

**Table H-1: Diversion Canal (Canal Dyke)
Thermistor CD-15**

CD-15		Location: Canal Dyke St. 1+530			Elevation (m amsl):	1054.73	Coordinates:		1233.7 mN 1028.7 mE	8V581228 6913287																			
Thermistor String #26		Date Installed:	1981	Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	applied	Surface Protector:	yes																				
Depth Correction	0.1																												
Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	11-Sep-96	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	13-Sep-01	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	16-Sep-04	31-May-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	19-Jun-08	24-Sep-08	30-Jun-09	16-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	20.00	13.84	11.56	11.52	11.93	11.36	13.04	12.03	16.84	11.56	12.16	11.57	12.04	11.11	8.87	12.50	13.40	13.87	11.66	13.11	12.99	13.97	13.52	12.89	11.90	16.93	12.66	11.10
2.0	-2.1	16.29	16.58	10.64	11.36	12.23	11.48	16.96	11.74	17.14	11.30	16.59	12.00	15.88	11.22	11.63	11.67	16.89	12.55	16.95	12.65	17.14	12.72	16.37	12.39	14.90	17.18	16.93	11.30
3.0	-3.1	15.99	23.62	15.29	16.47	18.13	17.46	24.88	17.37	24.84	17.05	24.82	18.61	24.71	17.12	21.04	16.94	24.35	17.39	24.52	18.43						24.62	-	-
4.0	-4.1	15.65		11.34	11.61	13.10	12.17	16.64	12.08	17.01		17.42	13.84	18.02	13.33	17.84	13.31		13.22	18.93	O/L	19.56	14.08	19.44	14.76	19.90	20.14	20.05	14.70
5.0	-5.1	15.71	16.11	11.81	11.65	13.06	12.38	16.12	11.88	16.21	12.38	16.24	12.68	16.26	12.31	15.91	12.35	16.05	11.70	16.20	12.91	16.50	15.69	16.40	12.61	16.49	16.75	16.61	12.40
6.0	-6.1	15.75	15.80	12.17	11.72	13.07	12.50	15.77	12.10	15.90	12.57	15.95	12.70	16.00	12.36	15.66	12.82	15.87	12.13	16.42	13.69	17.05	15.90	17.42	13.86	18.92	20.10	19.96	15.50
7.0	-7.1	15.53	15.49	12.61	12.28	13.67	13.09	15.39	12.60	15.52	13.10	15.53	13.43	15.59	12.94	15.54	13.15	15.30	12.16	15.45	13.34	15.63	15.17	15.73	13.08	15.81	16.05	15.95	12.80
8.0	-8.1	15.47	15.33	13.42	13.09	14.28	13.78	15.24	13.55	15.40	13.83	15.37	14.26	15.43	13.67	15.44	13.77	15.09	12.76	15.25	13.83	15.43	14.40	15.58	13.77	15.69	15.88	15.82	13.70
9.0	-9.1	15.41	15.19	14.09	13.78	14.68	14.38	15.23	14.39	15.40	14.52	15.37	14.88	15.45	14.40	15.47	14.46	15.13	13.50	15.27	14.46	15.28	15.03	15.84	14.94	16.75	17.66	17.73	16.30
10.0	-10.1	15.45	15.96	15.21	14.97	15.78	16.64	17.33	16.94	17.64	17.05	17.55	17.30	17.88	17.09	18.14	17.27	17.76	16.55	5.17	5.14	28.10				45.90	46.00	36.40	
*The initial reading (Nov 15/81) is excluded from the data set because post-installation equilibrium may not have been complete.																													
Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	11-Sep-96	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	13-Sep-01	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	16-Sep-04	31-May-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	19-Jun-08	24-Sep-08	30-Jun-09	16-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	-4.10	3.09	6.72	6.79	6.08	7.08	4.28	5.91	-0.78	6.72	5.69	6.70	5.89	7.53	12.20	5.14	3.74	3.05	6.55	4.18	4.36	2.90	3.56	4.52	6.13	-0.91	4.91	7.54
2.0	-2.1	-0.20	-0.55	8.35	7.01	5.51	6.79	-0.99	6.34	-1.19	7.12	-0.56	5.89	0.30	7.26	6.53	6.46	-0.91	4.98	-0.98	4.82	-1.19	4.71	-0.30	5.24	1.55	-1.27	-0.98	7.09
3.0	-3.1	0.20																					4.15				-8.27		
4.0	-4.1	0.70		7.15	6.67	4.23	5.72	-0.51	5.87	-0.93		-1.40	3.13	-2.05	3.88	-1.86	3.91		4.05	-3.00		-3.74	2.68	-3.62	1.74	-4.07	-4.29	-4.21	1.95
5.0	-5.1	0.60	0.11	6.31	6.58	4.27	5.35	0.09	6.19	-0.01	5.35	-0.05	4.87	-0.07	5.47	0.35	5.40	0.18	6.50	0.00	4.50	-0.36	0.63	-0.24	4.98	-0.35	-0.67	-0.51	5.32
6.0	-6.1	0.50	0.44	5.65	6.41	4.21	5.11	0.48	5.76	0.31	4.99	0.25	4.79	0.19	5.33	0.61	4.60	0.35	5.71	-0.32	3.28	-1.05	0.31	-1.47	3.03	-3.06	-4.34	-4.20	0.82
7.0	-7.1	0.80	0.85	4.95	5.48	3.33	4.20	0.98	4.96	0.81	4.18	0.80	3.68	0.72	4.43	0.78	4.10	1.09	5.68	0.90	3.82	0.67	1.26	0.55	4.21	0.45	0.14	0.26	4.64
8.0	-8.1	0.90	1.08	3.73	4.23	2.49	3.20	1.20	3.53	0.99	3.13	1.03	2.52	0.95	3.36	0.94	3.21	1.39	4.74	1.19	3.13	0.95	2.32	0.76	3.21	0.63	0.38	0.46	3.32
9.0	-9.1	1.00	1.28	2.77	3.22	1.96	2.37	1.23	2.35	1.01	2.18	1.05	1.69	0.95	2.34	0.92	2.26	1.36	3.63	1.18	2.26	1.17	1.49	0.46	1.61	-0.63	-1.71	-1.79	-0.12
10.0	-10.1	0.90	0.26	1.21	1.52	0.48	-0.56	-1.35	-0.90	-1.69	-1.03	-1.59	-1.31	-1.95	-1.08	-2.23	-1.28	-1.82	-0.45										

* The 3 metre depth tip is suspect

The node is malfunctioning. Numbers are not included in the graphs.

**Table H-2: Diversion Canal (Canal Dyke)
Thermistor CD-21**



CD-21		Location: Canal Dyke St.2+100				Elevation (m amsl):	1053.34	Coordinates: 1455.9 mN 509.5 mE		8V580708 6913505																									
Thermistor String #12		Date Installed:	1981	Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	NO	Surface Protector:	yes																										
Depth Correction:	0.0																																		
Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	
(m)	(m)	9-Dec-82	29-May-94	14-Sep-94	20-Sep-95	13-Sep-96	17-Oct-97	12-Nov-98	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	31-May-05	1-Jun-05	14-Sep-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-May-08	23-Jun-08	25-Sep-08	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10
3.0	-3.0	16.58	16.80	11.91	13.12	14.12	14.18	14.78	13.47	16.92	13.27	16.96	16.84	12.55	17.13	13.29	16.92	12.87	16.69	12.32	16.63	16.75	12.62	17.07	13.82	17.31	13.89	17.11	16.96	13.63	17.01	13.56	16.91	16.89	12.80
5.0	-5.0	16.56	16.45	14.61	15.04	16.56	15.29	14.65	15.78	16.42	15.15	16.34	16.40	14.56	16.42	15.13	16.37	14.93	16.20	14.08	15.81	15.94	14.20	16.31	15.01	16.47	15.74	16.33	16.39	14.89	16.48	15.38	16.09	16.21	14.70
8.0	-8.0	16.89	16.51	16.72	16.68	16.63	16.48	15.79	16.43	16.26	16.23	16.11	16.22	15.99	16.07	15.97	16.13	15.85	15.69	15.39	15.43	15.52	15.26	15.85	15.57	15.90	16.03	15.84	15.99	15.61	16.08	15.92	15.65	15.79	15.60
11.0	-11.0	16.87	16.31	16.27	16.31	16.40	16.48	nr	16.13	15.67	15.79	15.53	15.43	15.54	15.38	14.97	15.49	14.41	14.99	14.12	14.67	14.94	14.24	14.50	14.20			15.03	14.57	15.32	15.03	15.17	15.06	14.20	
13.0	-13.0	16.84	16.69	16.84	16.84	16.83	16.81	16.77	16.59	16.25	16.37	16.00	16.12	16.17	15.93	15.60	16.18	14.53	16.06	13.93	15.69	15.83	14.39	15.98	14.29	15.89	14.87	15.91	15.99	14.77	16.02	14.85	15.78	15.87	14.90
Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	
(m)	(m)	9-Dec-82	29-May-94	14-Sep-94	20-Sep-95	13-Sep-96	17-Oct-97	12-Nov-98	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	31-May-05	1-Jun-05	14-Sep-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-May-08	23-Jun-08	25-Sep-08	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10
3.0	-3.0	-0.30	-0.55	6.29	4.34	2.87	2.79	1.96	3.81	-0.69	4.11	-0.74	-0.60	5.23	-0.93	4.08	-0.69	4.73	-0.42	5.61	-0.35	-0.49	5.12	-0.86	3.30	-1.14	3.20	-0.91	-0.74	3.58	-0.79	3.68	-0.68	-0.66	4.83
5.0	-5.0	-0.30	-0.17	2.16	1.59	-0.30	1.26	2.11	0.64	-0.14	1.45	-0.04	-0.11	2.23	-0.14	1.47	-0.08	1.73	0.13	2.90	0.61	0.45	2.73	0.00	1.63	-0.20	0.69	-0.03	-0.10	1.79	-0.21	1.15	0.26	0.11	2.04
8.0	-8.0	-0.70	-0.25	-0.50	-0.45	-0.39	-0.22	0.62	-0.16	0.05	0.08	0.23	0.09	0.37	0.28	0.40	0.20	0.55	0.75	1.13	1.07	0.96	1.29	0.55	0.90	0.48	0.32	0.56	0.37	0.85	0.26	0.46	0.81	0.63	0.87
11.0	-11.0	-0.60	0.06	0.10	0.06	-0.05	-0.15		0.27	0.84	0.69	1.02	1.14	1.00	1.21	1.74	1.07	2.50	1.72	2.90	2.14	1.78	2.94	1.78	2.73	2.37	2.79		1.66	2.28	1.29	1.66	1.48	1.62	2.78
13.0	-13.0	-0.60	-0.42	-0.60	-0.60	-0.59	-0.56	-0.52	-0.31	0.10	-0.05	0.40	0.25	0.19	0.49	0.90	0.18	2.30	0.33	3.14	0.79	0.61	2.49	0.43	2.63	0.54	1.84	0.51	0.41	1.98	0.38	1.87	0.67	0.56	1.80

**Table H-3: Diversion Canal (Canal Dyke)
Thermistor CD-26**



CD-26		Location: Canal Dyke St.2+600	Elevation (m amsl): 1053.10				Coordinates: 1674.7 mN, 71.7 mE	8V580269 6913720																
		Thermistor String #17	Date Installed: 1981	Thermistor Type: Cantec Controls YSI 44007	Ice-Bath Calibration: applied	Surface Protector: yes																		
Depth Correction	-0.4																							
Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	
(m)	(m)	9-Dec-81	1-Jun-94	14-Sep-94	21-Sep-95	13-Sep-96	14-Sep-99	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	1-Jun-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10
1.0	-0.6	22.70	13.14	11.87	11.54	11.98	11.51	14.85	15.64	17.85	17.34	12.28	17.76	16.40	19.82	13.91	18.27	15.43	18.84	15.08	18.32	22.28	16.19	15.20
2.0	-1.6	16.32	16.38	11.07	11.52	11.97	11.63	16.08	11.97	15.52	11.55	10.93	11.99	16.67	13.17	16.68	12.72	16.75	12.44	13.28	12.36	17.30	16.99	11.10
3.0	-2.6	16.20	16.76	11.14	12.01	12.77	12.40	17.06	12.99	16.99	12.38	14.03	12.01	17.00	12.75	17.22	12.92	17.26	12.92	16.68	12.79	17.38	17.34	11.80
4.0	-3.6	16.17		11.94	12.60	13.59	13.26	16.60	13.83	16.54	13.15	16.46	12.45		12.46		13.03	16.67	13.55	16.51	13.11	16.45		12.40
5.0	-4.6	16.24	15.88	12.88	13.36	14.58	14.38	16.99	15.33	17.13	14.74	17.20	13.88	16.96	13.10	17.40	14.53	16.67	15.42	17.96	15.25	17.96	18.15	14.80
6.0	-5.6	16.28	17.71	15.80	18.08	22.69	27.08	35.50	34.25	37.50	35.00	40.20	34.00	44.20	38.00		42.30	48.30	44.06	54.40	50.60	54.90	55.90	48.20
7.0	-6.6	16.43	15.73	14.56	14.73	15.61	15.69	16.51	16.23	16.63	15.92	16.68	15.11	16.30	14.41	16.65	15.37	16.82	16.25	16.95	15.88	16.70	16.88	15.80
8.0	-7.6	16.50	15.19	16.25	14.73	15.35	15.42	15.70	15.73	15.83	15.56	15.86	14.99	15.43	14.24	15.73	15.08	15.87	16.06	15.97	15.46	15.74	15.90	15.50
9.0	-8.6	16.46	15.33	15.60	15.38	15.80	16.10	16.90	17.17	17.38	17.43	17.99	17.62	18.31	18.06	19.84	19.38	19.85	20.78	22.42	22.53	23.49	23.73	26.20
10.0	-9.6	16.24	14.68	15.07	14.91	15.01	15.04	15.11	15.34	15.26	15.34	15.29	15.21	14.85	14.57	15.12	15.13	15.21	15.93	15.37	15.39	15.10		15.60

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	
(m)	(m)	9-Dec-81	1-Jun-94	14-Sep-94	21-Sep-95	13-Sep-96	14-Sep-99	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	1-Jun-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10
1.0	-0.6	-6.40	4.23	6.28	6.86	6.10	6.91	1.79	0.77	-1.81	-1.25	5.59	-1.71	-0.16	-3.82	3.09	-2.26	1.03	-2.85	1.49	-2.31	-6.15	0.14	1.39
2.0	-1.6	-0.20	-0.27	7.58	6.76	5.98	6.57	0.09	5.98	0.79	6.71	7.84	5.95	-0.61	4.05	-0.62	4.75	-0.70	5.20	3.89	5.33	-1.38	-1.02	7.48
3.0	-2.6	0.00	-0.67	7.50	5.97	4.72	5.32	-1.01	4.38	-0.93	5.35	2.84	5.97	-0.94	4.76	-1.19	4.49	-1.24	4.49	-0.57	4.69	-1.39	-1.34	6.31
4.0	-3.6	0.00		6.05	4.96	3.45	3.94	-0.51	3.10	-0.44	4.10	-0.34	5.21	5.19	4.32	-0.56	4.32	-0.56	3.53	-0.37	4.20	-0.27		5.33
5.0	-4.6	-0.10	0.34	4.50	3.77	2.02	2.30	-0.98	1.03	-1.14	1.81	-1.22	3.00	-0.95	4.16	-1.45	2.14	-0.56	0.97	-2.01	1.19	-2.06	-2.27	1.75
6.0	-5.6	-0.10																						
7.0	-6.6	-0.30	0.56	2.08	1.85	0.71	0.61	-0.39	-0.06	-0.53	0.32	-0.59	1.35	-0.14	2.29	-0.56	1.03	-0.74	-0.06	-0.89	0.39	-0.62	-0.83	0.47
8.0	-7.6	-0.40	1.22	-0.10	1.83	1.02	0.93	0.57	0.54	0.41	0.75	0.37	1.49	0.91	2.50	0.54	1.41	0.40	0.17	0.28	0.92	0.54	0.34	0.84
9.0	-8.6	-0.35																						
10.0	-9.6	-0.10	1.89	1.37	1.58	1.45	1.41	1.32	1.02	1.12	1.02	1.08	1.19	1.66	2.04	1.30	1.34	1.24	0.33	1.03	1.01	1.34		0.71

The node is malfunctioning. Numbers are not included in the graphs.

Historic Source Data: As compiled by BGC in 2009 Annual Geotechnical Inspection; Revised as of 2010 by Denison Environmental Services (DES).

Table H-4: Diversion Canal (Spoil Pile) Thermistor SP-3



SP-3	Location:	N. of canal dyke St.1 +900		Surface Elevation (m amsl):	1051.2		Coordinates:	1394.4 m N & 704.5 m E		Thermistor Type:	Cantec Controls VSI 44007		Ice-Bath Calibration:	applied		Surface Protector:	yes											
	Date Installed:	1981																										
Thermistor String #25	Depth Correction	0.1																										
Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	15-Oct-96	6-Nov-97	15-Nov-98	15-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	6-Jul-04	16-Sep-04	12-Oct-05	15-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	24-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	16.85	14.88	12.72	12.60	17.37	16.59	17.30	12.15	12.38	13.69	12.31	17.30	12.41	8.65	15.69	21.86	13.01	13.05	14.05	13.73	13.21	13.53	12.51	n/r	19.02	11.77	
2.0	-2.1	16.20	16.67	11.81	12.29	15.90	14.88	14.95	12.18	16.73	12.06	14.76	11.81	12.21	13.10	16.93	13.22	16.98	16.87	12.73	14.76	n/r	16.78	12.45				
3.0	-3.1	16.25	16.66	12.04	12.52	15.59	14.43	14.48	12.38	16.48			17.41	11.78	12.46	13.82	12.87	16.76	62.50	16.90	16.74	12.87	15.50	n/r	0.00	12.45		
4.0	-4.1	16.27	18.85	14.32	15.13	16.19	18.09	29.54	nr	nr							53.40	69.30	340.90	92.70	107.30	108.70	n/r	117.50	96.50			
5.0	-5.1	16.27	17.10	14.32	14.82	15.10	15.06	15.20	15.11	18.93	16.23	23.65	18.05	13.12	15.35	18.00	144.00	300.40	15.23	1.90	2.30	1.968 Δ	n/r	2.84	n/r			
6.0	-6.1	16.39	16.99	15.88	15.31	15.23	14.90	14.80	14.96	14.73	19.10	14.50	13.97	25.52	25.10	14.92	17.21	10.12	17.45	17.51	15.37	17.93	n/r	17.69	15.69			
7.0	-7.1	16.49	16.81	16.50	16.33	16.04	15.52	15.01	15.49	15.27		14.87	15.01	14.71		17.03	14.49	16.51	15.15	14.20			o/l	n/r	0.00	o/l		
8.0	-8.1	16.54	16.69	16.91	16.80	16.73	16.27	15.39	15.78		18.79	18.79					15.80	15.40	15.93	15.99	15.08	16.57	n/r	16.01	15.50			
9.0	-9.1	16.54	16.60	16.82	16.71	16.70	16.77	15.90	16.01	15.78	18.50	15.34		15.04	16.41		14.93	15.66	16.13	15.79	15.87	15.25	16.08	n/r	15.96	15.72		
10.0	-10.1	16.48	16.65	17.74	16.77	16.77	16.75	16.68	16.38	15.64					85.10				16.35	17.34	16.95	17.96	n/r	18.15	18.14			
* The initial reading (Nov 15/81) is excluded from the data set because post-installation equilibrium may not have been complete.																												
Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	15-Oct-96	6-Nov-97	15-Nov-98	15-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	6-Jul-04	16-Sep-04	12-Oct-05	15-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	24-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	-0.80	1.64	4.77	4.96	-1.39	-0.50	-1.31	5.70	5.32	3.30	5.44	8.08	5.27	12.72	0.60	-5.80	4.32	4.26	2.78	3.24	4.01	3.53	5.11	-3.23	6.34		
2.0	-2.1	0.00	-0.56	6.31	5.50	0.33	1.64	1.55	5.65	-0.66	5.85	1.80	6.28	5.60	4.18	-0.89	4.00	-0.95	-0.82	4.76	1.80	-0.71	5.83					
3.0	-3.1	-0.10	-0.59	5.87	5.08	0.72	2.25	2.18	5.32	-0.37			-1.44	6.33	5.19	3.11	4.54	-0.70		-0.86		-0.67	4.54	0.84				
4.0	-4.1	-0.10	-2.95	2.42	1.33	-0.02	-2.18																					
5.0	-5.1	-0.10	-1.07	2.42	1.74	1.35	1.40	1.22	1.34	-3.05	-0.07	-7.28	-2.14	4.15	1.03	-2.08		1.18										
6.0	-6.1	-0.30	-1.00	0.32	1.04	1.18	1.61	1.75	1.54	1.84	-3.23	2.15	2.89	1.87	-1.01	2.17	-0.40	1.29	-1.48			-1.55	1.00	-2.01	-1.77	0.58		
7.0	-7.1	-0.40	-0.77	-0.41	-0.21	0.16	0.81	1.47	0.85		1.13																	
8.0	-8.1	-0.40	-0.57	-0.83	-0.70	-0.66	-0.12	0.98	0.48								0.46	0.96	0.30			0.22	1.38	-0.47	0.21	0.84		
9.0	-9.1	-0.40	-0.47	-0.73	-0.60	-0.63	-0.71	0.33	0.20	0.48	0.99	-2.61	1.04	1.43	-0.28		1.57	0.63	0.05	0.47		0.37	1.16	0.11	0.28	0.57		
10.0	-10.1	-0.40	-0.60	-1.83	-0.74	-0.71	-0.68	-0.60	-0.25	0.66									-0.21			-1.36			-2.28	-2.27		

**Table H-5: Diversion Canal (Spoil Pile)
Thermistor SP-5**

SP-5		Location: N. of canal dyke St.2+950		Surface Elevation (m amsl): 1046.		Coordinates: 1898.2 m N & 183.1 m W		8V580012 6913942																						
Date Installed:		1981		Thermistor Type:		Cantec Controls YSI 44007		Ice-Bath Calibration:		applied										Surface Protector:		yes								
Thermistor String #24		Depth Correction:		0.1																										
Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	30-May-94	14-Sep-94	21-Sep-95	13-Sep-96	10-Nov-97	12-Nov-98	14-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	28-Oct-03	6-Jul-04	18-Sep-04	6-Jun-07	24-Sep-07	23-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10			
1.0	-1.1	18.19	14.47	11.96	12.37	12.66	16.43	16.51	11.82	14.67	12.23	12.84	12.29	12.93	12.20	13.37	15.44	9.59	12.47	13.68	12.58	11.18	12.50	10.98	16.86	13.92	10.70			
2.0	-2.1	16.21	16.68	11.68	12.28	13.37		15.19	12.49	16.88	12.55	17.03	12.37	16.72	11.76	16.79	14.27	12.06	12.06	17.04	12.51	13.53	12.09	12.80	17.48	16.64	11.10			
3.0	-3.1	16.38	16.70	12.39	13.08	14.38	15.39	14.85	13.51	16.95	13.52	16.87	13.76	16.86	16.07	16.93	14.01	14.18	12.54	17.01		14.96	12.46	14.29	17.27	16.55	11.80			
4.0	-4.1	16.32	16.79	13.37	14.02	15.46				17.23	14.72	17.23	14.94	17.21		17.35			13.59	17.61		16.50	13.62	16.09	18.60	17.32	13.30			
5.0	-5.1	16.38	16.48	14.21	14.48	15.78	15.24	14.64	14.99	16.58	14.97	16.51	15.19	16.40	13.84	16.46	14.04	15.87	13.59	16.24		15.60	13.14	17.70	17.00	15.77	12.90			
6.0	-6.1	16.33	16.76	15.76	15.81	17.04		15.89	16.65	17.69	16.75	17.76	17.17	17.77	15.87	18.04	15.92		16.10	19.24		21.00	16.90	19.34	21.60	19.79	17.40			
7.0	-7.1	16.36	16.73	17.00	16.78	17.51				18.12	17.62	18.16	18.22	18.19		18.47	16.75	18.49	16.99	18.32		18.11	16.43	17.89	19.79	17.93	16.40			
8.0	-8.1	16.40	16.48	16.72	16.48	16.68				16.68	16.38	16.50		16.40		16.40	15.31	16.36	15.59	15.81			14.67	15.38	17.04	15.32	14.50			
9.0	-9.1	16.54	16.72	17.14	16.74	16.91	17.63			16.81	16.92	16.86	16.85		16.80	16.61	16.80	16.17	16.77	16.44	16.12		15.91	15.45	15.74	17.47	15.64	15.30		
10.0	-10.1	16.40	16.64	17.06	16.67	16.85		16.73	16.72	16.75	16.77	16.77		16.75	16.82	16.78	16.54	16.72	16.68	15.89		15.68	15.47	15.48	17.29	15.38	15.20			
* The initial reading (Nov 15/81) is excluded from the data set because post-installation equilibrium may not have been complete.																														
Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	
(m)	(m)	9-Dec-81	30-May-94	14-Sep-94	21-Sep-95	13-Sep-96	10-Nov-97	12-Nov-98	14-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	28-Oct-03	6-Jul-04	18-Sep-04	6-Jun-07	24-Sep-07	23-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10			
1.0	-1.1	-2.20	2.28	6.11	5.43	4.96	-0.22	-0.31	6.35	2.01	5.66	4.67	5.56	4.53	5.71	3.86	1.00	10.65	5.26	3.40	5.09	7.48	5.22	7.85	-0.77	3.07	8.34			
2.0	-2.1	0.00	-0.56	6.54	5.52	3.81		1.27	5.18	-0.80	5.08	-0.97	5.38	-0.61	6.40	-0.69	2.51	5.89	5.89	-0.98	5.15	3.57	5.84	4.69	-1.48	-0.51	7.54			
3.0	-3.1	-0.30	-0.68	5.25	4.16	2.27	0.93	1.63	3.51	-0.97	3.50	-0.87	3.15	-0.86	0.08	-0.94	2.79	2.55	5.01	-1.03		1.49	5.14	2.39	-1.35	-0.51	6.19			
4.0	-4.1	-0.20	-0.75	3.75	2.80	0.87				-1.25	1.84	-1.25	1.54	-1.23				3.43	-1.68			-0.41	3.38	0.08	-2.77	-1.36	3.85			
5.0	-5.1	-0.30	-0.42	2.51	2.13	0.43	1.12	1.91	1.45	-0.54	1.47	-0.45	1.18	-0.32	3.03	-0.39	2.74	0.32	3.40	-0.13		0.66	4.07	-1.81	-1.04	0.44	4.41			
6.0	-6.1	-0.20	-0.71	0.50	0.44	-1.03		0.34	-0.58	-1.76	-0.69	-1.83	-1.18	-1.84	0.36	-2.14	0.30		0.08	-3.38		-5.05	-0.87	-3.48	-5.61	-3.92	-1.42			
7.0	-7.1	-0.20	-0.64	-0.95	-0.70	-1.53				-2.19	-1.65	-2.23	-2.30	-2.27				-0.66	-2.58	-0.94	-2.40		-2.18	-0.29	-1.94	-3.90	-1.98	-0.25		
8.0	-8.1	-0.30	-0.40	-0.68	-0.40	-0.63				-0.63	-0.28	-0.42		-0.30				1.05	-0.25	0.69	0.42			1.94	1.01	-1.06	1.06	2.16		
9.0	-9.1	-0.40	-0.61	-1.09	-0.63	-0.83	-1.64			-0.71	-0.84	-0.77	-0.76		-0.70	-0.48	-0.70	0.04	-0.67	-0.28	0.10		0.36	0.94	0.57	-1.47	0.69	1.12		
10.0	-10.1	-0.30	-0.59	-1.07	-0.62	-0.83		-0.69	-0.68	-0.71	-0.74	-0.74		-0.71	-0.80	-0.75	-0.47	-0.68	-0.63	0.32		0.58	0.84	0.83	-1.34	0.96	1.19			

Table H-6 and H-7 : Diversion Canal (Canal Dyke) 2010 Inclinator Data - CD-10 and CD-15

CD-10				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 11:49 ON 16/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	0.00925	-0.007861	-0.007494	0.007444
-1	0.010388	-0.008983	-0.008064	0.008043
-1.5	0.009198	-0.007761	-0.001517	0.001572
-2	0.008524	-0.007263	0.009202	-0.009196
-2.5	0.009293	-0.00793	0.012388	-0.012407
-3	0.011919	-0.010609	0.016162	-0.01616
-3.5	0.015024	-0.013739	0.020206	-0.020215
-4	0.016902	-0.015579	0.021983	-0.021975
-4.5	0.021073	-0.019869	0.025361	-0.025342
-5	0.028197	-0.026904	0.029913	-0.030025
-5.5	0.031303	-0.030109	0.03106	-0.031066
-6	0.033428	-0.032223	0.029967	-0.029973
-6.5	0.034128	-0.033008	0.02652	-0.026518
-7	0.032706	-0.031162	0.022667	-0.022734
-7.5	0.030001	-0.028705	0.017382	-0.017155
-8	0.023907	-0.022489	0.008569	-0.008605
-8.5	0.021575	-0.020081	0.007579	-0.007658
-9	0.021326	-0.019852	0.00687	-0.006935
-9.5	0.020919	-0.019429	0.0067	-0.006768
-10	0.021212	-0.019766	0.006619	-0.006674

CD-15				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 11:36 ON 16/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.079851	0.078091	0.041842	-0.043828
-1	-0.040352	0.039556	0.010234	-0.010721
-1.5	-0.023649	0.024481	0.00535	-0.005371
-2	-0.024388	0.025258	0.004002	-0.004015
-2.5	-0.024825	0.025639	0.006416	-0.006541
-3	-0.020905	0.021858	0.005696	-0.005741
-3.5	-0.01787	0.018696	0.004655	-0.004551
-4	-0.009272	0.0101	0.007867	-0.008001
-4.5	-0.002528	0.003432	0.006854	-0.006906
-5	0.003988	-0.003027	0.005162	-0.005257
-5.5	0.007893	-0.007068	0.00628	-0.006337
-6	0.010387	-0.009476	0.007129	-0.007227
-6.5	0.014356	-0.013505	0.005936	-0.006098
-7	0.026243	-0.025429	0.003952	-0.003954
-7.5	0.031568	-0.030735	0.00228	-0.002424
-8	0.032097	-0.031288	0.002147	-0.002281
-8.5	0.031334	-0.030506	0.00212	-0.002307
-9	0.029956	-0.02915	0.005082	-0.005173
-9.5	0.029616	-0.028832	0.007669	-0.007841
-10	0	0	0	0

Table H-8 and H-9: Diversion Canal (Canal Dyke) 2010 Inclinator Data - CD-19 and CD-21

CD-19				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 12:17 ON 16/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.067941	0.069003	-0.019026	0.020413
-1	-0.065841	0.067014	-0.01777	0.019034
-1.5	-0.054837	0.056135	-0.01305	0.013906
-2	-0.045453	0.046596	-0.013705	0.014948
-2.5	-0.040599	0.041799	-0.015059	0.016353
-3	-0.038928	0.040106	-0.014555	0.015782
-3.5	-0.039959	0.041154	-0.014534	0.015713
-4	-0.041829	0.04297	-0.017677	0.019054
-4.5	-0.045059	0.046229	-0.021165	0.022267
-5	-0.053169	0.054179	-0.025408	0.026936
-5.5	-0.059325	0.060529	-0.024604	0.025783
-6	-0.056905	0.058151	-0.025298	0.02664
-6.5	-0.048593	0.049721	-0.025889	0.027075
-7	-0.046172	0.047266	-0.026535	0.027881
-7.5	-0.049025	0.050313	-0.021236	0.022202
-8	-0.053602	0.054696	-0.023297	0.024969
-8.5	-0.050327	0.051476	-0.020924	0.021881
-9	-0.073458	0.074582	-0.035971	0.040402
-9.5	-0.094136	0.094372	-0.050506	0.053535
-10	-0.059873	0.061325	-0.036546	0.034896

CD-21				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 17:20 ON 13/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.086012	0.087173	-0.028259	0.028356
-1	-0.072502	0.07163	-0.016077	0.018107
-1.5	-0.042996	0.043528	0.007761	-0.005012
-2	-0.028376	0.029612	0.017846	-0.017951
-2.5	-0.025381	0.026727	0.02098	-0.020671
-3	-0.023065	0.023992	0.034892	-0.035061
-3.5	-0.021167	0.022548	0.039708	-0.039539
-4	-0.019139	0.019995	0.048821	-0.048832
-4.5	-0.003677	0.004615	0.055865	-0.055835
-5	0.013912	-0.012018	0.051304	-0.051548
-5.5	-0.011159	0.012557	0.054426	-0.0543
-6	0.005364	-0.004625	0.068033	-0.068159
-6.5	0.021147	-0.02496	0.072291	-0.070771
-7	0.005512	-0.003061	0.045596	-0.045768
-7.5	0.014299	-0.011544	0.073708	-0.072944
-8	0.00708	-0.005748	0.077382	-0.077588
-8.5	0.007684	-0.006117	0.063764	-0.063968
-9	0.007084	-0.006424	0.059194	-0.059002
-9.5	0.007315	-0.006201	0.045663	-0.04578
-10	0.000133	0.001556	0.039501	-0.039452

Table H-10 and H-11: Diversion Canal (Canal Dyke) 2010 Inclinometer Data - BH94CD-1 and BGC05-08



BH94CD-1				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 16:05 ON 13/09/10				
DEPTH OF TUBE : -2.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.02408	0.025219	-0.030948	0.030821
-1	-0.018271	0.019941	-0.020205	0.020045
-1.5	-0.005931	0.006803	0.000426	-0.000276
-2	-0.005964	0	0.000395	0

BGC05-08				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 16:46 ON 13/09/10				
DEPTH OF TUBE : -13.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.000803	0.001337	0.006499	-0.00654
-1	-0.000826	0.00182	0.005247	-0.005364
-1.5	-0.001678	0.002889	0.003482	-0.003667
-2	-0.004591	0.005731	0.002387	-0.002563
-2.5	-0.006738	0.00796	0.001307	-0.001513
-3	-0.007441	0.008583	0.000151	-0.000372
-3.5	-0.005935	0.007134	-0.001416	0.001222
-4	-0.005547	0.006733	-0.001651	0.0014
-4.5	-0.005929	0.007133	-0.002046	0.001858
-5	-0.005512	0.006693	-0.003712	0.003509
-5.5	-0.003518	0.004723	-0.005625	0.005422
-6	-0.001263	0.002438	-0.006644	0.006446
-6.5	-0.002744	0.003935	-0.006356	0.006172
-7	-0.004835	0.006054	-0.006861	0.006605
-7.5	-0.004747	0.005944	-0.009789	0.009595
-8	-0.008535	0.009729	-0.008928	0.008749
-8.5	-0.013294	0.014512	-0.009371	0.009148
-9	-0.019852	0.021057	-0.010755	0.010554
-9.5	-0.022359	0.023531	-0.010912	0.010703
-10	-0.02352	0.024726	-0.01223	0.011969
-10.5	-0.024652	0.025832	-0.014354	0.014175
-11	-0.023485	0.024633	-0.015958	0.015832
-11.5	-0.020991	0.022174	-0.017333	0.01714
-12	-0.024266	0.025448	-0.015609	0.015345
-12.5	-0.025033	0.026295	-0.014464	0.014204
-13	0	0	0	0

**Table H-12 and H-13: Diversion Canal (Canal Dyke)
 2010 Inclinator Data - BGC05-05 and BH91-CD1**

BGC05-05				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 17:06 ON 13/09/10				
DEPTH OF TUBE : -12.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.00862	0.009736	0.002752	-0.00281
-1	-0.00874	0.009929	0.00377	-0.00389
-1.5	-0.01043	0.011663	0.004212	-0.00431
-2	-0.01261	0.013762	0.004268	-0.00437
-2.5	-0.0145	0.015613	0.0047	-0.00477
-3	-0.01431	0.015508	0.004035	-0.00409
-3.5	-0.01412	0.015292	0.003262	-0.0033
-4	-0.0129	0.014111	0.002708	-0.00281
-4.5	-0.01122	0.012369	0.001985	-0.00207
-5	-0.00936	0.010576	0.00132	-0.0014
-5.5	-0.00818	0.009381	0.000911	-0.00101
-6	-0.00466	0.005788	0.000743	-0.00082
-6.5	-0.00432	0.005501	0.001402	-0.0015
-7	-0.00503	0.006202	0.001769	-0.00191
-7.5	-0.00605	0.007172	0.001929	-0.00204
-8	-0.00705	0.008268	0.00218	-0.00231
-8.5	-0.00856	0.009807	0.002463	-0.00259
-9	-0.00808	0.009243	0.00356	-0.00374
-9.5	-0.00896	0.010185	0.004295	-0.00443
-10	-0.01166	0.012938	0.003685	-0.00384
-10.5	-0.01274	0.01393	0.004356	-0.00459
-11	-0.01345	0.014739	0.003837	-0.00404
-11.5	-0.01415	0.015377	0.003452	-0.0037
-12	0	0	0	0

BH91-CD1				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 11:20 ON 16/09/10				
DEPTH OF TUBE : -11.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.0008	0.001337	0.006499	-0.00654
-1	-0.00083	0.00182	0.005247	-0.00536
-1.5	-0.00168	0.002889	0.003482	-0.00367
-2	-0.00459	0.005731	0.002387	-0.00256
-2.5	-0.00674	0.00796	0.001307	-0.00151
-3	-0.00744	0.008583	0.000151	-0.00037
-3.5	-0.00594	0.007134	-0.00142	0.001222
-4	-0.00555	0.006733	-0.00165	0.0014
-4.5	-0.00593	0.007133	-0.00205	0.001858
-5	-0.00551	0.006693	-0.00371	0.003509
-5.5	-0.00352	0.004723	-0.00563	0.005422
-6	-0.00126	0.002438	-0.00664	0.006446
-6.5	-0.00274	0.003935	-0.00636	0.006172
-7	-0.00484	0.006054	-0.00686	0.006605
-7.5	-0.00475	0.005944	-0.00979	0.009595
-8	-0.00854	0.009729	-0.00893	0.008749
-8.5	-0.01329	0.014512	-0.00937	0.009148
-9	-0.01985	0.021057	-0.01076	0.010554
-9.5	-0.02236	0.023531	-0.01091	0.010703
-10	-0.02352	0.024726	-0.01223	0.011969
-10.5	-0.02465	0.025832	-0.01435	0.014175
-11	-0.02349	0.024633	-0.01596	0.015832
-11.5	-0.02099	0.022174	-0.01733	0.01714
-12	-0.02427	0.025448	-0.01561	0.015345
-12.5	-0.02503	0.026295	-0.01446	0.014204
-13	0	0	0	0

