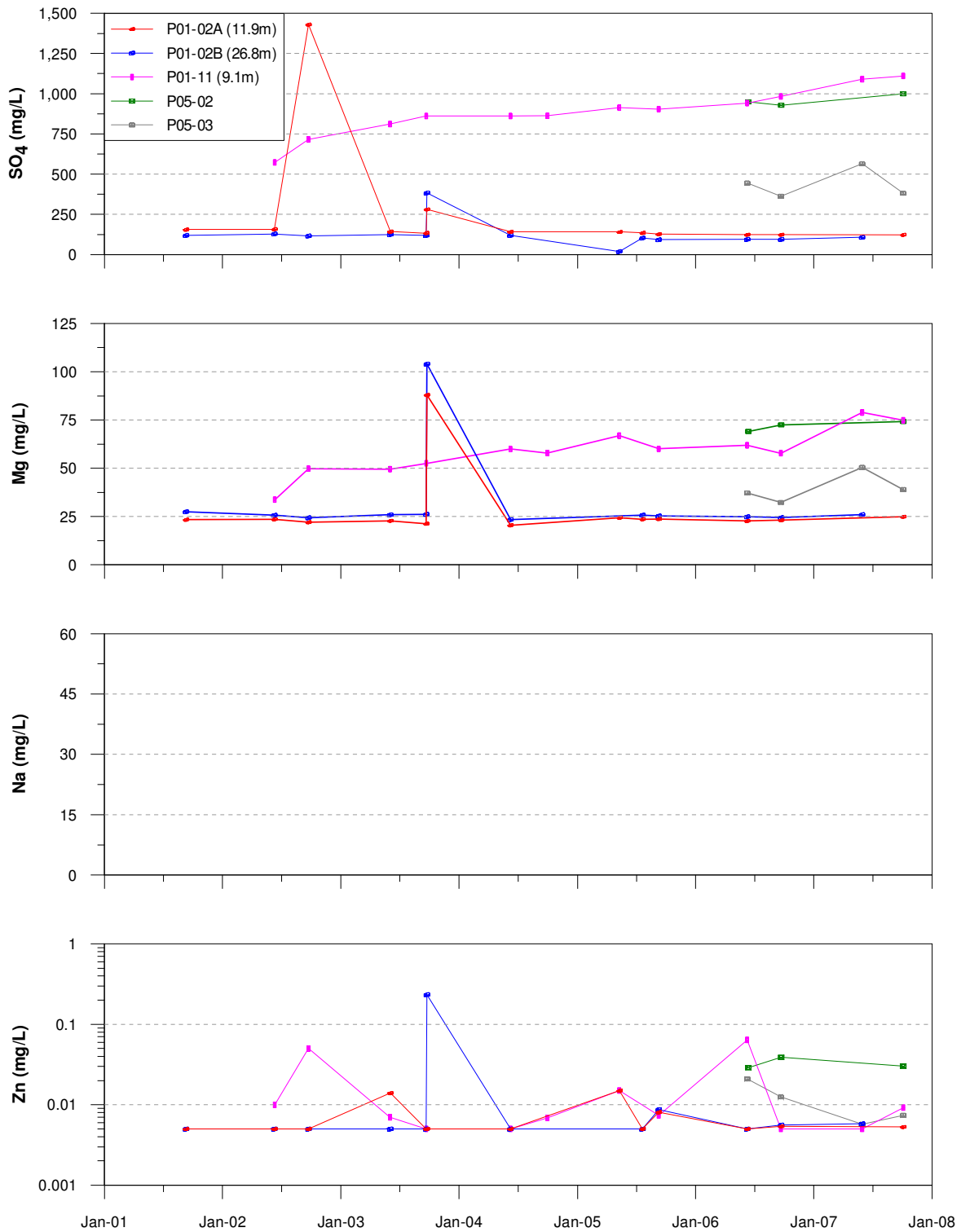
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in X25(96) and P01-04 (south side of Intermediate Dam).

### B1.3: Groundwater Quality Temporal Trends



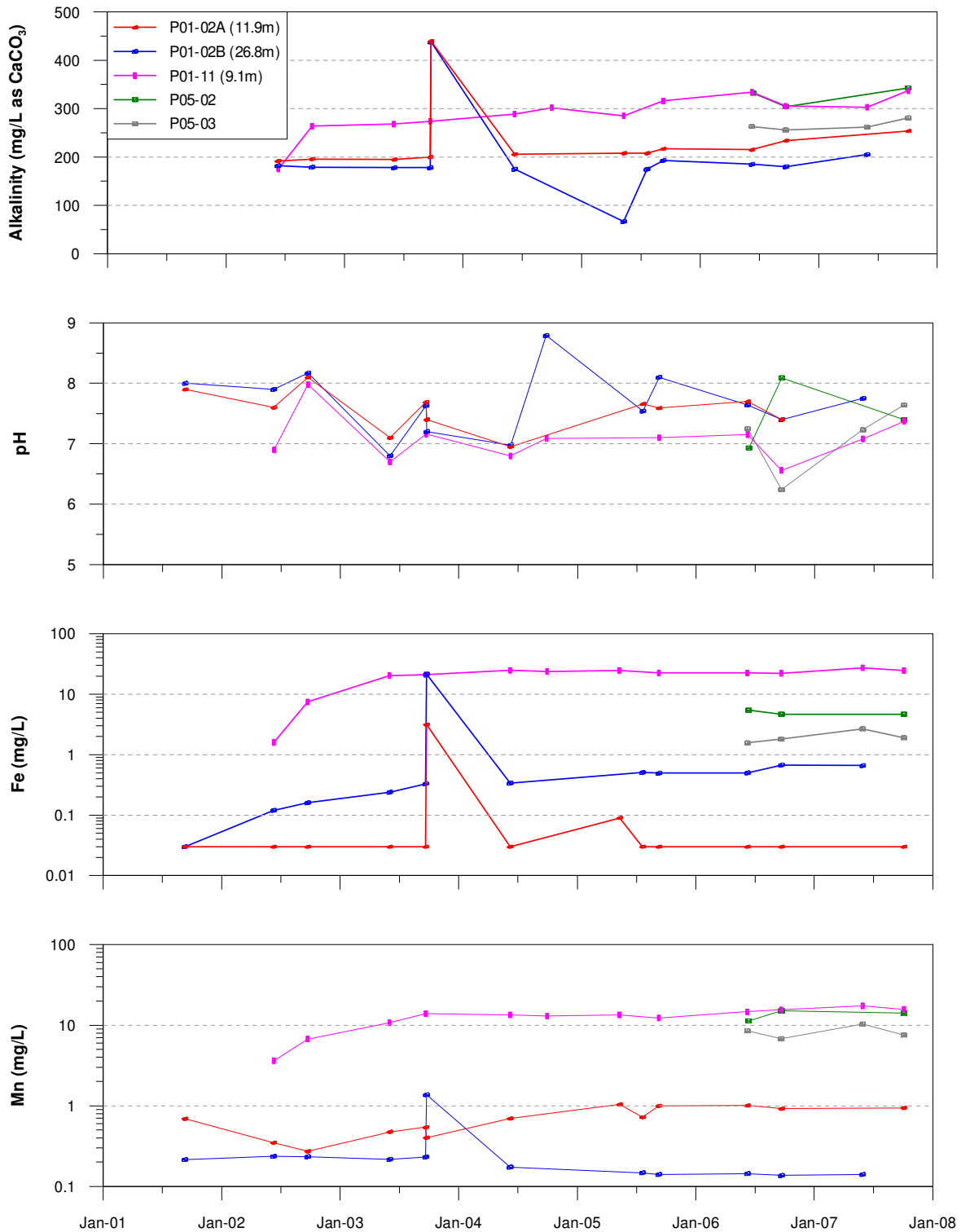
Water quality (alkalinity, pH, Fe and Mn) in X25(96) and P01-04 (south side of Intermediate Dam).

### B1.3: Groundwater Quality Temporal Trends



Water quality (SO<sub>4</sub>, Mg, Na and Zn) in wells along toe of Cross Valley Dam.

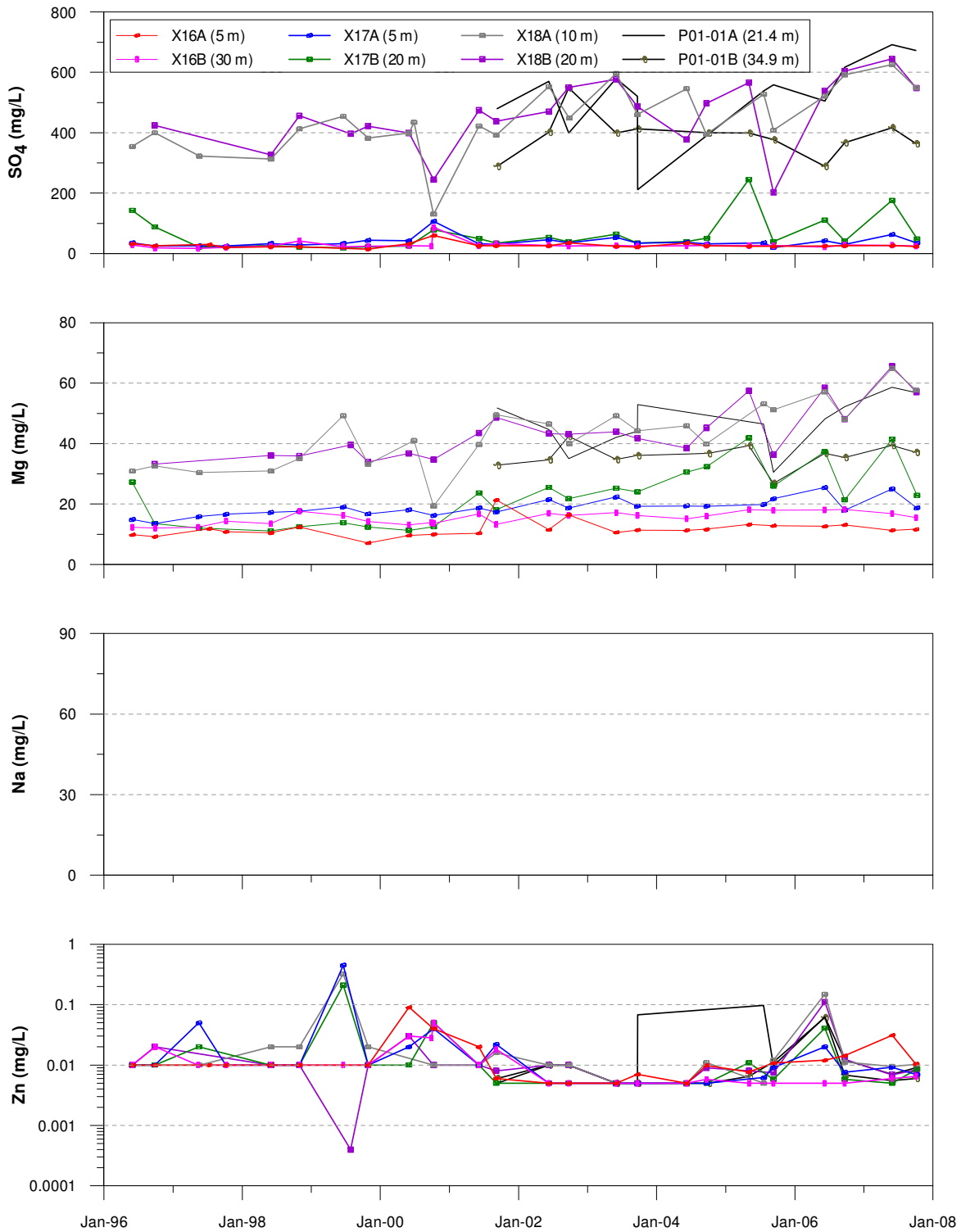
### B1.3: Groundwater Quality Temporal Trends



Water quality (alkalinity, pH, Fe and Mn) in wells along toe of Cross Valley Dam.

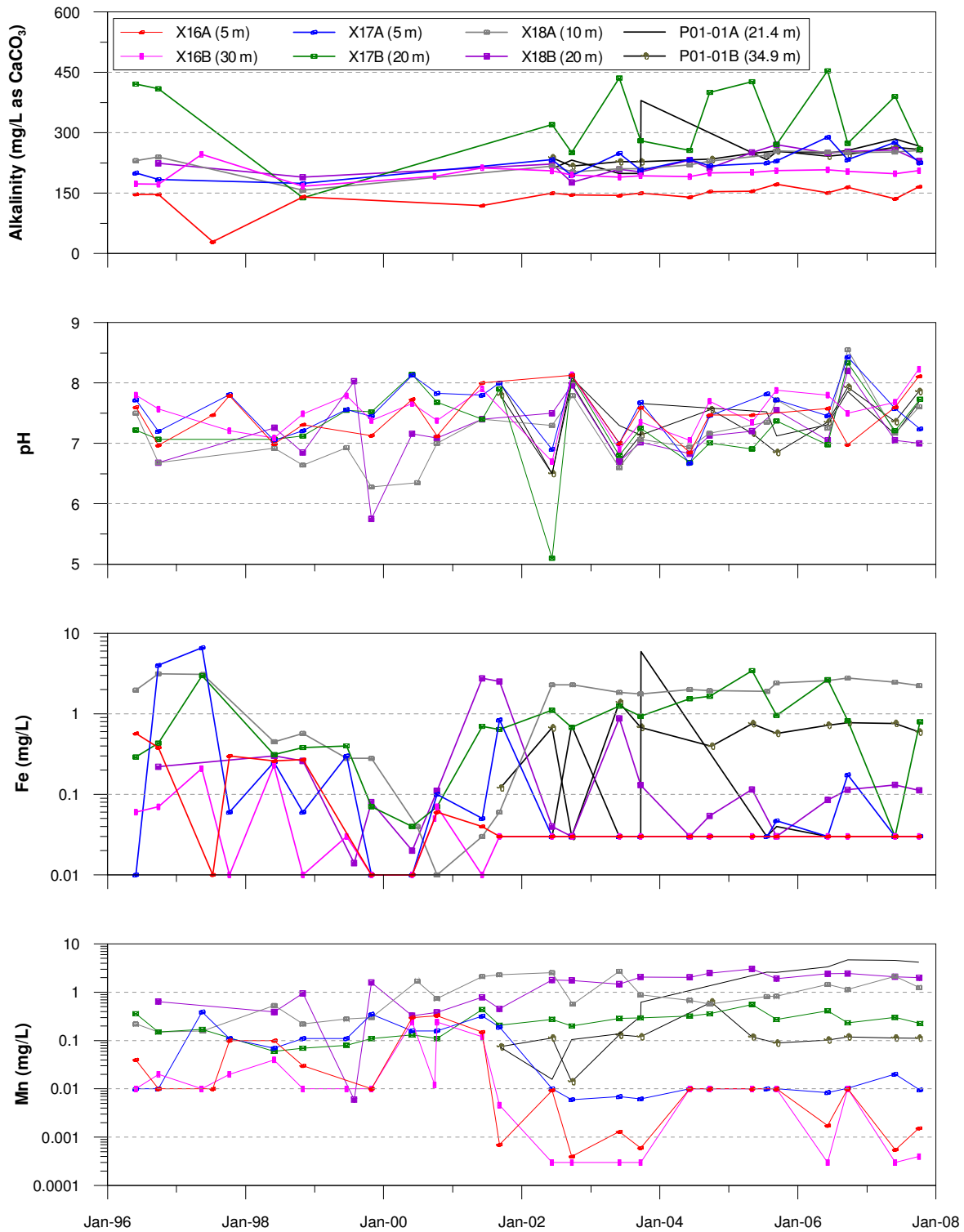


### B1.3: Groundwater Quality Temporal Trends



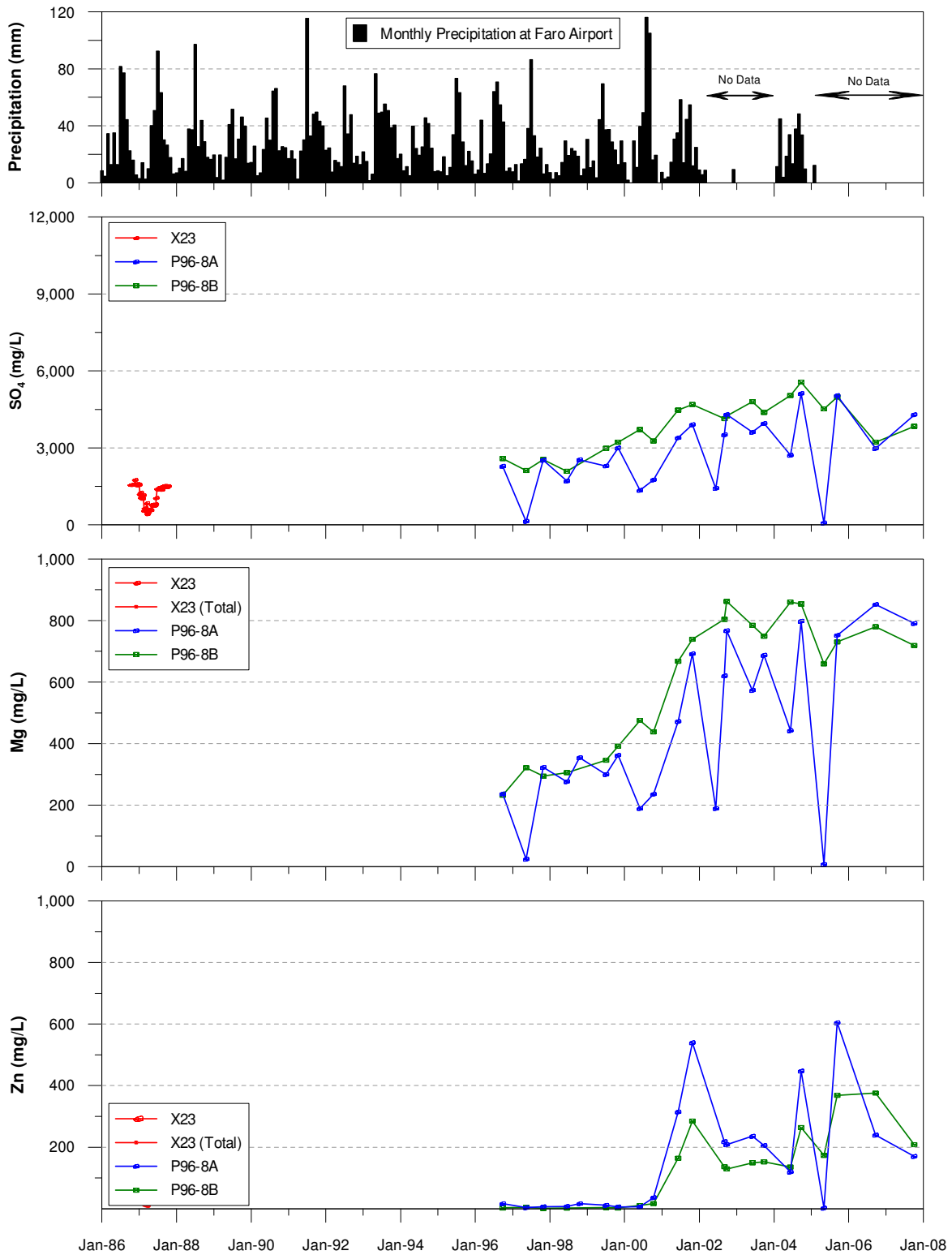
Water quality (SO<sub>4</sub>, Mg, Na and Zn) in wells downgradient of Cross Valley Dam.