**Table H-14 and H-15: Diversion Canal (Spoil Pile)
 2010 Inclinometer Data - SP-2 and SP-5**

SP-2				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 14:52 ON 25/06/10				
DEPTH OF TUBE : -7.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.0442	0.04506	0.02334	-0.0237
-1	-0.0408	0.04177	0.02422	-0.0245
-1.5	-0.0253	0.026	0.0248	-0.0252
-2	0.00439	-0.0036	0.01806	-0.0182
-2.5	-0.0003	0.00112	0.01873	-0.0191
-3	0.0129	-0.0129	0.00543	-0.0043
-3.5	0.015	-0.0154	0.01177	-0.0126
-4	-0.0104	0.01099	0.02999	-0.0304
-4.5	0.00743	-0.0066	0.01984	-0.02
-5	0.02627	-0.0257	0.01523	-0.0151
-5.5	0.02584	-0.025	-0.0084	0.00811
-6	0.03347	-0.0337	-0.0237	0.02212
-6.5	0.01933	-0.0222	0.02075	-0.0192
-7	0.03302	-0.0354	0.04735	-0.0463

SP-5				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 14:27 ON 25/06/10				
DEPTH OF TUBE : -8.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	0.02524	-0.0287	0.03968	-0.0342
-1	0.0241	-0.027	0.03591	-0.0333
-1.5	0.0111	-0.0117	0.0209	-0.0171
-2	0.00056	-2E-05	0.00392	-0.0043
-2.5	-0.0027	0.00322	0.00361	-0.004
-3	0.00136	-0.0008	0.00704	-0.0073
-3.5	0.01819	-0.0177	0.00934	-0.0095
-4	0.02663	-0.0262	9.8E-05	-0.0002
-4.5	0.0252	-0.0247	-0.0038	0.00323
-5	0.01526	-0.0148	0.00234	-0.0026
-5.5	0.01624	-0.0158	0.00566	-0.0057
-6	0.03065	-0.0301	-0.0065	0.00593
-6.5	0.04576	-0.0451	-0.0128	0.01322
-7	0.02038	-0.0215	-0.0043	0.00804
-7.5	0.00606	-0.0055	0.0098	-0.0099
-8	0.01924	-0.0187	-0.0007	0.00029

Table H-16: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-02

BGC05-02		Location:	Canal Dike St.1+900	Ground Elevation (m amsl):	1054.10
		Coordinates:	8V580881 6913412	Tip Elevation (m amsl):	1044.65
Surface Protector:	Yes	Date Installed:	2005	Piezometric Elevation (m amsl)	Comments
Date	Reading (psi) (#030137)	Piezometric Elevation (m amsl)	Comments		
14-Jun-06	1.9	1045.98			
2-Oct-06	1.7	1045.84			
6-Jun-07	2	1046.05	good flow		
24-Sep-07	0.8	1045.21			
24-Jun-08	2.5	1046.40			
24-Sep-08	3	1046.75			
30-Jun-09	n/r				
17-Sep-09	1.8	1045.91			
20-May-10	1.6	1045.77			
2-Jun-10	2.7	1046.54			
10-Sep-10	0.1	1044.72			

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-17: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-03



BGC05-03		Location:		Canal Dike St.1+900	
		Coordinates:		8V580868 6913418	
Surface Protector:		Yes	Date Installed:		2005
		Ground Elevation (m amsl):		1054.68	
		Tip Elevation (m amsl):		1050.64	
Date		Reading (psi) (#030139)		Piezometric Elevation (m amsl)	Comments
14-Jun-06		0.3		1050.85	
2-Oct-06		0.5		1050.99	
6-Jun-07		0.5		1050.99	good flow
24-Sep-07		0		1050.64	
24-Jun-08		0.4		1050.92	
24-Sep-08		0.5		1050.99	
30-Jun-09		0.3		1050.85	
17-Sep-09		0.3		1050.85	
20-May-10		0.4		1050.92	
2-Jun-10		1.4		1051.62	
10-Sep-10		0.4		1050.92	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation
 Review; 2010 Data compiled by DES

Table H-18: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-06

BGC05-06		Location:	Canal Dike St. 2+160 (approx)	Ground Elevation (m amsl):	1050.31
		Coordinates:	8V580715 6913517	Shallow Tip Elevation (m amsl):	1046.78
Surface Protector:	Yes	Date Installed:	2005	Deep Tip Elevation (m amsl):	1041.50
Date	Reading (psi)		Piezometric Elevation (m amsl)		Comments
	Shallow PP (#030138)	Deep PP (#030136)	Shallow (#030138)	Deep (#030136)	
14-Sep-05	0.2	0.3	1046.92	1041.71	
14-Jun-06	0.2	0.3	1046.92	1041.71	
2-Oct-06	0.2	0.3	1046.92	1041.71	
6-Jun-07	0.3	0.4	1046.99	1041.78	good flow
24-Sep-07	0	0	1046.777	1041.50	
24-Jun-08	0.3	0.2	1046.987	1041.64	
24-Sep-08	0.3	0.2	1046.99	1041.64	
30-Jun-09	0.1	0.2	1046.85	1041.64	
17-Sep-09	0.3	0.3	1046.99	1041.71	
19-May-10	0.2	0.3	1046.92	1041.71	
2-Jun-10	1.2	1	1047.62	1042.20	
10-Sep-10	0.1	0.1	1046.85	1041.57	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-19: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-13



CD-13		Location:	Canal Dyke St.1+350		Ground Elevation (m amsl):	1055.214
		Coordinates:	8V581400 6913185		Shallow Tip Elevation (m amsl):	1048.70
Surface Protector:	yes	Date Installed:	1981		Deep Tip Elevation (m amsl):	1044.70
Date	Reading (psi)		Piezometric Elevation (m amsl)		Comments	
	Shallow PP (#350)	Deep PP (#381)	Shallow (#350)	Deep (#381)		
Nov-81	3.2	7.9	1050.94	1050.23		
Dec-81	2.8	7.5	1050.63	1049.95		
Mar-82	0.9	5.0	1049.33	1048.20		
May-82	0.4	4.1	1048.98	1047.57		
Aug-82	3.4	7.9	1051.08	1050.23		
Apr-83	2.7	7.3	1050.59	1049.81		
Sep-83	3.3	7.9	1051.01	1050.23		
Mar-84	2.4	7.0	1050.38	1049.60		
Jun-84	3.6	8.6	1051.22	1050.72		
Sep-84	2.8	7.7	1050.66	1050.09		
Oct-85	3.7	8.6	1051.29	1050.72		
Oct-86	3.3	8.2	1051.01	1050.44		
Oct-87	3.4	8.2	1051.08	1050.44		
Oct-88	3.2	8.0	1050.94	1050.30		
Sep-89	2.0	7.7	1050.10	1050.09		
Oct-90	3.7	8.5	1051.29	1050.65		
Sep-91	2.8	7.9	1050.66	1050.23		
Sep-92	3.5		1051.12			
May-94	2.8	7.7	1050.66	1050.09		
Sep-94	2.0	7.5	1050.10	1049.95		
Sep-95	0.5	7.5	1049.05	1049.95		
Sep-96	3.4	8.3	1051.08	1050.48		
8-May-97	2.0	7.9	1050.10	1050.23		
7-Nov-97	2.5	7.5	1050.45	1049.95		
26-May-98	3.4	8.3	1051.06	1050.51		
15-Nov-98	2.7	7.7	1050.59	1050.09		
28-May-99	3.3	8.1	1051.01	1050.37		
11-Sep-99	3.1	8.0	1050.87	1050.30		
14-Jun-00	4.2	9.1	1051.64	1051.07		
9-Sep-00	3.8	8.7	1051.36	1050.79		
6-Jun-01	4.2	8.8	1051.64	1050.86		
19-Sep-01	3.0	7.9	1050.80	1050.23		
13-Jun-02	2.1	8.6	1050.17	1050.72		
12-Sep-02	2.2	8.4	1050.24	1050.58		
17-Jun-03	0.1	8.6		1050.72	(#350 very wet)	
12-Sep-03	0.1	7.8		1050.16	(#350 very wet)	
6-Jul-04	1.3	8.0	1049.61	1050.30	(#350 kept rising)	
16-Sep-04	1.8	7.7	1049.96	1050.09	(#350 kept rising)	
31-May-05	2.5	9.1	1050.45	1051.07	(#350 kept rising)	
14-Sep-05	1.4	8.0	1049.68	1050.30	#350 Bubbles stop then numbers start rising	
14-Jun-06	2.3	8.7	1050.31	1050.79	#350 Keeps Climbing	
2-Oct-06	0.9	7.7	1049.33	1050.09	Ice in casing and on cable	
6-Jun-07	3.9	9.5	1051.43	1051.35	read three times, was very noisy	
24-Sep-07	1.9	8.3	1050.03	1050.51	#350 stopped then keeps rising	
24-Jun-08	3.2	8.7	1050.94	1050.79	#350 stopped then keeps rising	
24-Sep-08	3.6	8.6	1051.22	1050.72		
30-Jun-09	3.4	8.4	1051.08	1050.58		
29-Sep-09	4.0	8.4	1051.50	1050.58		
16-May-10	2.1	8.0	1050.17	1050.30		
2-Jun-10	2.7	7.3	1050.59	1049.81		
10-Sep-10	3.1	7.9	1050.87	1050.23		

Questionable values

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
 2010 Data compiled by DES

Table H-20: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-15



CD-15		Location:	Canal Dike St.1+530	Ground Elevation (m amsl):	1054.882
		Coordinates:	1233.7N, 1028.7E 8V581245 6913275	Shallow Tip Elevation (m amsl):	1048.10
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1043.30
Date	Reading (psi)		Piezometric Elevation (m amsl)		Comments
	Shallow PP (#353)	Deep PP (#362)	Shallow (#353)	Deep (#362)	
Nov-81	0.0	0.1	1048.1	1043.37	
Dec-81	0.0	0.0	1048.1	1043.314	
Mar-82	1.0	0.1	1048.8	1043.37	
May-82	0.1		1048.17		
Aug-82	2.7		1049.99		
Apr-83	2.0		1049.5		
Sep-83	2.7		1049.99		
Mar-84	1.4		1049.08		
Jun-84	3.1		1050.27		
Oct-85	4.5		1051.25		
Oct-86	3.6		1050.62		
Oct-87	3.3		1050.41		
Oct-88	3.0		1050.2		
Sep-89	2.8		1050.06		
Jan-90	0.8		1048.66		
Oct-90	4.0		1050.9		
Sep-91	3.0		1050.2		
Sep-92	2.4		1049.78		
May-94	2.3	10.4	1049.71	1050.58	
Sep-94	0.7	8.0	1048.59	1048.9	
Sep-95	1.0	9.0	1048.8	1049.6	
Sep-96	2.4	9.1	1049.745	1049.67	
8-May-97	0.6	7.0	1048.52	1048.2	
6-Nov-97	1.2	3.4	1048.919	1045.645	
26-May-98	1.9	9.2	1049.43	1049.74	
15-Nov-98	1.3		1049.01		No return in deep piezo
4-Dec-98	0.7	7.3	1048.59	1048.41	
16-Dec-98	0.4	6.9	1048.38	1048.13	
28-May-99	0.3	7.4	1048.31	1048.494	
11-Sep-99	0.5	8.5	1048.45	1049.25	
14-Jun-00	0.5	9.9	1048.45	1050.23	
9-Sep-00	0.6		1048.52		No return in deep piezo
19-Sep-00	0.5	11.0	1048.45	1050.965	
6-Jun-01	0.6	5.9	1048.52	1047.43	
19-Sep-01	0.0	8.0	1048.1	1048.9	Shallow tip is "dry"
13-Jun-02	0.7	2.8	1048.59	1045.26	
12-Sep-02	0.6	9.8	1048.52	1050.16	
17-Jun-03	0.0	9.1	1048.1	1049.67	*readings recorded with new piezometer
12-Sep-03	0.5	8.1	1048.45	1048.97	
6-Jul-04	0.0	8.6	1048.128	1049.32	
16-Sep-04	0.5	7.8	1048.45	1048.76	
31-May-05	1.2	10.0	1048.94	1050.3	
14-Sep-05	0.6	8.0	1048.52	1048.9	
14-Jun-06	0.7	9.0	1048.59	1049.6	
2-Oct-06	0.6	7.7	1048.52	1048.69	
6-Jun-07	0.1	7.2	1048.17	1048.34	good flow
24-Sep-07	dry	3.9		1046.03	#353 Dropping - #362 No Bubbles
24-Jun-08	1.0	0.2	1048.8	1043.44	
24-Sep-08	1.2	9.8	1048.94	1050.16	
30-Jun-09	1.7	9.1	1049.29	1049.67	
17-Sep-09	0.8	8.0	1048.66	1048.9	
16-May-10	0.8	0.9	1048.66	1043.93	
2-Jun-10	2.7	9.6	1049.99	1050.02	
10-Sep-10	0.5	7.9	1048.45	1048.83	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
 2010 Data compiled by DES

Table H-21: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-21



CD-21		Location:	Canal Dike St.2+100		Ground Elevation (m amsl):	1053.447
		Coordinates:	1455.9N, 509.5E 8V580724 6913495		Shallow Tip Elevation (m amsl):	1047.50
Surface Protector:	yes	Date Installed:	1981		Deep Tip Elevation (m amsl):	1042.00
Date	Reading (psi)		Piezometric Elevation (m amsl)		Comments	
	Shallow PP (#345)	Deep PP (#366)	Shallow (#345)	Deep (#366)		
Nov-81	1.2	0.4	1048.34	1042.28		
Dec-81	1.1	0.8	1048.27	1042.55		
Mar-82	1.0	0.6	1048.20	1042.42		
May-82	0.7	0.4	1047.99	1042.28		
Aug-82	0.7	0.4	1047.99	1042.28		
Apr-83	0.9	0.4	1048.13	1042.28		
Sep-83	0.8	0.4	1048.06	1042.28		
Mar-84	1.0	0.7	1048.20	1042.49		
Jun-84	1.3	1.3	1048.41	1042.91		
Sep-84	1.5	0.6	1048.55	1042.42		
Oct-85	4.4	4.3	1050.58	1045.01		
Oct-86	6.8	6.3	1052.26	1046.41		
Oct-87	2.0	6.5	1048.90	1046.55		
Oct-88	2.9	5.3	1049.53	1045.71		
Jun-89	3.2	4.9	1049.74	1045.43		
Aug-89	3.5	4.9	1049.95	1045.43		
Sep-89	3.4	4.7	1049.88	1045.29		
Jan-90	1.1	4.8	1048.27	1045.36		
Feb-90	0.9	4.4	1048.13	1045.08		
Mar-90	0.9	4.5	1048.13	1045.15		
Apr-90	1.0	4.6	1048.20	1045.22		
May-90	1.3	4.7	1048.41	1045.29		
Jun-90	2.6	4.4	1049.32	1045.08		
Jul-90	3.6	4.3	1050.02	1045.01		
Oct-90	3.4	4.5	1049.88	1045.15		
Feb-91	0.9	4.1	1048.13	1044.87		
Mar-91	2.8	4.4	1049.46	1045.08		
Apr-91	0.6	4.2	1047.92	1044.94		
May-91	0.9	4.3	1048.13	1045.01		
Jun-91	4.7	4.0	1050.79	1044.80		
Jul-91	4.1	4.1	1050.37	1044.87		
Sep-91	3.8	3.9	1050.16	1044.73		
Apr-92	4.7	5.0	1050.76	1045.47		
Jun-92	6.8	7.9	1052.26	1047.51		
Sep-92	4.2	4.3	1050.44	1045.01		
May-94	4.2	4.1	1050.44	1044.87		
Sep-94	4.0	1.6	1050.30	1043.12		
Sep-95	3.5	0.5	1049.95	1042.35		
Sep-96	4.3	1.3	1050.51	1042.88		
8-May-97	5.8	1.6	1051.56	1043.12		
10-Nov-97	3.7	1.1	1050.09	1042.77		
26-May-98	5.2	0.7	1051.11	1042.49		
15-Nov-98	3.5	n.r.	1049.95			
4-Dec-98	3.8	0.9	1050.16	1042.63		
28-May-99	3.5	1.1	1049.94	1042.77		
11-Sep-99	4.1	1.1	1050.37	1042.77		
14-Jun-00	4.0	1.1	1050.30	1042.77		
9-Sep-00	4.3	1.2	1050.51	1042.84		
6-Jun-01	3.6	1.1	1049.99	1042.77		
19-Sep-01	3.7	1.3	1050.09	1042.91		
13-Jun-02	2.3	1.2	1049.11	1042.84		
12-Sep-02	2.8	1.2	1049.46	1042.84		
17-Jun-03	0.9	0.9	1048.13	1042.63	*readings recorded with new piezometer	
12-Sep-03	1.1	0.9	1048.27	1042.63		
6-Jul-04	1.0	0.9	1048.20	1042.63	#366 Bubbles stpped at 1.7Psi	
16-Sep-04	1.0	1.0	1048.20	1042.70		
31-May-05	0.9	1.0	1048.13	1042.70	casing full of water, lots of air over 35 psi	
14-Sep-05	1.3		1048.41		#366 - gone	
14-Jun-06	0.9		1048.13		#366 - gone	
2-Oct-06	1.1		1048.27		#366 - gone	
6-Jun-07	1.1	n.r.	1048.27		#366 - gone	
24-Sep-07	1.7	n.r.	1048.69		#366 - gone (No Cable)	
24-Jun-08	1.2		1048.34		#366 - gone	
24-Sep-08	2.0		1048.90		#366 - gone	
30-Jun-09	1.0	n.r.	1048.20		#366 - gone	
17-Sep-09	1.7	n.r.	1048.69		#366 - gone	
18-May-10	1.0	n.r.	1048.20		#366 - gone	
2-Jun-10	1.5	n.r.	1048.55		#366 - gone	
10-Sep-10	1.1	n.r.	1048.27		#366 - gone	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
 2010 Data compiled by DES

Table H-22: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-26



CD-26		Location:	Canal Dike St.2+600	Ground Elevation (m amsl):	1053.10
		Coordinates:	1674.7N, 71.7E 8V580284 6913710	Shallow Tip Elevation (m amsl):	1048.20
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1042.00
Date	Reading (psi)		Piezometric Elevation (m amsl)		Comments
	Shallow PP (#349)	Deep PP (#356)	Shallow (#349)	Deep (#356)	
Nov-81	0.3	0.5	1048.41	1042.35	
Dec-81	0.5	0.7	1048.55	1042.49	
Mar-82	0.6	0.7	1048.62	1042.49	
May-82	0.4	0.4	1048.48	1042.28	
Aug-82	0.3	0.5	1048.41	1042.35	
Apr-83	0.4	0.6	1048.48	1042.42	
Sep-83	0.4	0.6	1048.48	1042.42	
Mar-84	0.2	0.4	1048.34	1042.28	
Jun-84	0.2	0.5	1048.34	1042.35	
Sep-84	0.4	0.6	1048.48	1042.42	
Oct-85	1.1	1.3	1048.97	1042.91	
Oct-86	1.3	1.2	1049.11	1042.84	
Oct-87	1.0	1.3	1048.90	1042.91	
Jul-88	2.3	2.3	1049.81	1043.61	
Oct-88	0.7	0.8	1048.69	1042.56	
Sep-89	0.5	0.8	1048.55	1042.56	
Oct-90	1.0	1.1	1048.90	1042.77	
Sep-91	0.5	0.7	1048.55	1042.49	
Sep-92	1.3	1.9	1049.11	1043.33	
May-94	0.5	0.8	1048.55	1042.56	
Sep-94	0.6	0.8	1048.62	1042.56	
Sep-95	0.0	0.0	1048.20	1042.00	
Sep-96	0.8	1.2	1048.76	1042.84	
8-May-97	0.6	0.8	1048.62	1042.56	
10-Nov-97	0.6	0.3	1048.59	1042.21	
26-May-98	0.4	0.6	1048.51	1042.42	
12-Nov-98	0.6	0.7	1048.60	1042.49	
28-May-99	1.0	1.2	1048.89	1042.84	
11-Sep-99	0.6	1.0	1048.62	1042.70	
14-Jun-00	0.5	0.8	1048.55	1042.56	
9-Sep-00	0.8	1.2	1048.76	1042.84	
6-Jun-01	0.6	1.0	1048.62	1042.70	
19-Sep-01	0.1	1.0	1048.25	1042.70	
13-Jun-02	0.7	0.9	1048.69	1042.63	
12-Sep-02	0.5	0.9	1048.55	1042.63	
#REF!	0.5	0.8	1048.55	1042.56	*readings recorded with new piezometer
#REF!	0.6	0.9	1048.62	1042.63	
6-Jul-04	0.5	0.9	1048.55	1042.63	
16-Sep-04	0.6	1.0	1048.62	1042.70	
31-May-05	0.5	0.7	1048.55	1042.49	good flow
14-Sep-05	0.5	0.9	1048.55	1042.63	
14-Jun-06	0.5	0.7	1048.55	1042.49	
2-Oct-06	0.5	0.8	1048.55	1042.56	wet in casing
6-Jun-07	0.6	1.0	1048.62	1042.70	good flow
24-Sep-07	0.0	0.3	1048.20	1042.21	
30-Jun-09	0.5	0.6	1048.55	1042.42	
29-Sep-09	0.6	0.8	1048.62	1042.56	
18-May-10	0.5	0.8	1048.55	1042.56	
2-Jun-10	1.0	1.3	1048.90	1042.91	
10-Sep-10	0.6	0.5	1048.62	1042.35	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

**Table H-23: Rose Creek Staff Gauge-4
 (RCSG-4) Readings 2010**



Site	RCSG-4		Comments
	Date	Time	
3-Apr-10	3:12 PM	0.050	
19-Apr-10		0.250	
21-Apr-10	8:30 AM	0.545	
22-Apr-10	9:00 AM	0.684	
29-Apr-10	11:10 AM	0.598	
30-Apr-10	9:00 AM	0.520	
1-May-10	8:20 AM	0.485	
2-May-10	8:15 AM	0.425	
3-May-10	4:09 AM	0.355	
4-May-10	9:01 AM	0.375	
5-May-10	10:55 AM	0.326	
6-May-10	8:36 AM	0.291	
7-May-10	6:56 AM	0.291	
8-May-10		0.308	
9-May-10	8:50 AM	0.308	
10-May-10	9:19 AM	0.300	
11-May-10	8:50 AM	0.308	
12-May-10	8:53 AM	0.320	
13-May-10	8:00 AM	0.338	
14-May-10	1:40 PM	0.299	
15-May-10	3:13 PM	0.320	
16-May-10	3:41 PM	0.344	
17-May-10		0.350	
18-May-10	9:15 AM	0.385	
19-May-10	8:59 AM	0.476	
20-May-10	8:54 AM	0.630	
20-May-10	10:56 AM	0.628	
21-May-10	7:55 AM	0.550	
22-May-10	11:05 AM	0.510	
23-May-10	9:00 AM	0.499	
24-May-10	7:45 AM	0.545	
25-May-10	9:25 AM	0.565	
26-May-10	8:51 AM	0.552	
27-May-10	9:36 AM	0.552	
28-May-10	10:03 AM	0.562	
29-May-10	8:02 AM	0.565	
30-May-10	8:05 AM	0.535	
31-May-10	9:44 AM	0.525	
1-Jun-10	9:31 AM	0.492	
2-Jun-10	9:42 AM	0.499	
3-Jun-10	9:14 AM	0.484	
4-Jun-10	11:15 AM	0.509	
5-Jun-10	7:11 AM	0.468	
6-Jun-10	7:04 AM	0.421	
7-Jun-10	9:27 AM	0.410	
8-Jun-10	9:14 AM	0.439	
9-Jun-10	8:55 AM	0.473	

**Table H-23: Rose Creek Staff Gauge-4
 (RCSG-4) Readings 2010**



Site	RCSG-4		
Date	Time	Reading (m)	Comments
10-Jun-10	8:50 AM	0.448	
11-Jun-10	8:05 AM	0.490	
12-Jun-10	8:00 AM	0.440	
13-Jun-10	8:31 AM	0.420	
14-Jun-10	10:28 AM	0.393	
16-Jun-10	9:22 AM	0.385	
17-Jun-10	8:44 AM	0.378	
18-Jun-10	8:16 AM	0.376	
19-Jun-10	8:23 AM	0.398	
20-Jun-10	8:05 AM	0.384	
21-Jun-10	8:24 AM	0.373	
22-Jun-10	10:46 AM	0.411	
23-Jun-10	9:43 AM	0.395	
24-Jun-10	9:26 AM	0.407	
25-Jun-10	8:41 AM	0.391	
26-Jun-10	9:43 AM	0.372	
27-Jun-10	8:45 AM	0.360	
28-Jun-10	8:40 AM	0.370	
29-Jun-10	10:06 AM	0.374	
30-Jun-10	1:37 PM	0.479	
1-Jul-10	8:22 AM	0.436	
2-Jul-10	8:44 AM	0.445	
3-Jul-10	8:39 AM	0.690	
4-Jul-10	8:45 AM	0.659	
5-Jul-10	10:44 AM	0.533	
6-Jul-10	10:14 AM	0.477	
7-Jul-10	9:38 AM	0.444	
8-Jul-10	9:32 AM	0.429	
9-Jul-10	7:57 AM	0.417	
10-Jul-10	9:24 AM	0.398	
11-Jul-10	8:08 AM	0.404	
12-Jul-10	10:24 AM	0.393	
13-Jul-10	8:35 AM	0.370	
14-Jul-10	8:55 AM	0.362	
15-Jul-10	8:52 AM	0.352	
16-Jul-10	7:56 AM	0.360	
17-Jul-10	7:47 AM	0.368	
18-Jul-10	7:33 AM	0.349	
19-Jul-10	8:50 AM	0.335	
20-Jul-10	8:35 AM	0.327	
21-Jul-10	8:49 AM	0.392	
22-Jul-10	9:20 AM	0.368	
23-Jul-10	8:22 AM	0.344	X2 Datalogger downloaded 14:45
24-Jul-10	8:34 AM	0.332	
25-Jul-10	8:15 AM	0.330	
26-Jul-10	9:15 AM	0.319	
27-Jul-10	9:30 AM	0.309	
28-Jul-10	8:51 AM	0.299	

**Table H-23: Rose Creek Staff Gauge-4
 (RCSG-4) Readings 2010**


Site	RCSG-4		
Date	Time	Reading (m)	Comments
29-Jul-10	8:46 AM	0.292	
30-Jul-10	8:28 AM	0.291	
31-Jul-10	8:23 AM	0.286	
1-Aug-10	8:22 AM	0.289	
2-Aug-10	9:04 AM	0.284	
3-Aug-10	8:41 AM	0.285	
4-Aug-10	8:41 AM	0.266	
5-Aug-10	8:41 AM	0.268	
6-Aug-10	8:14 AM	0.268	
7-Aug-10	8:42 AM	0.273	*X2SG below water level
8-Aug-10	8:16 AM	0.296	Rained lots yesterday and today
9-Aug-10	8:33 AM	0.305	
10-Aug-10	9:24 AM	0.283	
11-Aug-10	8:42 AM	0.290	
12-Aug-10	8:34 AM	0.291	
13-Aug-10	9:56 AM	0.274	
14-Aug-10	8:47 AM	0.263	
15-Aug-10	9:11 AM	0.261	
16-Aug-10	8:51 AM	0.255	
17-Aug-10	9:25 AM	0.252	
18-Aug-10	9:05 AM	0.270	
19-Aug-10	10:15 AM	0.287	
20-Aug-10	8:19 AM	0.371	
21-Aug-10	2:11 PM	0.319	
22-Aug-10	7:47 AM	0.309	
23-Aug-10	8:50 AM	0.310	
24-Aug-10	10:43 AM	0.319	
25-Aug-10	8:32 AM	0.315	
26-Aug-10	8:35 AM	0.310	
27-Aug-10	8:18 AM	0.309	
28-Aug-10	8:32 AM	0.306	
29-Aug-10	8:15 AM	0.298	
30-Aug-10	8:59 AM	0.292	
31-Aug-10	10:46 AM	0.290	
1-Sep-10	8:19 AM	0.288	X2 Datalogger downloaded 11:16
2-Sep-10	9:58 AM	0.300	
3-Sep-10	7:54 AM	0.335	
4-Sep-10	8:04 AM	0.340	
5-Sep-10	9:38 AM	0.325	
6-Sep-10	10:12 AM	0.319	
7-Sep-10	8:59 AM	0.315	
8-Sep-10	8:33 AM	0.310	
9-Sep-10	8:30 AM	0.311	
13-Sep-10	8:38 AM	0.311	
14-Sep-10	8:25 AM	0.308	
15-Sep-10	9:48 AM	0.301	
16-Sep-10	8:59 AM	0.299	
20-Sep-10	9:32 AM	0.284	

Table H-23: Rose Creek Staff Gauge-4 (RCSG-4) Readings 2010



Site	RCSG-4		
Date	Time	Reading (m)	Comments
21-Sep-10	9:35 AM	0.271	
22-Sep-10	9:05 AM	0.283	
23-Sep-10	11:16 AM	0.384	
27-Sep-10	10:12 AM	0.299	
28-Sep-10	9:17 AM	0.299	
29-Sep-10	9:17 AM	0.291	
30-Sep-10	9:46 AM	0.280	
4-Oct-10	10:24 AM	0.282	
5-Oct-10	1:43 PM	0.267	
6-Oct-10	2:19 PM	0.280	
7-Oct-10	2:18 PM	0.256	
12-Oct-10	1:02 PM	0.241	
13-Oct-10	5:05 PM	0.280	
14-Oct-10	4:20 PM	0.269	
18-Oct-10	1:05 PM	0.258	
19-Oct-10	3:50 PM	0.256	
20-Oct-10	11:56 AM	0.225	
25-Oct-10	10:46 AM	0.239	
26-Oct-10	3:26 PM	0.447	
27-Oct-10	10:21 AM	0.244	
28-Oct-10	12:58 PM	0.230	

**Table H-25: Cross Valley Dam
Thermistor - BH 88-4**



BH 88-4	Location:	0+450, Cross Valley Dam Crest	Elevation (m amsl):	1033.	Coordinates:	2018.3 m N, 76.6 m W 8V580127 6914054		
	Date Installed:	1988	Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	no	Surface Protector:	Yes
	Depth Correction:	0						

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	10-Dec-91	24-Jan-92	30-May-94	15-Sep-94	22-Sep-95	13-Sep-96	5-May-97	20-Nov-97	26-May-98	12-Nov-98	28-May-99	20-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	14-Sep-01	18-Oct-01	1-May-02	12-Jun-02	17-Jul-02	9-Sep-02	23-Apr-03	7-May-03	11-Jun-03	15-Jul-03	10-Sep-03	29-Apr-04	19-Jul-04	26-Aug-04	9-Sep-04	26-May-05
0.6	-0.6	19.03	20.60	13.87	11.01	11.17	11.28	16.59	16.64	14.19	18.18	14.78	11.07	12.95	11.74	11.86	11.27	14.42	17.61	12.21	9.99	10.82	17.63	16.47	12.73	9.80	10.73	16.91	8.96	9.06	11.06	13.44
1.4	-1.4	16.72	18.54	15.54	10.52	11.32	11.43	17.14	15.88	16.51	15.71	16.52	11.25	15.73	11.74	13.71	11.26	16.52	18.17	14.42	11.52	11.18	17.86	16.91	14.83	11.60	10.90	17.18	10.03	9.33	10.59	15.84
2.0	-2.0	16.81	17.93	18.04	11.27	12.45	13.01	19.84	17.50	19.19	17.30	19.78	13.61	19.90	14.13	19.22	13.49	15.59	21.52	19.89	15.78	13.85	21.06	20.35	19.94	16.22	13.38	20.44	13.37	11.88	12.67	20.04
2.5	-2.5	15.25	16.14	16.60	10.37	11.54	11.91	17.47	14.86	16.70	14.19	16.76	11.64	16.73	12.05	16.67	11.50	12.85	17.89	17.08	15.04	12.16	17.73	17.47	17.29	15.75	11.87	17.56	12.57	10.92	11.19	17.54
3.3	-3.3	14.45	15.36	16.31	10.79	11.91	12.48	17.17	14.25	16.40	13.47	16.53	12.09	16.51	12.59	16.33	11.87	12.50	16.54	16.55	16.51	12.42	16.34	16.38	16.40	16.35	11.97	16.23	13.22	11.27	11.10	16.24
4.2	-4.2	13.82	14.69	15.87	11.52	12.41	13.19	16.52	13.82	15.98	13.03	16.11	12.72	16.14	13.30	16.03	12.60	12.59	16.04	16.19	16.17	13.12	15.90	15.98	16.08	16.05	12.74	15.82	14.34	12.27	11.86	15.82

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	
(m)	(m)	10-Dec-91	24-Jan-92	30-May-94	15-Sep-94	22-Sep-95	13-Sep-96	5-May-97	20-Nov-97	26-May-98	12-Nov-98	28-May-99	20-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	14-Sep-01	18-Oct-01	1-May-02	12-Jun-02	17-Jul-02	9-Sep-02	23-Apr-03	7-May-03	11-Jun-03	15-Jul-03	10-Sep-03	29-Apr-04	19-Jul-04	26-Aug-04	9-Sep-04	26-May-05
0.6	-0.6	-3.10	-4.61	3.10	7.77	7.47	7.27	-0.44	-0.50	2.64	-2.22	1.83	7.66	4.47	6.46	6.25	7.29	2.32	-1.60	5.66	9.77	8.13	-1.62	-0.30	4.82	10.17	8.30	-0.81	12.04	11.81	7.68	3.73
1.4	-1.4	-0.67	-2.67	0.76	8.62	7.12	6.92	-1.15	0.34	-0.42	0.55	-0.43	7.25	0.53	6.38	3.25	7.23	3.40	-2.28	2.24	6.76	7.37	-1.95	-0.89	1.69	6.62	7.89	-1.20	9.61	11.12	8.49	0.39
2.0	-2.0	-0.70	-1.96	-2.08	7.28	5.26	4.37	-3.97	-1.56	-3.34	-1.33	-3.92	3.40	-4.03	2.65	-3.37	3.57	0.70	-5.52	-4.02	0.46	3.05	-5.11	-4.46	-4.07	-0.08	3.74	-4.54	3.75	6.14	4.83	-4.17
2.5	-2.5	1.15	0.03	-0.52	8.93	6.74	6.09	-1.52	1.65	-0.65	2.56	-0.72	6.55	-0.68	5.85	-0.61	6.80	4.55	-1.98	-1.08	1.41	5.66	-1.81	-1.52	-1.32	0.50	6.15	-1.62	4.99	7.86	7.36	-1.60
3.3	-3.3	2.22	1.01	-0.16	8.12	6.10	5.16	-1.19	2.48	-0.29	3.60	-0.45	5.78	-0.42	4.96	-0.21	6.15	5.11	-0.46	-0.47	-0.42	5.24	-0.22	-0.27	-0.29	-0.23	5.98	-0.09	3.98	7.21	7.52	-0.10
4.2	-4.2	3.07	1.86	0.33	6.74	5.23	4.00	-0.43	3.09	0.22	4.27	0.06	4.75	0.02	3.86	0.15	4.94	4.96	0.14	-0.04	-0.02	4.13	0.31	0.22	0.09	0.13	4.72	0.41	2.35	5.48	6.17	0.41

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	
(m)	(m)	12-Oct-05	14-Jun-06	4-Oct-06	9-May-07	24-Sep-07	24-Jun-08	24-Sep-08	13-Apr-09	20-Apr-09	27-Apr-09	5-May-09	19-May-09	29-Jun-09	15-Sep-09	18-May-10	3-Jun-10	10-Sep-10
0.6	-0.6	13.30	10.79	12.74	16.41	12.54	11.39	12.16	20.13	19.33	18.84	2.26	15.81	11.10	10.90	15.15	12.01	10.40
1.4	-1.4	12.76	13.83	12.39	17.01	11.99	13.19	11.92	19.79	19.27	18.82	2.27	16.84	12.55	11.12	17.30	14.74	10.70
2.0	-2.0	14.92	20.09	14.82	20.83	14.37	18.38	14.47	23.14	22.79	22.35	2.32	20.67	17.41	13.78	20.77	20.28	14.40
2.5	-2.5	12.84	17.80	12.97	18.33	12.72	17.66	12.74	19.57	19.39	19.15	2.29	18.21	17.18	12.35	18.25	17.86	12.90
3.3	-3.3	11.92	16.58	12.33	16.97	12.40	16.42	12.25	17.16	17.18	17.13	2.26	16.87	16.65	12.20	16.94	16.64	12.80
4.2	-4.2	12.08	16.23	12.72	16.50		16.13	12.76	16.29	16.36	16.37	2.25	16.44	16.43	12.98	16.55	16.31	13.60

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	
(m)	(m)	12-Oct-05	14-Jun-06	4-Oct-06	9-May-07	24-Sep-07	24-Jun-08	24-Sep-08	13-Apr-09	20-Apr-09	27-Apr-09	5-May-09	19-May-09	29-Jun-09	15-Sep-09	18-May-10	3-Jun-10	10-Sep-10
0.6	-0.6	3.94	8.18	4.80	-0.22	5.12	7.07	5.74	-4.17	-3.40	-2.90	43.31	0.51	7.60	7.97	1.28	6.21	9.27
1.4	-1.4	4.69	3.08	5.28	-1.00	5.95	4.02	6.07	-3.93	-3.42	-2.96	43.07	-0.81	5.02	7.48	-1.62	1.79	8.62
2.0	-2.0	1.57	-4.21	1.70	-4.90	2.31	-2.51	2.17	-6.89	-6.60	-6.23	42.55	-4.76	-1.46	3.15	-5.16	-4.66	2.58
2.5	-2.5	4.56	-1.89	4.36	-2.45	4.75	-1.73	4.72	-3.71	-3.53	-3.30	42.85	-2.33	-1.20	5.35	-2.65	-2.19	4.75
3.3	-3.3	6.07	-0.51	5.38	-0.96	5.27	-0.32	5.51	-1.18	-1.20	-1.14	43.20	-0.84	-0.59	5.60	-1.18	-0.79	4.87
4.2	-4.2	5.80	-0.09	4.75	-0.41		0.03	4.69	-0.16	-0.24	-0.26	43.35	-0.34	-0.33	4.35	-0.71	-0.39	3.57

05-May-09 results are suspect

**Table H-26: Cross Valley Dam
 Piezometric Monitoring CVDC-4**

CVDC-4	Location:		2004 Ground Elevation (m amsl):		2004 Shallow stick-up 2004 (m):	2004 Deep stick-up (m):	
	Coordinates:		Shallow Tip Elevation (m amsl):				
Surface Protector:	Date Installed:	2004 Deep Tip Elevation (m amsl):		2004 Deep stick-up (m):			
yes	1981	1007.9		0.3			
Date		Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
Aug-82	15.10	15.26	1018.33	1018.04			
Dec-82	15.82	15.71	1017.61	1017.59			
Apr-83	15.71	15.84	1017.72	1017.46	1029.33		
Jun-83	16.54	16.33	1016.89	1016.97	1025.88		
Aug-83	16.57	16.52	1016.86	1016.78			
Oct-83	16.34	16.30	1017.09	1017.00			
Feb-84	16.21	16.22	1017.22	1017.08			
Mar-84					1030.60		
Apr-84	16.75	16.58	1016.68	1016.72			
Jun-84	16.40	16.37	1017.03	1016.93	1026.80		
Aug-84	16.50	16.48	1016.93	1016.82			
Jun-85	15.50	15.55	1017.93	1017.75	1031.20		
Oct-85	16.00	16.10	1017.43	1017.20			
May-86	15.58	15.54	1017.85	1017.76	1030.70		
Oct-86	14.99	15.14	1018.44	1018.16	1030.90		
Oct-87	15.42	16.45	1018.01	1016.85			
Jun-88		15.67		1017.63			
Jan-90		15.78		1017.59			
Oct-90		15.54		1017.83			
May-91		15.31		1018.06			
Jun-92		14.32		1019.05			
Sep-92		14.63		1018.74			
May-94		14.93		1018.47			
Sep-94		14.95		1018.45			
Sep-95		14.80		1018.60			
Sep-96		14.89		1018.51	1029.92		
May-97		15.34		1018.06			
Dec-97		14.89		1018.51		shallow standpipe - dry	
May-98		14.66		1018.92	1031.20		
Nov-98		14.91		1018.67	1029.80		
Dec-98		14.89		1018.69	1029.80		
Jun-99		14.67		1018.91	1031.40		
Sep-99		15.60		1017.98	~1029.2		
Jun-00		14.73		1018.85	~1030.2		
Aug-00		14.88		1018.70			
Aug-00		14.86		1018.72			
Sep-00		14.83		1018.75			
Sep-00		14.76		1018.82			
Sep-00		14.84		1018.74		shallow standpipe - plugged	
Sep-00		14.79		1018.79		shallow standpipe - plugged	
Oct-00		14.75		1018.83		shallow standpipe - n.r.	
Oct-00		14.76		1018.82		shallow standpipe - n.r.	
Oct-00		14.74		1018.84		blocked @ 1.25m	
Oct-00		14.76		1018.82		shallow standpipe - blocked @ 7.60m	
Jun-01	7.67	14.87		1018.71		shallow standpipe - blocked @ 7.61m	
Sep-01	7.61	14.82		1018.76		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.90		1018.68		shallow standpipe - blocked @ 7.62m	
Oct-01	7.61	14.93		1018.65		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.95		1018.63		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.96		1018.62		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.97		1018.61		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.98		1018.60		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.98		1018.60		shallow standpipe - blocked @ 7.61m	
Oct-01	7.61	14.98		1018.60		shallow standpipe - blocked @ 7.61m	
Nov-01	7.61	14.98		1018.61		shallow standpipe - blocked @ 7.61m	
Nov-01	7.61	14.97		1018.61			
Nov-01	7.61	14.97		1018.61			
Nov-01	7.61	14.97		1018.62			
Nov-01	7.61	14.96		1018.62			
Nov-01	7.61	14.95		1018.63			
Nov-01	7.61	14.95		1018.63			
Nov-01	7.61	14.95		1018.63			
Nov-01	7.61	14.94		1018.64		pond elev approx - 8 ft.	
Nov-01	7.61	14.95		1018.63		daytime temp -34 C	
Nov-01	7.61	14.94		1018.64			
Nov-01	7.61	14.94		1018.64			
Dec-01	7.61	14.96		1018.62			
Dec-01	7.61	14.97		1018.61			
Dec-01	7.61	14.94		1018.64			
Dec-01	7.61	14.82		1018.76			
Dec-01	7.61	14.84		1018.74			
Dec-01	7.61	14.87		1018.71			
Dec-01	7.61	14.90		1018.68			
Dec-01	7.61	14.92		1018.66			
Dec-01	7.61	14.94		1018.64			
Dec-01	7.61	14.96		1018.62			
Jan-02	7.61	14.94		1018.64			
Jan-02	7.61	14.99		1018.59			
Jan-02	7.61	15.04		1018.54			
Jan-02	7.61	15.02		1018.56			

**Table H-26: Cross Valley Dam
 Piezometric Monitoring CVDC-4**

CVDC-4	Location:		2004 Ground Elevation (m amsl):		2004 Shallow stick-up 2004 (m):	2004 Deep stick-up (m):
	Coordinates:		Shallow Tip Elevation (m amsl):			
Surface Protector:	Date Installed:	2004 Deep Tip Elevation (m amsl):				
yes	1981	999.7				
Date	Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
	Shallow	Deep	Shallow	Deep		
Jan-02	7.61	15.02		1018.56		
Feb-02	7.61	15.00		1018.58		
Feb-02	7.61	15.00		1018.58		
Feb-02	7.61	14.99		1018.59		
May-02	7.61	14.92		1018.67		
Jun-02	7.61	14.90		1018.69		
Jul-02	7.61	14.85		1018.74		
Aug-02	7.61	14.90		1018.69		
Sep-02	7.61	14.82		1018.76		
Nov-02	7.61	14.86		1018.72		
Nov-02	7.61	14.85		1018.73		
Jan-03	7.61	14.75		1018.83		
Feb-03	7.61	14.76		1018.83		start siphon
Feb-03	7.61	14.77		1018.82		
Feb-03	7.61	14.78		1018.80		
Feb-03	7.61	14.80		1018.78		
Feb-03	7.61	14.83		1018.75	1026.18	
Apr-03	7.61	14.78		1018.80		
May-03	7.61	14.88		1018.71		
May-03	7.61	14.87		1018.71		
Jun-03	7.61	14.85		1018.73		
Jul-03	7.61	14.78		1018.80		
Sep-03	7.61	14.97		1018.62		
Mar-04	7.61	14.84		1018.76		2004 Survey data used from here on
Mar-04	7.61	14.86		1018.74		
Apr-04	7.61	14.83		1018.77		
Jul-04	7.61	14.88		1018.73		
Aug-04	7.61	14.78		1018.83		
Sep-04	7.61	14.89		1018.71		
Feb-05	7.61	14.84		1018.76		
Feb-05	7.61	14.84		1018.76		
Feb-05	7.61	14.85		1018.76		
May-05	7.61	14.79		1018.81		
Sep-05	7.61	15.12		1018.48		
Mar-06	7.61	15.23		1018.38		
Jun-06	7.61	15.14		1018.46		
Oct-06	7.61	15.23		1018.38	1027.47	
May-07	7.61	14.86		1018.75	1029.30	
Sep-07	7.61	15.21		1018.39	1030.30	
Sep-07	7.61	15.21		1018.39	1031.30	
Apr-08	7.61	14.79		1018.81	1030.30	
Apr-08	7.61	14.82		1018.78	1029.93	
Apr-08	7.61	14.85		1018.75	1029.63	
Apr-08	7.61	14.86		1018.74	1029.25	
May-08	7.61	14.86		1018.74	1029.43	
May-08	7.61	14.83		1018.77	1029.36	
May-08	7.61	14.83		1018.78	1029.34	
May-08	7.61	14.81		1018.79	1029.28	
Jun-08	7.61	14.85		1018.75	1028.64	
Sep-08	7.61	14.82		1018.79	1028.50	
Mar-09	7.61	14.76		1018.84	1029.60	
Apr-09	7.61	14.91		1018.70	1028.16	
Apr-09	7.61	14.95		1018.65	1027.74	
Apr-09	7.61	15.04		1018.57	1027.72	
Apr-09	7.61	15.15		1018.45	1027.49	
Apr-09	7.61	15.20		1018.40	1027.27	
Apr-09	7.61	15.23		1018.38	1027.16	
May-09	7.61	15.23		1018.38	1027.23	
May-09	7.61	15.03		1018.58	1027.83	
Jun-09	7.61	14.99		1018.61	1027.67	
Sep-09	7.61	14.92		1018.68	1028.36	
May-10	7.55	14.73		1018.88	1029.05	
Jun-10	7.67	14.73		1018.87	1029.74	Shallow Well Dry
Sep-10	7.67	15.07		1018.53	1030.44	Shallow Well Dry

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

**Table H-27: Cross Valley Dam
 Piezometric Monitoring CVDC-7**


CVDC-7		Location:	Cross Valley Dam Crest St.0+450	2004 Ground Elevation (m amsl):	1033.24		
		Coordinates:	8V580158 6914127	2004 Shallow Tip Elevation (m amsl):	1007.80	2004 Shallow stick-up (m):	0.31
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1002.90	2004 Deep stick-up (m):	0.23
Date		Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
Aug-82		17.58	14.44	1016.04	1019.09		
Dec-82		18.02	15.10	1015.60	1018.43		
Apr-83		17.83	15.24	1015.79	1018.29	1029.33	
Jun-83		18.06	14.88	1015.56	1018.65	1025.88	
Aug-83		18.30	16.24	1015.32	1017.29		
Oct-83		18.26	16.01	1015.36	1017.52		
Feb-84		18.24	15.92	1015.38	1017.61		
Mar-84						1030.60	
Apr-84		18.41	16.36	1015.21	1017.17		
Jun-84		18.22	16.06	1015.40	1017.47	1026.80	
Jun-85		17.87	16.06	1015.75	1017.47	1031.20	
Oct-85		18.20	15.55	1015.42	1017.98		
May-86		18.14	15.14	1015.48	1018.39	1030.70	
Oct-86		17.35	14.40	1016.27	1019.13	1030.90	
Oct-87		17.85	14.85	1015.77	1018.68		
Jun-88		17.90	15.10	1015.73	1018.59		
Sep-89		17.88	15.03	1015.75	1018.66		
Oct-90		17.68	15.03	1015.95	1018.66		
May-91		17.89	15.36	1015.74	1018.33		
Sep-91		17.81		1015.82			
Jun-92		17.37	14.48	1016.26	1019.21		
Sep-92		17.33	14.66	1016.30	1019.03		
May-94		17.99	15.50	1015.70	1018.16		
Sep-94		17.95	15.47	1015.74	1018.19		
Sep-95		17.81	15.08	1015.88	1018.58		
13-Sep-96		17.93	15.34	1015.76	1018.32	1029.915	
7-May-97		18.19	16.07	1015.50	1017.59		
20-Nov-97		17.91	15.29	1015.78	1018.37		
26-May-98		17.87	15.12	1015.82	1018.54	1031.2	
15-Nov-98		17.91	15.38	1015.78	1018.28	1029.8	
3-Jun-99		n.r.	15.10		1018.56	1031.4	
18-Sep-99		18.00	15.59	1015.69	1018.07	~1029.2	
8-Jun-00		17.85	15.08	1015.84	1018.58	~1030.2	
14-Aug-00		17.82	15.10	1015.87	1018.56		
31-Aug-00		17.80	15.16	1015.89	1018.50		
7-Sep-00		17.78	15.09	1015.91	1018.57		
14-Sep-00		17.78	15.80	1015.91	1017.86		
19-Sep-00		17.82	15.19	1015.87	1018.47		
21-Sep-00		17.82	15.16	1015.87	1018.50		
28-Sep-00		17.77	15.60	1015.92	1018.06		
6-Oct-00		17.71	14.96	1015.98	1018.70		
12-Oct-00		17.75	15.03	1015.94	1018.63		
20-Oct-00		17.76	15.00	1015.93	1018.66		
27-Oct-00		17.80	15.08	1015.89	1018.58		
10-Jun-01		17.97	15.39	1015.72	1018.27		
14-Sep-01		17.86	15.16	1015.83	1018.50		
16-Oct-01		17.95	15.43	1015.74	1018.23		
18-Oct-01		17.97	15.48	1015.72	1018.18		
19-Oct-01		17.98	15.49	1015.71	1018.17		
20-Oct-01		17.98	15.49	1015.71	1018.17		
21-Oct-01		17.98	15.49	1015.71	1018.17		
22-Oct-01		17.98	15.50	1015.71	1018.16		
25-Oct-01		17.99	15.51	1015.70	1018.15		
29-Oct-01		17.99	15.51	1015.70	1018.15		
1-Nov-01		17.99	15.50	1015.71	1018.17		
5-Nov-01		17.99	15.51	1015.70	1018.16		
6-Nov-01		17.99	15.51	1015.70	1018.16		
8-Nov-01		17.99	15.51	1015.70	1018.15		
12-Nov-01		18.00	15.51	1015.69	1018.15		
15-Nov-01		18.00	15.51	1015.69	1018.15		
19-Nov-01		18.00	15.51	1015.69	1018.15		
21-Nov-01		17.99	15.50	1015.70	1018.17		
23-Nov-01		17.99	15.50	1015.70	1018.17		pond elev approx - 8 ft.
26-Nov-01		18.00	15.50	1015.69	1018.17		daytime temp -34 C
28-Nov-01		18.00	15.50	1015.69	1018.16		
30-Nov-01		18.01	15.50	1015.68	1018.16		
3-Dec-01		18.01	15.51	1015.68	1018.15		
5-Dec-01		18.01	15.52	1015.68	1018.14		
12-Dec-01		18.01	15.52	1015.68	1018.14		
14-Dec-01		18.01	15.50	1015.68	1018.16		
15-Dec-01		18.02	15.54	1015.67	1018.12		
16-Dec-01		18.03	15.58	1015.66	1018.08		
17-Dec-01		18.04	15.61	1015.65	1018.05		
18-Dec-01		18.05	15.63	1015.64	1018.03		
19-Dec-01		18.06	15.65	1015.63	1018.01		
26-Dec-01		18.07	15.66	1015.62	1018.00		
2-Jan-02		18.07	15.65	1015.62	1018.01		
9-Jan-02		18.08	15.66	1015.61	1018.00		
16-Jan-02		18.08	15.65	1015.61	1018.01		

Table H-27: Cross Valley Dam Piezometric Monitoring CVDC-7



CVDC-7		Location:	Cross Valley Dam Crest St.0+450		2004 Ground Elevation (m amsl):	1033.24		
		Coordinates:	8V580158 6914127		2004 Shallow Tip Elevation (m amsl):	1007.80	2004 Shallow stick-up (m):	0.31
Surface Protector:	yes	Date Installed:	1981		Deep Tip Elevation (m amsl):	1002.90	2004 Deep stick-up (m):	0.23
Date		Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments	
		Shallow	Deep	Shallow	Deep			
23-Jan-02		18.07	15.63	1015.62	1018.03			
30-Jan-02		18.08	15.63	1015.61	1018.03			
6-Feb-02		18.08	15.62	1015.62	1018.04			
13-Feb-02		18.07	15.60	1015.62	1018.06			
20-Feb-02		18.08	15.60	1015.62	1018.06			
1-May-02		18.07	15.60	1015.62	1018.06		Water being discharged from the polishing pond	
12-Jun-02		17.98	15.35	1015.72	1018.31			
17-Jul-02		17.85	15.23	1015.84	1018.44			
7-Aug-02		17.90	15.35	1015.79	1018.31			
9-Sep-02		17.82	15.17	1015.88	1018.49			
4-Nov-02		17.91	15.36	1015.78	1018.30			
10-Nov-02		17.91	15.36	1015.78	1018.31			
30-Jan-03		17.90	15.24	1015.80	1018.43			
9-Feb-03		17.90	15.25	1015.79	1018.42		start siphon	
11-Feb-03		17.91	15.26	1015.79	1018.40			
13-Feb-03		17.91	15.28	1015.78	1018.38			
18-Feb-03		17.93	15.31	1015.77	1018.35			
21-Feb-03		17.93	15.32	1015.76	1018.34	1026.18		
23-Apr-03		17.98	15.37	1015.71	1018.29			
7-May-03		18.01	15.47	1015.68	1018.19			
16-May-03		18.01	15.46	1015.68	1018.21			
11-Jun-03		17.91	15.33	1015.78	1018.33			
15-Jul-03		17.84	15.21	1015.85	1018.46			
10-Sep-03		18.00	15.59	1015.55	1017.88			
4-Mar-04		17.97	15.39	1015.58	1018.08		2004 Survey data used from here on	
8-Mar-04		18.00	15.46	1015.55	1018.01			
26-Apr-04		17.98	15.40	1015.57	1018.07			
19-Jul-04		17.91	15.33	1015.64	1018.14			
26-Aug-04		17.93	15.34	1015.62	1018.13			
9-Sep-04		17.99	15.50	1015.56	1017.97			
22-Feb-05		18.00	15.43	1015.55	1018.04			
23-Feb-05		18.00	15.45	1015.55	1018.02		smells like old oil	
24-Feb-05		18.00	15.48	1015.55	1017.99			
26-May-05		17.99	15.58	1015.56	1017.89		milky on probe	
14-Sep-05		18.25	16.04	1015.30	1017.43			
9-Mar-06		18.41	16.30	1015.14	1017.17			
14-Jun-06		18.26	16.03	1015.29	1017.44			
4-Oct-06		18.27	16.10	1015.28	1017.37	1027.47		
9-May-07		18.20	15.80	1015.35	1017.67	1029.295		
24-Sep-07		18.19	15.97	1015.36	1017.50	1030.295		
9-Apr-08		18.11	15.55	1015.44	1017.92	1030.300		
14-Apr-08		18.11	15.61	1015.44	1017.86	1029.930		
21-Apr-08		18.12	15.70	1015.43	1017.77	1029.625		
28-Apr-08		18.13	15.76	1015.42	1017.71	1029.250		
5-May-08		18.14	15.72	1015.41	1017.75	1029.433		
12-May-08		18.14	15.71	1015.41	1017.76	1029.362		
20-May-08		18.14	15.75	1015.41	1017.72	1029.340		
26-May-08		18.15	15.76	1015.40	1017.71	1029.276		
24-Jun-08		18.03	15.60	1015.52	1017.87	1028.638		
24-Sep-08		18.00	15.65	1015.55	1017.82	1028.504		
31-Mar-09		18.12	15.70	1015.43	1017.77	1029.596		
13-Apr-09		18.16	16.00	1015.39	1017.47	1028.164		
16-Apr-09		18.19	16.06	1015.36	1017.41	1027.744		
20-Apr-09		18.22	16.14	1015.33	1017.33	1027.716		
23-Apr-09		18.28	16.19	1015.27	1017.28	1027.487		
27-Apr-09		18.31	16.26	1015.24	1017.21	1027.273		
30-Apr-09		18.32	16.28	1015.23	1017.19	1027.159		
5-May-09		18.31	16.25	1015.24	1017.22	1027.229		
19-May-09		18.27	16.15	1015.28	1017.32	1027.831		
29-Jun-09		18.11	15.91	1015.44	1017.56	1027.668		
15-Sep-09		18.16	15.92	1015.39	1017.55	1028.360		
19-May-10		15.87	18.14	1017.68	1015.33	1029.052		
3-Jun-10		15.81	18.15	1017.74	1015.32	1029.744		
7-Sep-10		16.15	18.20	1017.40	1015.27	1030.436		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

**Table H-28: Cross Valley Dam
 Piezometric Monitoring CVDC-9**


CVDC-9		Location:	Cross Valley Dam Crest St.0+565	2004 Ground Elevation (m amsl):	1033.28		
		Coordinates:	8V580096 6913998	2004 Shallow Tip Elevation (m amsl)	1007.70	2004 Shallow stick-up (m):	0.27
Surface Protector:	yes	Date Installed:	1981	2004 Deep Tip Elevation (m amsl):	1000.70	2004 Deep stick-up (m):	0.19
Date		Water Level below top of pipe (m)	Water Level below top of pipe (m)	Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
1-Aug-82		8.80	8.85	1024.74	1024.61		
1-Dec-82		11.04	9.00	1022.50	1024.46		
1-Apr-83		11.38	9.81	1022.16	1023.65	1029.33	
1-Jun-83		12.58	10.74	1020.96	1022.72	1025.88	
1-Aug-83		13.63	11.90	1019.91	1021.56		
1-Oct-83		13.36	11.13	1020.18	1022.33		
1-Feb-84		12.24	10.67	1021.30	1022.79		
1-Mar-84						1030.60	
1-Apr-84		12.87	11.65	1020.67	1021.81		
1-Jun-84		10.75	12.28	1022.79	1021.18	1026.80	
1-Aug-84		12.41	11.05	1021.13	1022.41		
1-Jun-85		10.80	8.98	1022.74	1024.48	1031.20	
1-Oct-85		11.45	8.25	1022.09	1025.21		
1-May-86		9.65	11.18	1023.89	1022.28	1030.70	
1-Oct-86		10.51	8.79	1023.03	1024.67	1030.90	
1-Oct-87		10.85	9.10	1022.69	1024.36		
1-Jun-88		9.74	9.42	1023.90	1024.11		
1-Sep-89		11.01	9.07	1022.63	1024.46		
1-Oct-90		10.54	8.83	1023.10	1024.70		
1-May-91		10.79	9.14	1022.85	1024.39		
1-Sep-91		10.56		1023.08			
1-Jun-92		9.79	7.92	1023.85	1025.61		
1-Sep-92		10.27	8.29	1023.37	1025.24		
1-May-94		11.68	9.49	1021.94	1024.06		
1-Sep-94		11.93	9.82	1021.69	1023.73		
1-Sep-95		11.42	8.86	1022.20	1024.69		
13-Sep-96		11.84	9.52	1021.78	1024.03	1029.915	
7-May-97		13.15	11.57	1020.48	1021.99		
20-Nov-97		11.74	9.58	1021.88	1023.97		
26-May-98		11.57	9.11	1022.05	1024.44	1031.2	
13-Nov-98		12.19	9.90	1021.43	1023.65	1029.8	
3-Jun-99		10.56	8.87	1023.06	1024.68	1031.4	
18-Sep-99		11.50	10.25	1022.12	1023.30	~1029.2	
8-Jun-00		11.60	8.90	1022.02	1024.65	~1030.2	
14-Aug-00		11.73	9.19	1021.89	1024.36		
31-Aug-00		11.77	9.30	1021.85	1024.25		
7-Sep-00		11.66	9.12	1021.96	1024.43		
14-Sep-00		11.65	9.30	1021.97	1024.25		
19-Sep-00		11.83	9.34	1021.79	1024.21		
21-Sep-00		11.78	9.28	1021.84	1024.27		
28-Sep-00		11.61	9.40	1022.01	1024.15		
6-Oct-00		11.46	8.89	1022.16	1024.66		
12-Oct-00		11.57	9.00	1022.05	1024.55		
20-Oct-00		11.53	8.91	1022.09	1024.64		
27-Oct-00		11.62	9.03	1022.00	1024.52		
10-Jun-01		12.09	9.63	1021.53	1023.92		
14-Sep-01		11.75	9.67	1021.87	1023.88		
16-Oct-01		12.24	10.20	1021.38	1023.35		
18-Oct-01		12.35	10.33	1021.27	1023.22		
19-Oct-01		12.37	10.36	1021.25	1023.19		
20-Oct-01		12.38	10.37	1021.24	1023.18		
21-Oct-01		12.39	10.38	1021.23	1023.17		
22-Oct-01		12.40	10.39	1021.22	1023.16		
25-Oct-01		12.42	10.39	1021.20	1023.16		
29-Oct-01		12.41	10.34	1021.22	1023.21		
1-Nov-01		12.40	10.32	1021.23	1023.24		
5-Nov-01		12.41	10.31	1021.21	1023.24		
6-Nov-01		12.41	10.31	1021.21	1023.24		
8-Nov-01		12.41	10.30	1021.21	1023.25		
12-Nov-01		12.42	10.30	1021.20	1023.26		
15-Nov-01		12.42	10.29	1021.20	1023.27		
19-Nov-01		12.39	10.22	1021.23	1023.33		
21-Nov-01		12.37	10.19	1021.25	1023.36		
23-Nov-01		12.37	10.17	1021.25	1023.38		pond elev approx - 8 ft.
26-Nov-01		12.37	10.17	1021.25	1023.38		daytime temp -34 C
28-Nov-01		12.38	10.16	1021.24	1023.39		
30-Nov-01		12.39	10.17	1021.24	1023.38		
3-Dec-01		12.40	10.19	1021.22	1023.36		
5-Dec-01		12.42	10.20	1021.20	1023.35		
12-Dec-01		12.44	10.20	1021.19	1023.35		
14-Dec-01		12.47	10.25	1021.15	1023.30		
15-Dec-01		12.52	10.31	1021.10	1023.24		
16-Dec-01		12.57	10.38	1021.05	1023.17		
17-Dec-01		12.62	10.43	1021.00	1023.12		
18-Dec-01		12.66	10.48	1020.96	1023.07		
19-Dec-01		12.68	10.51	1020.94	1023.04		
26-Dec-01		12.72	10.53	1020.90	1023.02		
2-Jan-02		12.70	10.49	1020.92	1023.06		
9-Jan-02		12.68	10.45	1020.94	1023.10		

Table H-28: Cross Valley Dam Piezometric Monitoring CVDC-9



CVDC-9		Location:	Cross Valley Dam Crest St.0+565		2004 Ground Elevation (m amsl):	1033.28		
		Coordinates:	8V580096 6913998		2004 Shallow Tip Elevation (m amsl)	1007.70	2004 Shallow stick-up (m):	0.27
Surface Protector:	yes	Date Installed:	1981		2004 Deep Tip Elevation (m amsl):	1000.70	2004 Deep stick-up (m):	0.19
Date		Water Level below top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments	
		Shallow	Deep	Shallow	Deep			
16-Jan-02		12.65	10.41	1020.97	1023.14			
23-Jan-02		12.62	10.36	1021.00	1023.19			
30-Jan-02		12.60	10.33	1021.02	1023.22			
6-Feb-02		12.59	10.31	1021.04	1023.24			
13-Feb-02		12.55	10.26	1021.07	1023.29			
20-Feb-02		12.55	10.25	1021.07	1023.30			
1-May-02		12.55	10.27	1021.07	1023.28			
12-Jun-02		12.16	9.77	1021.47	1023.78			
17-Jul-02		11.91	9.47	1021.71	1024.09			
7-Aug-02		12.10	9.71	1021.52	1023.85			
9-Sep-02		11.75	9.24	1021.87	1024.31			
4-Nov-02		11.85	9.64	1021.77	1023.91			
10-Nov-02		11.86	9.67	1021.76	1023.89			
30-Jan-03		11.81	9.40	1021.82	1024.16			
9-Feb-03		11.84	9.42	1021.78	1024.13		start siphon	
11-Feb-03		11.87	9.46	1021.75	1024.10			
13-Feb-03		11.91	9.50	1021.71	1024.05			
18-Feb-03		11.96	9.55	1021.66	1024.00			
21-Feb-03		11.97	9.56	1021.65	1023.99	1026.18		
23-Apr-03		12.06	9.57	1021.57	1023.99			
7-May-03		12.21	9.78	1021.41	1023.77			
16-May-03		12.18	9.70	1021.45	1023.85			
11-Jun-03		11.99	9.46	1021.63	1024.09			
15-Jul-03		11.74	9.13	1021.88	1024.42			
10-Sep-03		12.36	9.95	1021.27	1023.60			
4-Mar-04		12.01	9.52	1021.54	1023.95		2004 Survey data used from here on	
8-Mar-04		12.11	9.65	1021.44	1023.82			
26-Apr-04		12.45	9.50	1021.10	1023.97			
19-Jul-04		11.87	9.28	1021.68	1024.19			
26-Aug-04		11.88	9.28	1021.67	1024.19			
9-Sep-04		12.15	9.64	1021.40	1023.83			
22-Feb-05		12.02	9.44	1021.53	1024.03			
23-Feb-05		12.06	9.49	1021.49	1023.99			
24-Feb-05		12.11	9.56	1021.44	1023.92			
26-May-05		12.43	9.95	1021.12	1023.52			
14-Sep-05		12.83	10.39	1020.72	1023.09			
9-Mar-06		13.27	10.93	1020.28	1022.54			
14-Jun-06		12.86	10.40	1020.69	1023.07			
4-Oct-06		12.94	10.46	1020.62	1023.02	1027.468		
9-May-07		12.52	9.83	1021.03	1023.64	1029.295		
24-Sep-07		12.76	10.15	1020.79	1023.32	1030.295		
9-Apr-08		12.10	9.18	1021.45	1024.29	1030.300		
14-Apr-08		12.19	9.33	1021.36	1024.15	1029.930		
21-Apr-08		12.37	9.57	1021.18	1023.90	1029.625		
28-Apr-08		12.49	9.73	1021.06	1023.75	1029.250		
5-May-08		12.44	9.66	1021.11	1023.81	1029.433		
12-May-08		12.44	9.74	1021.12	1023.73	1029.362		
20-May-08		12.45	9.64	1021.11	1023.84	1029.340		
26-May-08		12.44	9.59	1021.11	1023.89	1029.276		
24-Jun-08		12.26	9.46	1021.29	1024.02	1028.638		
24-Sep-08		12.26	9.44	1021.29	1024.04	1028.504		
31-Mar-09		12.39	9.50	1021.17	1023.97	1029.596		
13-Apr-09		12.90	10.23	1020.65	1023.25	1028.164		
16-Apr-09		13.02	10.38	1020.54	1023.10	1027.744		
20-Apr-09		13.14	10.55	1020.42	1022.92	1027.716		
23-Apr-09		13.22	10.64	1020.33	1022.83	1027.487		
27-Apr-09		13.34	10.77	1020.22	1022.70	1027.273		
30-Apr-09		13.39	10.85	1020.16	1022.63	1027.159		
5-May-09		13.36	10.82	1020.19	1022.66	1027.229		
19-May-09		13.16	10.48	1020.39	1022.99	1027.831		
29-Jun-09		12.75	10.70	1020.81	1022.77	1027.668		
15-Sep-09		12.66	9.85	1020.89	1023.62	1028.360		
19-May-10		12.73	9.83	1020.82	1023.64	1029.052		
3-Jun-10		12.77	9.80	1020.78	1023.67	1029.744		
7-Sep-10		13.17	10.40	1020.39	1023.07	1030.436		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review, 2010 Data compiled by DES

Table H-29: Cross Valley Dam Piezometric Monitoring CVDT-1

CVDT-1		Location:	Cross Valley Dam Toe, black PVC adj. to X11 channel	2004 Stick-up (m):	0.27
		Coordinates:	8V580219 6914353	2004 Ground Elevation (m amsl):	1018.30
Surface Protector:	N/A	Date Installed:	1994	2004 Tip Elevation (m amsl):	1007.90
Date	Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments	
31-May-94	-2.07	1017.13			
15-Sep-94	-1.92	1017.28			
22-Sep-95	-1.80	1017.40			
13-Sep-96	-1.87	1017.33	1029.92		
20-Nov-97	-1.78	1017.42			
26-May-98	-1.62	1017.58	1031.20		
13-Nov-98	-1.87	1017.33	1029.80		
3-Jun-99	-0.87	1018.33	1031.40		
18-Sep-99	-1.94	1017.26	~1029.20		
8-Jun-00	-1.73	1017.47	~1030.20		
14-Aug-00	-1.84	1017.36			
31-Aug-00	-1.81	1017.39			
7-Sep-00	-1.80	1017.40			
14-Sep-00	-1.75	1017.45			
21-Sep-00	-1.81	1017.39			
28-Sep-00	-1.76	1017.44			
6-Oct-00	-1.73	1017.47			
12-Oct-00	-1.73	1017.47			
20-Oct-00	-1.71	1017.49			
27-Oct-00	-1.71	1017.49			
10-Jun-01	-1.80	1017.40			
14-Sep-01	-1.77	1017.43			
16-Oct-01	-1.81	1017.39			
18-Oct-01	-1.81	1017.39			
19-Oct-01	-1.81	1017.39			
20-Oct-01	-1.81	1017.39			
21-Oct-01	-1.81	1017.39			
22-Oct-01	-1.81	1017.39			
25-Oct-01	-1.81	1017.39			
29-Oct-01	-1.81	1017.39			
1-Nov-01	-1.81	1017.39			
5-Nov-01	-1.81	1017.39			
6-Nov-01	-0.44	1017.39			Stick up changed
8-Nov-01	-0.44	1017.39			
12-Nov-01	-0.44	1017.39			
15-Nov-01	-0.44	1017.39			
19-Nov-01	-0.44	1017.39			
21-Nov-01	-0.44	1017.39			
23-Nov-01	-0.44	1017.39			pond elev approx - 8 ft.
26-Nov-01	-0.44	1017.39			daytime temp -34 C
28-Nov-01	-0.44	1017.39			
30-Nov-01	-0.44	1017.39			
3-Dec-01	-0.44	1017.39			
5-Dec-01	-0.44	1017.39			
12-Dec-01	-0.44	1017.39			
14-Dec-01	-0.44	1017.39			
15-Dec-01	-0.44	1017.39			
16-Dec-01	-0.44	1017.39			
17-Dec-01	-0.44	1017.39			
18-Dec-01	-0.44	1017.39			
19-Dec-01	-0.44	1017.39			
26-Dec-01	-0.44	1017.39			
2-Jan-02	-0.44	1017.39			
9-Jan-02	-0.44	1017.39			
16-Jan-02	-0.44	1017.39			
23-Jan-02	-0.44	1017.39			
30-Jan-02	-0.44	1017.39			
6-Feb-02	-0.44	1017.39			
13-Feb-02	-0.44	1017.39			
20-Feb-02	-0.44	1017.39			
1-May-02	-0.44	1017.39			
12-Jun-02	-0.44	1017.40			
17-Jul-02	-0.40	1017.44			
7-Aug-02					not read
9-Sep-02	-0.37	1017.46			
4-Nov-02	-0.40	1017.44			
10-Nov-02	-0.40	1017.44			

Table H-29: Cross Valley Dam Piezometric Monitoring CVDT-1

CVDT-1		Location:	Cross Valley Dam Toe, black PVC adj. to X11 channel	2004 Stick-up (m):	0.27
		Coordinates:	8V580219 6914353	2004 Ground Elevation (m amsl):	1018.30
Surface Protector:	N/A	Date Installed:	1994	2004 Tip Elevation (m amsl):	1007.90
Date		Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
30-Jan-03		-0.42	1017.41		
9-Feb-03		-0.42	1017.41	1058.60	start siphon
11-Feb-03		-0.42	1017.41	1058.50	
13-Feb-03		-0.42	1017.41	1058.50	
18-Feb-03		-0.42	1017.41		
21-Feb-03		-0.42	1017.41	1058.48	
23-Apr-03		-0.41	1017.43	1030.14	
7-May-03		-0.39	1017.44		
16-May-03		-0.39	1017.45		
11-Jun-03		-0.36	1017.48		
15-Jul-03		-0.31	1017.53		
4-Sep-03		-0.36	1017.47		
10-Sep-03		-0.47	1017.37	996.28	
4-Mar-04		-0.35	1018.23		2004 survey data use from here on
8-Mar-04					Pulled ice and snow
26-Apr-04		-0.32	1018.26	997.85	
19-Jul-04		-0.27	1018.30		
26-Aug-04		-0.26	1018.31		
9-Sep-04		-0.36	1018.21		
22-Feb-05		-0.37	1018.20		Frozen
24-Feb-05		-0.35	1018.22		Frozen
26-May-05		-0.29	1018.28		
14-Sep-05		-0.59	1017.99		
9-Mar-06		-0.54	1018.03		no beep
14-Jun-06		-0.60	1017.97		
2-Oct-06		-0.70	1017.87	1027.47	
9-May-07		-0.33	1018.25	1029.30	
24-Sep-07		-0.69	1017.89	1030.30	
25-Sep-07		-0.32	1018.26	1031.30	
9-Apr-08		-0.75	1017.82	1030.30	
14-Apr-08		-0.75	1017.82	1029.93	
21-Apr-08		-0.76	1017.82	1029.63	
28-Apr-08		-0.76	1017.82	1029.25	
5-May-08		-0.76	1017.82	1029.43	
12-May-08		-0.76	1017.82	1029.36	
20-May-08		-0.75	1017.82	1029.34	
26-May-08		-0.75	1017.82	1029.28	
24-Jun-08		-0.75	1017.82	1028.64	
24-Sep-08		-0.72	1017.85	1028.50	
31-Mar-09		-0.69	1017.89	1029.60	
13-Apr-09		-0.73	1017.85	1028.16	
16-Apr-09				1027.74	
20-Apr-09		-0.76	1017.81	1027.72	
23-Apr-09				1027.49	
27-Apr-09		-0.79	1017.78	1027.27	
30-Apr-09				1027.16	
5-May-09		-0.78	1017.79	1027.23	
19-May-09		-0.75	1017.83	1027.83	
29-Jun-09		-0.70	1017.87	1027.67	
15-Sep-09		-0.68	1017.89	1028.32	
19-May-10		-0.64	1017.93	1028.97	
3-Jun-10		-0.65	1017.92	1029.62	
7-Sep-10		-0.76	1017.82	1030.28	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-30: Cross Valley Dam Piezometric Monitoring CVDT-2