### B1.3: Groundwater Quality Temporal Trends



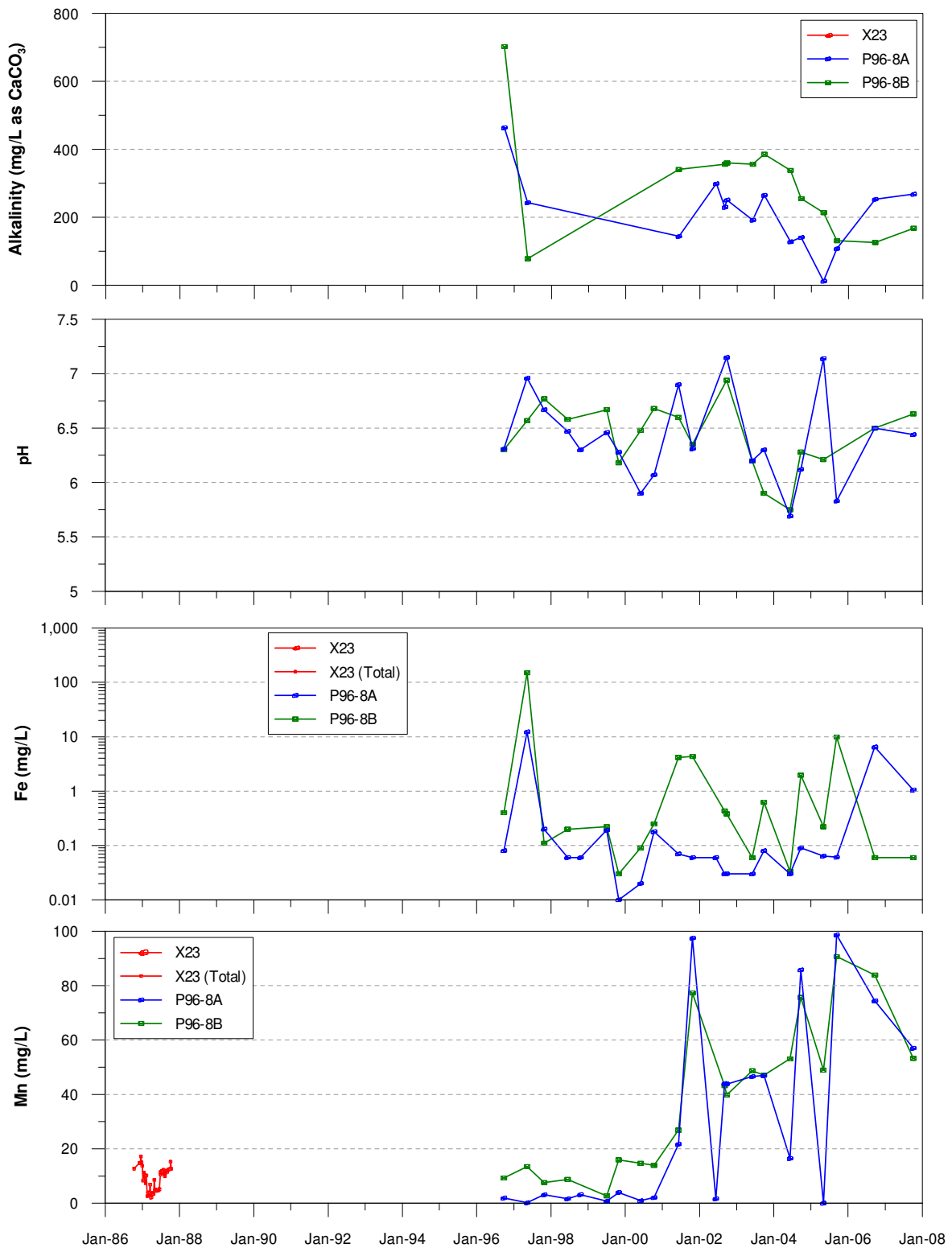
Water quality (alkalinity, pH, Fe and Mn) in wells downgradient of Cross Valley Dam.

### B1.3: Groundwater Quality Temporal Trends



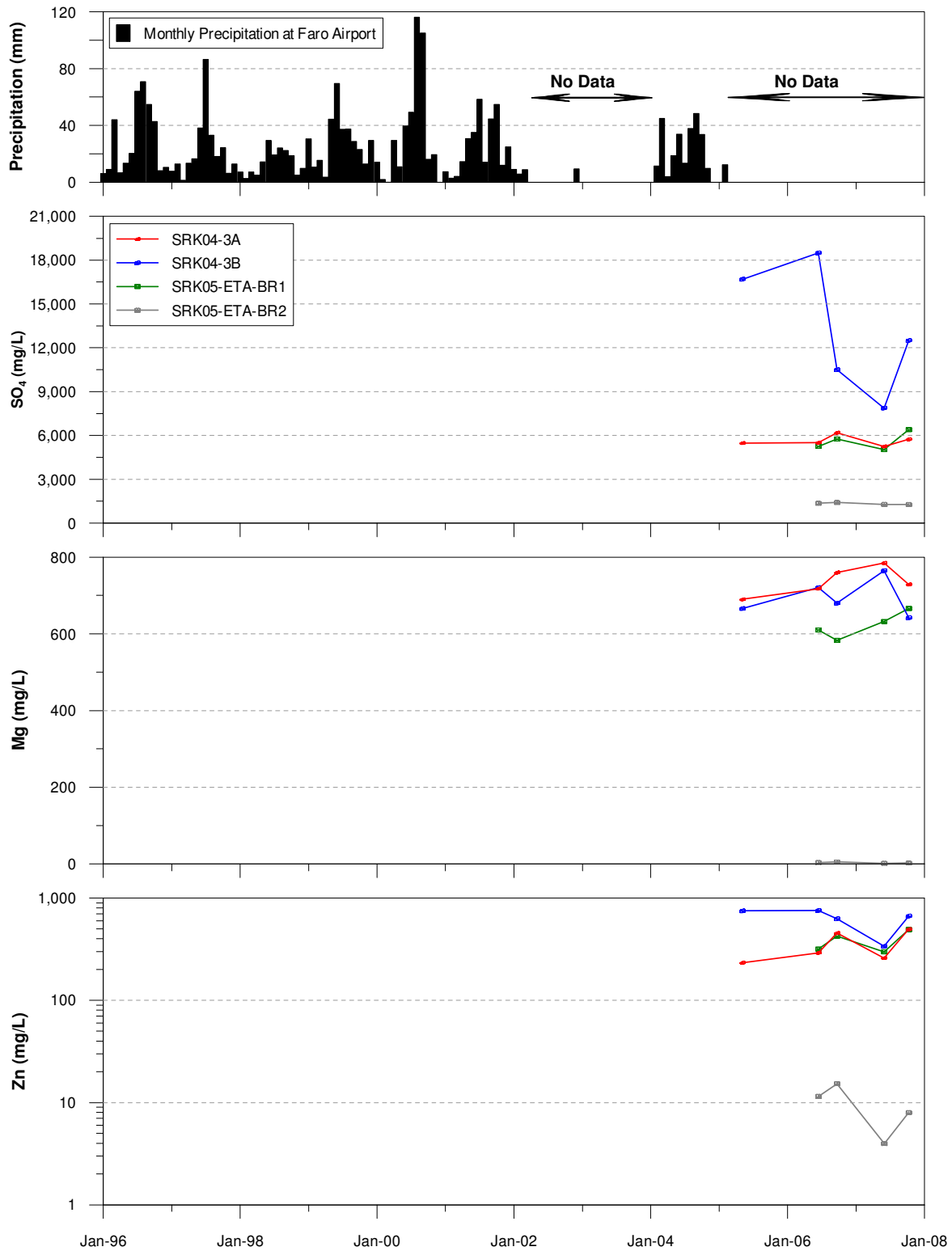
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in X23 and P96-8A/B.

### B1.3: Groundwater Quality Temporal Trends



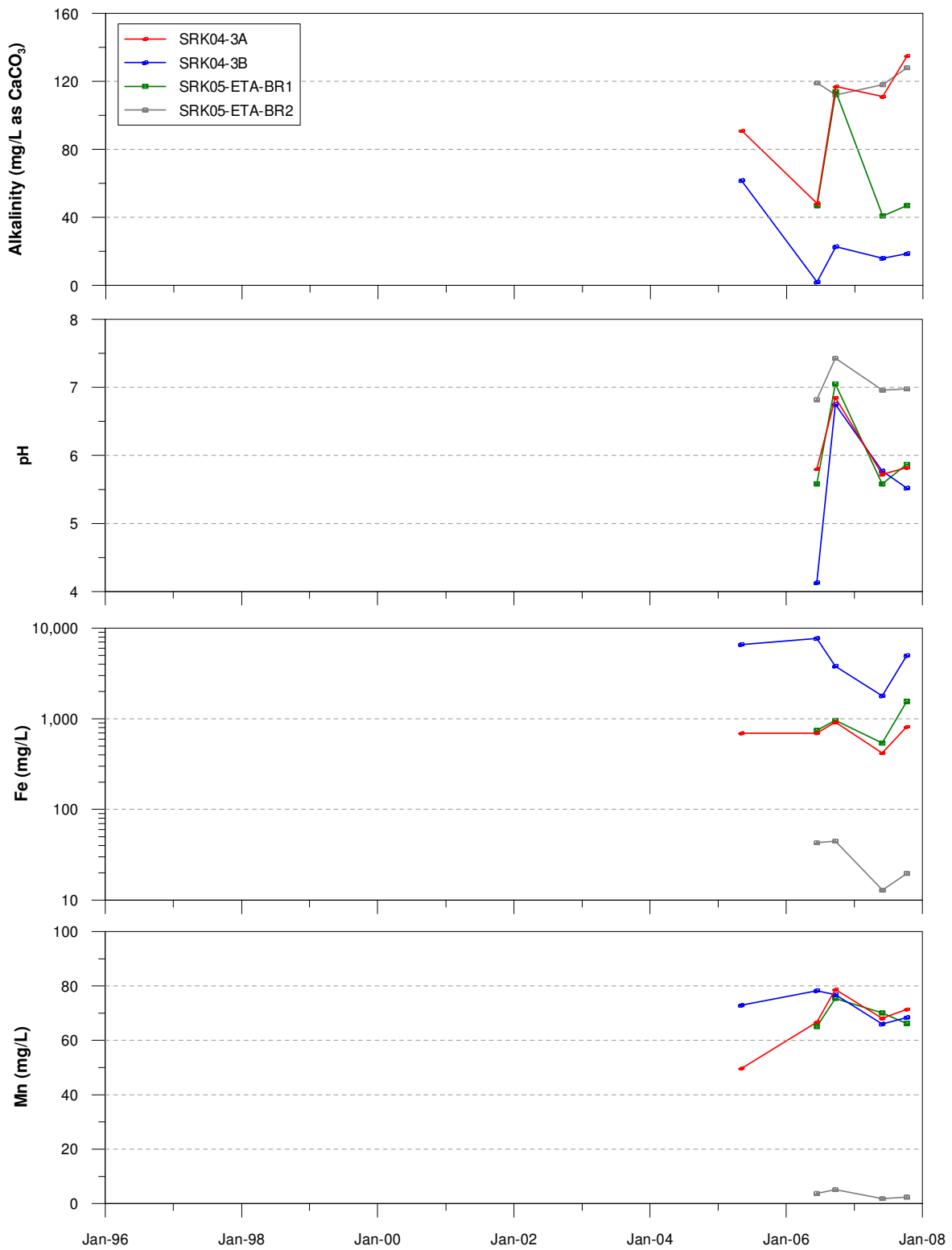
Water quality (alkalinity, pH, Fe and Mn) in X23 and P96-8A/B.

### B1.3: Groundwater Quality Temporal Trends



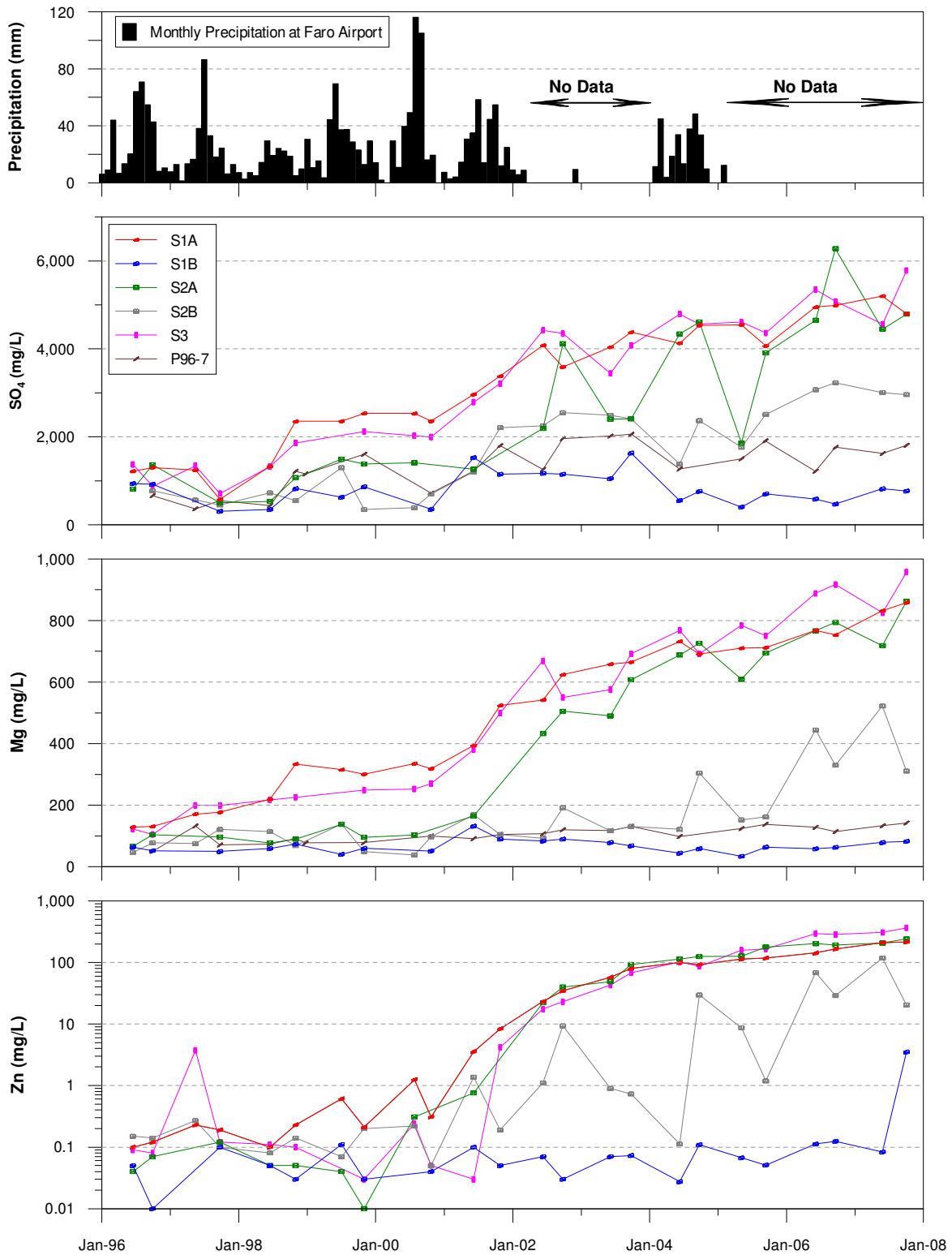
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in ETA area.