CVDT-2		Location:	Cross Valley Dam Toe black PVC adj. to W3 channel		Stick up:	1.52m/ 0.38m
Surface Protector:		N/A	Coordinates:	N/A	Ground Elevation (m amsl):	1019.50
Date Installed:		1994	Tip Elevation (m amsl):		1006.20	
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments	
31-May-94		-4.86	1016.16			
15-Sep-94		-4.81	1016.21			
21-Sep-95		-4.65	1016.37			
15-Oct-96		-4.84	1016.18	1029.92		
20-Nov-97		-4.78	1016.24			
26-May-98		-4.73	1016.29	1031.20		
13-Nov-98		-4.79	1016.23	1029.80		
3-Jun-99		-4.78	1016.24	1031.40		
18-Sep-99		-4.81	1016.21	~1029.2		
8-Jun-00		-4.70	1016.32	~1030.2		
14-Aug-00		-4.65	1016.37			
24-Aug-00		-4.57	1016.45			
31-Aug-00		-4.62	1016.40			
7-Sep-00		-4.60	1016.42			
14-Sep-00		-4.61	1016.41			
21-Sep-00		-4.65	1016.37			
28-Sep-00		-4.60	1016.42			
6-Oct-00		-4.53	1016.49			
12-Oct-00		-4.59	1016.43			
20-Oct-00		-4.61	1016.41			
27-Oct-00		-4.66	1016.36			
10-Jun-01		-4.85	1016.17			
14-Sep-01		-4.71	1016.31			
16-Oct-01		-4.83	1016.19			
18-Oct-01		-4.85	1016.17			
19-Oct-01		-4.86	1016.16			
20-Oct-01		-4.86	1016.16			
21-Oct-01		-4.86	1016.16			
22-Oct-01		-4.86	1016.16			
25-Oct-01		-4.87	1016.15			
29-Oct-01		-4.87	1016.15			
1-Nov-01		-4.88	1016.15			
5-Nov-01		-4.88	1016.14			
6-Nov-01		-3.74	1016.14			New stick-up of 0.38 m
8-Nov-01		-3.74	1016.14			
12-Nov-01		-3.76	1016.12			
15-Nov-01		-3.76	1016.12			
19-Nov-01		-3.76	1016.13			
21-Nov-01		-3.75	1016.13			
23-Nov-01		-3.75	1016.13			pond elev approx - 8 ft.
26-Nov-01		-3.75	1016.13			daytime temp -34 C
28-Nov-01		-3.76	1016.12			
30-Nov-01		-3.76	1016.12			
3-Dec-01		-3.76	1016.12			
5-Dec-01		-3.78	1016.11			
12-Dec-01		-3.78	1016.11			
14-Dec-01		-3.78	1016.11			
15-Dec-01		-3.80	1016.08			
16-Dec-01		-3.79	1016.09			
17-Dec-01		-3.81	1016.07			
18-Dec-01		-3.82	1016.07			
19-Dec-01		-3.82	1016.06			
26-Dec-01		-3.84	1016.04			
2-Jan-02		-3.84	1016.04			
9-Jan-02		-3.84	1016.05			
16-Jan-02		-3.84	1016.04			
23-Jan-02		-3.83	1016.05			
30-Jan-02		-3.84	1016.04			
6-Feb-02		-3.84	1016.04			
13-Feb-02		-3.83	1016.05			
20-Feb-02		-3.84	1016.04			
1-May-02		-3.83	1016.05			
12-Jun-02		-3.64	1016.24			
17-Jul-02		-3.55	1016.34			
7-Aug-02						not read
9-Sep-02		-3.52	1016.36			
4-Nov-02		-3.67	1016.21			

Table H-30: Cross Valley Dam Piezometric Monitoring CVDT-2

CVDT-2		Location:	Cross Valley Dam Toe black PVC adj. to W3 channel		Stick up:	1.52m/ 0.38m
		Coordinates:	N/A		Ground Elevation (m amsl):	1019.50
Surface Protector:	N/A	Date Installed:	1994		Tip Elevation (m amsl):	1006.20
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments	
10-Nov-02		-3.68	1016.20			
30-Jan-03		-3.66	1016.23			
9-Feb-03		-3.66	1016.22	1058.60		start siphon
11-Feb-03		-3.67	1016.22	1058.50		
13-Feb-03		-3.68	1016.21	1058.50		
18-Feb-03		-3.69	1016.19			
21-Feb-03		-3.70	1016.19	1026.18		
23-Apr-03		-3.76	1016.12	997.84		
7-May-03		-3.78	1016.11			
16-May-03		-3.78	1016.11			
11-Jun-03		-3.64	1016.24			
15-Jul-03		-3.57	1016.31			
10-Sep-03		-3.76	1016.12			
4-Mar-04		-3.90	1015.98			No 2004 survey data available
8-Mar-04		-3.77	1016.11			
26-Apr-04		-3.75	1016.13			
19-Jul-04		-3.67	1016.22			
26-Aug-04		-3.66	1016.23			
9-Sep-04		-3.72	1016.16			
22-Feb-05		-3.74	1016.15			
24-Feb-05		-3.75	1016.14			
26-May-05		-3.71	1016.17			
14-Sep-05		-3.99	1015.89			
9-Mar-06		-4.17	1015.33			
14-Jun-06		-3.97	1015.54			
2-Oct-06		-3.99	1015.51	1027.47		
9-May-07		-3.95	1015.56	1029.30		
24-Sep-07		-3.91	1015.60	1030.30		
9-Apr-08		-3.82	1015.68	1030.30		
14-Apr-08		-3.84	1015.66	1029.93		
21-Apr-08		-3.88	1015.63	1029.63		
28-Apr-08		-3.89	1015.61	1029.25		
5-May-08		-3.87	1015.63	1029.43		
12-May-08		-3.85	1015.65	1029.36		
20-May-08		-3.88	1015.62	1029.34		
26-May-08		-3.88	1015.62	1029.28		
24-Jun-08		-3.68	1015.82	1028.64		
24-Sep-08		-3.70	1015.81	1028.50		
31-Mar-09		-3.84	1015.66	1029.60		
13-Apr-09		-3.85	1015.65	1028.16		
16-Apr-09				1027.74		
20-Apr-09		-4.01	1015.49	1027.72		
23-Apr-09				1027.49		
27-Apr-09		-4.07	1015.43	1027.27		
30-Apr-09				1027.16		
5-May-09		-4.05	1015.45	1027.23		
19-May-09		-4.03	1015.47	1027.83		
29-Jun-09		-3.81	1015.69	1027.67		
9-Aug-09		-3.88	1015.63	1028.36		
19-May-10		-3.91	1015.59	1029.05		
3-Jun-10		-3.82	1015.68	1029.74		
7-Sep-10		-3.96	1015.54	1030.44		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-31: Cross Valley Dam Piezometric Monitoring CVDP1



CVDP-1		Location:	20m u/s of CL, Stn.0+450		
		Coordinates:	8V580128 6914135	2004 Ground Elevation (m amsl):	1016.86
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.51
Date	Reading (psi)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments	
Aug-82	6.60	1019.13			
Dec-82	6.26	1018.89			
Apr-83	5.80	1018.57	1029.33		
Jun-83	4.80	1017.87	1025.88		
Aug-83	4.10	1017.38			
Dec-83	4.50	1017.66			
Mar-84	4.40	1017.59	1029.71		
Jun-84	4.50	1017.66	1026.80		
Oct-84	4.40	1017.59			
May-86	6.70	1019.20	1030.70		
Oct-86	6.90	1019.34	1030.90		
Oct-88	6.10	1018.78			
Sep-89	6.20	1018.85			
Oct-90	6.10	1018.78			
May-91	6.00	1018.71			
Sep-91	6.30	1018.92			
Sep-92	7.20	1019.55			
May-94	6.50	1019.06			
Sep-94	6.00	1018.71			
Sep-95	6.50	1019.06			
Sep-96	6.60	1019.13	1029.92		
6-May-97	5.30	1018.22			
21-Nov-97	6.50	1019.06			
27-May-98	6.70	1019.20	1031.20		
12-Nov-98					no air bubbles returned
4-Dec-98	6.00	1018.71	1029.80		
16-Dec-98			1029.80		black tube broken at connector new piezometer
11-Jun-03	6.10	1018.78			
15-Jul-03	6.20	1018.85			
10-Sep-03	5.70	1018.50			
4-Mar-04	6.20	1018.85			2004 Survey data used from here on
8-Mar-04	5.90	1018.64			
26-Apr-04	6.00	1018.71			
26-Aug-04	6.20	1018.85			
9-Sep-04	6.00	1018.71			
22-Feb-05	6.10	1018.78			
24-Feb-05	3.50				
26-May-05	5.80	1018.57			
14-Sep-05	5.20	1018.15			
9-Mar-06	4.80	1017.87			
14-Jun-06	5.10	1018.08			
2-Oct-06	5.10	1018.08	1027.47		
9-May-07	5.60	1018.43	1029.30		Good return
24-Sep-07	4.30	1017.52	1030.30		
9-Apr-08	6.00	1018.71	1030.30		
14-Apr-08	5.90	1018.64	1029.93		
21-Apr-08	5.70	1018.50	1029.63		
28-Apr-08	5.70	1018.50	1029.25		
5-May-08	5.80	1018.57	1029.43		
12-May-08	5.70	1018.50	1029.36		
20-May-08	5.60	1018.43	1029.34		
26-May-08	5.70	1018.50	1029.28		
24-Jun-08	5.70	1018.50	1028.64		
24-Sep-08	5.80	1018.57	1028.50		
31-Mar-09	5.80	1018.57	1029.60		
13-Apr-09	5.30	1018.22	1028.16		
16-Apr-09			1027.74		
20-Apr-09	5.20	1018.15	1027.72		
23-Apr-09			1027.49		
27-Apr-09	5.00	1018.01	1027.27		
30-Apr-09			1027.16		
5-May-09	5.00	1018.01	1027.23		
19-May-09	5.10	1018.08	1027.83		
29-Jun-09	5.20	1018.15	1027.67		
15-Sep-09	5.70	1018.50	1028.36		
19-May-10	5.50	1018.36	1029.05		
3-Jun-10	7.60	1019.83	1029.74		
7-Sep-10	5.00	1018.01	1030.44		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-32: Cross Valley Dam Piezometric Monitoring CVDP-3

CVDP-3		Location:	St.0+450 7m d/s of CL.		
		Coordinates:	8V580128 6914135	2004 Ground Elevation (m amsl):	1016.86
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.71
Date	Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments	
Aug-82	3.70	1017.30			
Dec-82	3.60	1017.23			
Apr-83	3.40	1017.09	1029.33		
Jun-83	2.80	1016.67	1025.88		
Aug-83	2.40	1016.39			
Dec-83	2.40	1016.39			
Mar-84	2.70	1016.60	1029.71		
Jun-84	2.30	1016.32	1026.80		
Oct-84	2.40	1016.39			
May-86	4.00	1017.51	1030.70		
Oct-86	4.00	1017.51	1030.90		
Oct-87	3.80	1017.37			
Oct-88	3.50	1017.16			
Sep-89	3.30	1017.02			
Oct-90	3.20	1016.95			
May-91	4.80	1018.07			
Sep-91	3.30	1017.02			
Sep-92	0.40				likely erroneous reading
May-94	3.00	1016.81			
Sep-94	3.30	1017.02			
Sep-95	3.00	1016.81			
Sep-96	3.25	1016.99	1029.92		
6-May-97	3.10	1016.88			
21-Nov-97	3.48	1017.15			
27-May-98	3.44	1017.12	1031.20		
12-Nov-98	n.r.				no air bubbles returned
4-Dec-98	n.r.				no air bubbles returned
3-Jun-99	3.22	1016.96			
18-Sep-99	3.10	1016.88	1029.20		very slow
14-Jun-00	3.31	1017.03	1030.20		
14-Aug-00	3.40	1017.09			
31-Aug-00	3.40	1017.09			
7-Sep-00	3.40	1017.09			
14-Sep-00	3.50	1017.16			
21-Sep-00	3.50	1017.16			
28-Sep-00	3.50	1017.16			
6-Oct-00	3.60	1017.23			
12-Oct-00	3.60	1017.23			
20-Oct-00	3.50	1017.16			
27-Oct-00	3.50	1017.16			
10-Jun-01	3.20	1016.95			
14-Sep-01	3.40	1017.09			
16-Oct-01	3.20	1016.95			
18-Oct-01	3.20	1016.95			
19-Oct-01	3.20	1016.95			
20-Oct-01	3.22	1016.96			
21-Oct-01	3.21	1016.96			
22-Oct-01	3.20	1016.95			
25-Oct-01	3.20	1016.95			
29-Oct-01	3.10	1016.88			
1-Nov-01	3.20	1016.95			
5-Nov-01	3.10	1016.88			
6-Nov-01	3.10	1016.88			
8-Nov-01	3.20	1016.95			
12-Nov-01	3.20	1016.95			
15-Nov-01	3.20	1016.95			
19-Nov-01	3.20	1016.95			
21-Nov-01	3.20	1016.95			
23-Nov-01	3.20	1016.95			pond elev approx - 8 ft.
26-Nov-01	3.20	1016.95			daytime temp -34 C
28-Nov-01					not read, low pressure in box
30-Nov-01					instrument broken from Nov 01 to Feb 02
1-May-02	3.20	1016.95			instrument fixed
12-Jun-02	3.30	1017.02			
17-Jul-02	3.30	1017.02			
7-Aug-02					not read
9-Sep-02	3.40	1017.09			

Table H-32: Cross Valley Dam Piezometric Monitoring CVDP-3

CVDP-3		Location:	St.0+450 7m d/s of CL.	2004 Ground Elevation (m amsl):	1016.86
		Coordinates:	8V580128 6914135	Tip Elevation (m amsl):	1014.71
Surface Protector:	yes	Date Installed:	1982		
Date	Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments	
4-Nov-02	3.30	1017.02			
10-Nov-02	3.20	1016.95			
30-Jan-03	3.30	1017.02			
9-Feb-03	3.30	1017.02			start siphon
11-Feb-03	3.30	1017.02			
13-Feb-03	3.30	1017.02			
18-Feb-03	3.20	1016.95			
21-Feb-03	3.20	1016.95	1026.18		
23-Apr-03	3.20	1016.95			
7-May-03	3.10	1016.88			
16-May-03	3.10	1016.88			
11-Jun-03	3.10	1016.88			*new piezometer readout
15-Jul-03	3.20	1016.95			
10-Sep-03	2.90	1016.74			
4-Mar-04	3.10	1016.88			2004 Survey data used from here on
8-Mar-04	3.00	1016.81			
26-Apr-04	3.00	1016.81			
19-Jul-04	3.10	1016.88			
26-Aug-04	3.10	1016.88			
9-Sep-04	3.10	1016.88			
22-Feb-05	14.00				no bubbles, keeps rising
24-Feb-05	16.00				no bubbles, keeps rising
26-May-05	2.70	1016.60			
14-Sep-05	2.30	1016.32			
9-Mar-06	2.20	1016.25			
14-Jun-06	2.30	1016.32			
2-Oct-06	2.30	1016.32	1027.47		
9-May-07	2.40	1016.39	1029.30		Good Return
24-Sep-07	2.00	1016.11	1030.30		
9-Apr-08	2.70	1016.60	1030.30		
14-Apr-08	2.70	1016.60	1029.93		
21-Apr-08	2.60	1016.53	1029.63		
28-Apr-08	2.60	1016.53	1029.25		
5-May-08	2.60	1016.53	1029.43		
12-May-08	2.70	1016.60	1029.36		
20-May-08	2.60	1016.53	1029.34		
26-May-08	2.60	1016.53	1029.28		
24-Jun-08	2.70	1016.60	1028.64		
24-Sep-08	2.80	1016.67	1028.50		
31-Mar-09	20.20		1029.60		likely erroneous reading (LNW)
13-Apr-09	20.60		1028.16		likely erroneous reading (LNW)
16-Apr-09			1027.74		
20-Apr-09	20.20		1027.72		likely erroneous reading (LNW)
23-Apr-09			1027.49		
27-Apr-09	n/r		1027.27		
30-Apr-09			1027.16		
5-May-09	2.20	1016.25	1027.23		
19-May-09	2.30	1016.32	1027.83		
29-Jun-09	2.30	1016.32	1027.67		
15-Sep-09	n/r		1028.36		no bubbles
19-May-10	2.40	1016.39	1029.05		
3-Jun-10	4.20	1017.65	1029.74		
7-Sep-10	2.40	1016.39	1030.44		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-33: Cross Valley Dam Piezometric Monitoring CVDP-5



CVDP-5		Location:	Cross Valley Dam St.0+210 9m u/s of CL.		
		Coordinates:	8V580239 6914346	2004 Ground Elevation (m amsl):	1019.18
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.28
Date	Reading (psi)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments	
Aug-82	8.20	1020.02			
Dec-82	8.50	1020.23			
Apr-83	7.60	1019.60	1029.33		
Jun-83	6.50	1018.83	1025.88		
Aug-83	5.50	1018.13			
Dec-83	5.80	1018.34			
Mar-84	5.80	1018.34	1029.71		
Jun-84	5.80	1018.34	1026.80		
May-86			1030.70		
Oct-86			1030.90		
Sep-92	9.90	1021.21			
May-94	9.70	1021.07			
Sep-94	9.20	1020.72			
Sep-95	9.50	1020.93			
Sep-96	9.45	1020.90	1029.92		
6-May-97	8.10	1019.95			
21-Nov-97	9.33	1020.81			
27-May-98	9.60	1021.00			
12-Nov-98					black air tube broken at connector
10-Sep-03	8.50	1020.23			
4-Mar-04	9.20	1020.72			2004 Survey data used from here on
8-Mar-04	9.00	1020.58			
26-Apr-04	9.10	1020.65			
26-Aug-04	9.20	1020.72			
9-Sep-04	8.90	1020.51			
22-Feb-05	9.10	1020.65			
24-Feb-05	8.70	1020.37			
26-May-05	9.70	1021.07			
14-Sep-05	8.20	1020.02			
9-Mar-06	8.00	1019.88			
14-Jun-06	8.40	1020.16			
2-Oct-06	8.10	1019.95	1027.47		
9-May-07	9.20	1020.72	1029.30		Good Return
24-Sep-07	7.50	1019.53	1030.30		
9-Apr-08	9.50	1020.93	1030.30		
14-Apr-08	9.40	1020.86	1029.93		
21-Apr-08	9.30	1020.79	1029.63		
28-Apr-08	9.10	1020.65	1029.25		
5-May-08	9.20	1020.72	1029.43		
12-May-08	9.20	1020.72	1029.36		
20-May-08	9.20	1020.72	1029.34		
26-May-08	9.20	1020.72	1029.28		
24-Jun-08	9.00	1020.58	1028.64		
24-Sep-08	9.00	1020.58	1028.50		
31-Mar-09	9.50	1020.93	1029.60		
13-Apr-09	8.90	1020.51	1028.16		
16-Apr-09			1027.74		
20-Apr-09	8.30	1020.09	1027.72		
23-Apr-09			1027.49		
27-Apr-09	8.10	1019.95	1027.27		
30-Apr-09			1027.16		
5-May-09	8.10	1019.95	1027.23		
19-May-09	8.50	1020.23	1027.83		
29-Jun-09	8.40	1020.16	1027.67		
15-Sep-09	9.10	1020.65	1028.36		
19-May-10	9.60	1021.00	1029.05		
3-Jun-10	11.10	1022.05	1029.74		
7-Sep-10	8.20	1020.02	1030.44		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-34: Cross Valley Dam Piezometric Monitoring CVDP-6



CVDP-6		Location:	Cross Valley Dam St.0+210 5m d/s of CL.		
Coordinates:		8V580239 6914346		2004 Ground Elevation (m amsl):	1019.18
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.37
Date	Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments	
Aug-82	5.60	1018.29			
Dec-82	5.50	1018.22			
Apr-83	5.00	1017.87	1029.33		
Jun-83	5.70	1018.36	1025.88		
Aug-83	3.90	1017.10			
Dec-83	4.10	1017.24			
Mar-84	4.20	1017.31	1029.71		
Jun-84	4.10	1017.24	1026.80		
Oct-84	4.20	1017.31			
May-86	5.80	1018.43	1030.70		
Oct-86	6.00	1018.57	1030.90		
Oct-87	5.40	1018.15			
Oct-88	4.70	1017.66			
Sep-89	5.00	1017.87			
Oct-90	5.50	1018.22			
Sep-92	6.60	1018.99			
May-94	6.10	1018.64			
Sep-94	5.20	1018.01			
Sep-95	5.50	1018.22			
Sep-96	6.25	1018.75	1029.92		
6-May-97	5.40	1018.15			
21-Nov-97	4.45	1017.49			
27-May-98	3.74	1016.99	1031.20		
12-Nov-98	4.50	1017.52	1029.80		
3-Jun-99	4.90	1017.80	1031.40		
18-Sep-99	4.50	1017.52			
14-Jun-00	4.80	1017.73	1030.20		
14-Aug-00	4.80	1017.73			
31-Aug-00	5.00	1017.87			return bubbles "sputtering"
7-Sep-00	5.00	1017.87			
14-Sep-00	5.00	1017.87			
21-Sep-00	4.70	1017.66			
28-Sep-00	4.90	1017.80			
6-Oct-00	5.00	1017.87			
12-Oct-00	4.90	1017.80			
20-Oct-00	5.20	1018.01			
27-Oct-00	5.10	1017.94			
10-Jun-01	4.90	1017.80			
14-Sep-01	4.90	1017.80			
16-Oct-01	4.80	1017.73			
18-Oct-01	4.72	1017.67			
19-Oct-01	4.70	1017.66			
20-Oct-01	4.70	1017.66			
21-Oct-01	4.70	1017.66			
22-Oct-01	4.70	1017.66			
25-Oct-01	4.70	1017.66			
29-Oct-01	4.70	1017.66			
1-Nov-01	4.70	1017.66			
5-Nov-01	4.60	1017.59			
6-Nov-01	4.60	1017.59			
8-Nov-01	4.70	1017.66			
12-Nov-01	4.70	1017.66			
15-Nov-01	4.70	1017.66			
19-Nov-01	4.80	1017.73			
21-Nov-01	4.70	1017.66			
23-Nov-01	4.70	1017.66			pond elev approx - 8 ft.
26-Nov-01	-				not read
28-Nov-01	-				not read, low pressure in box
30-Nov-01	4.90	1017.80			
3-Dec-01	4.70	1017.66			
5-Dec-01	4.70	1017.66			
12-Dec-01	4.70	1017.66			
14-Dec-01	4.80	1017.73			
15-Dec-01	4.40	1017.45			
16-Dec-01	4.80	1017.73			
17-Dec-01	4.80	1017.73			
18-Dec-01	4.50	1017.52			
19-Dec-01	4.80	1017.73			
26-Dec-01	4.60	1017.59			
2-Jan-02	4.80	1017.73			
9-Jan-02	4.60	1017.59			
16-Jan-02	4.60	1017.59			
23-Jan-02	4.80	1017.73			
30-Jan-02	4.80	1017.73			
6-Feb-02	4.80	1017.73			
13-Feb-02	4.80	1017.73			

Table H-34: Cross Valley Dam Piezometric Monitoring CVDP-6



CVDP-6		Location:	Cross Valley Dam St.0+210 5m d/s of CL.		
Coordinates:		8V580239 6914346		2004 Ground Elevation (m amsl):	1019.18
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.37
Date	Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments	
20-Feb-02	4.80	1017.73			
1-May-02	5.20	1018.01			
12-Jun-02	5.00	1017.87			
17-Jul-02	4.90	1017.80			
7-Aug-02					not read
9-Sep-02	5.10	1017.94			
4-Nov-02	5.20	1018.01			
10-Nov-02	5.10	1017.94			
30-Jan-03	5.30	1018.08			
9-Feb-03	5.20	1018.01			start siphon
11-Feb-03	5.20	1018.01			
13-Feb-03	5.00	1017.87			
18-Feb-03					*Piezometer tip broken (-35 oC)
21-Feb-03			1026.18		
23-Apr-03					
7-May-03					
16-May-03	4.80	1017.73			*piezometer tip repaired
11-Jun-03	4.70	1017.66			*new piezometer readout
15-Jul-03	4.80	1017.73			
10-Sep-03	4.70	1017.66			
4-Mar-04	5.00	1017.87			2004 Survey data used from here on
8-Mar-04	4.80	1017.73			
26-Apr-04	4.80	1017.73			
19-Jul-04	4.80	1017.73			
26-Aug-04	4.90	1017.80			
9-Sep-04	4.80	1017.73			
22-Feb-05	4.80	1017.73			
24-Feb-05	4.60	1017.59			
24-Feb-05	4.60	1017.59			
26-May-05	4.80	1017.73			
14-Sep-05	4.50	1017.52			
9-Mar-06	4.50	1017.52			
14-Jun-06	4.40	1017.45			
2-Oct-06	4.30	1017.38	1027.47		
9-May-07	4.80	1017.73	1029.30		Good Return
24-Sep-07	4.30	1017.38	1030.30		
9-Apr-08	4.90	1017.80	1030.30		
14-Apr-08	5.10	1017.94	1029.93		
21-Apr-08	5.10	1017.94	1029.63		
28-Apr-08	4.90	1017.80	1029.25		
5-May-08	5.00	1017.87	1029.43		
12-May-08	5.10	1017.94	1029.36		
20-May-08	5.00	1017.87	1029.34		
26-May-08	5.00	1017.87	1029.28		
24-Jun-08	4.90	1017.80	1028.64		
24-Sep-08	5.10	1017.94	1028.50		
31-Mar-09	5.10	1017.94	1029.60		
13-Apr-09	4.80	1017.73	1028.16		
16-Apr-09			1027.74		
20-Apr-09	4.80	1017.73	1027.72		
23-Apr-09			1027.49		
27-Apr-09	4.50	1017.52	1027.27		
30-Apr-09			1027.16		
5-May-09	4.60	1017.59	1027.23		
19-May-09	4.70	1017.66	1027.83		
29-Jun-09	4.60	1017.59	1027.67		
15-Sep-09	4.90	1017.80	1028.36		
19-May-10	5.20	1018.01	1029.05		
3-Jun-10	7.40	1019.55	1029.74		
7-Sep-10	4.60	1017.59	1030.44		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-35: Cross Valley Dam Piezometric Monitoring 94 CVDC-1

94CVDC-1		Location:	Cross Valley Dam Crest Stn. 0+215	2004 Stick-up (m):	0.64
		Coordinates:	8V580263 6914326	2004 Ground Elevation (m amsl):	1033.38
Surface Protector:	yes	Date Installed:	1994	2004 Tip Elevation (m amsl):	1020.4
Date	Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments	
May-94	9.90	1024.00			
Sep-94	9.57	1024.33			
Sep-95	9.32	1024.58			
Sep-96	10.04	1023.86	1029.92		
7-May-97	11.00	1022.91			
20-Nov-97	10.07	1023.83			
26-May-98	9.84	1024.06	1031.20		
13-Nov-98	10.16	1023.74	1029.80		
3-Jun-99	9.65	1024.25	1031.40		
18-Sep-99	10.69	1023.21	~1029.2		
8-Jun-00	9.84	1024.06	~1030.2		
14-Aug-00	10.10	1023.80			
31-Aug-00	10.38	1023.52			
7-Sep-00	10.38	1023.52			
14-Sep-00	10.10	1023.80			
21-Sep-00	13.61			frozen?	
28-Sep-00	10.30	1023.60			
6-Oct-00	9.99	1023.91			
12-Oct-00	10.06	1023.84			
20-Oct-00	9.87	1024.03			
27-Oct-00	9.91	1023.99			
10-Jun-01	10.28	1023.62			
14-Sep-01	10.08	1023.82			
16-Oct-01	10.39	1023.51			
18-Oct-01	10.51	1023.39			
19-Oct-01	10.53	1023.37			
20-Oct-01	10.54	1023.36			
21-Oct-01	10.55	1023.35			
22-Oct-01	10.53	1023.37			
25-Oct-01	10.53	1023.37			
29-Oct-01	10.44	1023.46			
1-Nov-01	10.43	1023.48			
5-Nov-01	10.49	1023.42			
6-Nov-01	10.49	1023.42			
8-Nov-01	10.41	1023.49			
12-Nov-01	10.41	1023.49			
15-Nov-01	10.39	1023.51			
19-Nov-01	10.38	1023.52			
21-Nov-01	10.38	1023.53			
23-Nov-01	10.42	1023.48		pond elev approx - 8 ft.	
26-Nov-01	10.42	1023.48		daytime temp -34 C	
28-Nov-01	10.39	1023.51			
30-Nov-01	10.37	1023.53			
3-Dec-01	10.37	1023.53			
5-Dec-01	10.37	1023.54			
12-Dec-01	10.36	1023.54			
14-Dec-01	10.42	1023.48			
15-Dec-01	10.48	1023.42			
16-Dec-01	10.53	1023.37			
17-Dec-01	10.59	1023.31			
18-Dec-01	10.62	1023.28			
19-Dec-01	10.65	1023.25			
26-Dec-01	10.64	1023.26			
2-Jan-02	10.56	1023.34			
9-Jan-02	10.57	1023.33			
16-Jan-02	10.56	1023.34			
23-Jan-02	10.43	1023.47			
30-Jan-02	10.42	1023.48			
6-Feb-02	10.42	1023.48			
13-Feb-02	10.41	1023.49			
20-Feb-02	10.41	1023.49			
1-May-02	10.45	1023.45			
12-Jun-02	10.59	1023.31			
17-Jul-02	10.49	1023.42			
7-Aug-02	10.60	1023.31			
9-Sep-02	10.36	1023.54			
4-Nov-02	10.44	1023.47			

Table H-35: Cross Valley Dam Piezometric Monitoring 94 CVDC-1

94CVDC-1		Location:	Cross Valley Dam Crest Stn. 0+215	2004 Stick-up (m):	0.64
		Coordinates:	8V580263 6914326	2004 Ground Elevation (m amsl):	1033.38
Surface Protector:	yes	Date Installed:	1994	2004 Tip Elevation (m amsl):	1020.4
Date		Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
10-Nov-02		10.44	1023.46		
30-Jan-03		10.18	1023.72		
9-Feb-03		10.24	1023.67		start siphon
11-Feb-03		10.24	1023.67		
13-Feb-03		10.28	1023.63		
18-Feb-03		10.31	1023.59		
21-Feb-03		10.31	1023.59	1026.18	
23-Apr-03		10.26	1023.64		
7-May-03		10.49	1023.42		
16-May-03		10.47	1023.43		
11-Jun-03		10.47	1023.44		
15-Jul-03		10.38	1023.52		
10-Sep-03		10.76	1023.15		
4-Mar-04		10.25	1023.77		2004 Survey data used from here on.
8-Mar-04		10.36	1023.67		
26-Apr-04		10.24	1023.78		
19-Jul-04		10.38	1023.64		
26-Aug-04		10.31	1023.72		
9-Sep-04		10.51	1023.51		
22-Feb-05		10.15	1023.87		
23-Feb-05		10.18	1023.85		
24-Feb-05		10.22	1023.81		
26-May-05		10.87	1023.16		dirty
14-Sep-05		11.10	1022.93		
9-Mar-06		11.29	1022.73		
14-Jun-06		11.20	1022.83		
4-Oct-06		11.11	1022.92	1027.47	
9-May-07		10.54	1023.48	1029.30	
24-Sep-07		11.03	1022.99	1030.30	
9-Apr-08		10.10	1023.92	1030.30	
14-Apr-08		10.20	1023.82	1029.93	
21-Apr-08		10.39	1023.64	1029.63	
28-Apr-08		10.47	1023.55	1029.25	
5-May-08		10.44	1023.58	1029.43	
12-May-08		10.43	1023.59	1029.36	
20-May-08		10.46	1023.56	1029.34	
26-May-08		10.48	1023.54	1029.28	
24-Jun-08		10.69	1023.34	1028.64	
24-Sep-08		10.70	1023.33	1028.50	
31-Mar-09		10.42	1023.61	1029.60	
13-Apr-09		10.89	1023.14	1028.16	
16-Apr-09		10.98	1023.05	1027.74	
20-Apr-09		11.07	1022.96	1027.72	
23-Apr-09		11.13	1022.89	1027.49	
27-Apr-09		11.23	1022.80	1027.27	
30-Apr-09		11.28	1022.75	1027.16	
5-May-09		11.25	1022.78	1027.23	
19-May-09		11.04	1022.98	1027.83	
29-Jun-09		11.11	1022.92	1027.67	
15-Sep-09		10.89	1023.14	1028.36	
19-May-10		10.74	1023.29	1029.05	
3-Jun-10		10.87	1023.15	1029.74	
7-Sep-10		11.22	1022.81	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-36: Cross Valley Dam Piezometric Monitoring P01-11



P01-11		Location:	Cross Valley Dam Toe	2004 Stick-Up (m):	0.66
		Coordinates:	8V580208 6914301	2004 Surface Elevation (m amsl):	1017.21
Surface Protector:	yes	Date Installed:	2001	Tip Elevation (m amsl):	1006.61
				Screened Interval (m bgs):	9.15 - 10.67
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)		Comments
11-Sep-01		0.65	1017.18		
3-Sep-02		0.45	1017.38		
23-Sep-02		0.45	1017.38		
15-Jul-03		0.00	1017.83		*whole casing filled with water
4-Sep-03		0.52	1017.31		* Rhonda noted: 'water in casing'
10-Sep-03		0.63	1017.20		
19-Jul-04		0.505	1017.37		2004 survey data used from here on
26-Aug-04		0.51	1017.36		
9-Sep-04		0.65	1017.22		Ice in tubing, sulphur smell
24-Feb-05		0.6	1017.27		Frozen
26-May-05		0.5	1017.37		
14-Sep-05		1.06	1016.81		
9-Mar-06		1.16	1016.71		
14-Jun-06		1.05	1016.82		Water in casing
2-Oct-06		1.12	1016.75		
9-May-07		1.03	1016.84		Good Return
24-Sep-07		1.035	1016.84		
9-Apr-08		0.92	1016.95		frozen
14-Apr-08		0.66	1017.21		frozen
21-Apr-08		0.91	1016.96		frozen
28-Apr-08		0.91	1016.96		frozen
5-May-08		0.91	1016.96		frozen
12-May-08		0.81	1017.06		
20-May-08		0.815	1017.06		
26-May-08		0.81	1017.06		
24-Jun-08		0.82	1017.05		
24-Sep-08		0.81	1017.06		
31-Mar-09		0.95	1016.92	1029.596	Frozen
13-Apr-09		0.955	1016.92	1028.164	Frozen
16-Apr-09				1027.744	
20-Apr-09		0.955	1016.92	1027.716	Frozen
23-Apr-09				1027.487	
27-Apr-09		0.955	1016.92	1027.273	Frozen
30-Apr-09				1027.159	
5-May-09		0.955	1016.92	1027.229	Frozen
19-May-09		1.055	1016.82	1027.831	
29-Jun-09		1.05	1016.82	1027.668	
15-Sep-09		1.081	1016.79	1028.360	
19-May-10		0.916	1016.95	1029.052	
3-Jun-10		0.912	1016.96	1029.744	
7-Sep-10		1.225	1016.65	1030.436	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-37: Intermediate Dam Piezometric Monitoring BH91-ID3



BH91-ID3		Location:	Intermediate Dam South Abutment @ Stn. 0+810		Shallow Tip Elevation (m amsl):	1036.82
		Coordinates:	8V580359 6913723		Deep Tip Elevation (m amsl):	1028.62
Surface Protector:	yes	Date Installed:	1991		2004 Surface Elevation (m amsl):	1043.82
Date	Reading (psi)		Piezometric Elevation (m amsl)		Pond El. (m amsl)	Comments
	Shallow	Deep	Shallow	Deep		
Jul-91	1.23	9.71	1037.68	1035.42	1042.2	
Aug-91	0.04	9.40	1036.85	1035.20	1042.2	
Sep-91		8.60	1036.82	1034.64	1042.2	
Feb-92						
Apr-92						
Jun-92	3.44	13.46	1039.23	1038.04	1047.7	
Sep-92	1.10	10.51	1037.59	1035.98	1047.7	
May-94	0.20	10.70	1036.96	1036.11	1047.7	
Sep-94	0.40	9.10	1037.10	1034.99	1047.7	
Sep-95	0.00	9.50	1036.82	1035.27	1047.7	
Oct-96	0.10	7.50	1036.89	1033.87	1048.1	
7-May-97	0.20	6.40	1036.96	1033.10		
17-Oct-97	0.40	8.31	1037.10	1034.44		
27-May-98	0.10	11.70	1036.89	1036.81	1048.1	
12-Nov-98	0.22	7.10	1036.97	1033.59	1047.8	
16-Dec-98	0.00	6.30	1036.82	1033.03	1047.8	
29-May-99	0.40	11.05	1037.10	1036.36	1048	
16-Sep-99	0.02	8.40	1036.83	1034.50	1047.7	
14-Jun-00	0.01	10.41	1036.83	1035.91	1047.6	
9-Sep-00	0.00	9.50	1036.82	1035.27		
10-Jun-01	0.10	10.30	1036.89	1035.83		
20-Sep-01	0.01	8.20	1036.83	1034.36		
18-Jun-02	0.00	9.10	1036.82	1034.99		
10-Sep-02	0.00	8.20	1036.82	1034.36		
4-Nov-02	0.00	7.10	1036.82	1033.59		
10-Nov-02	0.00	6.50	1036.82	1033.17		
11-Jun-03	0.20	8.70	1036.96	1034.71		*have to continue using old piezometer, tips are too big
10-Sep-03	0.00	6.30	1036.82	1033.03		* Installed new tips, now using new box
10-May-04	0.00	5.20	1036.82	1032.26		2004 survey data used from this point on
19-Jul-04	0.00	6.20	1036.82	1032.96		
9-Sep-04	0.10	5.70	1036.89	1032.61		
26-May-05	0.00	8.40	1036.82	1034.50		
14-Sep-05	0.00	4.90	1036.82	1032.05		
9-Mar-06	0.00	3.30	1036.82	1030.93		
27-Mar-06	0.10	3.40	1036.89	1031.00		
14-Jun-06	0.10	7.10	1036.89	1033.59		
2-Oct-06	0.10	4.10	1036.89	1031.49		
22-May-07	0.00	4.60	1036.82	1031.84	1046.781	Good Flow
26-Sep-07	0.10	5.70	1036.89	1032.61		
24-Sep-08	0.10	6.10	1036.89	1032.89	1046.197	
29-Jun-09	0.10	5.70	1036.89	1032.61		
30-Sep-09	0.20	5.30	1036.96	1032.33	1046.048	
15-May-10	0.20	5.20	1036.96	1032.26	1046.269	
2-Jun-10	1.00	7.90	1037.52	1034.15	1045.94	
4-Aug-10	0.10	3.40	1036.89	1031.00	1044.285	
10-Sep-10	10.10	3.10	1043.89	1030.79	1043.726	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Note: Check results

Table H-38: Intermediate Dam Piezometric Monitoring BH91-ID4



BH91-ID4		Location:	Intermediate Dam Toe @St.0+567		Shallow Tip Elevation (m amsl):	1024.22
		Coordinates:	8V580517 6913926		Deep Tip Elevation (m amsl):	1017.08
Surface Protector:	yes	Date Installed:	1991		*Surface Elevation (m amsl):	1031.80
Date	Reading (psi)		Piezometric Elevation (m amsl)		Pond El. (m amsl)	Comments
	Shallow (upper)	Deep (lower)	Shallow (upper)	Deep (lower)		
Jul-91	10.34	19.06	1031.46	1030.42	1042.2	
Aug-91	10.81	19.20	1031.79	1030.52	1042.2	
Sep-91	11.10	19.30	1031.99	1030.59	1042.2	
Feb-92	12.24	19.59	1032.79	1030.79	1047.7	
Apr-92	12.44	19.64	1032.93	1030.83	1047.7	
Jun-92	14.80	20.40	1034.58	1031.36	1047.7	
Sep-92	11.86	21.10	1032.52	1031.85	1047.7	
May-94	10.00	18.70	1031.22	1030.17	1047.7	
Sep-94	8.90	17.40	1030.45	1029.26	1047.7	
Sep-95	11.00	19.00	1031.92	1030.38	1047.7	
Sep-96	10.00		1031.22		1048.1	
Oct-96	9.7	18.8	1031.01	1030.24		
7-May-97	6.3		1028.63			
17-Oct-97	11.58		1032.33			
27-May-98	11.04		1031.95		1048.1	
7-Aug-98		19.4		1030.66	1048.1	
12-Nov-98	9.22		1030.67		1047.8	
4-Dec-98	8.7	18.0	1030.31	1029.68	1047.8	
29-May-99	11.40	20.00	1032.20	1031.08	1048	
16-Sep-99	7.7	16.2	1029.61	1028.42	1047.7	
14-Jun-00	10.5	19.1	1031.57	1030.45	1047.6	
9-Sep-00	9.8	18.2	1031.08	1029.82		
10-Jun-01	9.50	18.1	1030.87	1029.75		
20-Sep-01	9.70	18.2	1031.01	1029.82		
18-Jun-02	9.70	18.80	1031.01	1030.24		
10-Sep-02	9.00	17.80	1030.52	1029.54		
4-Nov-02	9.00	17.60	1030.52	1029.40		
10-Nov-02	9.20	17.7	1030.66	1029.47		
11-Jun-03	9.00	17.7	1030.52	1029.47		*New piezometer readout used
10-Sep-03	7.60	16.4	1029.54	1028.56		
10-May-04	8.9	18.1	1030.45	1029.75		No 2004 elevation data
19-Jul-04	9.2	17.8	1030.66	1029.54		
9-Sep-04	8.6	17.2	1030.24	1029.12		
26-May-05	7.5	16	1029.47	1028.28		
14-Sep-05	6.5	15.1	1028.77	1027.65		
9-Mar-06	5.9	14.5	1028.35	1027.23		
27-Mar-06	6.3	14.9	1028.63	1027.51		
14-Jun-06	6.3	14.9	1028.63	1027.51		
2-Oct-06	6.3	14.9	1028.63	1027.51		
22-May-07	8.2	16.8	1029.96	1028.84	1046.781	Good Flow
26-Sep-07	5.8	15	1028.28	1027.58		
20-May-08	9.2	17.5	1030.66	1029.33		
11-Jun-08	8.7	16.9	1030.31	1028.91		
24-Sep-08	7.9	16.4	1029.75	1028.56	1046.197	
29-Jun-09	6.7	15.2	1028.91	1027.72		
30-Sep-09	8.7	16.9	1030.31	1028.91	1046.048	
15-May-10	8.4	16.9	1030.10	1028.91	1046.269	
2-Jun-10	16.7	13.8	1035.91	1026.74	1045.94	
10-Sep-10	6.7	14.6	1028.91	1027.30	1043.726	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Note: Check results

Table H-39: Intermediate Dam Piezometric Monitoring BH91-ID6



BH91-ID6		Location:	Intermediate Dam Toe @St.0+630		Shallow Tip Elevation (m amsl):	1024.80	
		Coordinates:	8V580475 6913866		Deep Tip Elevation (m amsl):	1016.90	
Surface Protector:	yes	Date Installed:	1991		2004 Surface Elevation (m amsl):	1031.36	
Date		Reading (psi)		Piezometric Elevation (m amsl)		Pond El. (m amsl)	Comments
		Shallow (upper)	Deep (lower)	Shallow (upper)	Deep (lower)		
		Jul-91	7.89	20.33	1030.32		
Aug-91	8.06	20.91	1030.44	1031.54	1042.20		
Sep-91	8.20	20.80	1030.54	1031.46	1042.20		
Feb-92	8.20	20.70	1030.54	1031.39	1047.70		
Apr-92	9.06	23.10	1031.14	1033.07	1047.70		
Jun-92	9.91	25.80	1031.74	1034.96	1047.70		
Sep-92	8.67	21.36	1030.87	1031.85	1047.70		
May-94	7.20	20.00	1029.84	1030.90	1047.70		
Sep-94	6.20	18.90	1029.14	1030.13	1047.70		
Sep-95	7.50	20.00	1030.05	1030.90	1047.70		
Sep-96	6.60		1029.42		1048.10		
Oct-96	5.80	21.10	1028.86	1031.67			
7-May-97	2.90		1026.83				
17-Oct-97	8.41		1030.69				
27-May-98	8.56		1030.79		1048.10		
7-Aug-98		20.80		1031.46	1048.10		
12-Nov-98	6.57		1029.40		1047.80		
4-Dec-98	6.80	19.50	1029.56	1030.55	1047.80		
29-May-99	8.78	21.50	1030.95	1031.95	1048.00		
16-Sep-99	5.30	17.60	1028.51	1029.22	1047.70		
14-Jun-00	7.70	20.41	1030.19	1031.19	1047.60		
9-Sep-00	6.80	19.70	1029.56	1030.69			
10-Jun-01	6.80	19.50	1029.56	1030.55			
20-Sep-01	7.00	19.70	1029.70	1030.69			
18-Jun-02	6.80	19.60	1029.56	1030.62			
10-Sep-02	6.50	19.20	1029.35	1030.34			
4-Nov-02	6.30	19.00	1029.21	1030.20			
10-Nov-02	6.30	19.20	1029.21	1030.34			
11-Jun-03	6.40	19.00	1029.28	1030.20		*New piezometer started use here	
10-Sep-03	5.10	17.60	1028.37	1029.22			
10-May-04	6.30	19.00	1029.21	1030.20		2004 survey data used from this point on	
19-Jul-04	6.50	19.10	1029.35	1030.27			
9-Sep-04	5.90	18.60	1028.93	1029.92			
26-May-05	4.50	17.40	1027.95	1029.08			
14-Sep-05	3.60	16.50	1027.32	1028.45			
9-Mar-06	3.50	16.10	1027.25	1028.17			
27-Mar-06	3.40	16.40	1027.18	1028.38		3.4/3.5 won't stabilize	
14-Jun-06	3.70	16.30	1027.39	1028.31			
2-Oct-06	3.50	16.30	1027.25	1028.31			
22-May-07	5.40	18.10	1028.58	1029.57	1046.78	Good flow	
26-Sep-07	3.60	16.60	1027.32	1028.52			
20-May-08	6.10	18.90	1029.07	1030.13			
11-Jun-08	5.70	18.40	1028.79	1029.78			
24-Sep-08	5.20	17.90	1028.44	1029.43	1046.20		
29-Jun-09	3.90	16.60	1027.53	1028.52			
15-Sep-09	4.80	n/r	1028.16				
30-Sep-09	5.50	18.50	1028.65	1029.85	1046.05		
15-May-10	5.60	18.30	1028.72	1029.71	1046.27		
2-Jun-10	23.00	5.60	1040.90	1020.82	1045.94		
10-Sep-10	3.30	16.00	1027.11	1028.10	1043.73		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Note: Check results

Table H-40: Intermediate Dam Piezometric Monitoring BH91-ID7

BH91-ID7		Location: Intermediate Dam Toe @St.0+759			
		Coordinates:		Tip Elevation (m amsl):	
Surface Protector:	yes	Date Installed:	1991	2004 Ground Elevation (amsl):	1032.42
Date	Reading (psi)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments	
Jul-91	8.94	1032.21	1042.20		
Aug-91	9.06	1032.29	1042.20		
Sep-91	8.90	1032.18	1042.20		
Feb-92	13.21	1035.20	1047.70		
Apr-92	10.01	1032.96	1047.70		
Jun-92	10.61	1033.38	1047.70		
Sep-92	9.21	1032.40	1047.70		
May-94	8.60	1031.97	1047.70		
Sep-94	7.40	1031.13	1047.70		
Sep-95	9.00	1032.25	1047.70		
Sep-96	8.10	1031.62	1048.10		
7-May-97	5.10	1029.52			
17-Oct-97	9.36	1032.50			
27-May-98	9.49	1032.59	1048.10		
12-Nov-98	7.56	1031.24	1047.80		
16-Dec-98	7.60	1031.27	1047.80		
29-May-99	9.60	1032.67	1048.00		
16-Sep-99	6.60	1030.57	1047.70		
14-Jun-00	8.90	1032.18	1047.60		
9-Sep-00	7.50	1031.20			
10-Jun-01	8.20	1031.69			
20-Sep-01	8.10	1031.62			
18-Jun-02	8.30	1031.76			
10-Sep-02	7.70	1031.34			
4-Nov-02	7.50	1031.20			
10-Nov-02	7.40	1031.13			
11-Jun-03	7.70	1031.34		*New piezometer started use here	
10-Sep-03	6.20	1030.29			
10-May-04	7.20	1030.99		2004 survey data used from here on	
19-Jul-04	7.40	1031.13			
9-Sep-04	6.90	1030.78			
26-May-05	6.10	1030.22			
14-Sep-05	5.10	1029.52			
9-Mar-06	4.60	1029.17			
27-Mar-06	4.80	1029.31			
14-Jun-06	5.40	1029.73			
2-Oct-06	4.90	1029.38			
22-May-07	6.30	1030.36	1046.78	Good Flow	
26-Sep-07	5.50	1029.80			
20-May-08	7.30	1031.06			
11-Jun-08	6.90	1030.78			
24-Sep-08	6.40	1030.43	1046.20		
29-Jun-09	5.30	1029.66			
15-Sep-09	5.80	1030.01			
30-Sep-09	6.50	1030.50	1046.05		
15-May-10	6.50	1030.50	1046.27		
2-Jun-10	5.80	1030.01	1045.94		
10-Sep-10	4.30	1028.96	1043.73		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;

Table H-41: Intermediate Dam Piezometric Monitoring BH94-IDC-1



BH94-IDC-1		Location:	Intermediate Dam Crest	2004 Stick Up (m):	0.27
		Coordinates:	8V580605 6913969	2004 Surface Elevation (m amsl):	1049.21
Surface Protector:	Yes	Date Installed:	1994	Tip Elevation:	N/A
Date	Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments	
2-Jun-94			1047.70	dry	
16-Sep-94			1047.70	dry	
22-Sep-95			1047.70	dry	
25-Sep-96			1048.10	dry	
28-May-98			1048.10	dry	
13-Nov-98	14.10	1035.48	1047.80	dry	
8-Jun-99	14.10	1035.48	1047.80	dry	
16-Sep-99	14.18	1035.40	1047.70	dry	
14-Jun-00	14.11	1035.47	1047.60	dry	
9-Sep-00	14.11	1035.47	1047.60	H2O	
10-Jun-01	14.11	1035.47	1047.60		
1-Aug-01	14.11	1035.47	1047.60	dry	
18-Jun-02	14.11	1035.47		dry	
5-Aug-02	14.19	1035.40		dry	
2-Sep-02	14.11	1035.47		dry	
2-Nov-02	14.11	1035.47		dry	
10-Nov-02	14.11	1035.47		dry	
11-Jun-03	14.12	1035.46		dry	
10-Sep-03	14.11	1035.47		dry	
10-May-03	14.11	1035.47		dry	
19-Jul-04	14.11	1035.37		dry	
9-Sep-04	14.11	1035.37		dry	
26-May-05	14.12	1035.36		bottom	
14-Sep-05	14.12	1035.36		bottom	
9-Mar-06	14.17	1035.31			
27-Mar-06	14.13	1035.35			no beep, ice crystals
14-Jun-06	14.13	1035.36			bottom
2-Oct-06	14.12	1035.36			
22-May-07	14.14	1035.35	1046.78		bottom and beep
26-Sep-07	14.13	1035.36			no beep
20-May-08	14.15	1035.33			no beep
11-Jun-08	14.14	1035.34			no beep
24-Sep-08	14.14	1035.34	1046.20		no beep
29-Jun-09	14.15	1035.33			no beep
30-Sep-09	14.16	1035.33	1046.05		no beep
15-May-10	14.17	1035.31	1046.27		no beep
2-Jun-10	14.15	1035.33	1045.94		no beep
10-Sep-10	14.15	1035.33	1043.73		no beep

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-42: Intermediate Dam Piezometric Monitoring BH96-1



BH96-1		Location: Intermediate Dam Crest			
		Coordinates:	8V580563 6913908	2004 Stick Up:	0.68
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1049.15
		Screened Interval (m bgs):	18.77 - 21.80	Tip Elevation (m amsl):	1027.35
Date		Water level from top of pipe (m)		Piezometric Elevation (m amsl)	Comments
8-Sep-96		20.06		1029.99	
26-Sep-96					
27-Sep-96					
13-May-97					
6-Jun-97					
11-Jul-97					
7-Oct-97		18.77		1031.28	
1-Jun-98		18.73		1031.32	
31-Oct-98		20.08		1029.97	
13-Nov-98		19.97		1030.08	
8-Jun-99		18.40		1031.65	
19-Jun-99					
3-Jul-99					
29-Oct-99		20.55		1029.50	
31-Oct-99					
31-May-00					
27-Jun-00					
25-Jul-00					
21-Sep-00		20.13		1029.92	
10-Oct-00					
6-Jun-01					
15-Jul-01					
5-Sep-01					
18-Jun-02					
5-Aug-02		20.48		1029.57	
10-Sep-02		20.02		1030.03	
4-Nov-02		20.14		1029.91	
10-Nov-02		20.06		1029.99	
11-Jun-03		20.03		1030.03	
10-Sep-03		20.96		1029.09	
12-May-04		19.93		1029.91	2004 survey data used from here on
8-Jul-04		19.70		1030.14	
19-Jul-04		19.95		1029.89	
9-Sep-04		20.33		1029.51	clear
26-May-05		21.17		1028.66	ice
14-Sep-05		21.82		1028.01	
9-Mar-06					
27-Mar-06					no read, frozen
14-Jun-06		2.27			likely a mistake
2-Oct-06		21.98		1027.85	
22-May-07					no read, frozen
26-Sep-07		21.66		1028.18	
20-May-08		1.22			no beep, frozen
11-Jun-08		1.20			no beep, frozen
24-Sep-08		20.97		1028.86	
29-Jun-09		3.08			frozen
30-Sep-09		20.59		1029.24	
15-May-10		20.59		1029.24	slush present
2-Jun-10		21.02		1028.81	
10-Sep-10		22.20		1027.63	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-43: Intermediate Dam Piezometric Monitoring 96-2



BH96-2		Location: Intermediate Dam Crest			
		Coordinates:	8V580696 6914096	Tip Elevation (m amsl): 1028.87	
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation: (m amsl)	1049.22
		Screened Interval (m bgs):	17.13 - 20.12	2004 Stick Up (m):	0.72
Date		Water level from top of pipe (m)		Piezometric Elevation (m amsl)	Comments
8-Sep-96		19.74		1030.31	
26-Sep-96					
27-Sep-96		19.94		1030.11	
13-May-97					
6-Jun-97					
11-Jul-97					
7-Oct-97		18.30		1031.75	
1-Jun-98		18.44		1031.61	
31-Oct-98		19.80		1030.25	
13-Nov-98		19.69		1030.36	
8-Jun-99		18.11		1031.94	
19-Jun-99					
3-Jul-99					
29-Oct-99		20.25		1029.80	
31-Oct-99					
31-May-00					
27-Jun-00					
25-Jul-00					
21-Sep-00		19.78		1030.27	
10-Oct-00					
6-Jun-01					
15-Jul-01					
5-Sep-01					
18-Jun-02		19.38		1030.68	
5-Aug-02		20.15		1029.90	
10-Sep-02		19.68		1030.37	
4-Nov-02		19.82		1030.24	
10-Nov-02		19.73		1030.32	
11-Jun-03		19.71		1030.34	
10-Sep-03		20.65		1029.40	
10-May-04		21.07		1028.87	Dry reading, 2004 survey data used from here on
19-Jul-04		19.62		1030.33	
9-Sep-04		20.02		1029.92	
26-May-05		19.95		1029.99	
14-Sep-05		21.04		1028.90	bottom iron mud on probe
9-Mar-06		21.15		1028.79	
27-Mar-06		21.03		1028.91	no beep, mud on probe
14-Jun-06		13.05			
2-Oct-06		21.04		1028.90	
22-May-07		20.34		1029.60	no beep, dry
26-Sep-07		21.40		1028.54	
20-May-08		19.89		1030.06	
11-Jun-08		20.19		1029.75	
24-Sep-08		20.58		1029.36	
29-Jun-09		21.50		1028.44	no beep
30-Sep-09		20.24		1029.70	
15-May-10		20.27		1029.67	
2-Jun-10		20.67		1029.27	
10-Sep-10		21.04		1028.91	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-44: Intermediate Dam Piezometric Monitoring BH-96-3

BH96-3		Location:	Intermediate Dam Toe, near the North Abutment	2004 Stick Up - A (m):	0.65
		Coordinates:	8V580529 6913934	2004 Stick Up - B (m):	0.59
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1031.48
		Tip Elevation - A (m amsl):	1022.43	Screened Interval - A (m bgs):	7.44 - 8.97
		Tip Elevation - B (m amsl):	1012.23	Screened Interval - B (m bgs):	17.7 - 19.17
Date	Water level from top of pipe (m)		Piezometric Elevation (m amsl)		Comments
	A	B	96-3A (Shallow)	96-3B (Deep)	
8-Sep-96	2.37	2.25	1029.71	1029.78	
26-Sep-96	2.53	2.40	1029.55	1029.63	
27-Sep-96					
13-May-97	4.50	4.32	1027.58	1027.71	
6-Jun-97					
11-Jul-97					
7-Oct-97	1.06	0.95	1031.02	1031.08	
1-Jun-98	1.07	0.99	1031.01	1031.04	
31-Oct-98	2.44	2.34	1029.64	1029.69	
13-Nov-98					
8-Jun-99					
19-Jun-99	0.70	0.58	1031.38	1031.45	
3-Jul-99					
29-Oct-99	2.94	2.82	1029.14	1029.21	
31-Oct-99					
31-May-00					
27-Jun-00	2.41	2.26	1029.67	1029.77	
25-Jul-00					
21-Sep-00					
10-Oct-00	2.20	2.05	1029.88	1029.98	
6-Jun-01	2.38	2.24	1029.70	1029.79	
15-Jul-01	2.00	1.86	1030.08	1030.17	
5-Sep-01	1.98	1.86	1030.10	1030.17	
18-Jun-02	1.81		1030.27		
5-Aug-02					
10-Sep-02	2.57	2.42	1029.52	1029.61	
4-Nov-02					
10-Nov-02					
11-Jun-03	2.47	2.34	1029.61	1029.69	
10-Sep-03	3.43	3.28	1028.65	1028.75	
8-Jul-04	2.15	2.01	1029.98	1030.06	2004 survey data used from here on
19-Jul-04	2.40	2.23	1029.73	1029.85	
9-Sep-04	2.77	2.65	1029.36	1029.43	clear, sulphur smell
26-May-05	3.66	3.49	1028.47	1028.58	
14-Sep-05	4.37	4.18	1027.77	1027.89	
9-Mar-06	4.76	4.59	1027.37	1027.48	
27-Mar-06	4.43	4.26	1027.70	1027.81	
14-Jun-06	4.45	4.26	1027.68	1027.81	
2-Oct-06	4.42	4.30	1027.71	1027.77	
22-May-07	2.29	2.88	1029.84	1029.19	a- frozen no beep
26-Sep-07	4.06	3.94	1028.07	1028.13	
20-May-08	2.56	2.48	1029.57	1029.59	
11-Jun-08	2.91	2.81	1029.22	1029.26	
24-Sep-08	3.36	3.25	1028.77	1028.82	
29-Jun-09	4.17	4.04	1027.96	1028.03	
30-Sep-09	2.97	2.87	1029.16	1029.20	
15-May-10	2.95	2.85	1029.18	1029.22	
2-Jun-10	3.39	3.28	1028.74	1028.79	
10-Sep-10	5.51	3.77	1026.62	1028.31	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-45: Intermediate Dam Piezometric Monitoring BH-96-4

BH96-4		Location:	Intermediate Dam Toe, near South Abutment		2004 Stick Up - A (m):	0.95			
		Coordinates:	8V580669 6914113		2004 Stick Up - B (m):	0.87			
Surface Protector:	N/A	Date Installed:	1996		2004 Stick Up - C (m):	0.91			
Screened Interval - A (m bgs):	5.7-6.48	Screened Interval - C (m bgs):	14.97-16.47		2004 Stick Up - D (m):	0.88			
Screened Interval - B (m bgs):	9.8-11.3	Screened Interval - D (m bgs):	26.84-28.34		2004 Surface Elevation (m amsl):	1032.16			
Date	Water level from top of pipe (m)				Piezometric Elevation (m amsl)				Comments
	A	B	C	D	A	B	C	D	
8-Sep-96	3.11	3.04	2.98	2.88	1029.99	1030.01	1030.02	1030.12	
26-Sep-96	3.27	3.25	3.12	3.05	1029.83	1029.80	1029.88	1029.95	
27-Sep-96									
13-May-97	5.21		4.85		1027.89		1028.15		
6-Jun-97									
11-Jul-97		3.51				1029.54			
7-Oct-97	1.45	1.87	1.82		1031.65	1031.18	1031.18		
1-Jun-98	1.84	1.84	1.83	1.62	1031.26	1031.21	1031.17	1031.38	
31-Oct-98	3.18	3.15	3.09	3.01	1029.92	1029.90	1029.91	1029.99	
13-Nov-98									
8-Jun-99									
19-Jun-99	1.43	1.38	1.36	1.25	1031.67	1031.67	1031.64	1031.75	
3-Jul-99									
29-Oct-99	3.68	3.62	3.60	3.48	1029.42	1029.43	1029.40	1029.52	
31-Oct-99									
31-May-00									
27-Jun-00	3.14	3.08	3.07	2.93	1029.96	1029.97	1029.93	1030.07	
25-Jul-00			2.84				1030.16		
21-Sep-00									
10-Oct-00	2.92	2.85	2.83	2.71	1030.18	1030.20	1030.17	1030.29	
6-Jun-01	3.13	3.04	3.06	2.94	1029.97	1030.01	1029.94	1030.06	
15-Jul-01									
5-Sep-01	2.77	2.68	2.71	2.57	1030.33	1030.37	1030.29	1030.43	
18-Jun-02	1.06	0.77			1032.04	1032.28			
5-Aug-02									
10-Sep-02	3.31	3.24	3.25	3.11	1029.80	1029.82	1029.75	1029.90	
4-Nov-02									
10-Nov-02									
11-Jun-03	3.24	3.15	3.21	3.06	1029.86	1029.90	1029.79	1029.94	
10-Sep-03	4.19	3.82	4.15	3.99	1028.91	1029.23	1028.85	1029.01	
10-May-04	3.18	3.10	3.14	3.01	1029.93	1029.94	1029.93	1030.03	2004 survey info used from here on
8-Jul-04	3.16	3.09	3.12	2.99	1029.95	1029.94	1029.96	1030.06	
19-Jul-04	3.56	3.09	3.12	2.99	1029.55	1029.94	1029.96	1030.06	
9-Sep-04	3.41	3.41	3.50	3.38	1029.70	1029.62	1029.57	1029.67	a, b and c - dirty; d - clear; a and d - sulphur smell
26-May-05	4.415	3.74		4.22	1028.70	1029.29		1028.83	coarse sand frozen
14-Sep-05	5.1	3.75	5.25	4.89	1028.01	1029.28	1027.82	1028.15	b- bottom blocked
9-Mar-06	5.50	blocked	5.33	5.31	1027.61		1027.74	1027.73	b- bottom blocked
27-Mar-06	5.19	blocked	5.12	4.99	1027.92		1027.96	1028.05	b- bottom blocked, ice crystals on probe
14-Jun-06	2.66	3.75	0.40	4.98		1028.41		1028.06	b-bottom. C-bottom fine sand
2-Oct-06	5.28	3.75	5.20	5.07	1027.83	1028.41	1027.87	1027.97	
22-May-07	3.15	3.75	1.52	3.11	1029.96	1028.41	1031.55	1029.93	a, b and d- frozen no beep
26-Sep-07	4.92	3.74	4.84	4.71	1028.20	1028.42	1028.23	1028.34	b: dry
20-May-08	3.46	3.37	3.39	2.60	1029.65	1028.79	1029.68	1030.44	
11-Jun-08	3.79	3.70	3.72	3.60	1029.32	1028.46	1029.35	1029.44	
24-Sep-08	4.23	3.75	4.15	4.01	1028.88	1028.41	1028.92	1029.03	b: dry
29-Jun-09	5.03	3.77	4.93	4.80	1028.08	1028.39	1028.14	1028.24	b: no beep
30-Sep-09	3.85	3.77	3.77	2.65	1029.26	1028.39	1029.30	1030.39	
15-May-10				3.66				1029.38	
2-Jun-10				4.08				1028.96	
10-Sep-10				5.29				1027.76	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-46: Intermediate Dam Piezometric Monitoring P01-03

P01-03		Location:	Intermediate Dam Toe	2004 Stick-Up (m):	0.61
		Coordinates:	8V580636 6914064	2004 Surface Elevation (m amsl):	1031.52
Surface Protector:	yes	Date Installed:	1996	Tip Elevation (m amsl):	1022.35
				Screened Interval (m bgs):	7.78 - 9.30
Date	Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments	
11-Sep-01	1.58	1030.63			
10-Jun-02	2.39	1029.82			
23-Sep-02	2.06	1030.15	1047.19		
11-Jun-03	1.61	1030.60			
10-Sep-03	3.08	1029.14			
10-May-04	1.70	1030.43			2004 survey info used from here on
8-Jul-04	1.82	1030.31			
19-Jul-04	2.07	1030.06			
9-Sep-04	2.46	1029.68			Dirty, strong sulphur smell
26-May-05	3.29	1028.85			ph=6.7, temp=9.0C
14-Sep-05	3.96	1028.17			ph=6.8, temp=6.4C
9-Mar-06	4.38	1027.75			
27-Mar-06	4.07	1028.06			
14-Jun-06	4.06	1028.07			
2-Oct-06	4.14	1027.99			
22-May-07	2.45	1029.69	1046.78		No Beep, frozen
26-Sep-07	4.01	1028.12	1047.78		
20-May-08	1.85	1030.28			No Beep, frozen
11-Jun-08	2.71	1029.42			
24-Sep-08	3.12	1029.02			
29-Jun-09	3.92	1028.21	1046.48		
30-Sep-09	2.76	1029.37	1046.05		
15-May-10	2.77	1029.36	1046.27		
2-Jun-10	3.19	1028.94	1045.94		
10-Sep-10	4.40	1027.74	1043.73		

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-47: Intermediate Dam Piezometric Monitoring P01-04

P01-04		Location:	Intermediate Dam Toe	2004 Stick Up - A (m):	0.45
		Coordinates:	8V580489 6913888	2004 Stick Up -B (m):	0.45
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1032.32
		Screened Interval -A (m bgs):	31.7 - 33.22	Tip Elevation - A (m amsl):	998.17
		Screened Interval - B (m bgs):	51.0 - 52.5	Tip Elevation - B (m amsl):	978.89
	Water level from top of pipe (m)		Piezometric Elevation (m amsl)		Comments
Date	A	B	A	B	
11-Sep-01	0.78	0.43	1031.12	1031.46	
10-Jun-02	1.67	1.29	1030.23	1030.60	
23-Sep-02	1.39	1.00	1030.51	1030.89	
11-Jun-03	1.45	1.03	1030.45	1030.86	
10-Sep-03	2.35	1.90	1029.55	1029.99	
10-May-04	1.25	1.17	1031.52	1031.60	2004 survey info used from this point on
8-Jul-04	1.18	0.76	1031.59	1032.02	
19-Jul-04	1.42	0.99	1031.35	1031.78	
9-Sep-04	1.83	1.40	1030.95	1031.37	
26-May-05	0.53	0.60	1032.24	1032.17	bottom, no beep
14-Sep-05	2.69	3.22	1030.08	1029.56	
9-Mar-06	1.99	3.71	1030.78	1029.06	
27-Mar-06	1.99	3.42	1030.78	1029.35	bottom
14-Jun-06	1.99	2.60	1030.79	1030.18	bottom
2-Oct-06	2.85	3.40	1029.92	1029.37	
22-May-07	0.82	2.13	1031.95	1030.64	a-beep, b-frozen no beep
26-Sep-07	2.45	3.00	1030.33	1029.77	
20-May-08	0.69	1.56	1032.09	1031.21	b-no beep, frozen
11-Jun-08	1.39	1.93	1031.38	1030.84	
24-Sep-08	1.65	2.26	1031.13	1030.51	
29-Jun-09	2.44	3.04	1030.33	1029.73	
30-Sep-09	1.37	1.85	1031.41	1030.93	
15-May-10	1.60	2.04	1031.18	1030.73	
2-Jun-10	1.78	2.05	1030.99	1030.72	
10-Sep-10	3.50	2.95	1029.27	1029.82	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-48: Intermediate Dam Piezometric Monitoring BKS04-06

BKS04-06		Location:	Intermediate Dam South Abutment	2004 Stick-Up (m):	1.51
		Coordinates:	N 6913803 E 580454.9	Tip Elevation (m amsl):	1036.00
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1049.1
				Screened Interval (m bgs):	12.8 - 13.1
Date	Water level from top of pipe (m)		Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
26-May-05	13.01		1037.60		
14-Sep-05	14.15		1036.46		bottom - no beep
9-Mar-06	13.87		1036.74		
27-Mar-06	13.04		1037.57		no beep
14-Jun-06	14.14		1036.47		sticky at 11.0m
2-Oct-06	14.11		1036.50		
22-May-07	13.86		1036.75	1046.78	Bottom no beep
26-Sep-07	14.15		1036.46		no beep
20-May-08	1.82				no beep
11-Jun-08	1.79				no beep
24-Sep-08	14.16		1036.45		no beep
29-Jun-09	14.17		1036.44		beeped
30-Sep-09	14.27		1036.34		no beep
15-May-10	1.94			1046.27	Stuck in slush; No beep
2-Jun-10	14.17		1036.44	1045.94	
10-Sep-10	13.88			1043.73	Stuck in slush; No beep

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-49: Intermediate Dam Piezometric Monitoring BKS 04-07

BKS04-07		Location:	Intermediate Dam South Abutment	2004 Stick-Up (m):	1.51
		Coordinates:	N 6913747 E 580407.6	Tip Elevation (m amsl):	1037.29
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1049.2
				Screened Interval (m bgs):	11.5 - 11.81
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
26-May-05		14.155			Impossible reading
14-Sep-05		12.99	1037.72		
9-Mar-06		13.03	1037.68		
27-Mar-06		14.16	1036.55		no beep
14-Jun-06		13.02	1037.69		sticky at 12.7 m
2-Oct-06		13.01	1037.70		
22-May-07		2.03		1046.78	no beep, frozen
26-Sep-07		13.025	1037.69	1047.78	
20-May-08		1.99			no beep
11-Jun-08		2.89			no beep
24-Sep-08		13.405	1037.31		
29-Jun-09		3.58			blocked
30-Sep-09		13.053	1037.66	1046.05	
15-May-10		13.081	1037.63	1046.27	
2-Jun-10				1045.94	Hit something solid - either ground or ice.
10-Sep-10		12.785	1037.93	1043.73	Hit something solid - probably ground; No beep.

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-50: Secondary Tailings Dam Piezometric Monitoring P81-06

P81-06		Location:	Secondary Dam	2004 Stick-Up (m):	0.13
		Coordinates:	8V582791 6912684	2004 Surface Elevation (m amsl):	1060.74
Surface Protector:	N/A	Date Installed:	1981	Tip Elevation (m amsl):	1054.71
				Screened Interval (m bgs):	Unknown
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		6.81	1054.72		
1-Aug-05		6.16	1054.71		
14-Sep-05		6.81	1054.72		
2-Oct-06		6.805	1054.73		
6-Jun-07		6.79	1054.74		no beep, bottom
26-Sep-07		6.79	1054.74		no beep, bottom
25-Jun-08		6.79	1054.74		no beep, bottom
25-Sep-08		6.805	1054.73		
30-Sep-09		6.815	1054.72		
		6.802			All Measurements To Top Of Well - Plastic Casing Broken
20-May-10			1054.73		
5-Jun-10		6.812	1054.72		
10-Sep-10		6.800	1054.73		

Note: Water levels should be read from top of lower section of pipe (5" stick-up), not from the 26" broken piece on top.