### B1.3: Groundwater Quality Temporal Trends



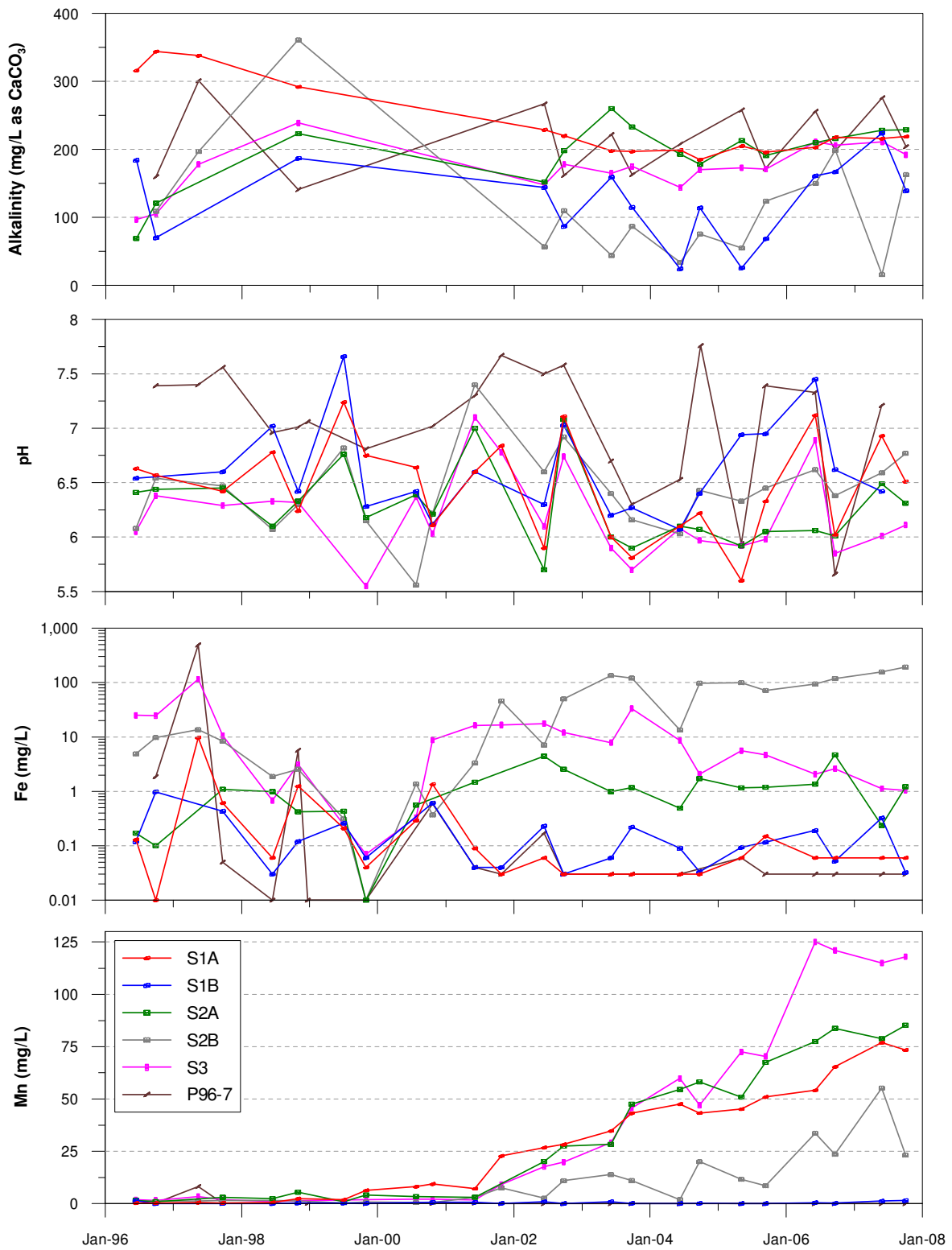
Water quality (alkalinity, pH, Fe and Mn) in ETA area.

### B1.3: Groundwater Quality Temporal Trends



Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) in S-Cluster Wells.

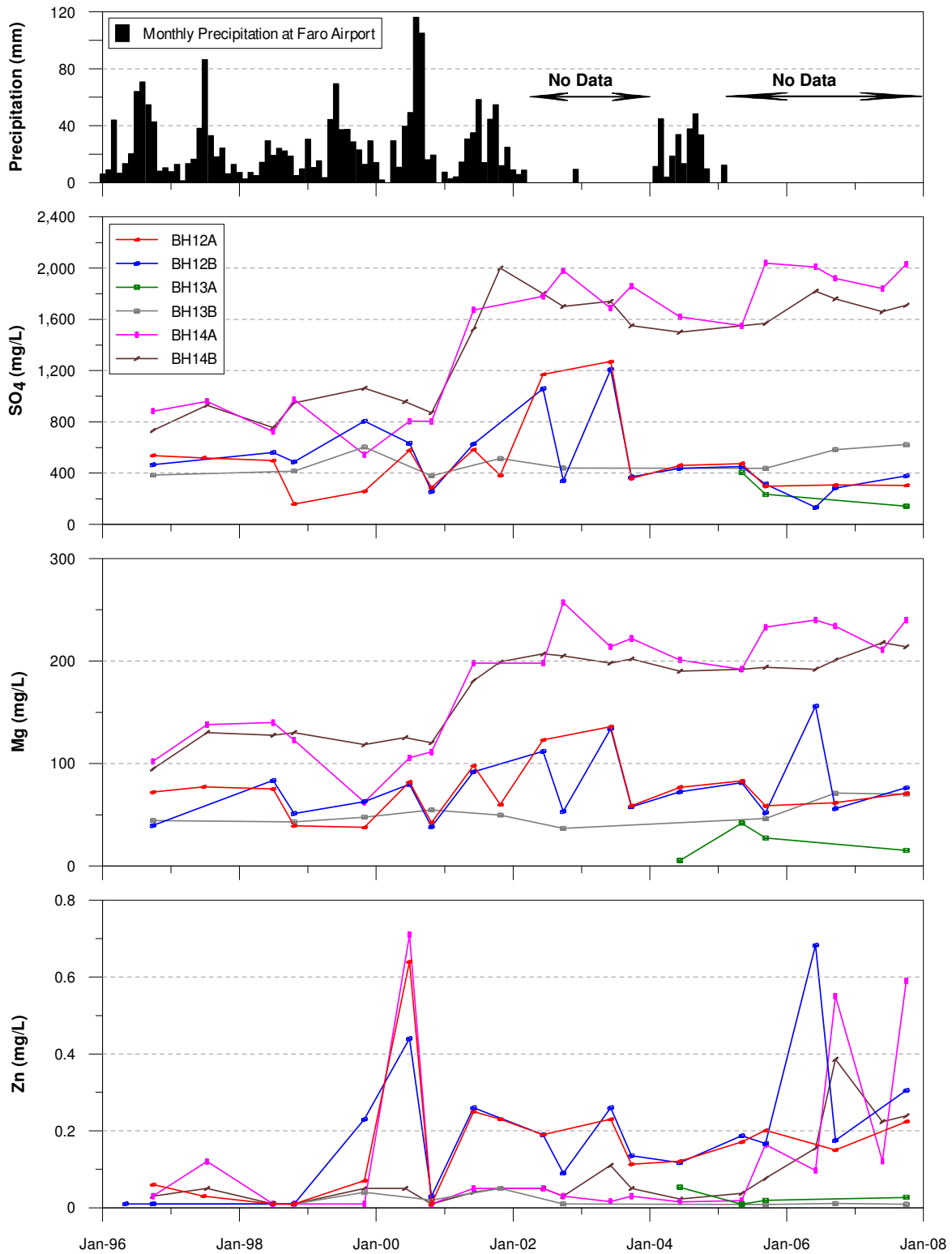
### B1.3: Groundwater Quality Temporal Trends



Water quality (alkalinity, pH, Fe and Mn) in S-Cluster Wells.

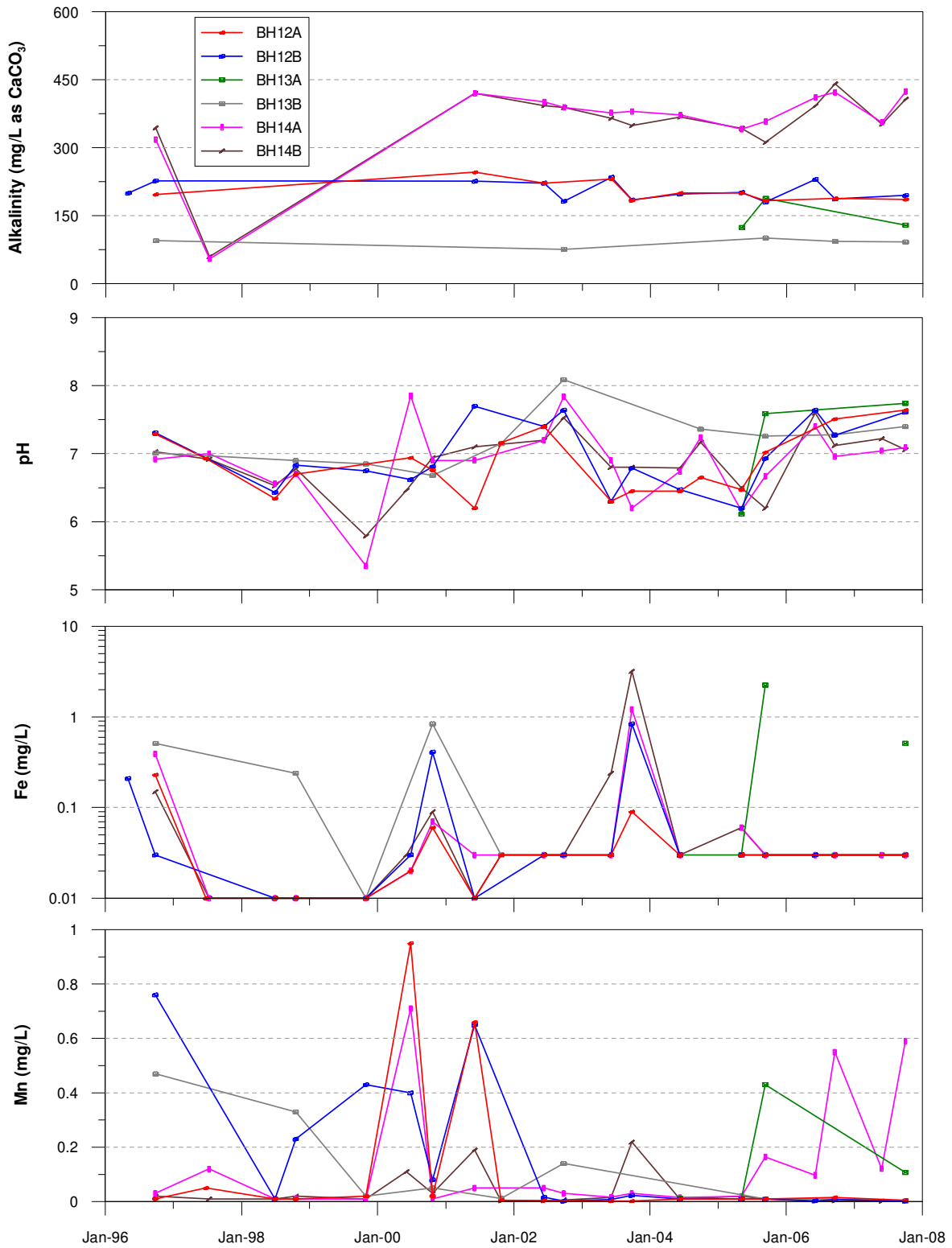


### B1.3: Groundwater Quality Temporal Trends



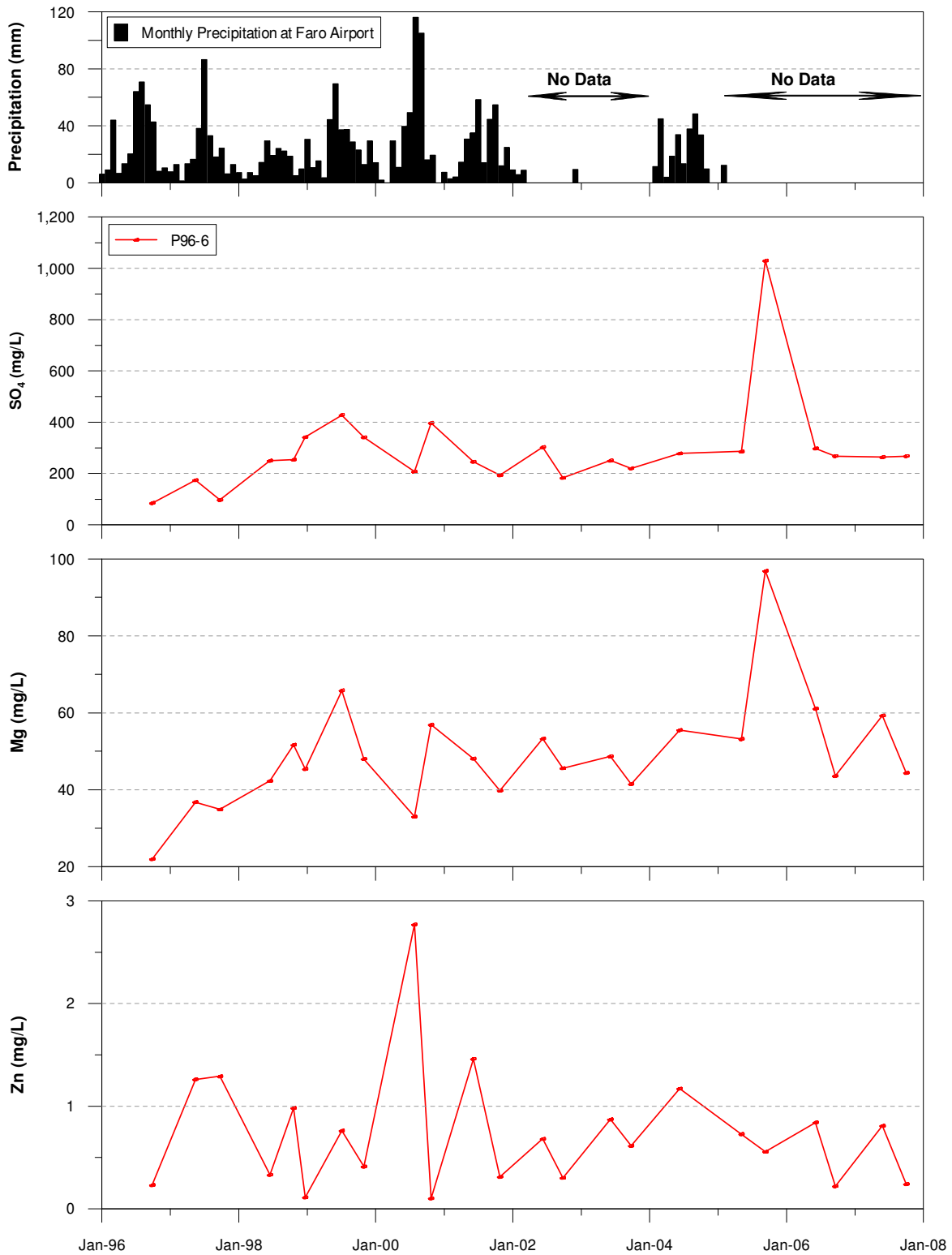
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) at toe of Northeast Dumps.