Note: Data until end of 2009 as compiled in BGC, 2010 data compiled by DES

Table H-51: Secondary Tailings Dam Piezometric Monitoring P81-07

P81-07		Location:	Secondary Dam	2004 Stick-Up (m):	0.77
		Coordinates:	8V583222 6912420	2004 Surface Elevation (m amsl):	1063.31
Surface Protector:	N/A	Date Installed:	1981	Tip Elevation (m amsl):	1057.17
				Screened Interval (m bgs):	Unknown
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		6.95	1057.13		
1-Aug-05		6.91	1057.17		
14-Sep-05		6.91	1057.17		
2-Oct-06		6.91	1057.17		
6-Jun-07		6.91	1057.17		
26-Sep-07		6.9	1057.18		Beep
25-Jun-08		6.905	1057.18		
25-Sep-08		6.91	1057.17		
30-Sep-09		6.908	1057.17		
20-May-10		6.905	1057.18		
5-Jun-10		6.909	1057.17		
10-Sep-10		6.925	1057.16		

Note: Data until end of 2009 as compiled in BGC, 2010 data compiled by DES

Figure H-52: Secondary Tailings Dam Piezometric Monitoring P81-08

P81-08		Location:	Secondary Dam	2004 Stick-Up (m):	0.74
		Coordinates:	8V583322 6912403	2004 Surface Elevation (m amsl):	1063.26
Surface Protector:	N/A	Date Installed:	1981	Tip Elevation (m amsl):	1055.80
				Screened Interval (m bgs):	Unknown
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		8.19	1055.81		
1-Aug-05		8.2	1055.80		Dry
14-Sep-05		8.19	1055.81		
2-Oct-06		8.195	1055.81		Dry
6-Jun-07		8.2	1055.80		no beep, bottom
26-Sep-07		8.2	1055.80		no beep, bottom
25-Jun-08		8.195	1055.81		no beep, bottom
25-Sep-08		8.195	1055.81		no beep, bottom
30-Sep-09		8.192	1055.81		no beep, bottom
20-May-10		8.193	1055.81		no beep, assumed dry
5-Jun-10		8.210	1055.79		
10-Sep-10		8.210	1055.79		

Note: Data until end of 2009 as compiled in BGC, 2010 data compiled by DES

Table H-53: Secondary Tailings Dam Piezometric Monitoring P03-01

P03-01		Location:	Secondary Impoundment Tailings	2004 Stick-Up (m):	0.53
		Coordinates:		2004 Surface Elevation (masl):	1060.581
Surface Protector:	?	Date Installed:	2003	Tip Elevation (m amsl):	?
				Screened Interval (m bgs):	?
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		6.055	1055.06		
16-Sep-05		6.395	1054.72		
2-Oct-06		6.56	1054.55		
6-Jun-07		6.455	1054.66		Gartner Lee did the wells already
26-Sep-07		6.57	1054.54		Beep
25-Jun-08		6.215	1054.90		
25-Sep-08		6.285	1054.83		
30-Sep-09		5.858	1055.25		
20-May-10		1.808	1059.30		
5-Jun-10		6.414	1054.70		
10-Sep-10		6.112	1055.00		

Table H-54: Secondary Tailings Dam Piezometric Monitoring P03-02

P03-02		Location:	Secondary Impoundment Tailings	2004 Stick-Up (m):	0.69
		Coordinates:		2004 Surface Elevation (m amsl):	1059.9
Surface Protector:	?	Date Installed:	2003	Tip Elevation (m amsl):	?
				Screened Interval (m bgs):	?
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		5.745	1054.85		
16-Sep-05		5.77	1054.82		
2-Oct-06		5.87	1054.72		
6-Jun-07		2.24	1058.35		No beep, bottom
26-Sep-07		5.955	1054.64		Beep
25-Jun-08		5.89	1054.70		
25-Sep-08		5.755	1054.84		
30-Sep-09		6.875	1053.72		
20-May-10		6.162	1054.43		
5-Jun-10		6.025	1054.57		
10-Sep-10		5.986	1054.60		

Figure H-55: Secondary Tailings Dam Piezometric Monitoring P03-03

P03-03		Location:	Secondary Impoundment Tailings	2004 Stick-Up (m):	0.82
		Coordinates:		2004 Surface Elevation (m amsl):	1060.67
Surface Protector:	?	Date Installed:	2003	Tip Elevation (m amsl):	?
				Screened Interval (m bgs):	?
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		4.01	1057.48		
16-Sep-05		4.125	1057.37		
2-Oct-06		4.2	1057.29		
6-Jun-07		1.22	1060.27		
26-Sep-07		1.22	1060.27		No Beep - Bottom
25-Jun-08		6.95	1054.54		
25-Sep-08		5.475	1056.02		
30-Sep-09		6.875	1054.62		No Beep - Bottom
20-May-10		6.901	1054.59		
5-Jun-10		6.910	1054.58		
10-Sep-10		6.855	1054.64		

Table H-56: North Fork Rock Drain NFRD + X2 Staff Gauge Readings 2010



Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
13-Apr-10			3:12 PM	0.050	
29-Apr-10	11:29 AM	0.099	11:25 AM	0.157	
1-May-10	8:32 AM	0.145			
2-May-10	8:20 AM	0.095			
2-May-10	5:50 PM	0.535			
3-May-10	4:13 PM	0.080	4:14 PM	0.468	
4-May-10	9:06 AM	0.040	9:08 AM	0.990	
5-May-10	10:51 AM	0.025	10:49 AM	0.407	
6-May-10	8:50 AM	0.599	8:30 AM	0.421	
7-May-10	7:06 AM	0.458	7:04 AM	0.620	
9-May-10	8:55 AM	0.600	8:55 AM	0.450	
10-May-10	9:11 AM	0.050	9:15 AM	0.431	
11-May-10	8:55 AM	0.600	8:56 AM	0.450	
12-May-10	8:59 AM	0.079	8:57 AM	0.470	
13-May-10	7:56 AM	0.090	7:54 AM	0.490	
14-May-10	1:31 PM	0.058	1:35 PM	0.440	
15-May-10	3:08 PM	0.080	3:09 PM	0.470	
16-May-10	3:37 PM	0.080	3:36 PM	0.500	
17-May-10		0.112		0.520	
18-May-10	9:21 AM	0.130	9:20 AM	0.580	
19-May-10	9:05 AM	0.210	9:04 AM	0.700	
20-May-10	9:02 AM	0.310	9:00 AM	0.900	
20-May-10					
21-May-10	8:04 AM	0.260	8:07 AM	0.795	
22-May-10	11:00 AM	0.230	11:10 AM	0.750	
24-May-10	7:48 AM	0.276	7:49 AM	0.810	
25-May-10	9:30 AM	0.250	9:32 AM	0.397	
26-May-10	8:59 AM	0.287	9:00 AM	0.790	
27-May-10	9:41 AM	0.370	9:40 AM	0.798	
28-May-10	10:07 AM	0.255	10:09 AM	0.796	
29-May-10	8:06 AM	0.245	8:08 AM	0.790	
30-May-10	8:10 AM	0.225	8:12 AM	0.750	
31-May-10	9:46 AM	0.220	9:49 AM	0.724	
1-Jun-10	9:34 AM	0.199	9:36 AM	0.684	
2-Jun-10	9:45 AM	0.190	9:46 AM	0.692	
3-Jun-10	9:16 AM	0.180	9:17 AM	0.668	
4-Jun-10	12:35 PM	0.197	12:31 PM	0.694	
5-Jun-10	7:15 AM	0.178	7:17 AM	0.652	
6-Jun-10	7:12 AM	0.147	7:14 AM	0.598	
7-Jun-10	9:29 AM	0.140	9:30 AM	0.588	
8-Jun-10	9:19 AM	0.165	9:18 AM	0.630	
9-Jun-10	9:01 AM	0.210	9:00 AM	0.720	
10-Jun-10	8:53 AM	0.170	8:55 AM	0.652	
11-Jun-10	8:10 AM	0.195	8:10 AM	0.700	
12-Jun-10	8:05 AM	0.155	8:10 AM	0.640	
13-Jun-10	8:35 AM	0.245	8:36 AM	0.600	
14-Jun-10	10:31 AM	0.135	10:32 AM	0.568	
16-Jun-10	9:26 AM	0.130	9:27 AM	0.548	
17-Jun-10	8:49 AM	0.120	8:51 AM	0.555	

Table H-56: North Fork Rock Drain NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
18-Jun-10	8:19 AM	0.122	8:21 AM	0.553	
19-Jun-10	8:26 AM	0.125	8:29 AM	0.575	
20-Jun-10	8:09 AM	0.133	8:10 AM	0.564	
21-Jun-10	8:28 AM	0.098	8:29 AM	0.545	
22-Jun-10	10:50 AM	0.170	10:52 AM	0.622	
23-Jun-10	9:45 AM	0.140	9:47 AM	0.587	
24-Jun-10	9:29 AM	0.150	9:30 AM	0.598	
25-Jun-10	8:43 AM	0.139	8:44 AM	0.575	
26-Jun-10	9:50 AM	0.115	9:52 AM	0.560	
27-Jun-10	8:50 AM	0.102	8:52 AM	0.533	
28-Jun-10	8:45 AM	0.105	8:52 AM	0.538	
29-Jun-10	10:09 AM	0.101	10:10 AM	0.538	
30-Jun-10	1:42 PM	0.270	1:40 PM	0.665	
1-Jul-10	8:25 AM	0.150	8:26 AM	0.617	
2-Jul-10	8:46 AM	0.145	8:48 AM	0.610	
4-Jul-10	8:49 AM	0.290	8:51 AM	0.875	
5-Jul-10	10:47 AM	0.205	10:48 AM	0.710	
6-Jul-10	10:17 AM	0.172	10:19 AM	0.634	
7-Jul-10	9:40 AM	0.144	9:42 AM	0.609	
8-Jul-10	9:35 AM	0.138	9:36 AM	0.585	
9-Jul-10	8:00 AM	0.128	8:02 AM	0.574	
10-Jul-10	9:22 AM	0.111	9:20 AM	0.526	
11-Jul-10	8:11 AM	0.117	8:13 AM	0.564	
12-Jul-10	10:27 AM	0.102	10:29 AM	0.555	
13-Jul-10	9:10 AM	0.090	9:12 AM	0.530	
14-Jul-10	9:00 AM	0.090	9:01 AM	0.515	
15-Jul-10	8:56 AM	0.188	8:58 AM	0.502	
16-Jul-10	8:00 AM	0.090	8:02 AM	0.510	
17-Jul-10	7:52 AM	0.090	7:53 AM	0.518	
18-Jul-10	7:36 AM	0.085	7:37 AM	0.495	
19-Jul-10	8:54 AM	0.065	8:55 AM	0.487	
20-Jul-10	8:38 AM	0.058	8:37 AM	0.479	
21-Jul-10	8:53 AM	0.085	8:54 AM	0.509	
22-Jul-10	9:24 AM	0.111	9:25 AM	0.525	
23-Jul-10	8:28 AM	0.082	8:26 AM	0.490	X2 Datalogger downloaded 14:45
24-Jul-10	8:38 AM	0.079	8:40 AM	0.474	
25-Jul-10	8:20 AM	0.065	8:18 AM	0.466	
26-Jul-10	9:17 AM	0.062	9:18 AM	0.455	
27-Jul-10	9:32 AM	0.055	9:33 AM	0.448	
28-Jul-10	8:55 AM	0.065	8:56 AM	0.437	
29-Jul-10	8:49 AM	0.048	8:50 AM	0.428	
30-Jul-10	8:33 AM	0.045	8:34 AM	0.423	
31-Jul-10	8:28 AM	0.038	8:29 AM	0.422	
1-Aug-10	8:24 AM	0.035	8:26 AM	0.435	
2-Aug-10	9:07 AM	0.025	9:08 AM	0.416	
3-Aug-10	8:44 AM	0.025	8:45 AM	0.409	
4-Aug-10	8:52 AM	0.025	8:53 AM	0.401	
5-Aug-10	8:48 AM	0.025	8:51 AM	0.398	
6-Aug-10	8:21 AM	0.025	8:22 AM	0.396	

Table H-56: North Fork Rock Drain NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
7-Aug-10	/	/	8:51 AM	0.397	*X2SG below water level
8-Aug-10	8:23 AM	0.039	8:22 AM	0.419	Rained lots yesterday and today
9-Aug-10	8:37 AM	0.094	8:35 AM	0.490	
10-Aug-10	9:31 AM	0.094	9:32 AM	0.410	
11-Aug-10	8:49 AM	0.046	8:48 AM	0.426	
12-Aug-10	8:41 AM	0.040	8:40 AM	0.428	
13-Aug-10	10:07 AM	0.045	10:09 AM	0.408	
14-Aug-10	7:22 AM	0.025	7:24 AM	0.400	
15-Aug-10	9:16 AM	0.025	9:20 AM	0.397	
16-Aug-10	8:55 AM	0.025	8:57 AM	0.389	
17-Aug-10	9:31 AM	0.001	9:30 AM	0.381	
18-Aug-10	9:12 AM	0.250	9:10 AM	0.410	
19-Aug-10	10:21 AM	0.045	10:20 AM	0.428	
20-Aug-10	8:23 AM	0.090	8:25 AM	0.549	
21-Aug-10	12:58 PM	0.065	12:56 PM	0.465	
22-Aug-10	7:53 AM	0.055	7:55 AM	0.445	
23-Aug-10	8:55 AM	0.065	9:00 AM	0.458	
24-Aug-10	10:50 AM	0.062	10:51 AM	0.472	
25-Aug-10	8:36 AM	0.600	8:38 AM	0.459	
26-Aug-10	8:44 AM	0.049	8:45 AM	0.451	
27-Aug-10	8:21 AM	0.048	8:22 AM	0.448	
28-Aug-10	8:40 AM	0.050	8:41 AM	0.450	
29-Aug-10	8:20 AM	0.050	8:21 AM	0.440	
30-Aug-10	9:07 AM	0.030	9:08 AM	0.435	
31-Aug-10	10:56 AM	0.035	10:57 AM	0.428	
1-Sep-10	8:29 AM	0.024	8:31 AM	0.430	X2 Datalogger downloaded 11:16
2-Sep-10	10:04 AM	0.050	10:05 AM	0.440	
3-Sep-10	7:16 AM	0.080	7:15 AM	0.485	
4-Sep-10	7:40 AM	0.085	7:40 AM	0.498	
5-Sep-10	9:00 AM	0.070	9:00 AM	0.470	
6-Sep-10	9:09 AM	0.065	9:09 AM	0.450	
7-Sep-10	8:52 AM	0.060	8:53 AM	0.445	
8-Sep-10	8:38 AM	0.043	8:43 AM	0.489	
9-Sep-10	8:35 AM	0.050	8:36 AM	0.440	
13-Sep-10	8:46 AM	0.048	8:47 AM	0.440	
14-Sep-10	8:32 AM	0.048	8:33 AM	0.438	
15-Sep-10	9:56 AM	0.046	9:58 AM	0.443	
16-Sep-10	9:05 AM	0.045	9:06 AM	0.429	
20-Sep-10	9:36 AM	0.022	9:37 AM	0.360	
21-Sep-10	9:38 AM	0.022	9:40 AM	0.380	
22-Sep-10	9:10 AM	0.021	9:15 AM	0.419	
23-Sep-10	11:33 AM	0.035	11:35 AM	0.413	
27-Sep-10	10:21 AM	0.390	10:19 AM	0.429	
28-Sep-10	9:28 AM	0.042	9:26 AM	0.429	
29-Sep-10	9:43 AM	0.042	9:41 AM	0.420	
30-Sep-10	9:52 AM	0.041	9:53 AM	0.431	
4-Oct-10	10:30 AM	0.038	10:32 AM	0.428	
5-Oct-10	1:49 PM	0.025	1:50 PM	0.392	
6-Oct-10	2:29 PM	0.035	2:30 PM	0.409	

Table H-56: North Fork Rock Drain NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
7-Oct-10	1:25 PM	below gauge	1:28 PM	0.330	
12-Oct-10	1:11 PM	0.110	1:14 PM	0.488	
13-Oct-10	4:53 PM	0.038	4:55 PM	0.440	
14-Oct-10	4:11 PM	0.018	4:12 PM	0.395	
18-Oct-10	1:10 PM	Frozen	1:11 PM	0.390	
19-Oct-10	3:57 PM	0.012	3:59 PM	0.379	
20-Oct-10	10:17 AM	0.049	10:18 AM	0.396	
21-Oct-10	1:20 PM	0.099	1:22 PM	0.510	
25-Oct-10	10:56 AM	Frozen	10:55 AM	Frozen	
26-Oct-10	3:30 PM	Frozen	3:32 PM	Frozen	
27-Oct-10	1:39 PM	Frozen	10:38 AM	Frozen	
28-Oct-10	12:20 PM	Frozen	12:22 PM	Frozen	

Table H-57: North Fork Rock Drain Staff Gauge NF-1 Readings 2010



Date	Elevation (masl)	Freeboard* (masl)	Comments
11-Apr-10	1091.853	2.917	Elevation shot over 200m
3-May-10	1091.871	2.899	
10-May-10	1089.898	4.872	
17-May-10	1089.811	4.959	
24-May-10	1091.192	3.578	
31-May-10	1090.511	4.259	
7-Jun-10	1090.086	4.684	
14-Jun-10	1089.886	4.884	
21-Jun-10	1089.746	5.024	
28-Jun-10	1089.781	4.989	
5-Jul-10	1090.222	4.548	
12-Jul-10	1089.771	4.999	
19-Jul-10	1089.368	5.402	
26-Jul-10	1089.326	5.444	
2-Aug-10	1089.103	5.667	
16-Aug-10	1088.968	5.802	
6-Sep-10	1089.295	5.475	
20-Sep-10	1089.107	5.663	

*Freeboard calculated based on maximum elevation of 1094.77 m
 asl

Table H-58: North Fork Rock Drain Staff Gauge NF-2 Readings 2010



Date	Elevation (masl)	Freeboard* (masl)	Comments
10-May-10	1086.294	0.250	Avg Elevation: 1086.20 m asl
10-May-10	1086.265	0.279	
10-May-10	1086.434	0.110	
10-May-10	1085.792	0.752	
17-May-10	1086.207	0.337	Avg Elevation: 1086.08
17-May-10	1086.215	0.329	
17-May-10	1086.145	0.399	
17-May-10	1086.164	0.380	
17-May-10	1085.651	0.893	
24-May-10	1085.857	0.687	Avg Elevation: 1086.41
24-May-10	1086.659	-0.115	
24-May-10	1086.561	-0.017	
24-May-10	1086.570	-0.026	
31-May-10	1086.430	0.114	Avg Elevation: 1086.40
31-May-10	1086.444	0.100	
31-May-10	1086.384	0.160	
31-May-10	1086.340	0.204	
7-Jun-10	1086.602	-0.058	Avg Elevation: 1086.34
7-Jun-10	1086.270	0.274	
7-Jun-10	1086.280	0.264	
7-Jun-10	1086.282	0.262	
7-Jun-10	1086.279	0.265	
14-Jun-10	1086.082	0.462	Avg Elevation: 1086.31
14-Jun-10	1086.460	0.084	
14-Jun-10	1086.308	0.236	
14-Jun-10	1086.328	0.216	
14-Jun-10	1086.370	0.174	
21-Jun-10	1086.220	0.324	Avg Elevation: 1086.28
21-Jun-10	1086.451	0.093	
21-Jun-10	1086.297	0.247	
21-Jun-10	1086.335	0.209	
21-Jun-10	1086.098	0.446	
28-Jun-10	1085.154	1.390	Avg Elevation: 1085.55
28-Jun-10	1085.019	1.525	
28-Jun-10	1085.223	1.321	
28-Jun-10	1085.438	1.106	
28-Jun-10	1086.262	0.282	
28-Jun-10	1086.214	0.330	
5-Jul-10	1086.440	0.104	Avg Elevation: 1086.57
5-Jul-10	1086.647	-0.103	
5-Jul-10	1086.592	-0.048	
5-Jul-10	1086.598	-0.054	
5-Jul-10	1086.594	-0.050	
12-Jul-10	1085.048	1.496	Avg Elevation: 1085.52
12-Jul-10	1085.167	1.377	
12-Jul-10	1085.656	0.888	

Table H-58: North Fork Rock Drain Staff Gauge NF-2 Readings 2010

Date	Elevation (masl)	Freeboard* (masl)	Comments
12-Jul-10	1085.450	1.094	
12-Jul-10	1086.277	0.267	
19-Jul-10	1085.919	0.625	Avg Elevation: 1085.73
19-Jul-10	1085.457	1.087	
19-Jul-10	1085.321	1.223	
19-Jul-10	1085.644	0.900	
19-Jul-10	1086.132	0.412	
19-Jul-10	1085.924	0.620	
26-Jul-10	1086.234	0.310	Avg Elevation: 1086.13
26-Jul-10	1086.113	0.431	
26-Jul-10	1086.154	0.390	
26-Jul-10	1085.968	0.576	
26-Jul-10	1086.193	0.351	
2-Aug-10	1085.751	0.793	Avg Elevation: 1086.07
2-Aug-10	1086.143	0.401	
2-Aug-10	1086.192	0.352	
2-Aug-10	1085.989	0.555	
2-Aug-10	1086.264	0.280	
16-Aug-10	1085.593	0.951	Avg Elevation: 1086.04
16-Aug-10	1086.202	0.342	
16-Aug-10	1086.098	0.446	
16-Aug-10	1086.166	0.378	
16-Aug-10	1086.125	0.419	
6-Sep-10	1085.972	0.572	Avg Elevation: 1086.18
6-Sep-10	1086.334	0.210	
6-Sep-10	1086.185	0.359	
6-Sep-10	1086.209	0.335	
20-Sep-10	1085.764	0.780	Avg Elevation: 1086.12
20-Sep-10	1086.263	0.281	
20-Sep-10	1086.175	0.369	
20-Sep-10	1086.264	0.280	

* Max elevation measured at several locations across rock drain on date - average used

**Freeboard calculated based on maximum elevation of 1086.544 m asl

Table H-59: Faro Creek Diversion Channel Staff Gauge FCD-1



Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
24-May-07	19:50:00	0.480	1022	newly installed
25-May-07	09:40:00	0.412	984.0	
13-Jun-07	15:20:00	0.300	662	
26-Jun-07	15:10:00	0.215	395	
27-Jun-07	09:30:00	0.218	302.5	tail end of thundershower
11-Jul-07	13:30:00	0.175	179	
18-Jul-07	14:00:00	0.200	236	
18-Jul-07	12:40:00	0.200	249.0	
24-Jul-07		0.153	107.2	
1-Aug-07	11:50:00	0.170	198	
8-Aug-07	15:20:00	0.172	151.9	LES survey, conclude gauge zero is 97.677 (average of 4 trials)
4-Sep-07	15:40:00		155.0	
6-Sep-07		0.220	277.0	
26-Jun-08	08:00:00	0.240	342	
4-Jul-08	10:40:00	0.220	289	
7-Jul-08	11:40:00	0.250	371	
14-Jul-08	11:00:00	0.265	415	
15-Jul-08	10:40:00	0.630	2213	Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.185	207	
25-Aug-08	12:55:00	0.440	1105	
13-Sep-08	08:15:00	0.250	371	
5-May-09		0.400	919	
14-May-09	8:20 AM	0.195	229	
22-May-09	6:35 AM	0.300	527	
24-May-09	7:00 AM	0.450	1155	
29-May-09	8:40 AM	0.380	833	
31-May-09	7:00 AM	0.350	710	
4-Jun-09	1:45 PM	0.370	791	
5-Jun-09	6:30 AM	0.410	964	
6-Jun-09	7:55 AM	0.390	876	
9-Jun-09	6:48 AM	0.310	562	
10-Jun-09	6:48 AM	0.310	562	
10-Jun-09	2:30 PM	0.250	371	
13-Jun-09	8:55 AM	0.250	371	
17-Jun-09	5:15 PM	0.255	385	
25-Jun-09	3:10 PM	0.200	241	
2-Jul-09	12:53 PM	0.185	207	
7-Jul-09	5:40 PM	0.155	147	
15-Jul-09	10:30 AM	0.145	129	
30-Jul-09	3:05 PM	0.110	76	
2-Aug-09	8:05 AM	0.115	83	
7-Aug-09	9:00 AM	0.110	76	
17-Aug-09	8:20 AM	0.135	113	
21-Aug-09	10:25 AM	0.140	121	

Table H-59: Faro Creek Diversion Channel Staff Gauge FCD-1

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
29-Aug-09	12:32 PM	0.150	138	
4-Sep-09	9:57 AM	0.155	147	
11-Sep-09	8:05 AM	0.150	138	
19-Sep-09	4:24 PM	0.165	166	
20-Sep-09	12:14 PM	0.170	176	
21-Sep-09	4:22 PM	0.190	218	
4-Oct-09	5:35 PM	0.175	186	
30-Apr-10				Frozen
3-May-10	12:08 PM			Frozen
4-May-10	8:17 AM			Frozen
5-May-10	9:37 AM			Frozen
17-May-10	11:52 AM	0.245	356	
2-Jun-10	11:50 AM	0.270	430	
14-Jun-10	12:06 PM	0.199	238	Instream flow Measurement gave 216.39
3-Jul-10	3:10 PM	0.225	302	
12-Jul-10	1:15 PM	0.165	166	Instream flow Measurement gave 62.85
3-Aug-10	3:15 PM	0.113	80	Instream flow Measurement gave 79.848
15-Aug-10	2:24 PM	0.105	69	Instream flow Measurement gave 105.67
2-Sep-10	5:10 PM	0.139	119	Instream flow Measurement gave 164.575
23-Sep-10	5:32 PM	0.110	76	
4-Oct-10	1:19 PM	0.113	80	Instream flow Measurement gave 80.695
18-Oct-10	4:46 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-60: Faro Creek Diversion Channel Staff Gauge FCD-2



Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
24-May-07	18:30:00	0.460	1133	lots of shore ice rapidly melting: gain is invalid
25-May-07	11:40:00	0.475	1069	newly installed gauge. Gain is invalid due to heavy melting on banks
13-Jun-07	16:05:00	0.340	525	Avil Lab checked survey = OK
26-Jun-07	15:30:00	0.255	326	
27-Jun-07	12:30:00	0.247	308.3	tail end of thundershower, invalid
11-Jul-07	14:30:00	0.195	130	
18-Jul-07	14:20:00	0.210	158	
18-Jul-07	11:30:00	0.210	165.0	Good check Anvil Lab vs LES flows
24-Jul-07	17:00:00	0.185	87.9	rainfall affected
1-Aug-07	12:25:00	0.195	133	
8-Aug-07	14:40:00	0.200	106.3	
4-Sep-07	15:10:00	0.202	112.1	
6-Sep-07	PM	0.241	235.0	affected by construction
7-Sep-07				
26-Jun-08	08:00:00	0.325	470	
4-Jul-08	10:40:00	0.280	320	
7-Jul-08	11:40:00	0.355	591	
14-Jul-08	11:00:00	0.390	753	
15-Jul-08	10:40:00	0.880	6178	Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.195	126	
25-Aug-08	12:55:00	0.590	2197	
13-Sep-08	08:15:00	0.395	779	
14-Sep-08				
5-May-09		0.690	3294	
14-May-09	8:20 AM	0.380	705	
22-May-09	6:35 AM	0.570	2010	
24-May-09	7:00 AM	0.730	3811	
29-May-09	8:40 AM	0.590	2197	
31-May-09	7:00 AM	0.650	2823	
4-Jun-09	1:45 PM	0.650	2823	
5-Jun-09	6:30 AM	0.625	2550	
6-Jun-09	7:55 AM	0.570	2010	
9-Jun-09	6:48 AM	0.470	1221	
10-Jun-09	6:48 AM	0.470	1221	
10-Jun-09	2:30 PM	0.390	753	
13-Jun-09	8:55 AM	0.378	695	
17-Jun-09	5:15 PM	0.400	804	
25-Jun-09	3:10 PM	0.280	320	
2-Jul-09	12:53 PM	0.220	171	
7-Jul-09	5:40 PM	0.115	32	
15-Jul-09	10:30 AM	0.110	29	
30-Jul-09	3:05 PM	0.092	18	
2-Aug-09	8:05 AM	0.085	15	

Table H-60: Faro Creek Diversion Channel Staff Gauge FCD-2

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
7-Aug-09	9:00 AM	0.090	17	
17-Aug-09	8:20 AM	0.100	22	
21-Aug-09	10:25 AM	0.110	29	
29-Aug-09	12:32 PM	0.115	32	
4-Sep-09	9:57 AM	0.120	36	
11-Sep-09	8:05 AM	0.110	29	
19-Sep-09	4:24 PM	0.120	36	
20-Sep-09	12:14 PM	0.125	40	
21-Sep-09	4:22 PM	0.140	53	
4-Oct-09	5:35 PM	0.125	40	
30-Apr-10				Frozen
3-May-10	12:07 PM			Frozen
4-May-10	8:15 AM			Frozen
5-May-10	9:36 AM			Frozen
17-May-10	11:55 AM	0.219	169	
2-Jun-10	11:52 AM	0.260	264	
14-Jun-10	12:04 PM	0.143	56	Instream flow Measurement gave 181.67
3-Jul-10	3:08 PM	0.165	81	
12-Jul-10	1:45 PM	0.100	22	Instream flow Measurement gave 106.33
3-Aug-10	3:25 PM	0.071	9	Instream flow Measurement gave 68.407
15-Aug-10	2:45 PM	0.064	7	Instream flow Measurement gave 70.118
2-Sep-10	5:06 PM	0.088	16	Instream flow Measurement gave 80.135
23-Sep-10	5:28 PM			Iced
4-Oct-10	1:39 PM			Iced
18-Oct-10	4:43 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-61: Faro Creek Diversion Channel Staff Gauge FCD-3

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
26-Jun-08	08:00:00	0.250		Previously called FD-1A
4-Jul-08	10:40:00	0.230		
7-Jul-08	11:40:00	0.270		
14-Jul-08	11:00:00	0.285		
15-Jul-08	10:40:00	0.640		Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.190		
25-Aug-08	12:55:00	0.400		
13-Sep-08	08:15:00	0.290		
5-May-09		0.980		
14-May-09	8:20 AM	0.300		
22-May-09	6:35 AM	0.350		
24-May-09	7:00 AM	0.480		
29-May-09	8:40 AM	0.400		
31-May-09	7:00 AM	0.390		
4-Jun-09	1:45 PM	0.390		
5-Jun-09	6:30 AM	0.400		
6-Jun-09	7:55 AM	0.390		
9-Jun-09	6:48 AM	0.300		
10-Jun-09	6:48 AM	0.300		
10-Jun-09	2:30 PM	0.270		
13-Jun-09	8:55 AM	0.265		
17-Jun-09	5:15 PM	0.275		
25-Jun-09	3:10 PM	0.210		
2-Jul-09	12:53 PM	0.185		
7-Jul-09	5:40 PM	0.150		
15-Jul-09	10:30 AM	0.141		
30-Jul-09	3:05 PM	0.105		
2-Aug-09	8:05 AM	-		
7-Aug-09	9:00 AM	0.100		
17-Aug-09	8:20 AM	0.125		
21-Aug-09	10:25 AM	0.135		
29-Aug-09	12:32 PM	0.160		
4-Sep-09	9:57 AM	0.160		
11-Sep-09	8:05 AM	0.155		
19-Sep-09	4:24 PM	0.150		
20-Sep-09	12:14 PM	0.170		
21-Sep-09	4:22 PM	0.190		
4-Oct-09	5:35 PM	0.175		
9-Oct-09	11:03 AM			Frozen
30-Apr-10	10:00 AM	0.370		
3-May-10	12:06 PM			Frozen
4-May-10	8:14 AM	0.197		
5-May-10	9:35 AM			Frozen
17-May-10	11:57 AM			Frozen

Table H-61: Faro Creek Diversion Channel Staff Gauge FCD-3



Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
2-Jun-10	11:54 AM	0.210		
14-Jun-10	12:02 PM	0.196	129.01	
3-Jul-10	3:07 PM	0.220		
12-Jul-10	2:32 PM	0.150	106.97	Discharge method: In stream flow rate
3-Aug-10	3:40 PM	0.106	47.08	
15-Aug-10	2:56 PM	0.100	59.44	Discharge method: In stream flow rate
2-Sep-10	4:48 PM	0.132	76.98	Discharge method: In stream flow rate
23-Sep-10	5:08 PM			Iced
4-Oct-10	1:38 PM			Iced
18-Oct-10	4:40 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-62: Faro Creek Diversion Channel Staff Gauge FCD-4

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
26-Jun-08	08:00:00	0.250		Previously called FD-1B
4-Jul-08	10:40:00	0.270		
7-Jul-08	11:40:00	0.270		
14-Jul-08	11:00:00	0.290		
15-Jul-08	10:40:00	0.540		Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.195		
25-Aug-08	12:55:00	0.405		
13-Sep-08	08:15:00	0.285		
5-May-09		0.820		
14-May-09	8:20 AM			
22-May-09	6:35 AM	0.320		
24-May-09	7:00 AM	0.450		
29-May-09	8:40 AM	0.400		
31-May-09	7:00 AM	0.360		
4-Jun-09	1:45 PM	0.385		
5-Jun-09	6:30 AM	0.420		
6-Jun-09	7:55 AM	0.400		
9-Jun-09	6:48 AM	0.300		
10-Jun-09	6:48 AM	0.300		
10-Jun-09	2:30 PM	0.260		
13-Jun-09	8:55 AM	0.250		
17-Jun-09	5:15 PM	0.270		
25-Jun-09	3:10 PM	0.240		
2-Jul-09	12:53 PM	0.215		
7-Jul-09	5:40 PM	0.190		
15-Jul-09	10:30 AM	<0.15		
30-Jul-09	3:05 PM	>0.15		
2-Aug-09	8:05 AM	-		
7-Aug-09	9:00 AM	-		
17-Aug-09	8:20 AM	0.160		
21-Aug-09	10:25 AM	0.170		
29-Aug-09	12:32 PM	0.195		
4-Sep-09	9:57 AM	0.190		
11-Sep-09	8:05 AM	0.180		
19-Sep-09	4:24 PM	0.199		
20-Sep-09	12:14 PM	0.200		
21-Sep-09	4:22 PM	0.220		
4-Oct-09	5:35 PM	0.205		
9-Oct-09	11:03 AM			Frozen
30-Apr-10	10:05 AM	0.410		
3-May-10	12:05 PM	0.239		
4-May-10	8:12 AM	0.238		
5-May-10	9:33 AM			Frozen
17-May-10	12:00 PM	0.200		

Table H-62: Faro Creek Diversion Channel Staff Gauge FCD-4

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
2-Jun-10	11:56 AM	0.240		
14-Jun-10	12:00 PM	0.245	150.37	
3-Jul-10	3:05 PM	0.250		
12-Jul-10	2:50 PM	0.200	150.61	
3-Aug-10	3:55 PM	0.158	48.94	
15-Aug-10	3:10 PM	0.154	47.06	
2-Sep-10	4:36 PM	0.175	48.20	
23-Sep-10	4:52 PM			Iced
4-Oct-10	1:19 PM			Iced
18-Oct-10	4:37 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-63: Grum Pit - Grum Pins Slope Stability Grum Pins - Set South of Transformer Station 2010



Table H-63a: Distance Between Pins

Date	GP-S1 (m)	GP-S2 (m)	GP-S3 (m)	GP-S4 (m)	Comments
24-Jun-10	4	5.562	7.814		Fourth pin to be installed
29-Jul-10	4	5.562	7.814	15.63	Fourth pin installed
4-Aug-10	4	5.65	7.810	15.619	
12-Aug-10	4	5.565	7.812	15.635	
19-Aug-10	4	5.565	7.810	15.626	
26-Aug-10	4	5.564	7.810	15.631	*1st measurements using steel tape
2-Sep-10	4	5.56	7.812	15.632	
9-Sep-10	4	5.563	7.807	15.623	
16-Sep-10	4	5.564	7.811	15.625	
23-Sep-10	4	5.558	7.808	15.623	
30-Sep-10	4	5.56	7.805	15.622	
7-Oct-10	4	5.562	7.806	15.632	
10-Nov-10	4	5.561	7.809	15.623	Start of monthly monitoring frequency
7-Dec-10	4	5.561	7.811	15.627	

Table H-63b: Velocity of Pins Movement

Date	GP-S1 (m)	GP-S2 (m)	GP-S3 (m)	GP-S4 (m)
24-Jun-10	0	0	0	0
29-Jul-10	0.114	0.273	0.496	0.943
4-Aug-10	0.667	1.608	2.910	5.513
12-Aug-10	0.500	1.196	2.172	4.127
19-Aug-10	0.571	1.366	2.482	4.714
26-Aug-10	0.571	1.366	2.482	4.715
2-Sep-10	0.571	1.366	2.482	4.715
9-Sep-10	0.571	1.366	2.481	4.713
16-Sep-10	0.571	1.366	2.482	4.714
23-Sep-10	0.571	1.365	2.481	4.713
30-Sep-10	0.571	1.366	2.481	4.712
7-Oct-10	0.571	1.366	2.481	4.714
10-Nov-10	0.118	0.281	0.511	0.970
7-Dec-10	0.148	0.354	0.643	1.222

Table H-64: Grum Pit Slope Stability Grum Pins-Set North of Transformer Station - 2010


Table H-64a: Distance Between Pins

Date	GP-N1 (m)	GP-N2 (m)	GP-N3 (m)	GP-N4 (m)	GP-N5 (m)	GP-N6 (m)	Comments
24-Jun-10	4	5.382	5.226	6.126	6.264	5.74	
29-Jul-10	4	5.381	5.329	6.124	6.270	5.743	
4-Aug-10	4	5.381	5.228	6.123	6.217	5.74	
12-Aug-10	4	5.385	5.230	6.123	6.271	5.748	
19-Aug-10	4	5.383	5.230	6.126	6.270	5.74	
26-Aug-10	4	5.381	5.230	6.126	6.270	5.742	*1st measurements using steel tape
2-Sep-10	4	5.383	5.230	6.127	6.273	5.734	
9-Sep-10	4	5.380	5.250	6.124	6.265	5.737	
16-Sep-10	4	5.383	5.229	6.127	6.270	5.739	
23-Sep-10	4	5.378	5.231	6.122	6.266	5.735	
30-Sep-10	4	5.379	5.225	6.122	6.265	5.732	
7-Oct-10	4	5.380	5.229	6.125	6.267	5.736	
10-Nov-10	4	5.390	5.230	6.123	6.268	5.738	Start of monthly monitoring frequency
7-Dec-10	4	5.388	5.324	6.12	6.272	5.739	

Table H-64b: Velocity of Pins Movement

Date	GP-N1	GP-N2	GP-N3	GP-N4	GP-N5	GP-N6
24-Jun-10	0	0	0	0	0	0
29-Jul-10	0.114	0.268	0.420	0.595	0.774	0.938
4-Aug-10	0.667	1.564	2.435	3.455	4.492	5.448
12-Aug-10	0.500	1.173	1.827	2.592	3.376	4.095
19-Aug-10	0.571	1.340	2.088	2.963	3.858	4.678
26-Aug-10	0.571	1.340	2.087	2.962	3.858	4.678
2-Sep-10	0.571	1.340	2.088	2.963	3.859	4.678
9-Sep-10	0.571	1.340	2.090	2.965	3.860	4.679
16-Sep-10	0.571	1.340	2.087	2.963	3.858	4.678
23-Sep-10	0.571	1.340	2.087	2.962	3.857	4.676
30-Sep-10	0.571	1.340	2.086	2.961	3.856	4.675
7-Oct-10	0.571	1.340	2.087	2.962	3.857	4.677
10-Nov-10	0.118	0.276	0.430	0.610	0.794	0.963
7-Dec-10	0.148	0.348	0.545	0.772	1.004	1.216