### B1.3: Groundwater Quality Temporal Trends



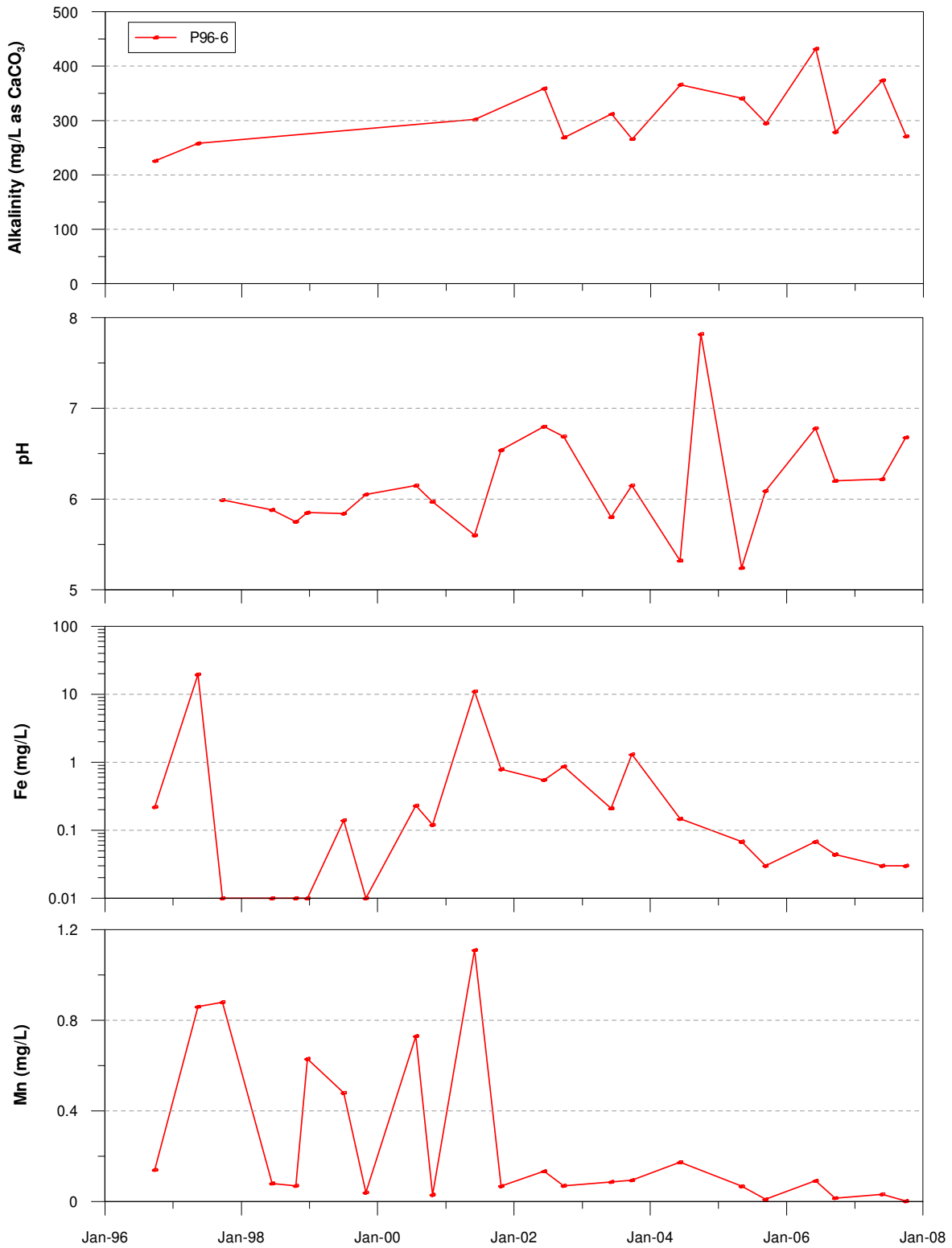
Water quality (alkalinity, pH, Fe and Mn) at toe of Northeast Dumps.

### B1.3: Groundwater Quality Temporal Trends



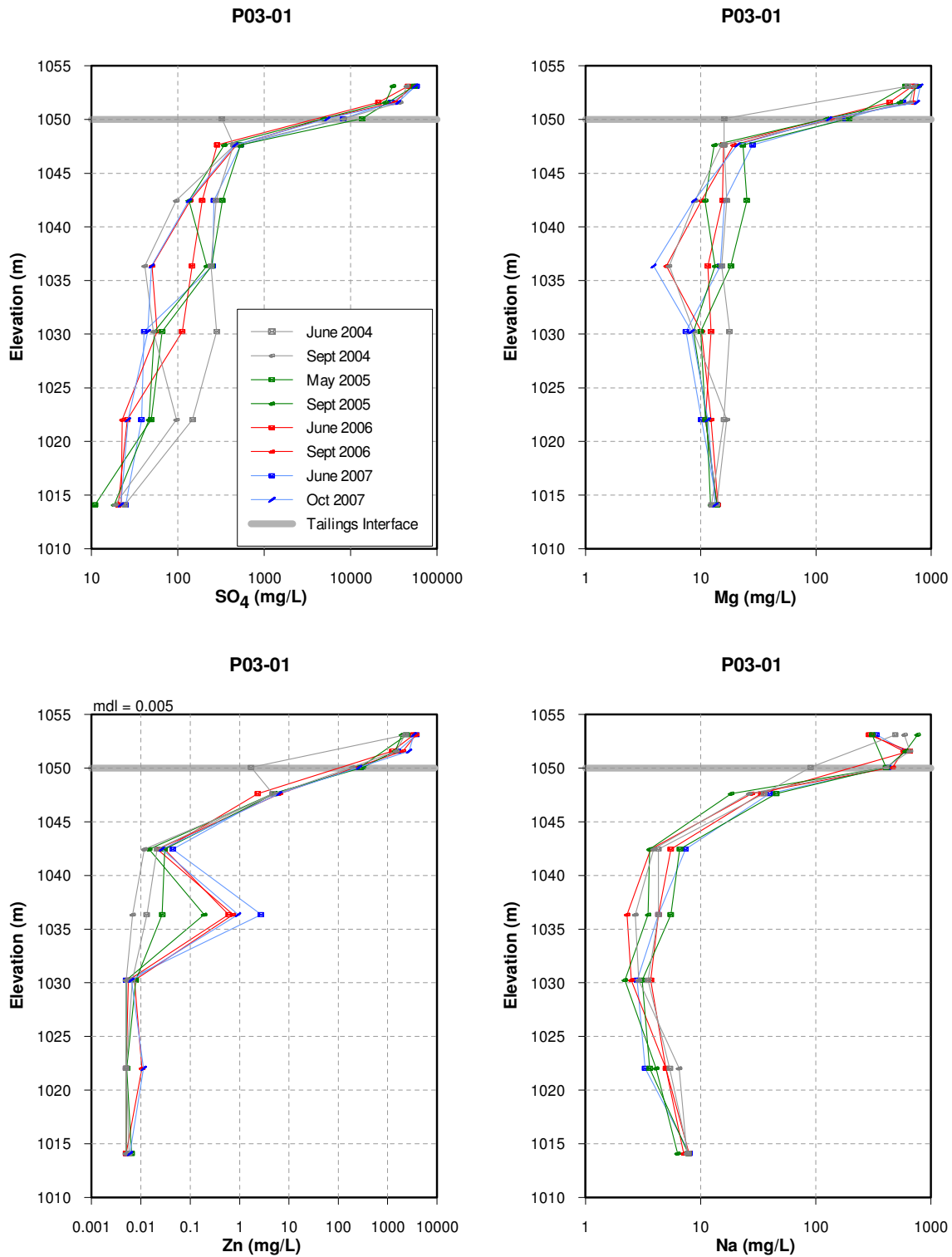
Precipitation and water quality (SO<sub>4</sub>, Mg and Zn) at toe of Intermediate Dump (P96-6).

### B1.3: Groundwater Quality Temporal Trends



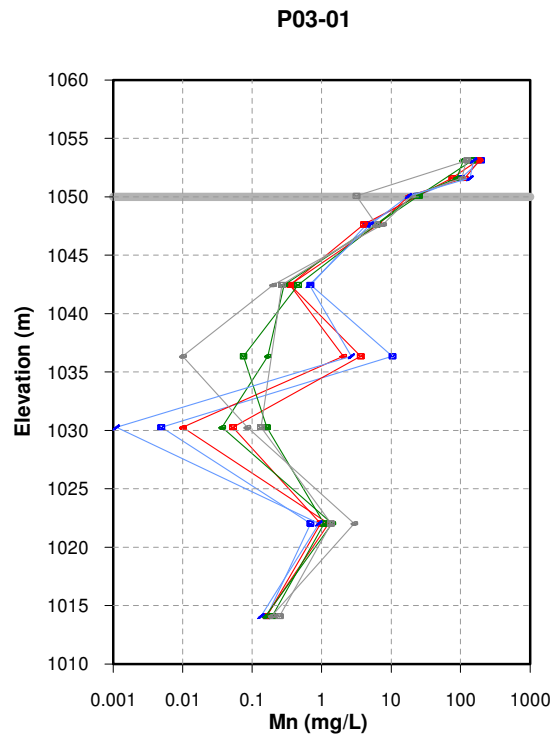
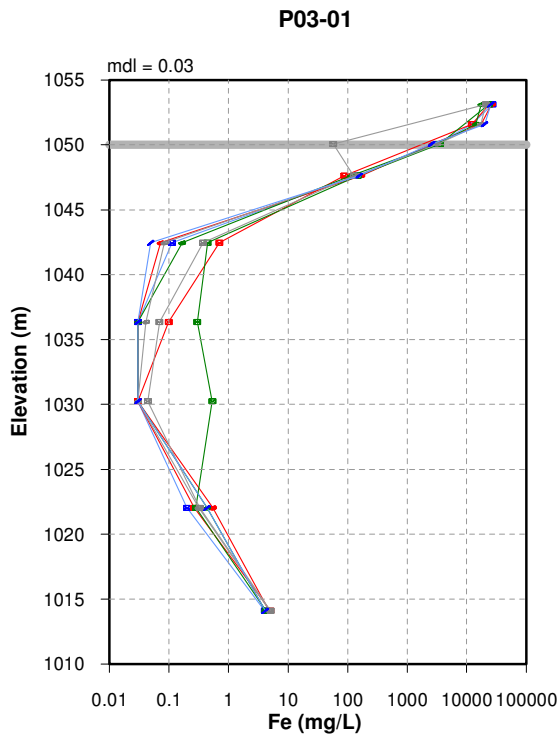
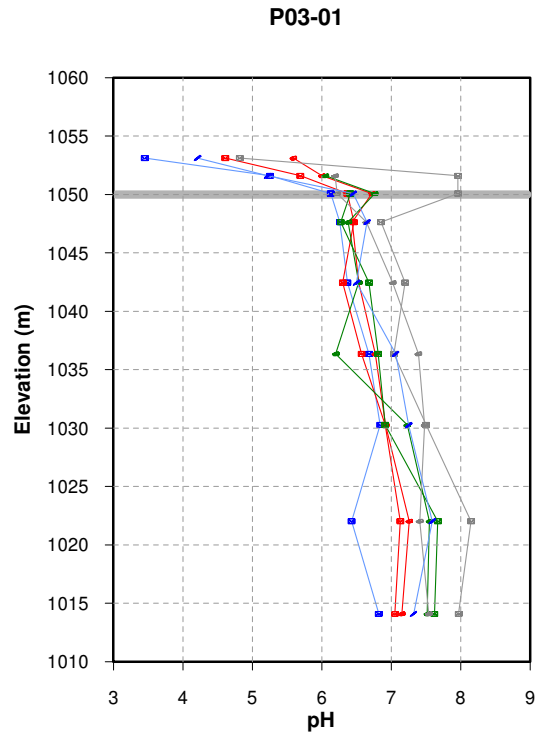
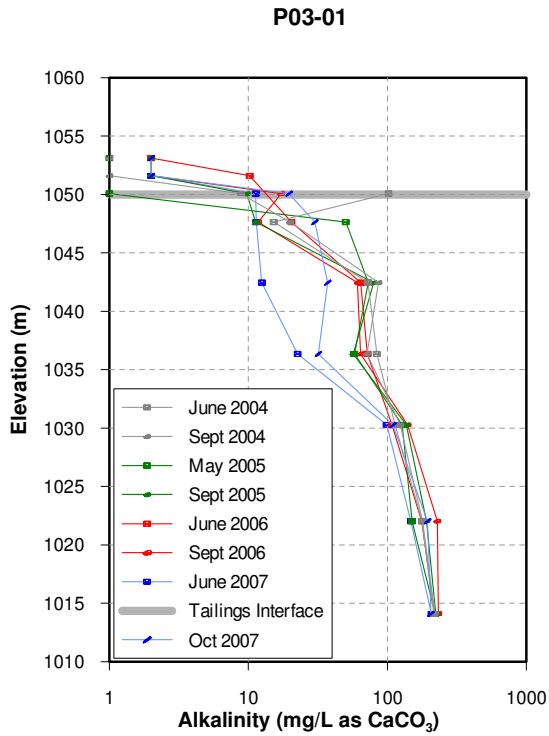
Water quality (alkalinity, pH, Fe and Mn) at toe of Intermediate Dump (P96-6).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



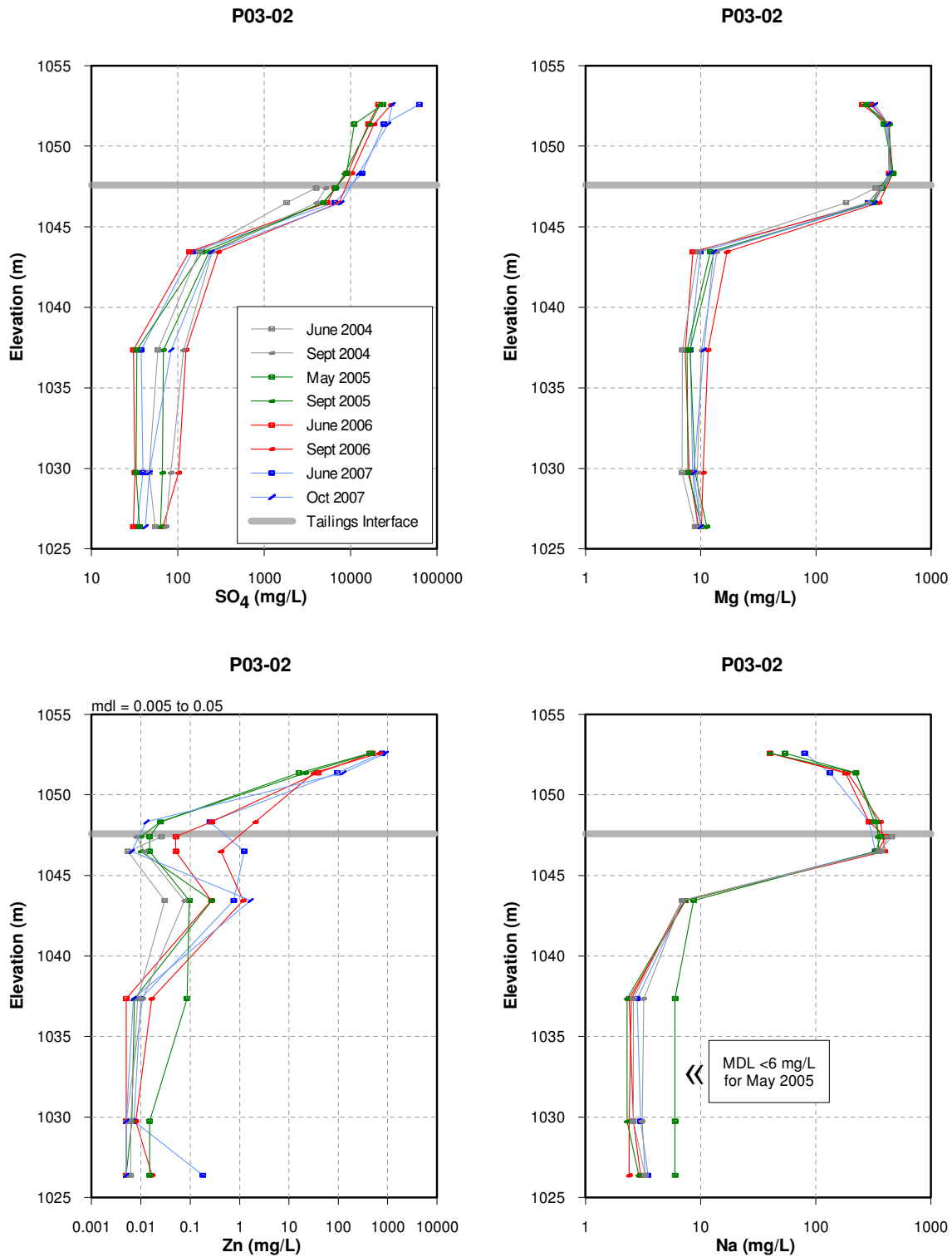
Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-01 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



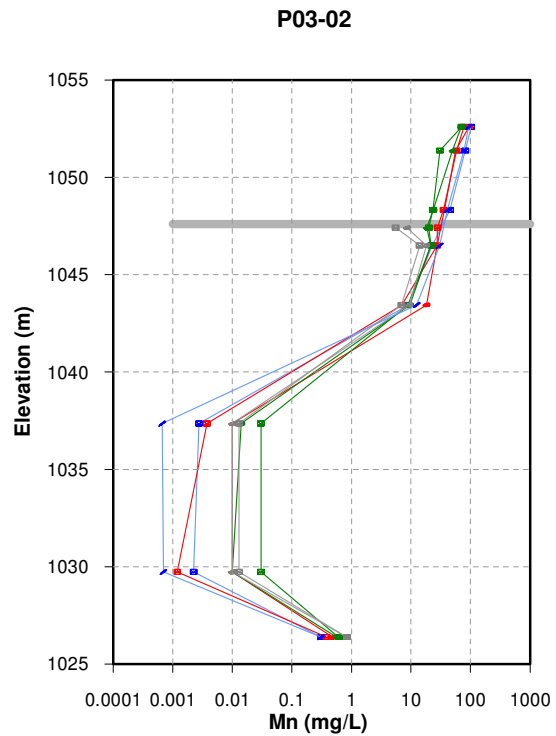
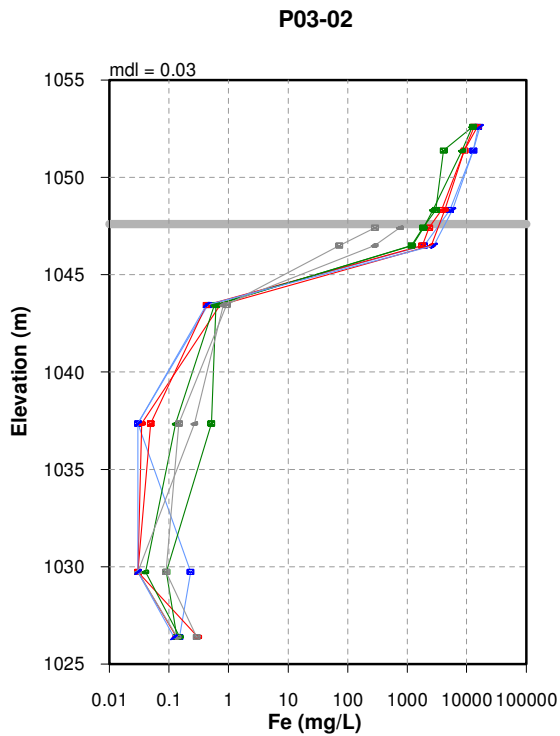
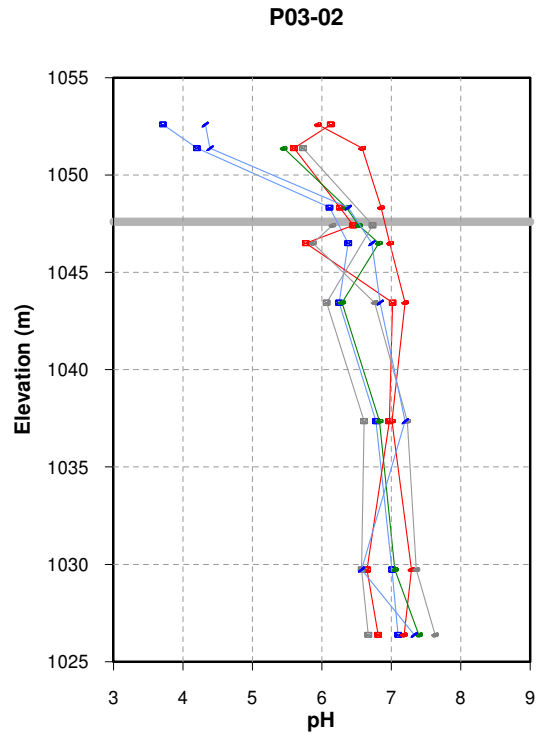
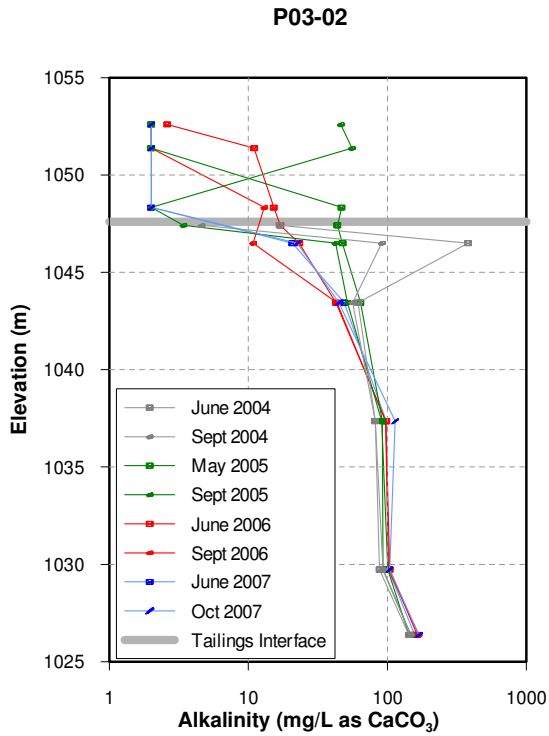
Water quality depth profiles of Alkalinity, pH, Fe and Mn in P03-01 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-02 (Second Impoundment).

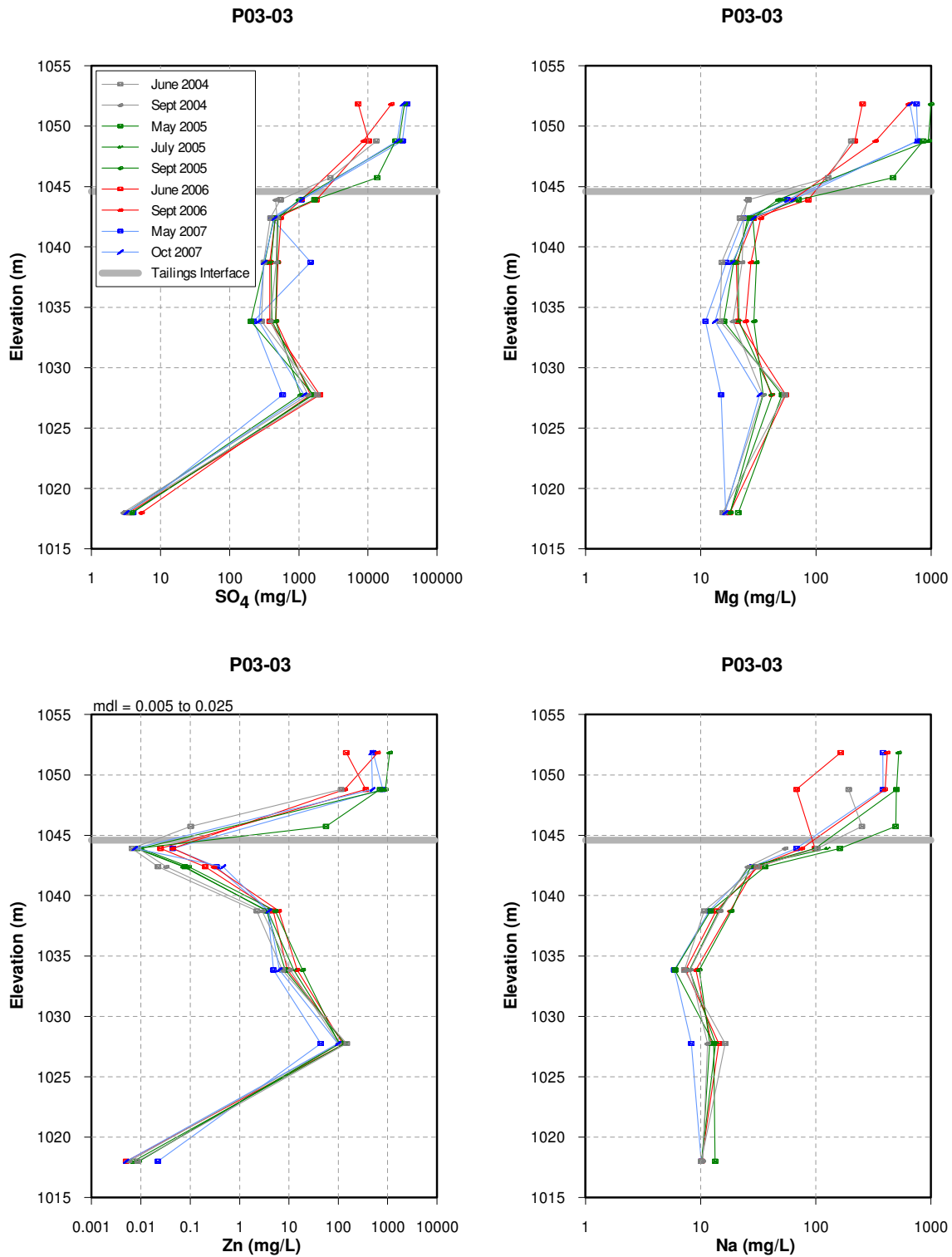
## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



Water quality depth profiles of Alkalinity, pH, Fe and Mn in P03-02 (Second Impoundment).

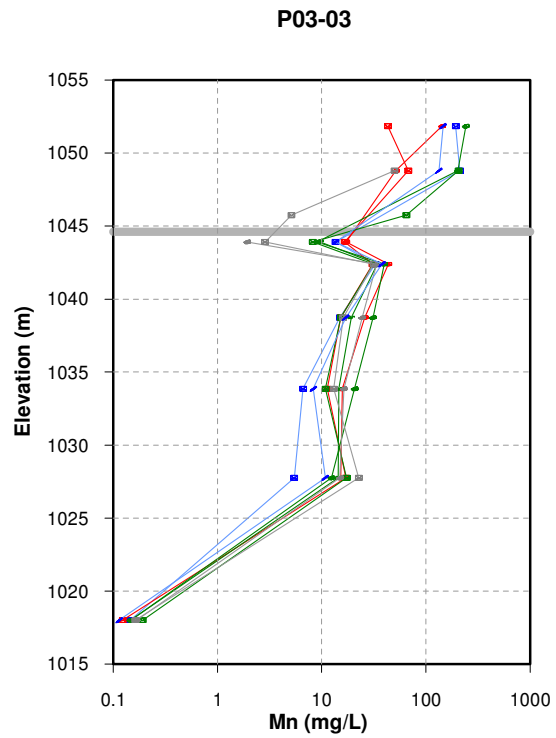
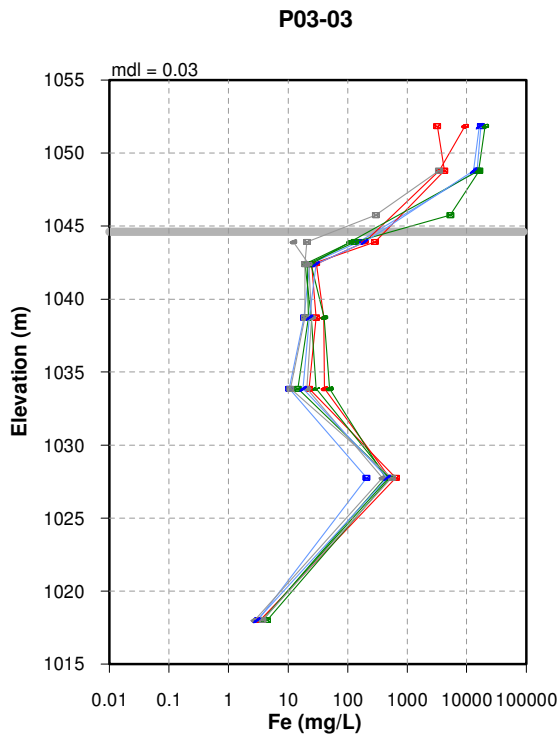
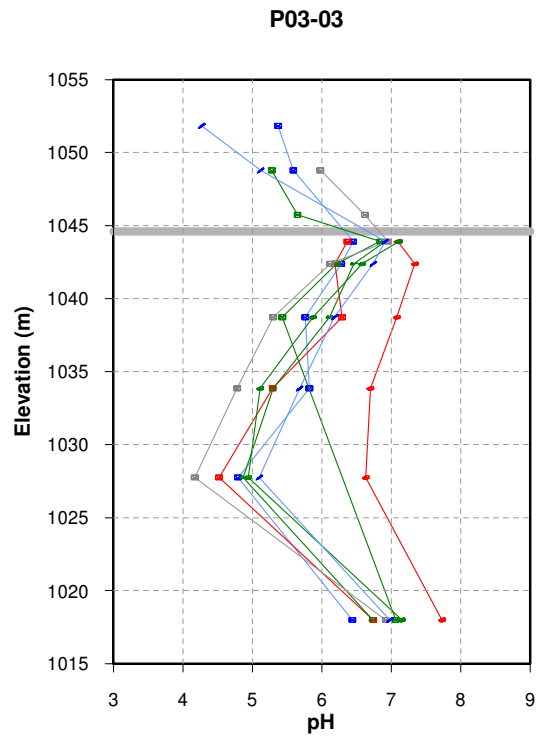
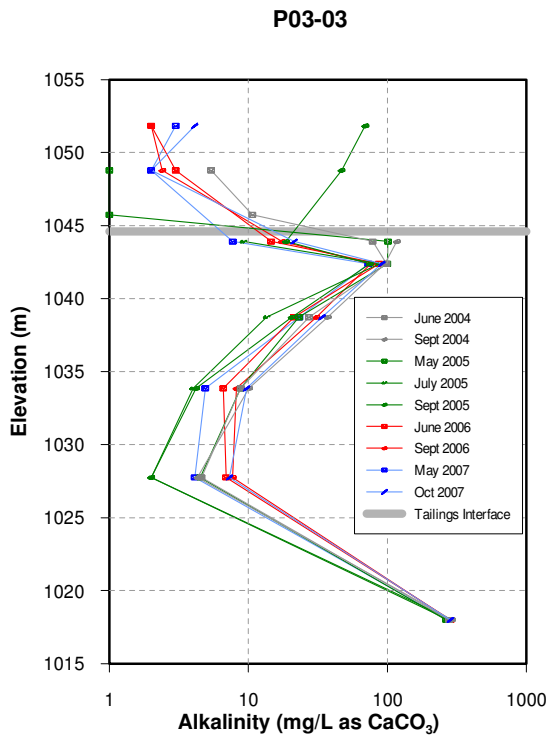


## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



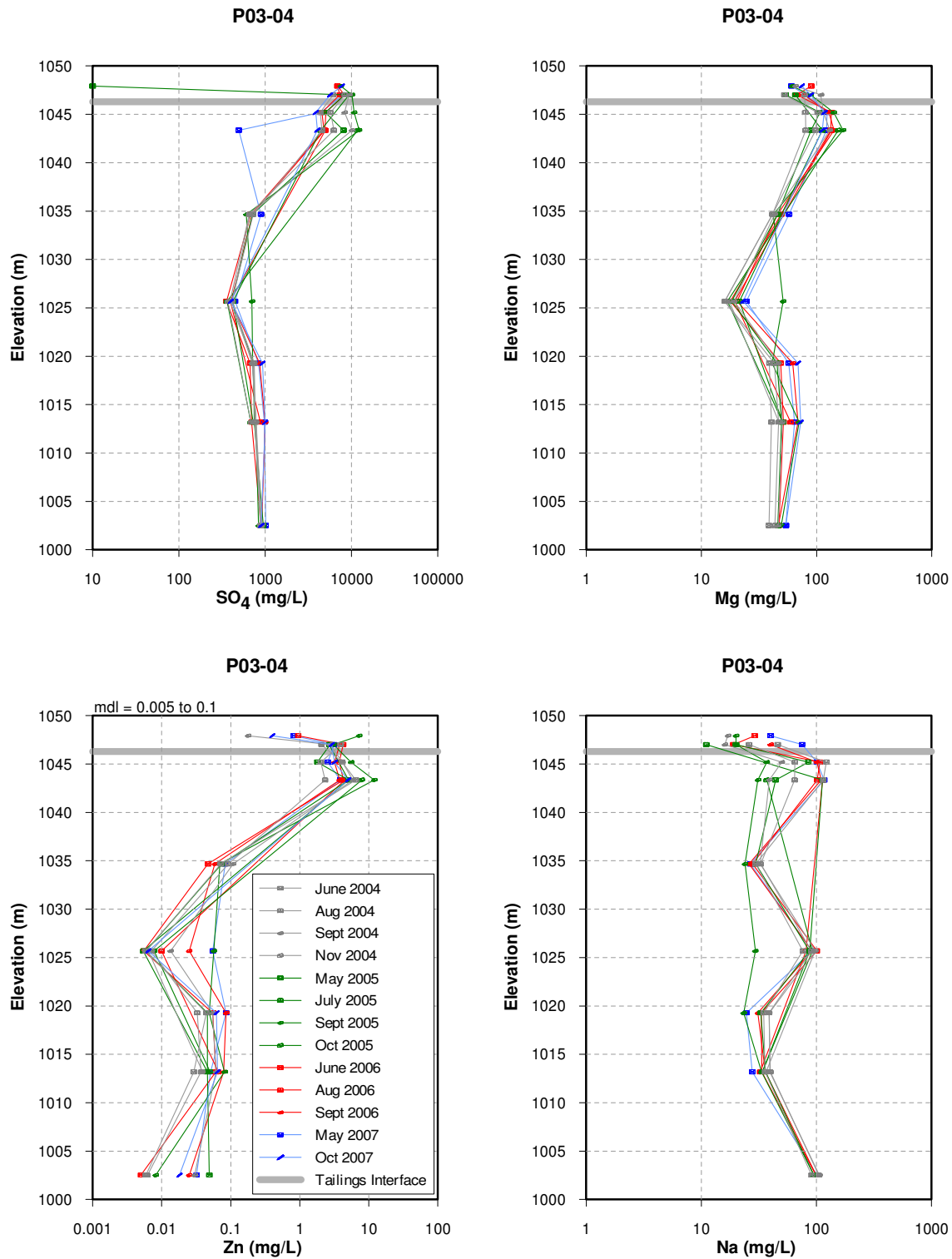
Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-03 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