Table H-68: Little Creek Dam Pneumatic Piezometer BH94-LCD1



BH94 LCD1	Date Installed:	June '94	Shallow Tip Elevation:	Deep Tip Elevation:	Little Creek Dam Crest Elev.	
	Surface Protector	yes	1103.6	1097.0	1114.5	
Date	Reading (psi)		Piezometric Elevation (m asl)		Pond Elevation (m asl)	Comment
	Shallow	Deep	Shallow	Deep		
May-94	2.9	12.1	1105.63	1105.47		
Sep-94	2.0	11.6	1105.00	1105.12		
Sep-95	2.5	11.0	1105.35	1104.70		
Sep-96	3.1	12.1	1105.77	1105.47		
May-97	2.3	11.4	1105.21	1104.98		
Oct-97	3.02	12.36	1105.71	1105.65		
May-98	2.79	12.46	1105.55	1105.72		
Sep-98	2.85	11.33	1105.60	1104.93	~1109.5	
May-99	1.85	10.95	1104.90	1104.67		
Sep-99	1.71	9.70	1104.80	1103.79	~1105	
Jun-00	1.30	11.40	1104.51	1104.98		
Aug-00	1.60	10.60	1104.72	1104.42		
Sep-00	1.80	11.00	1104.86	1104.70		
5-Jun-01	2.40	12.60	1105.28	1105.82	1109.33	
30-Aug-01	2.60	11.20	1105.42	1104.84	1108.55	
9-May-02	2.20	11.40	1105.14	1104.98	1109.78	
10-May-03	2.00	11.40	1105.00	1104.98	1110.54	
9-Sep-03	2.10	10.30	1105.07	1104.21	1108.13	
8-May-04	1.40	10.60	1104.58	1104.42	1110.01	
19-May-05	2.30	11.30	1105.21	1104.91	1110.27	
9-Sep-05	1.90	10.70	1104.93	1104.49	1108.57	
16-May-06	1.50	10.90	1104.65	1104.63	1109.99	
11-Sep-06	1.80	10.60	1104.86	1104.42	1108.40	
10-May-07	1.50	10.50	1104.65	1104.35	1110.18	
27-Aug-07	1.60	10.70	1104.72	1104.49	1108.69	
27-Mar-08	1.7	10.3	1104.79	1104.21	1108.91	
4-Apr-08	1.70	10.30	1104.79	1104.21	1108.90	
10-Apr-08	1.80	10.30	1104.86	1104.21	1108.90	
21-Apr-08	1.50	10.20	1104.65	1104.14	1108.94	
28-Apr-08	1.70	10.30	1104.79	1104.21	1109.225	
5-May-08	1.60	10.70	1104.72	1104.49	1110.191	
12-May-08	1.80	11.30	1104.86	1104.91	1111.696	
15-May-08	1.70	11.30	1104.79	1104.91	1110.697	
20-May-08	1.60	11.30	1104.72	1104.91	1110.311	
26-May-08	1.60	11.30	1104.72	1104.91	1109.919	
2-Jun-08	1.80	11.20	1104.86	1104.84	1109.116	
11-Jun-08	1.60	11.30	1104.72	1104.91	1109.176	
18-Jun-08	1.60	11.40	1104.72	1104.98	1109.213	
24-Jun-08	1.70	11.50	1104.79	1105.05	1109.272	
2-Jul-08	1.60	11.50	1104.72	1105.05	1109.295	
7-Jul-08	1.60	11.60	1104.72	1105.12	1109.323	
15-Jul-08	1.60	11.80	1104.72	1105.26	1109.732	
22-Jul-08	1.70	12.20	1104.79	1105.54	1109.903	
29-Jul-08	1.80	12.30	1104.86	1105.61	1109.948	
4-Aug-08	1.60	12.20	1104.72	1105.54	1109.968	
11-Aug-08	1.70	11.90	1104.79	1105.33	1109.181	
21-Aug-08	1.90	11.20	1104.93	1104.84	1108.010	
18-Sep-08	1.90	11.80	1104.93	1105.26	1108.909	
26-Jun-09	1.90	12.00	1104.93	1105.40	1110.237	
9-Sep-09	2.20	11.00	1105.14	1104.70	1108.731	
15-May-10	1.50	10.60	1104.65	1104.42	1107.545	
10-Sep-10	1.20	09.80	1104.44	1103.86	1107.715	

Note: Data to the end of 2009 as reported by SRK Consulting Engineers and Geoscientists; 2010 data reported Denison Environmental Services

Table H-69: Little Creek Dam Pneumatic Piezometer BH94 LCD-2



BH94 LCD2	Date Installed:	June '94	Shallow Tip Elevation:	Deep Tip Elevation:	Little Creek Dam Crest Elev.	
	Surface Protector	yes	1100.5	1094.9	1114.5	
	Reading (psi)		Piezometric Elevation (m asl)		Pond Elevation (m asl)	Comment
Date	Shallow	Deep	Shallow	Deep		
May-94	0.4	6.4	1100.78	1099.38		
Sep-94	0.2	6.3	1100.64	1099.31		
Sep-95	0.0	06.0	1100.50	1099.10		
Sep-96	1.0	7.0	1101.17	1099.80		
May-97	0.8	7.2	1101.06	1099.94		
Oct-97	1.00	7.34	1101.20	1100.04		
May-98	1.25	7.78	1101.38	1100.35		
Sep-98	0.98	7.00	1101.19	1099.80	~1109.5	
May-99	1.10	7.05	1101.27	1099.84		
Sep-99	0.91	6.00	1101.14	1099.10	~1105	
Jun-00	0.90	07.00	1101.13	1099.80		
Aug-00	0.90	06.40	1101.13	1099.38		
Sep-00	0.90	06.70	1101.13	1099.59		
5-Jun-01	1.00	07.60	1101.20	1100.22	1109.33	
30-Aug-01	1.20	06.90	1101.34	1099.73	1108.55	
9-May-02	1.10	05.20	1101.27	1098.54	1109.78	
10-May-03	1.00	07.30	1101.20	1100.01	1110.54	
9-Sep-03	1.00	06.40	1101.20	1099.38	1108.13	
8-May-04	0.90	06.80	1101.13	1099.66	1109.32	
8-Sep-04	0.80	06.90	1101.06	1099.73		
19-May-05	1.30	06.80	1101.41	1099.66		
9-Sep-05	0.90	06.40	1101.13	1099.38		
16-May-06	1.00	06.90	1101.20	1099.73	1110.29	
11-Sep-06	1.80	10.60	1101.76	1102.32	1108.40	
10-May-07	1.50	10.50	1101.55	1102.25		
27-Aug-07	1.6	10.7	1101.62	1102.39		
27-Mar-08	1.00	06.30	1101.20	1099.31	1108.91	
4-Apr-08	1.10	06.40	1101.27	1099.38	1108.90	
10-Apr-08	1.20	06.50	1101.34	1099.45	1108.90	
21-Apr-08	0.90	06.40	1101.13	1099.38	1108.943	
28-Apr-08	1.10	06.50	1101.27	1099.45	1109.225	
5-May-08	1.10	06.70	1101.27	1099.59	1110.191	
12-May-08	1.20	07.00	1101.34	1099.80	1111.696	
15-May-08	1.10	06.90	1101.27	1099.73	1110.697	
20-May-08	1.00	06.90	1101.20	1099.73	1110.311	
26-May-08	1.00	06.80	1101.20	1099.66	1109.919	
2-Jun-08	1.20	06.80	1101.34	1099.66	1109.116	
11-Jun-08	1.00	06.70	1101.20	1099.59	1109.176	
18-Jun-08	1.00	06.70	1101.20	1099.59	1109.213	
24-Jun-08	1.10	06.70	1101.27	1099.59	1109.272	
2-Jul-08	1.00	06.70	1101.20	1099.59	1109.295	
7-Jul-08	1.10	06.70	1101.27	1099.59	1109.323	
15-Jul-08	1.00	06.80	1101.20	1099.66	1109.732	
22-Jul-08	1.10	07.00	1101.27	1099.80	1109.903	
29-Jul-08	1.20	07.10	1101.34	1099.87	1109.948	
4-Aug-08	1.00	07.00	1101.20	1099.80	1109.968	
11-Aug-08	1.00	06.80	1101.20	1099.66	1109.181	
21-Aug-08	1.20	06.60	1101.34	1099.52	1108.010	
18-Sep-08	1.20	06.80	1101.34	1099.66	1108.909	
26-Jun-09	1.20	06.90	1101.34	1099.73	1110.237	
9-Sep-09	1.30	06.40	1101.41	1099.38	1108.731	
15-May-10	1.00	06.30	1101.20	1099.31	1107.545	
40431	0.9	5.7	1101.13	1098.89	1107.715	

Note: Data to the end of 2009 as reported by SRK Consulting Engineers and Geoscientists; 2010 data reported Denison Environmental Services

Table H-70: Little Creek Dam Pneumatic Piezometer BH94 LCD-3



BH94 LCD3	Date Installed:		Shallow Tip Elevation:	Deep Tip Elevation:	Little Creek Dam Crest Elev.	
		June '94				
	Surface Protector	yes	1105.5	1101.2	1114.5	
Reading (psi)		Piezometric Elevation (m asl)		Pond Elevation (m asl)	Comment	
Date	Shallow	Deep	Shallow	Deep		
May-94	0.8	4.3	1106.06	1104.21		
Sep-94	0.2	3.7	1105.64	1103.79		
Sep-95	0.0	03.5	1105.50	1103.65		
Sep-96	0.2	4.0	1105.61	1104.00		
May-97	0.2	3.8	1105.64	1103.86		
Oct-97	0.14	4.54	1105.60	1104.38		
May-98	0.54	4.58	1105.88	1104.41		
Sep-98	0.17	3.62	1105.62	1103.73	~1109.5	
May-99	0.40	3.50	1105.78	1103.65		
Sep-99	0.30	2.42	1105.71	1102.89	~1105	
Jun-00	0.10	03.40	1105.57	1103.58		
Aug-00	0.00	03.10	1105.50	1103.37		
Sep-00	0.01	03.40	1105.51	1103.58		
5-Jun-01	0.00	04.80	1105.50	1104.56	1109.33	
30-Aug-01	0.01	03.49	1105.51	1103.64	1108.55	
9-May-02	0.01	03.50	1105.51	1103.65	1109.78	
10-May-03	0.00	03.60	1105.50	1103.72	1110.54	
9-Sep-03	0.00	02.70	1105.50	1103.09	1108.13	
8-May-04	0.00	02.80	1105.50	1103.16	1109.32	
8-Sep-04	0.10	03.30	1105.57	1103.51		
19-May-05	0.01	04.00	1105.51	1104.00		
9-Sep-05	0.00	02.80	1105.50	1103.16		
16-May-06	0.00	03.30	1105.50	1103.51	1110.29	
11-Sep-06	1.80	10.60	1106.76	1108.62	1108.40	
10-May-07	1.50	10.50	1106.55	1108.55		
27-Aug-07	1.6	10.7	1106.62	1108.69		
27-Mar-08	0.80	02.80	1106.06	1103.16	1108.91	
4-Apr-08	0.90	02.90	1106.13	1103.23	1108.90	
10-Apr-08	0.90	02.90	1106.13	1103.23	1108.90	
21-Apr-08	0.70	02.90	1105.99	1103.23	1108.943	
28-Apr-08	1.00	03.00	1106.20	1103.30	1109.225	
5-May-08	0.80	03.20	1106.06	1103.44	1110.191	
12-May-08	0.90	03.60	1106.13	1103.72	1111.696	
15-May-08	1.00	03.70	1106.20	1103.79	1110.697	
20-May-08	0.90	03.80	1106.13	1103.86	1110.311	
26-May-08	0.90	03.80	1106.13	1103.86	1109.919	
2-Jun-08	1.00	03.80	1106.20	1103.86	1109.116	
11-Jun-08	0.90	03.60	1106.13	1103.72	1109.176	
18-Jun-08	0.90	03.50	1106.13	1103.65	1109.213	
25-Jun-08	1.00	03.60	1106.20	1103.72	1109.272	
2-Jul-08	0.80	03.50	1106.06	1103.65	1109.295	
7-Jul-08	0.90	03.60	1106.13	1103.72	1109.323	
15-Jul-08	0.90	03.80	1106.13	1103.86	1109.732	
22-Jul-08	1.20	04.20	1106.34	1104.14	1109.903	
29-Jul-08	1.00	04.20	1106.20	1104.14	1109.948	
4-Aug-08	0.80	04.10	1106.06	1104.07	1109.968	
11-Aug-08	0.90	04.10	1106.13	1104.07	1109.181	
21-Aug-08	1.10	04.30	1106.27	1104.21	1108.010	
18-Sep-08	1.10	04.10	1106.27	1104.07	1108.909	
26-Jun-09	1.20	04.10	1106.34	1104.07	1110.237	
9-Sep-09	1.40	03.30	1106.48	1103.51	1108.731	
15-May-10	0.10	03.30	1105.57	1103.51	1108.731	
10-Sep-10	0	2.5	1105.5	1102.95	1108.731	

Note: Data to the end of 2009 as reported by SRK Consulting Engineers and Geoscientists; 2010 data reported Denison Environmental Services