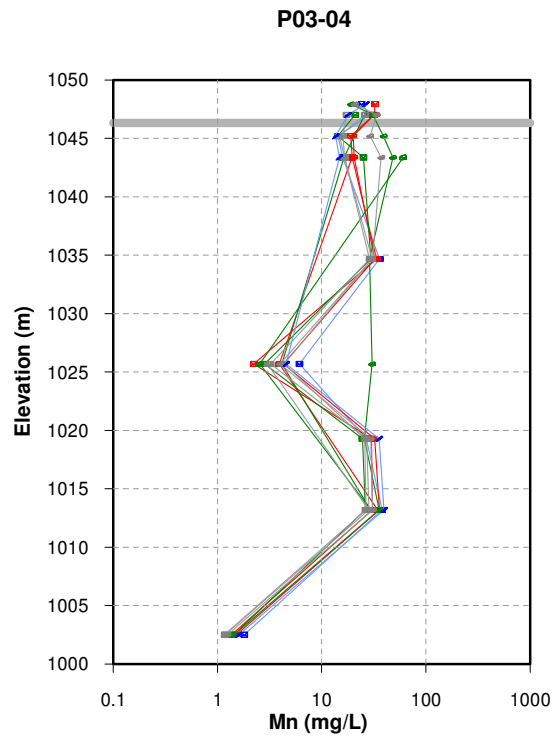
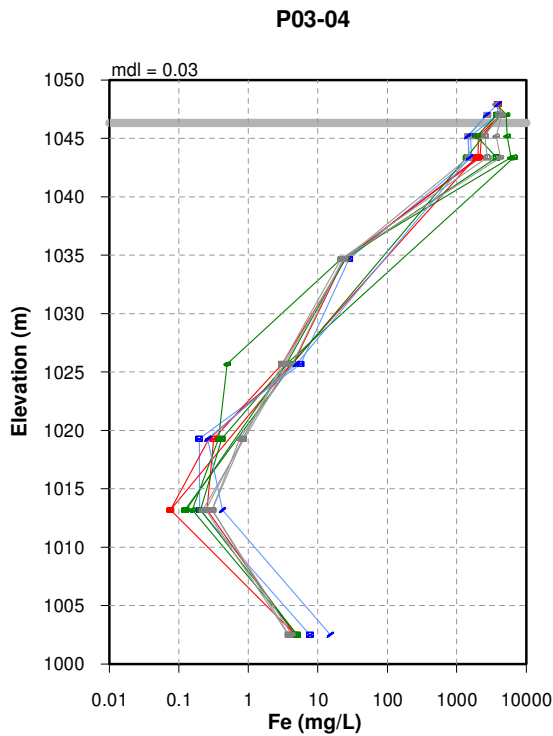
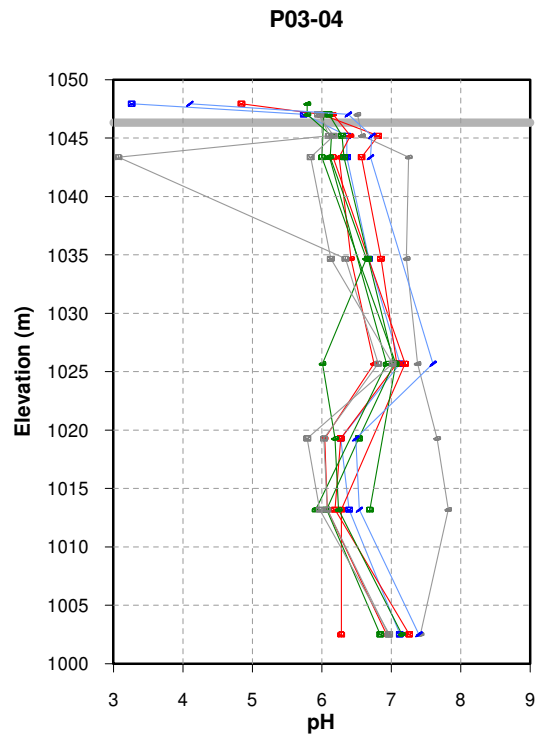
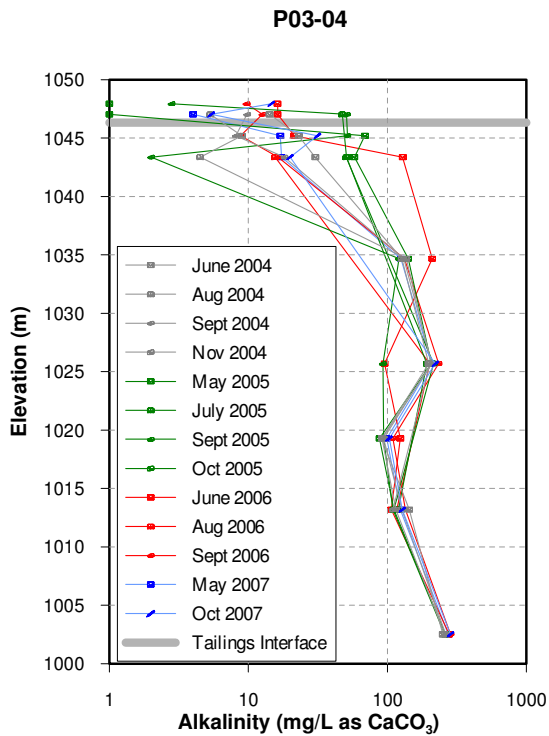
Water quality depth profiles of alkalinity, pH, Fe and Mn in P03-03 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



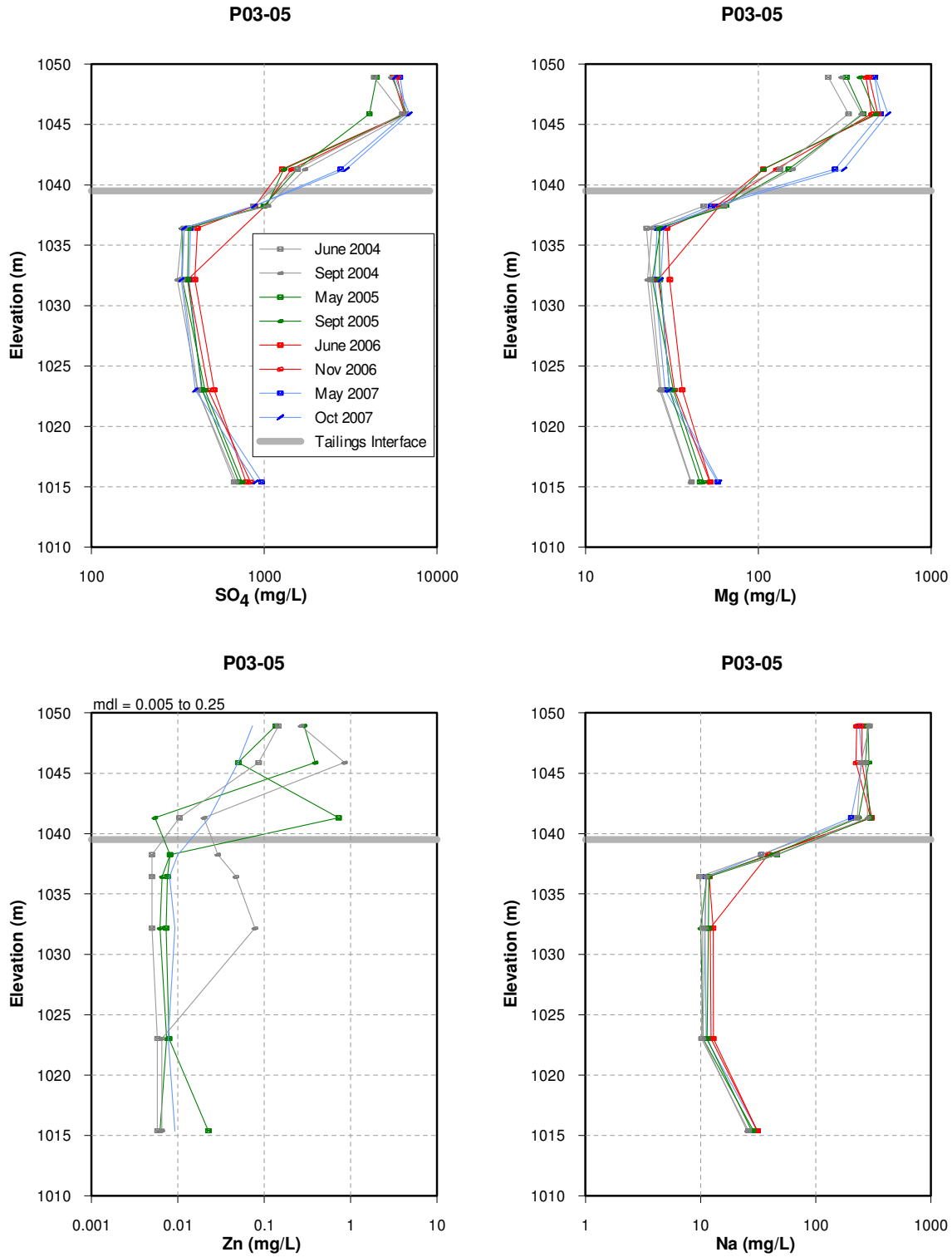
Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-04 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



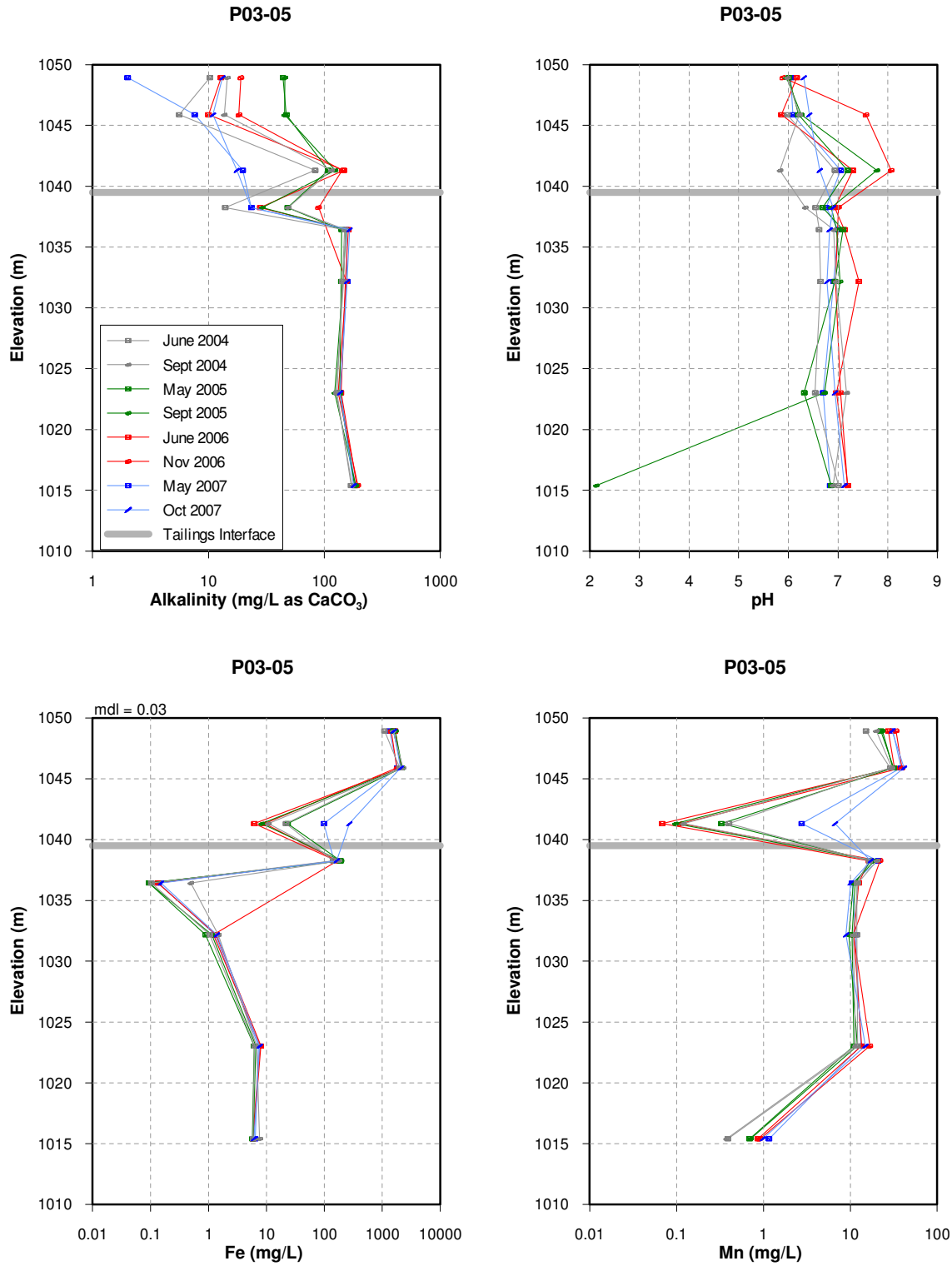
Water quality depth profiles of Alkalinity, pH, Fe and Mn in P03-04 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



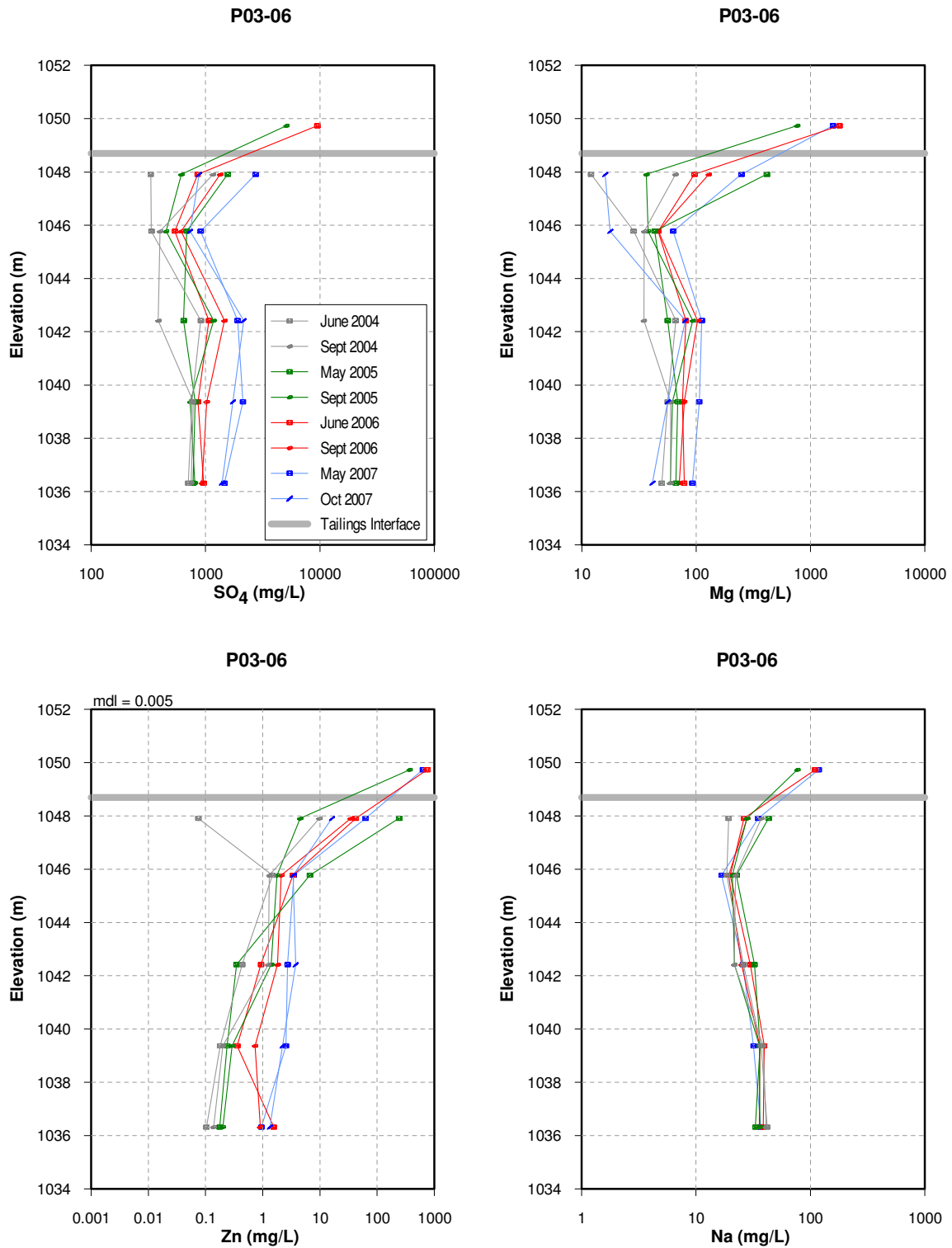
Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-05 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



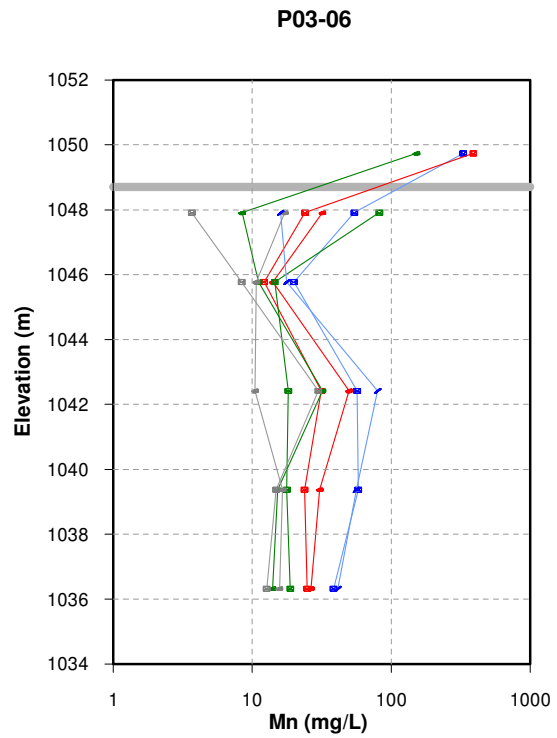
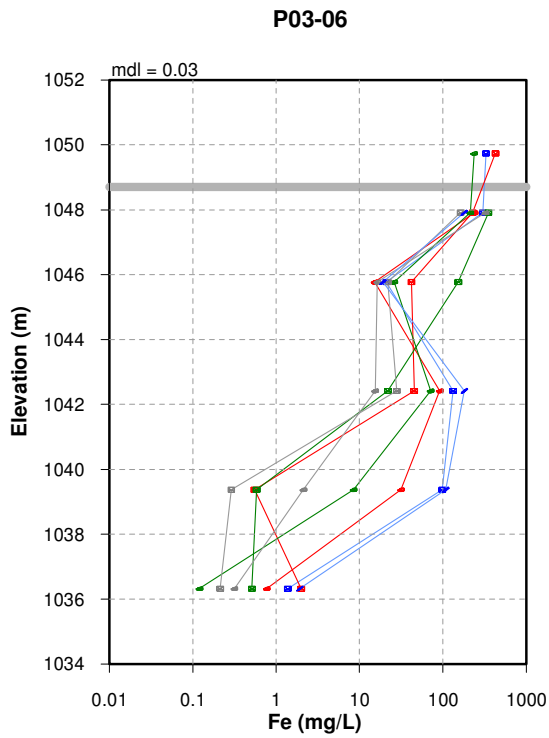
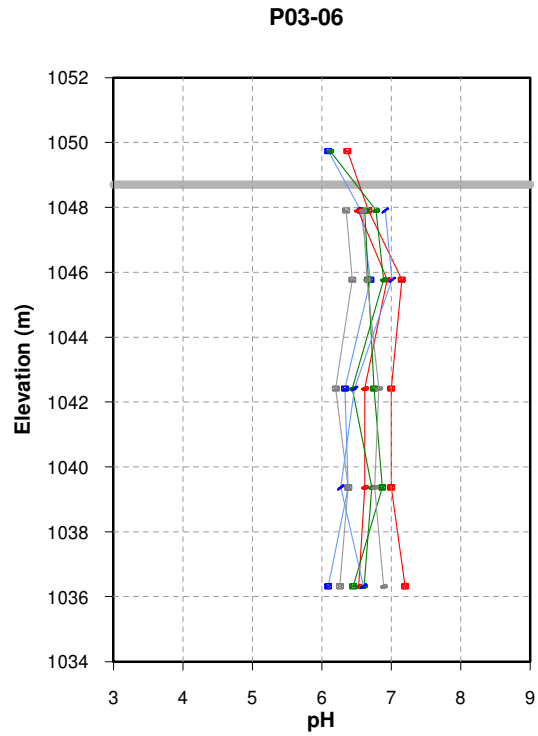
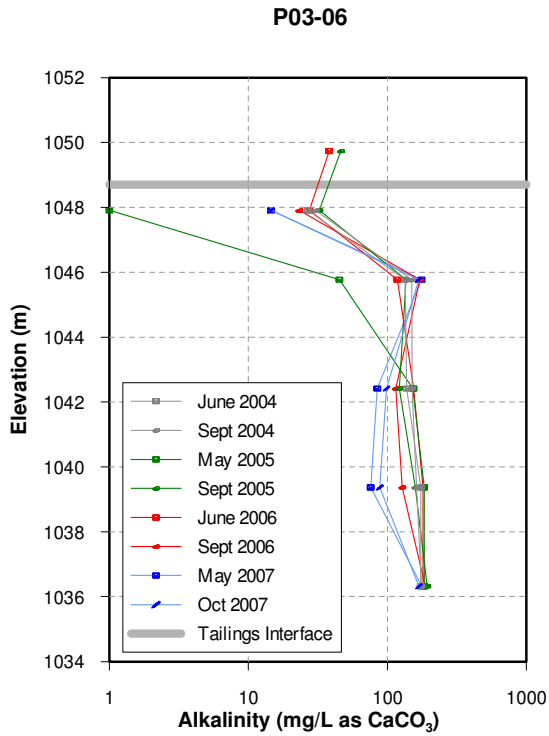
Water quality depth profiles of alkalinity, pH, Fe and Mn in P03-05 (Second Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-06 (Second Impoundment).

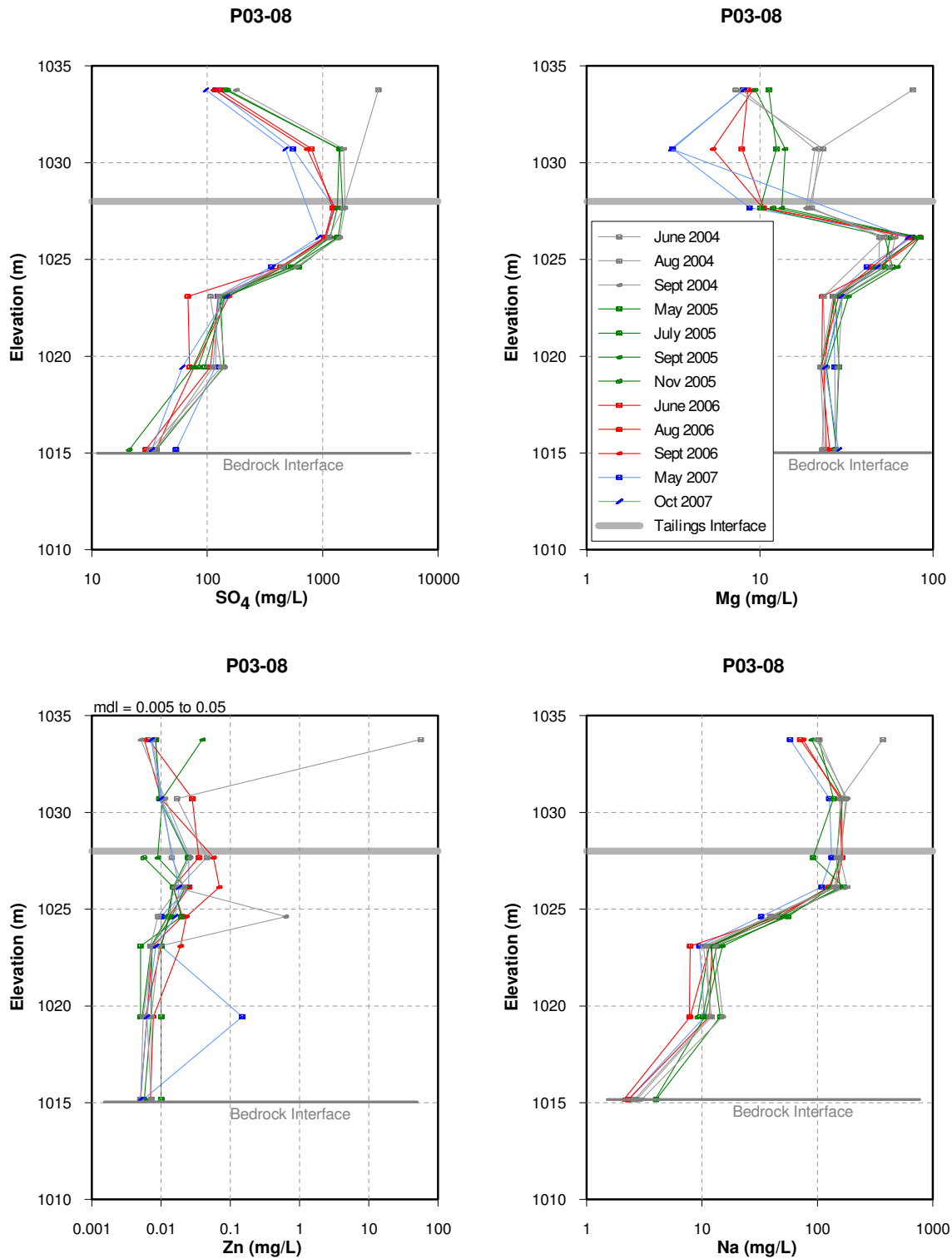
## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



Water quality depth profiles of alkalinity, pH, Fe and Mn in P03-06 (Second Impoundment).

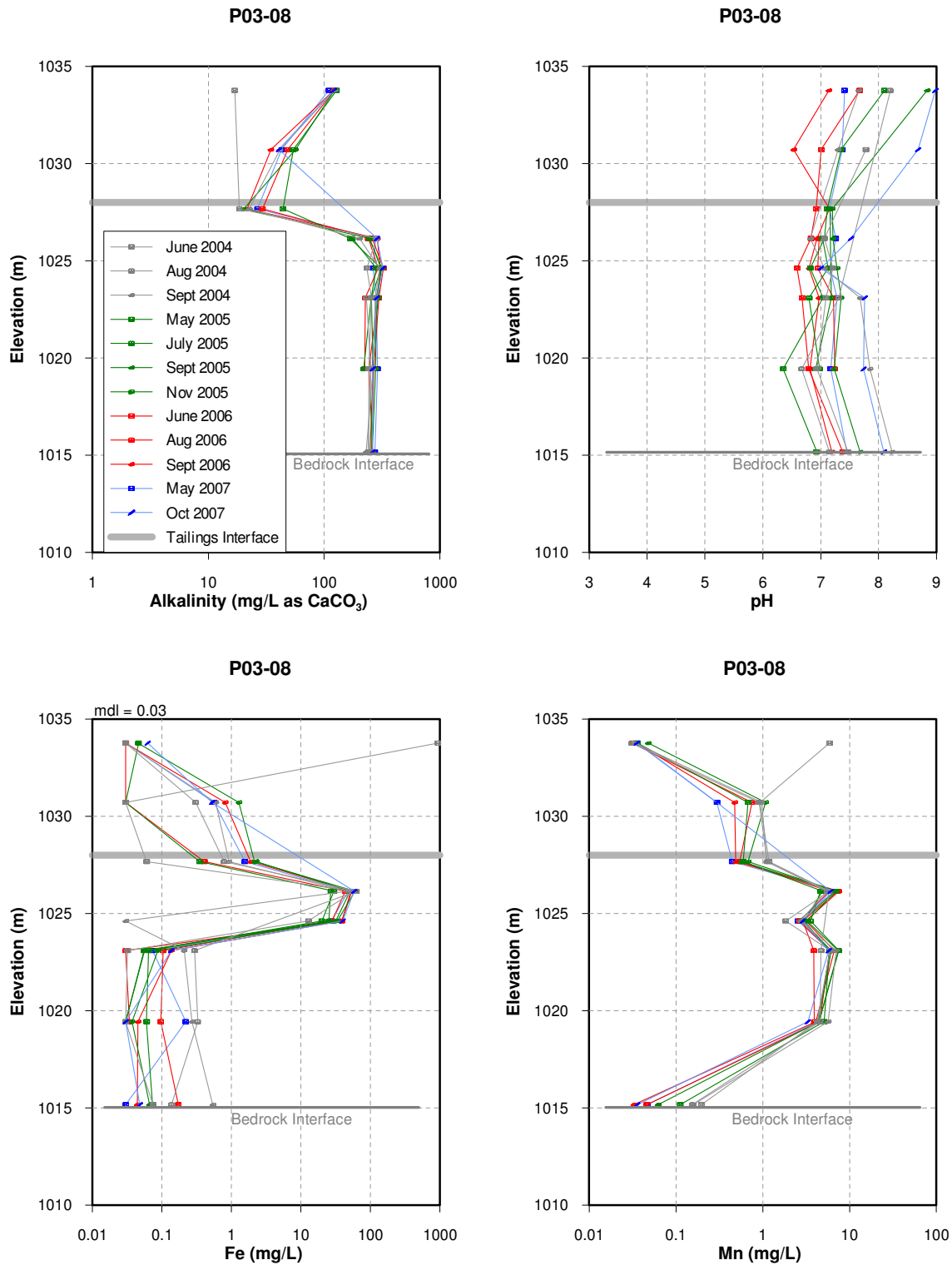


## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



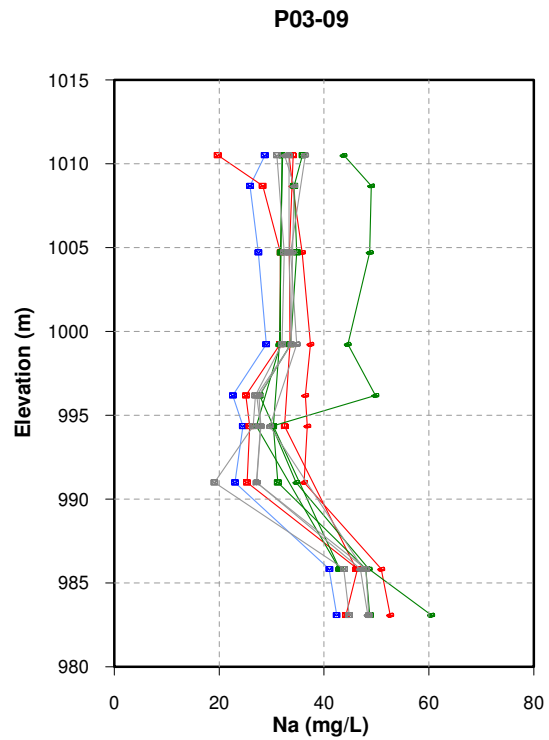
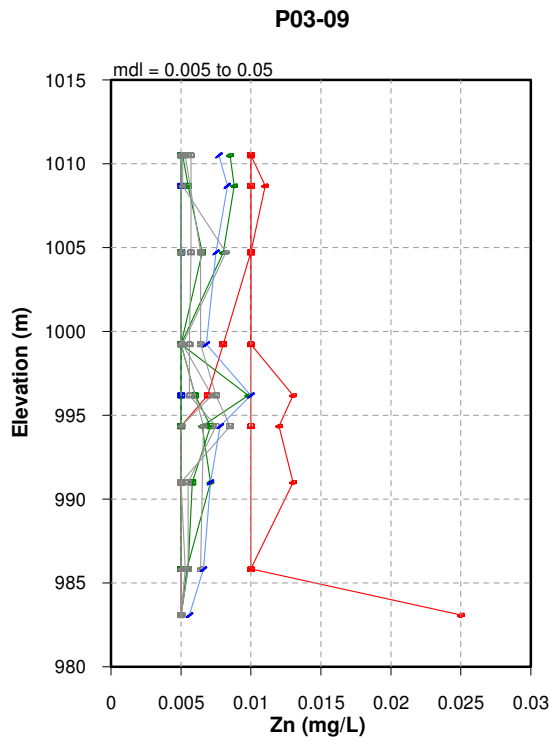
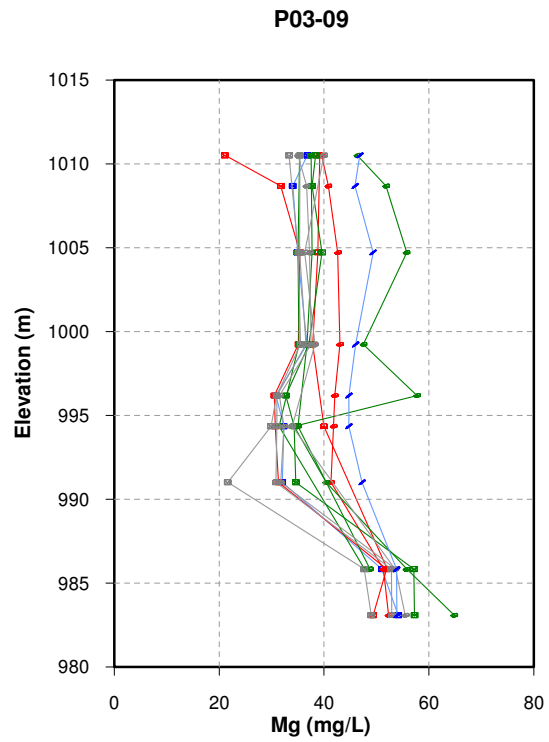
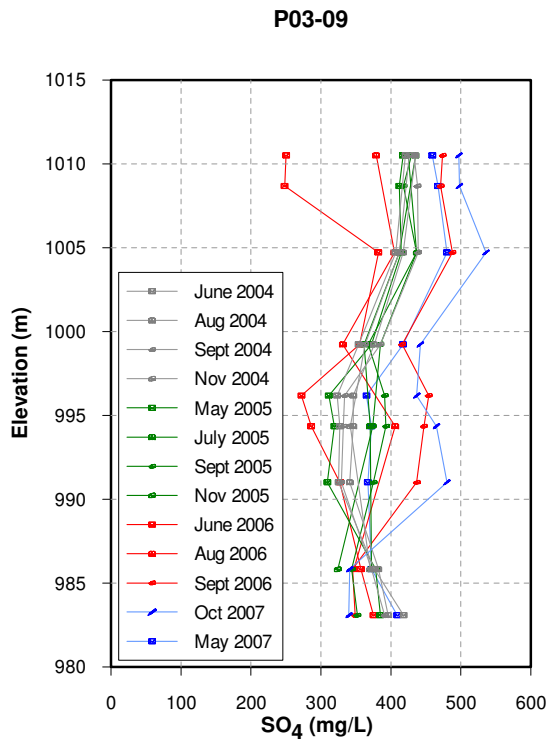
Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-08 (Intermediate Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



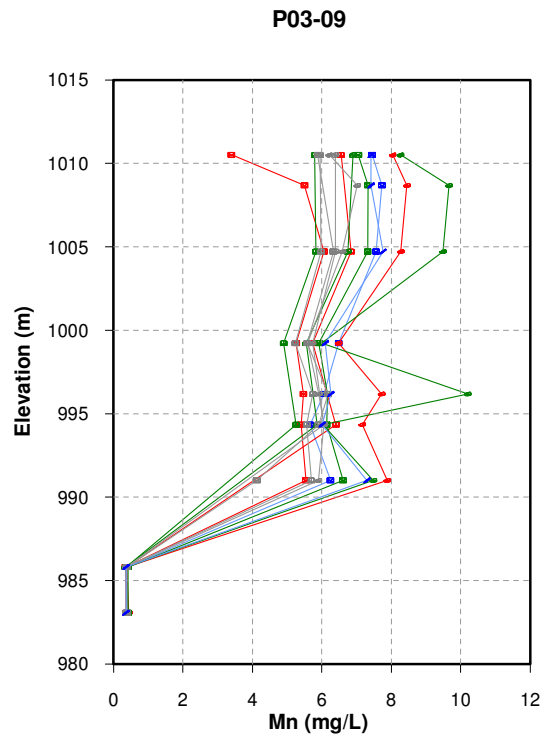
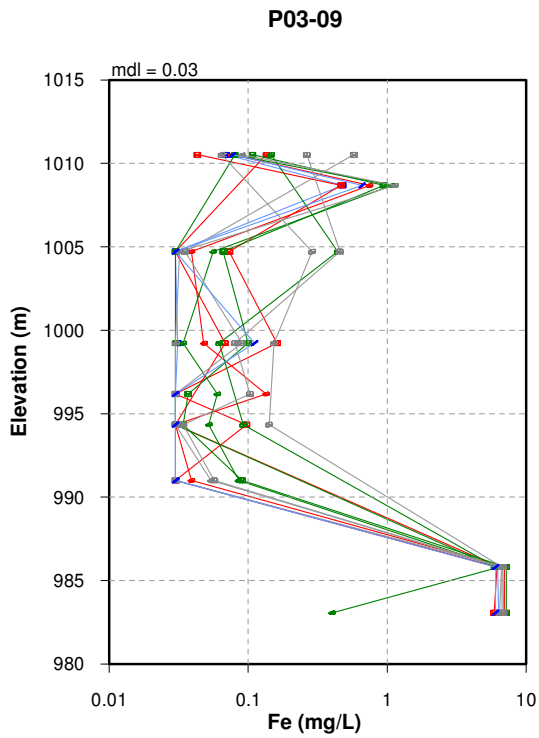
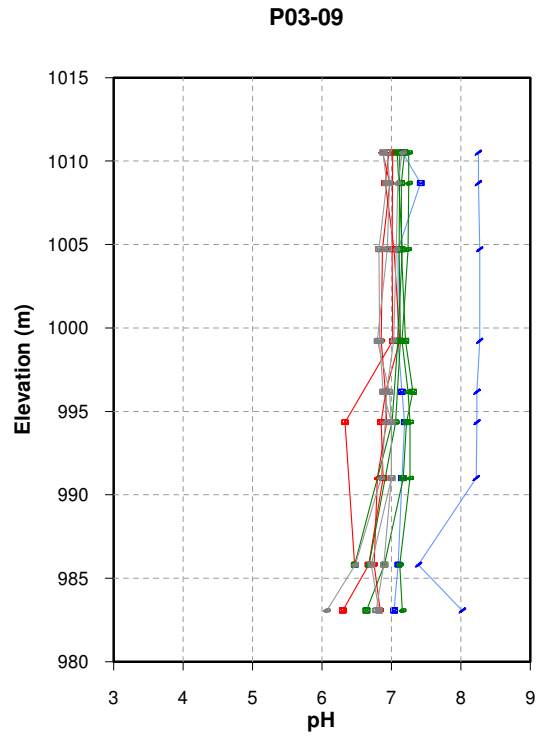
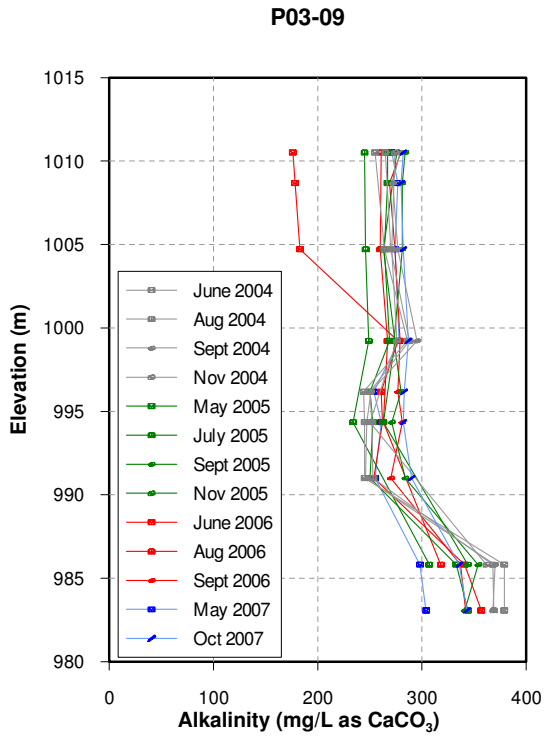
Water quality depth profiles of alkalinity, pH, Fe and Mn in P03-08 (Intermediate Impoundment).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



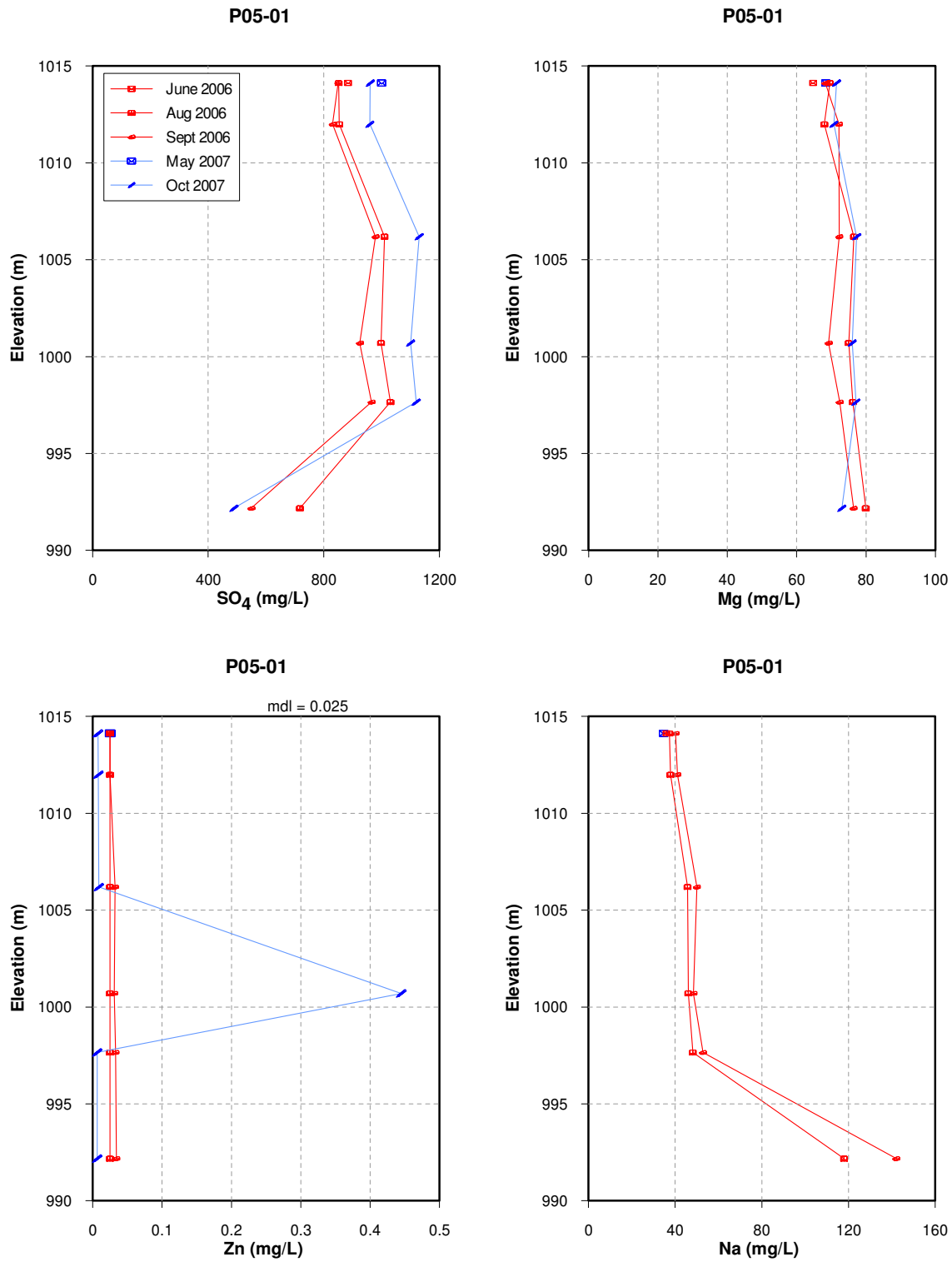
Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P03-09 (at Cross Valley Dam).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



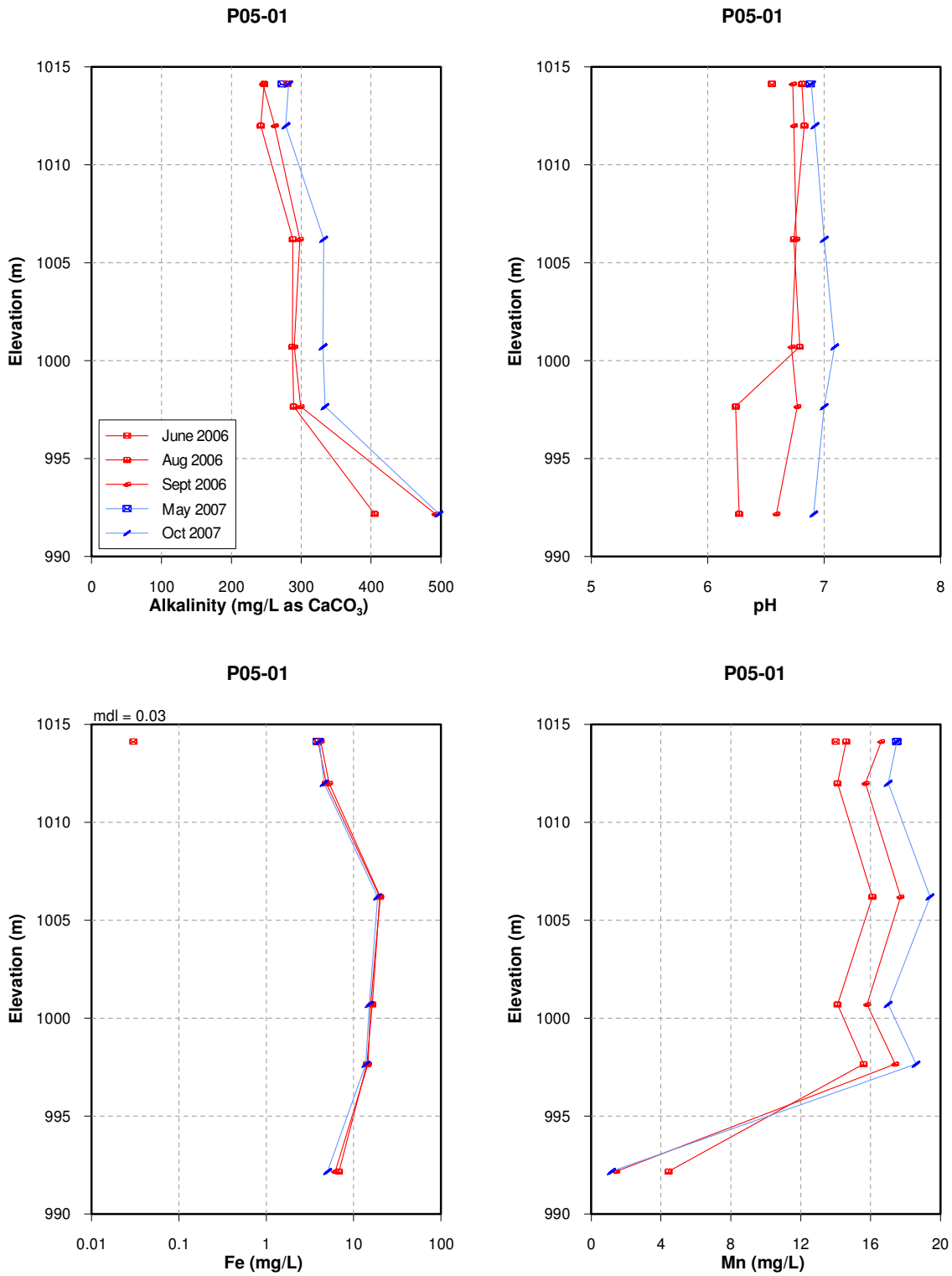
Water quality depth profiles of alkalinity, pH, Fe and Mn in P03-09 (at Cross Valley Dam).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



Water quality depth profiles of SO<sub>4</sub>, Mg, Zn and Na in P05-01 (at Cross Valley Dam).

## B1.4: Multilevel Well Depth Profiles of Groundwater Quality Temporal Trends



Water quality depth profiles of alkalinity, pH, Fe and Mn in P05-01 (at Cross Valley Dam).

**Appendix B1.5: Faro Mine Groundwater Monitoring Well and Sampling Event Exclusions**

STATION ID	Description	
BH10A/B	Insufficient data	
BH7D/S	Compromised due to frost-jacking	
P03-02-06	Well degasses	
P03-03 series	Influenced by upgradient leaky well	
P03-07 series	Compromised due to permafrost	
SRK05-05C	Insufficient data	
SRK05-SP-6	Dry	
X21C	Tailings in deep aquifer point	
X24A-96	Compromised	
X24B-96	Sand heave	
X24C-96	Compromised	
STATION ID	DATE	Description
BH14A	05-Jun-06	erroneous SO4 value
BH14B	05-May-05	erroneous SO4 value
BH14B	05-Jun-06	erroneous SO4 value
P01-01A	30-May-07	erroneous Zn value
P01-02B	10-May-05	erroneous SO4 value
P03-04-09	03-May-05	erroneous SO4 value
P96-6	11-Sep-05	erroneous SO4 value
S1A	05-Jun-06	erroneous SO4 value
S3	05-Jun-06	erroneous SO4 value
SRK05-SP-5	05-Jun-06	erroneous SO4 value
TH86-17	01-Jun-07	erroneous SO4 value
Other		
Replicate (REP) and Split (SS) samples have been excluded from the statistical analyses to avoid skewing of data results		

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# Appendix B Water Resources

## B2 Surface Water Quality

B2.1-1 Rose Creek Drainage Reference Sites

B2.1-2 Rose Creek Drainage Mine Run-off, Mine Effluent and Internal Sites

B2.1-3 Rose Creek Drainage Receiving Sites

B2.2-1 Vangorda Creek Drainage Reference Sites

B2.2-2: Vangorda Creek Drainage Mine Run-off, Mine Effluent and Internal Sites

B2.2-3: Vangorda Creek Drainage Receiving Sites

B2.3-1: Rose Creek/Anvil Creek/Pelly River Drainage Reference Sites

B2.3-2: Rose Creek/Anvil Creek/Pelly River Drainage Receiving Sites