Figure H-1: Diversion Canal (Canal Dyke) Thermistor CD-15

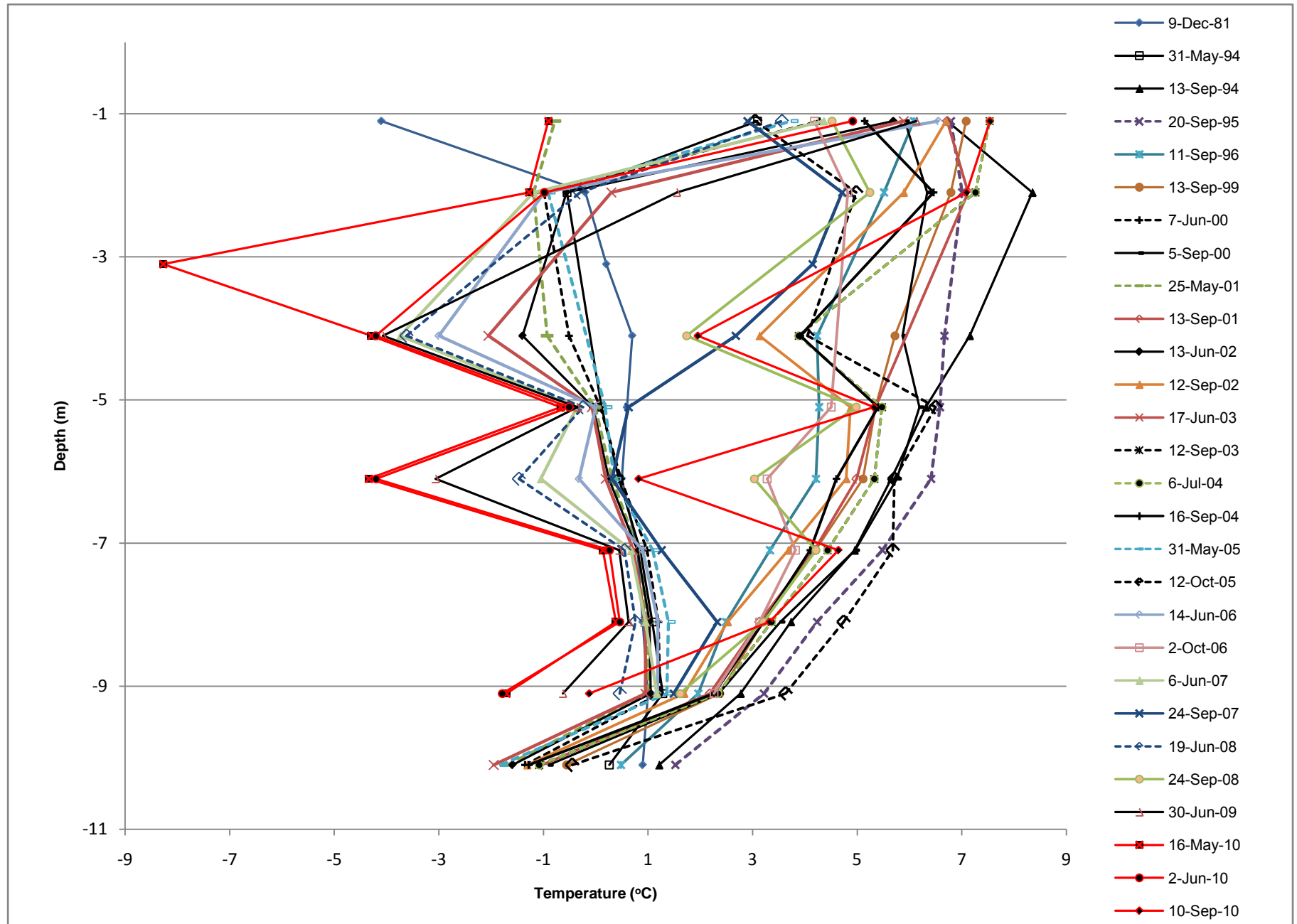


Figure H-2: Diversion Canal (Canal Dyke) Thermistor CD-21

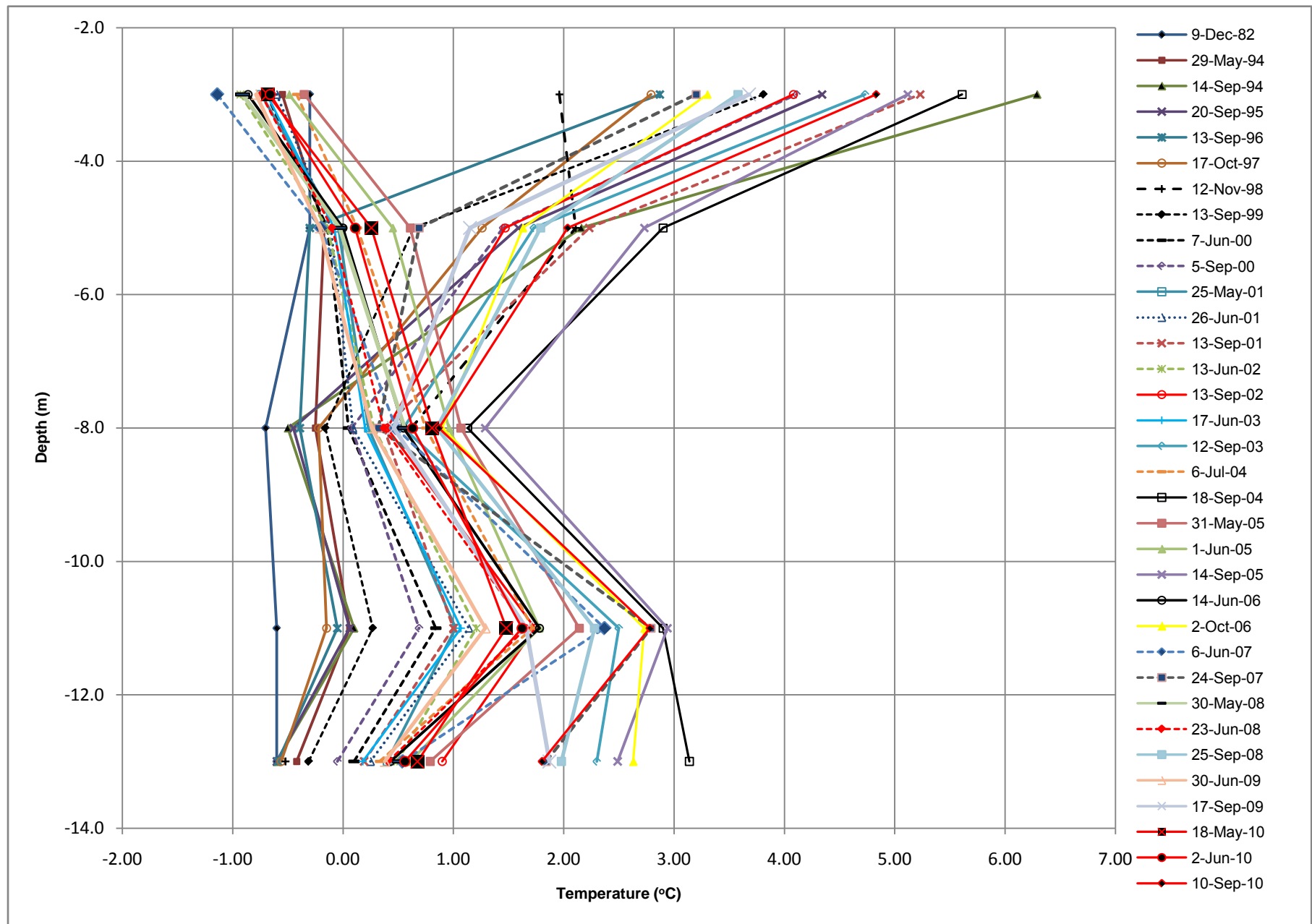


Figure H-3: Diversion Canal (Canal Dyke) Thermistor CD-26

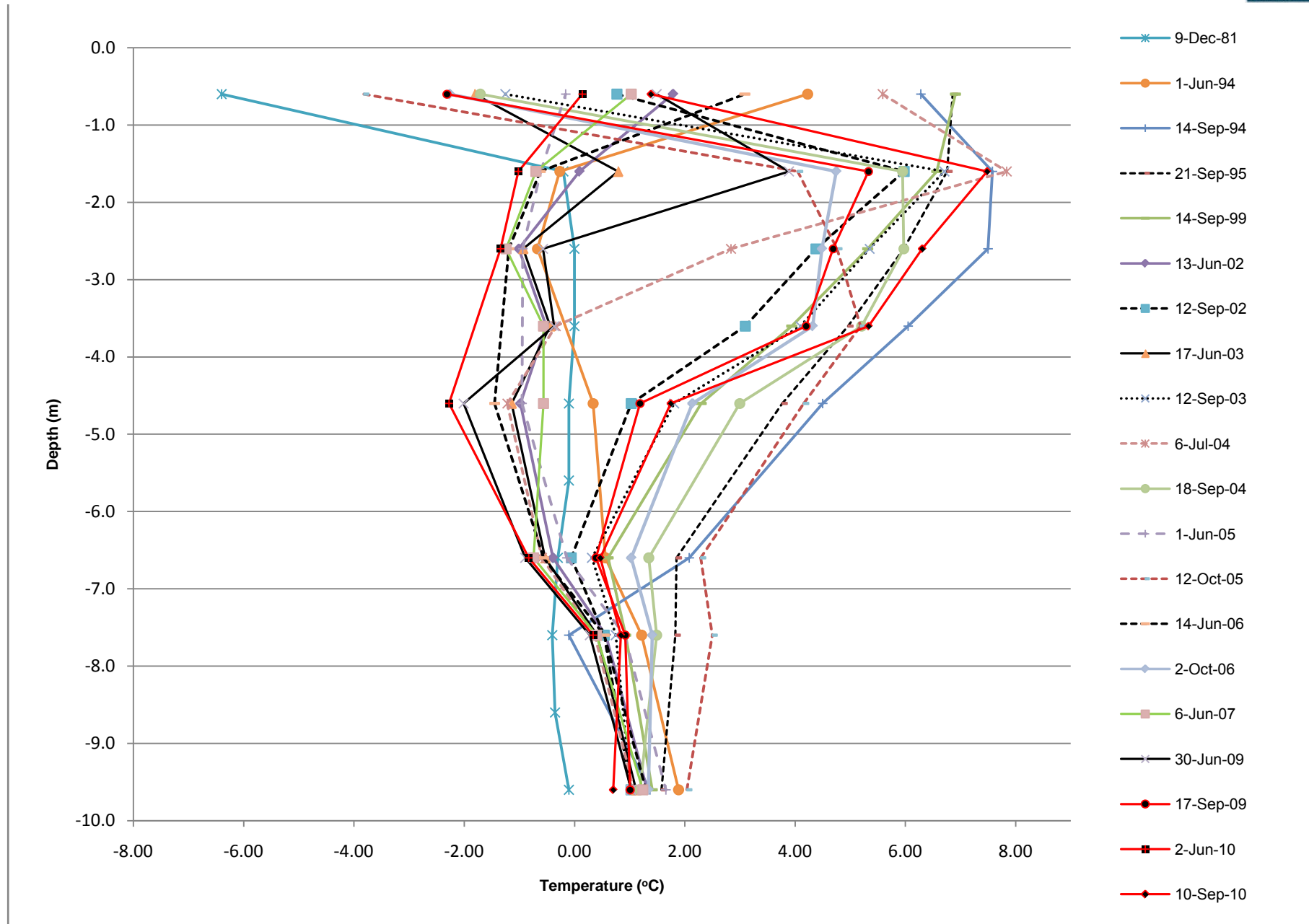


Figure H-4: Diversion Canal (Spoil Pile) Thermistor SP-3

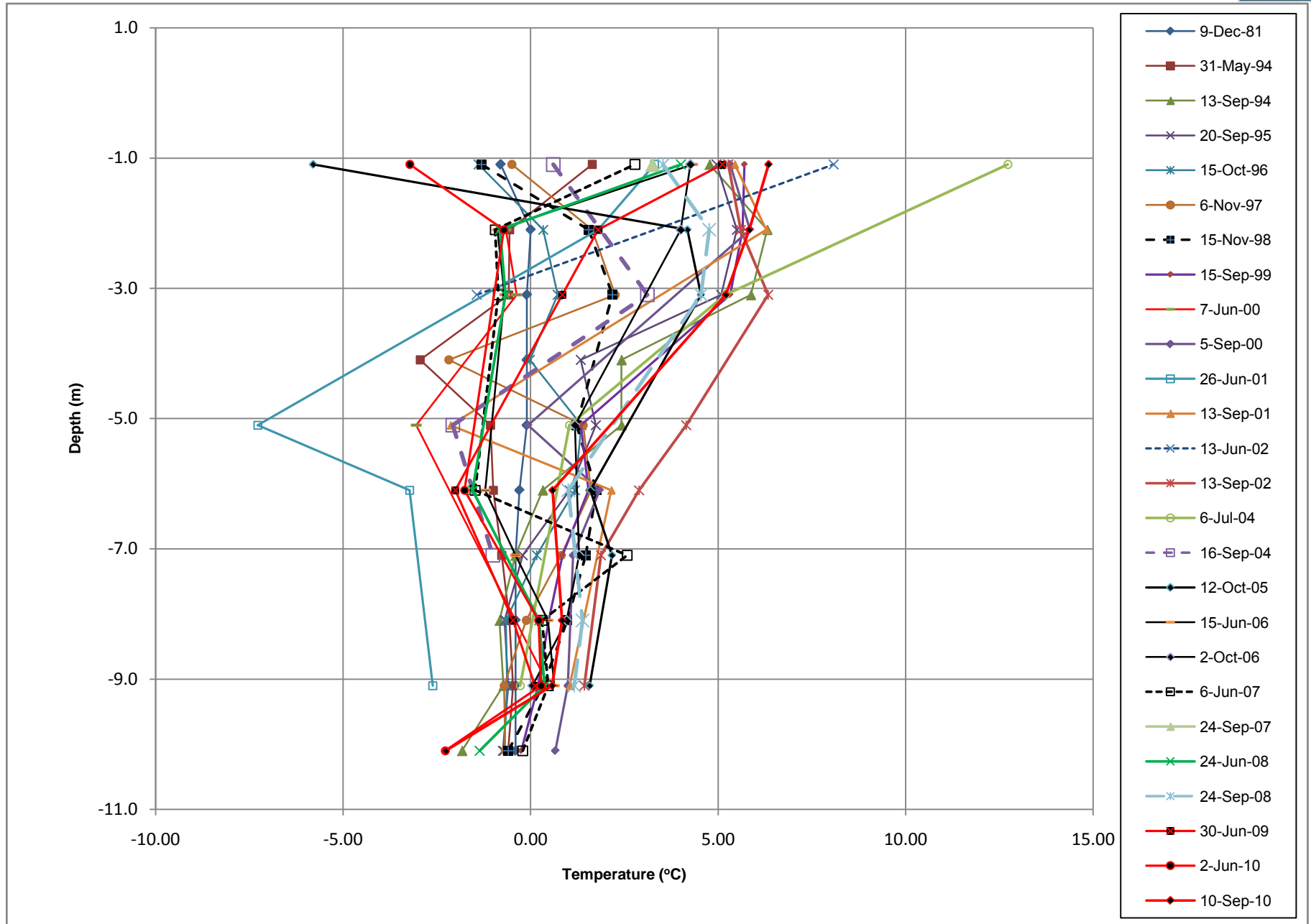


Figure H-5: Diversion Canal Spoil Pile Thermistor SP-5

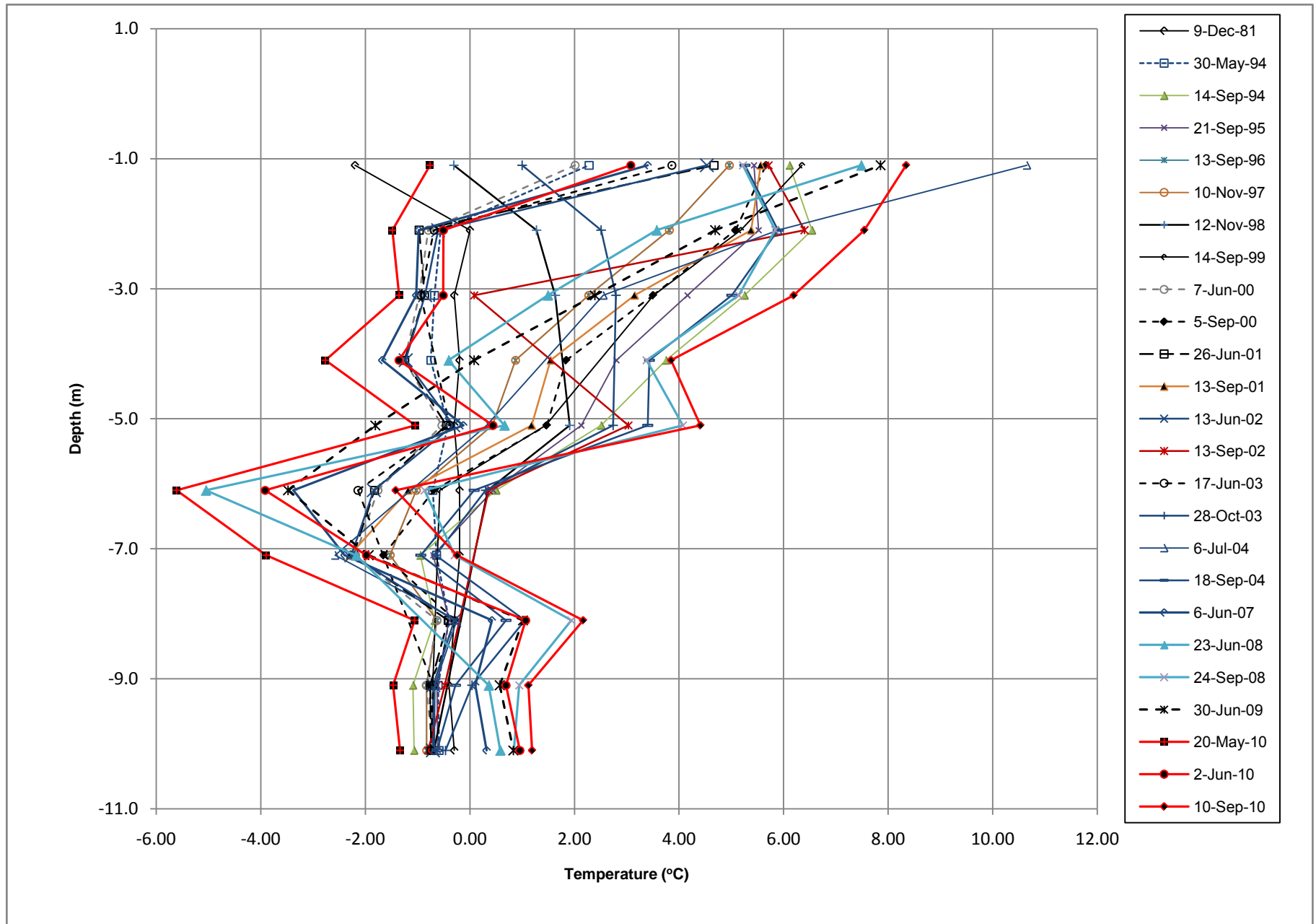


Figure H-6: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-02 03

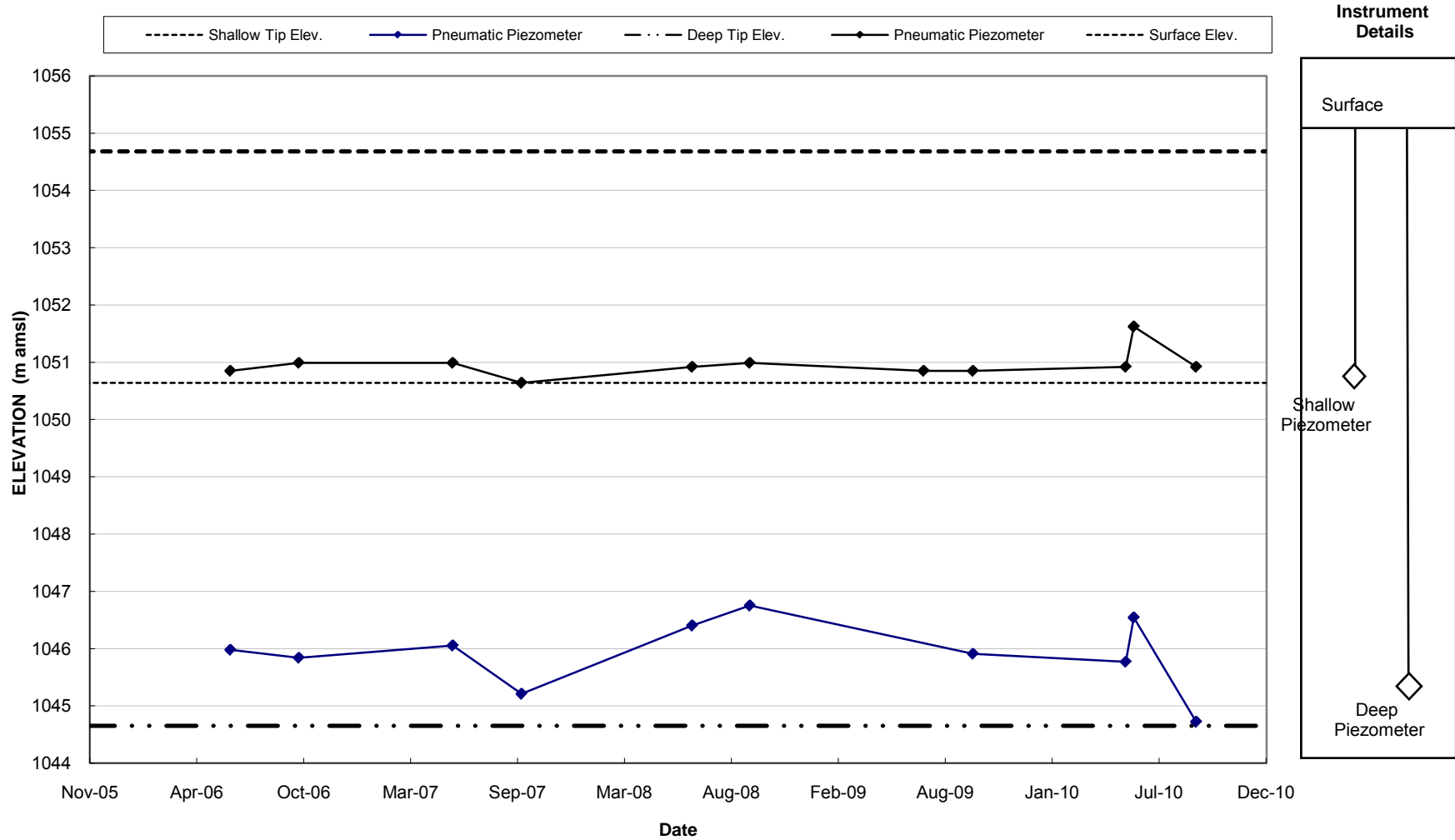


Figure H-7: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-06

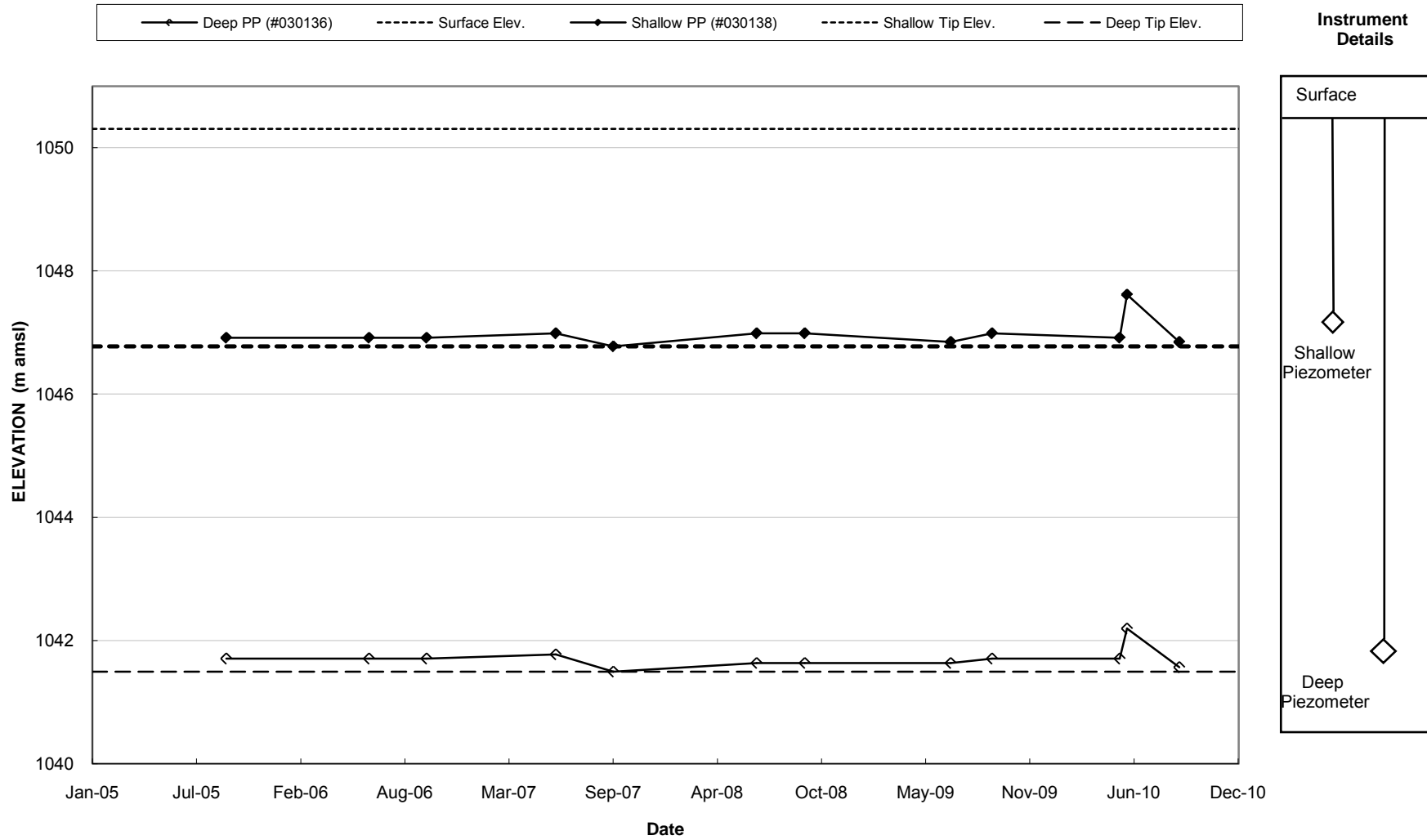


Figure H-8: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-13

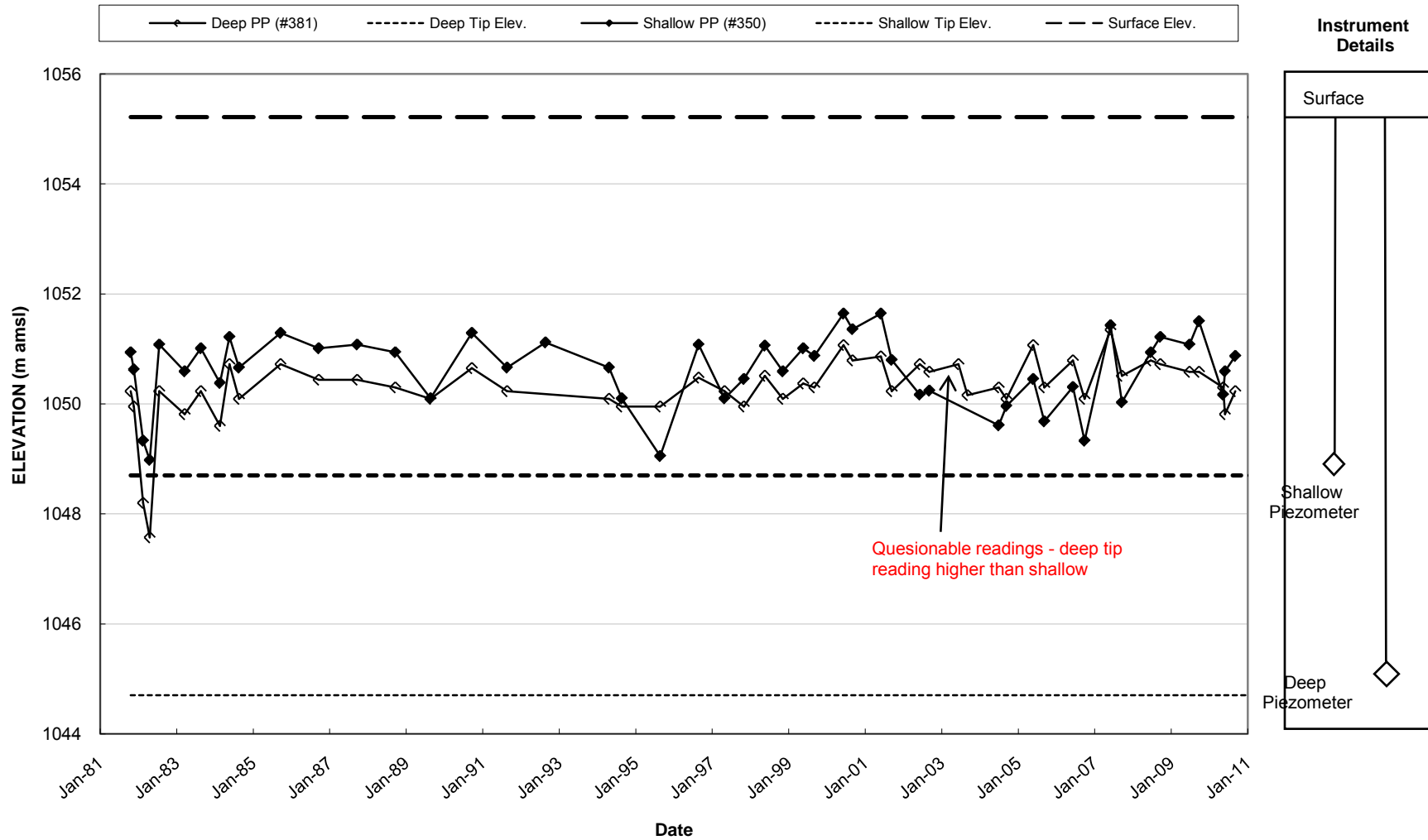


Figure H-9: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-15

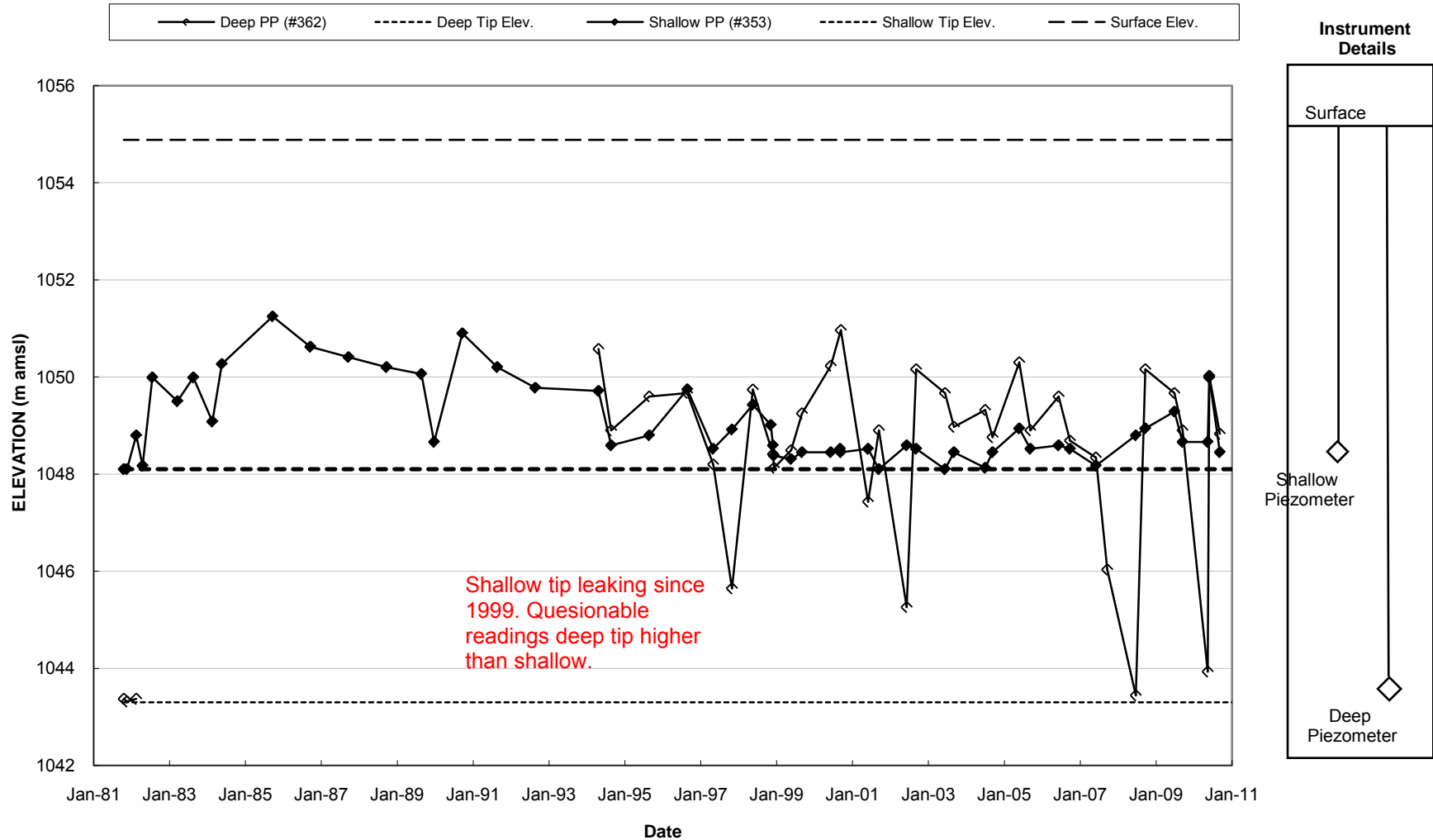
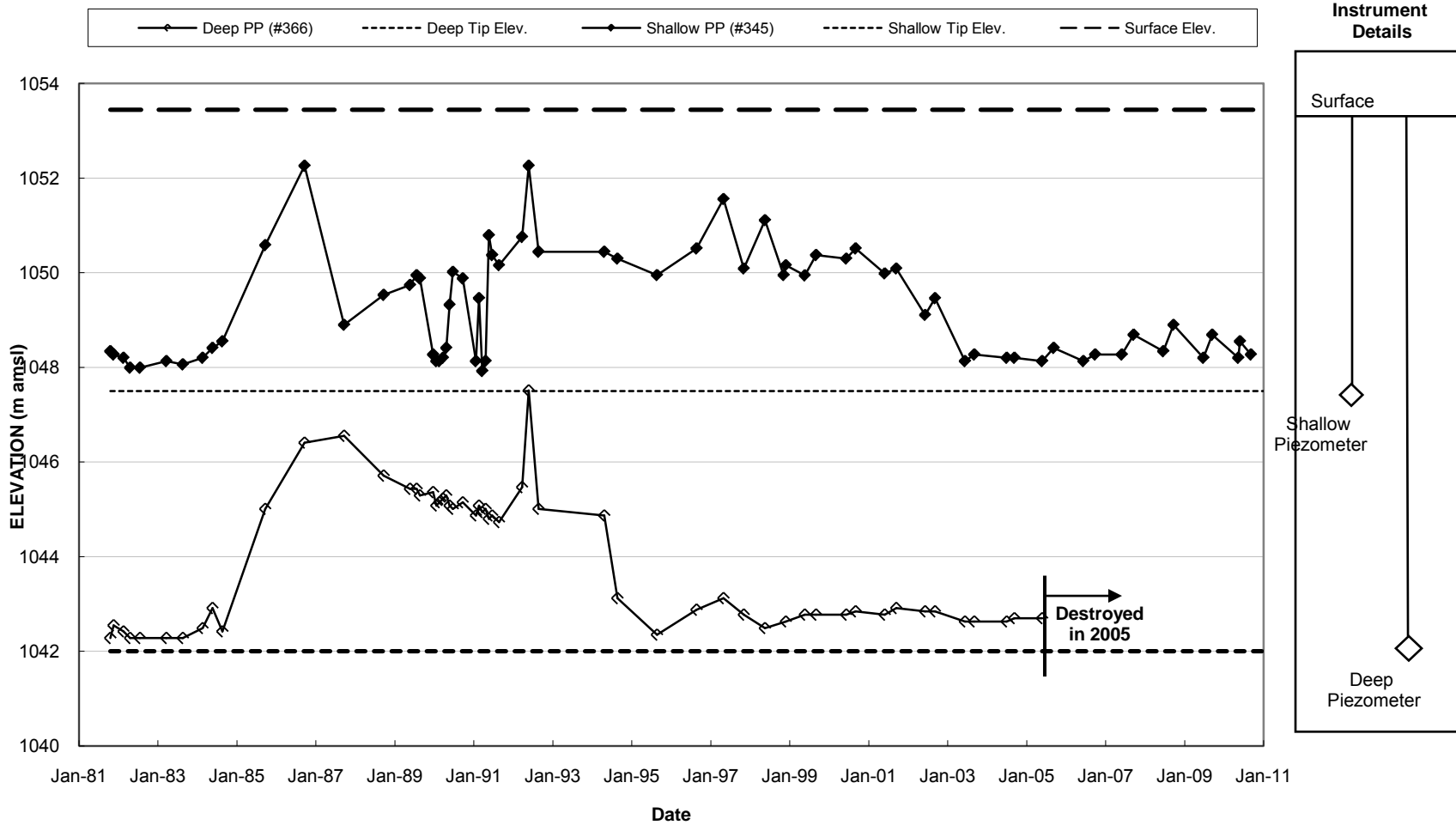


Figure H-10: Diversion Canal (Canal Dyke) Piezometric Monitoring CD-21



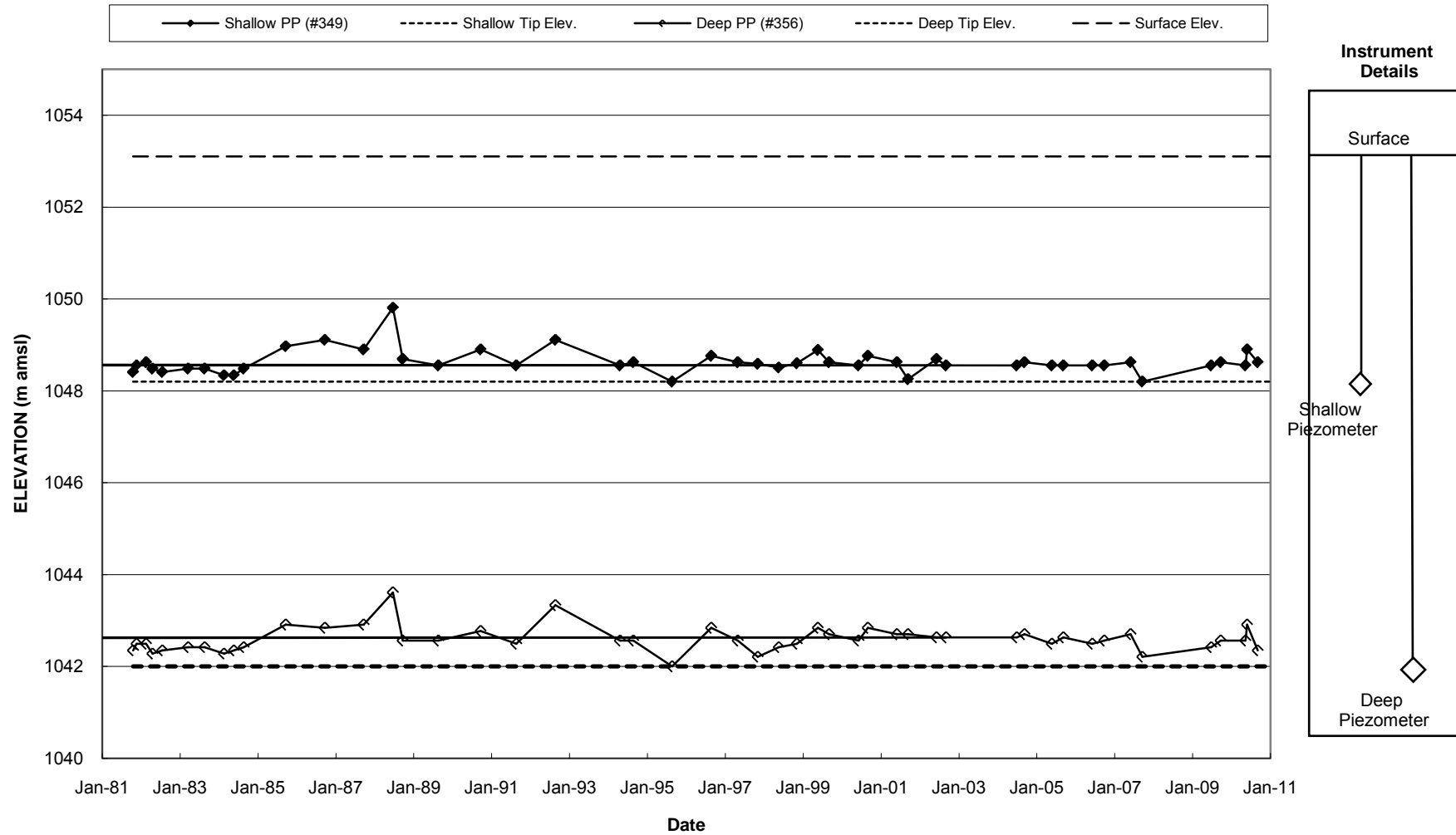


Figure H-12: Cross Valley Dam Thermistor CVDC-6

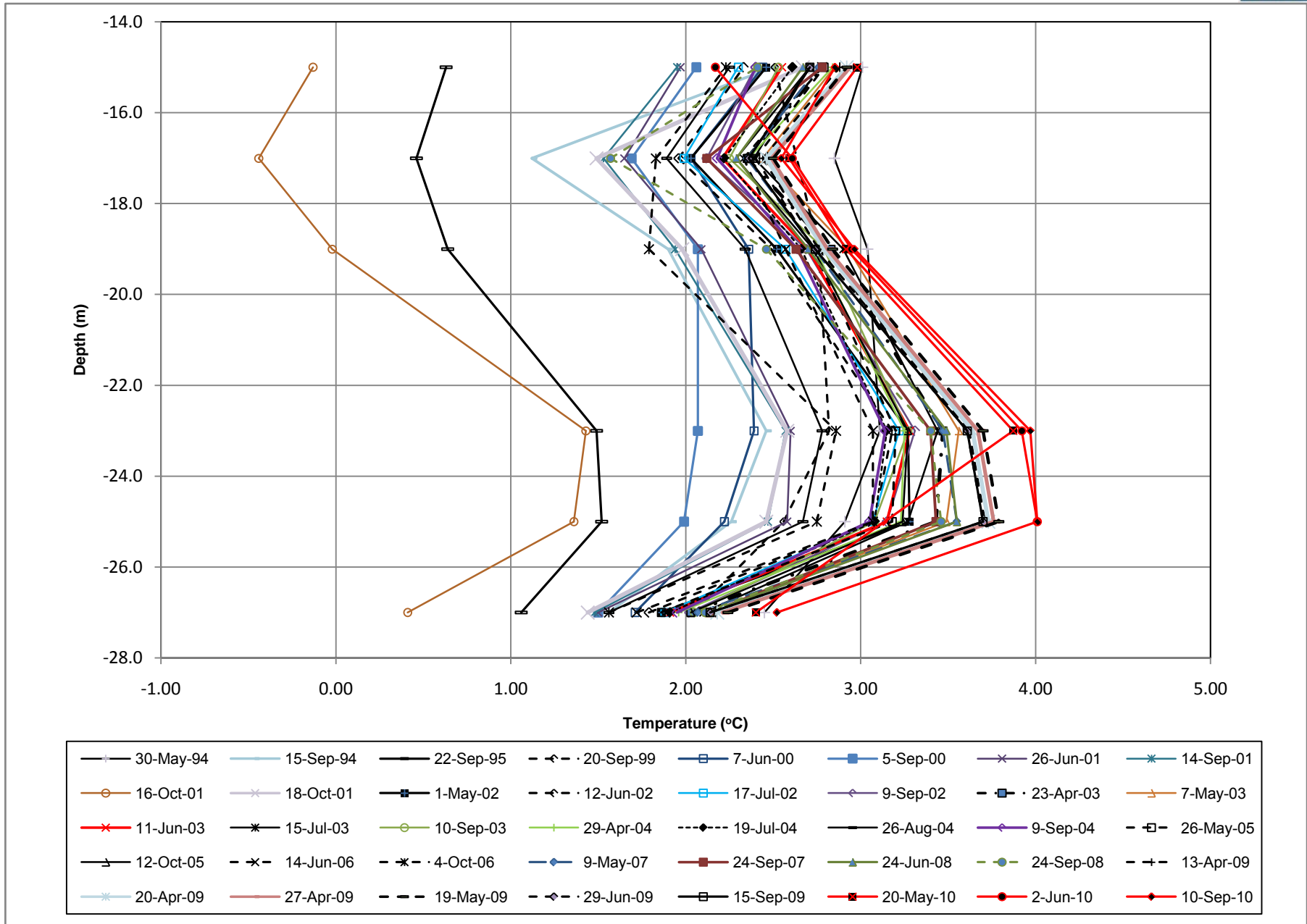


Figure H-13: Cross Valley Dam
Thermistor BH88-4

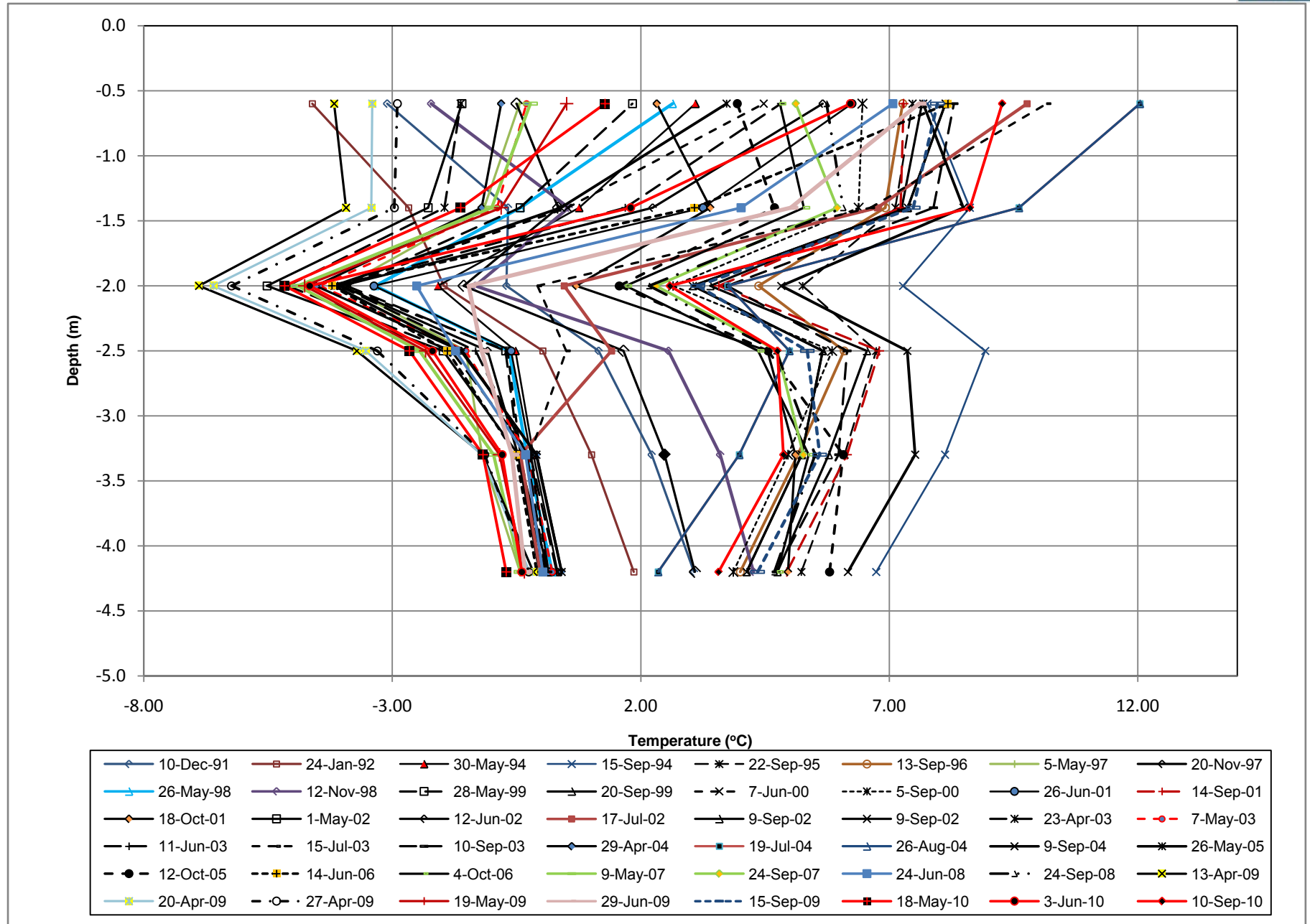


Figure H-14: Cross Valley Dam Piezometric Monitoring CVDC-4

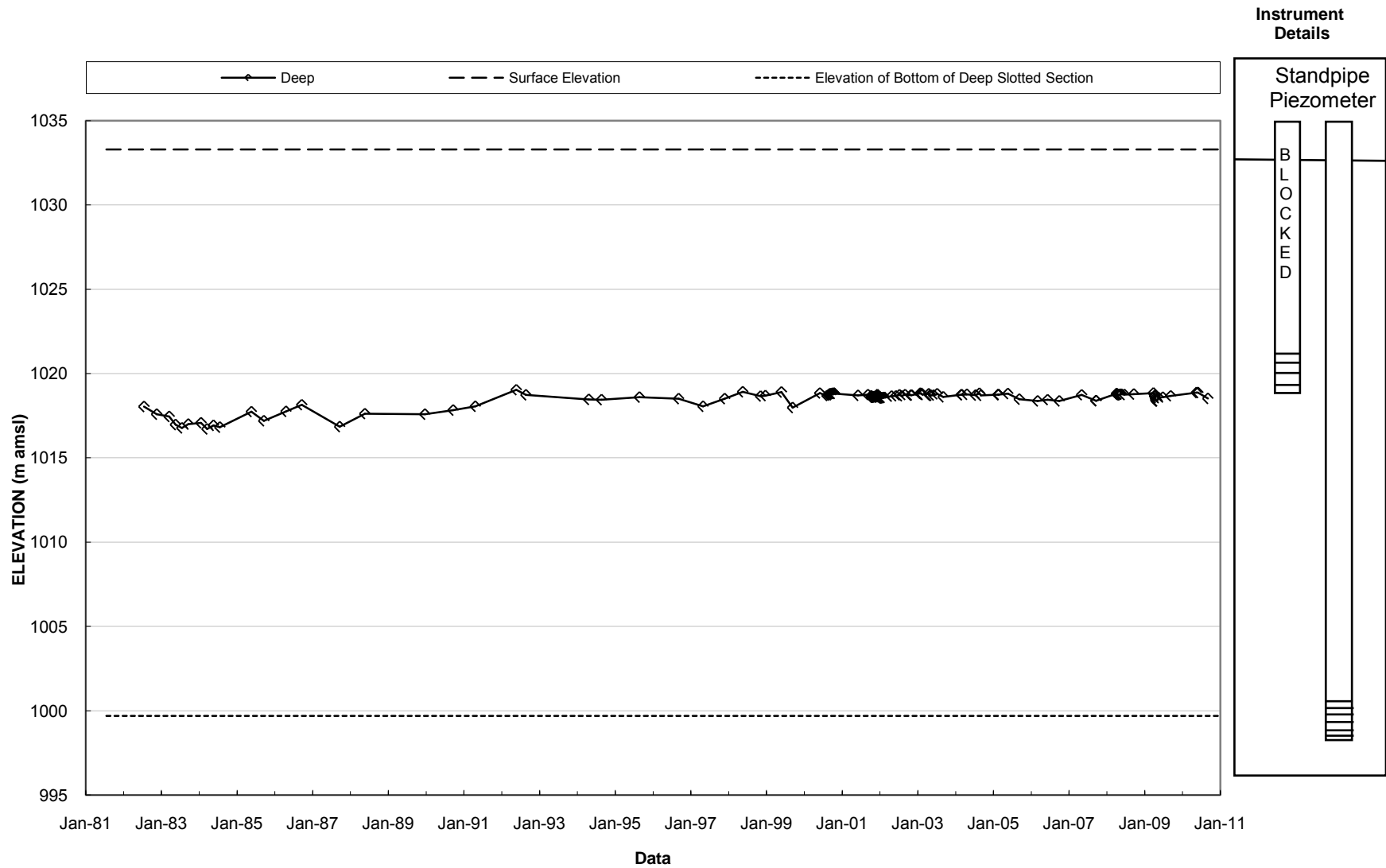


Figure H-15: Cross Valley Dam Piezometric Monitoring CVD7

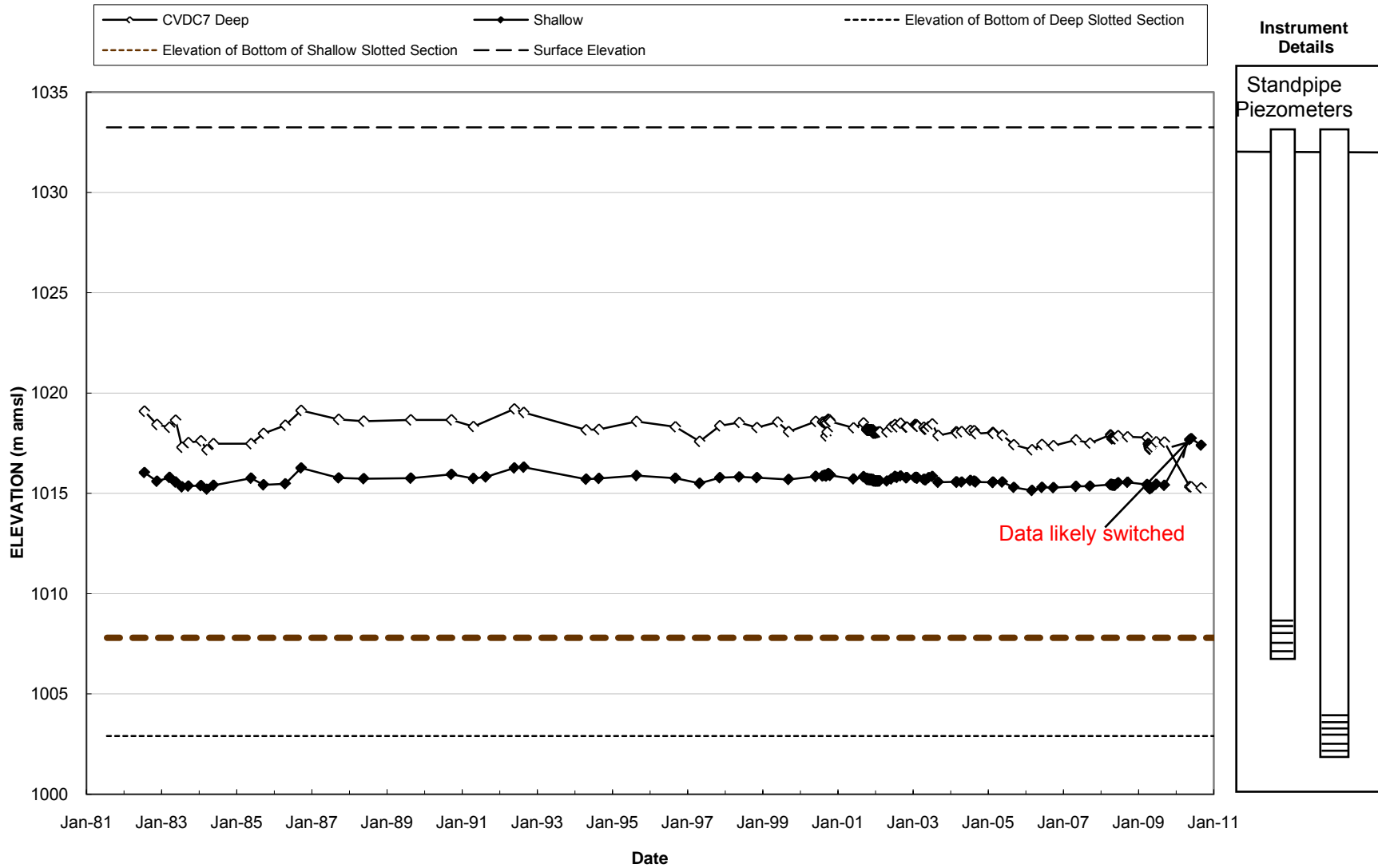


Figure H-16: Cross Valley Dam Piezometric Monitoring CVDC-9

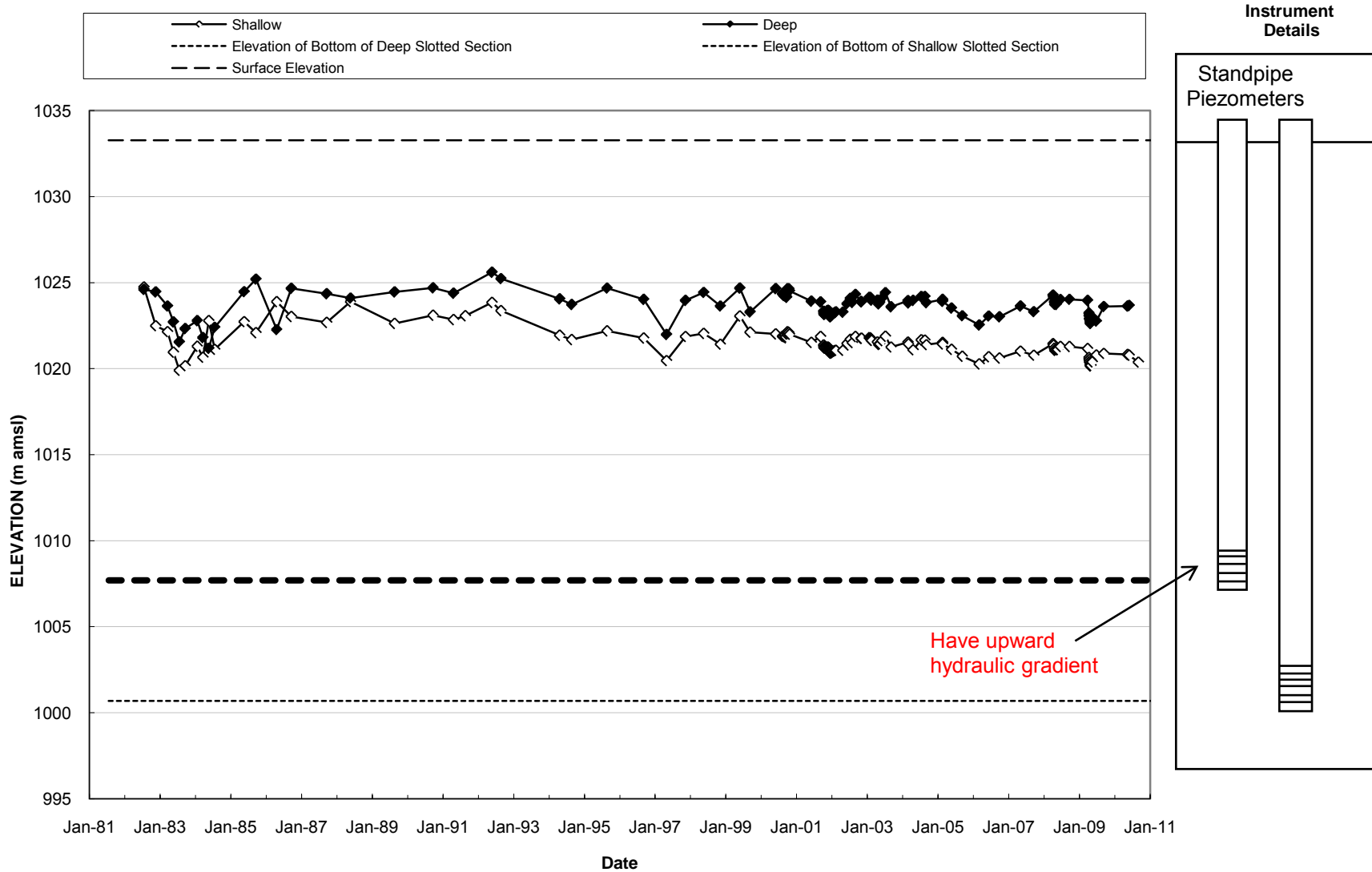


Figure H-17: Cross Valley Dam
Piezometric Monitoring CVDT-1

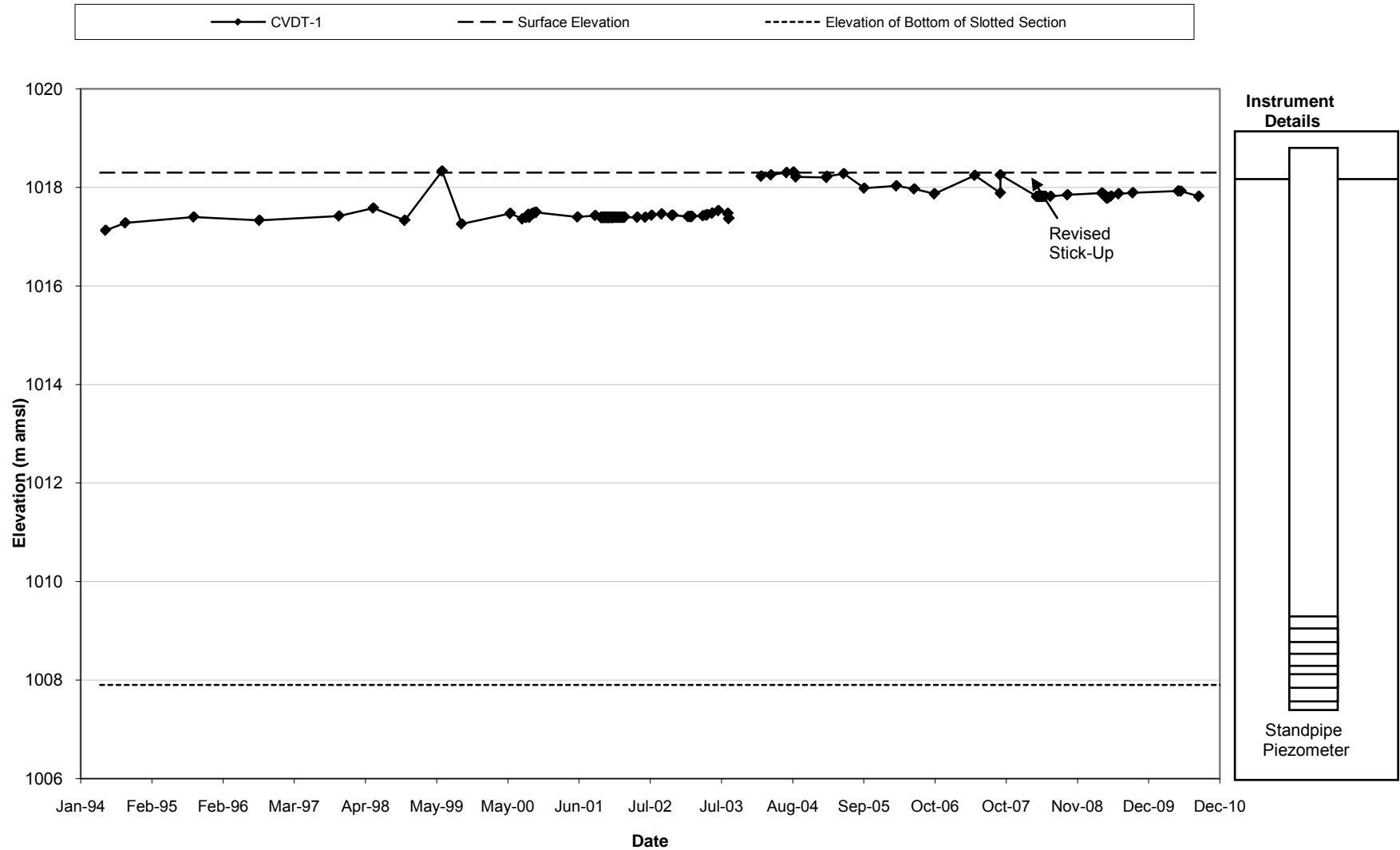


Figure H-18: Cross Valley Dam Piezometric Monitoring CVDT-2

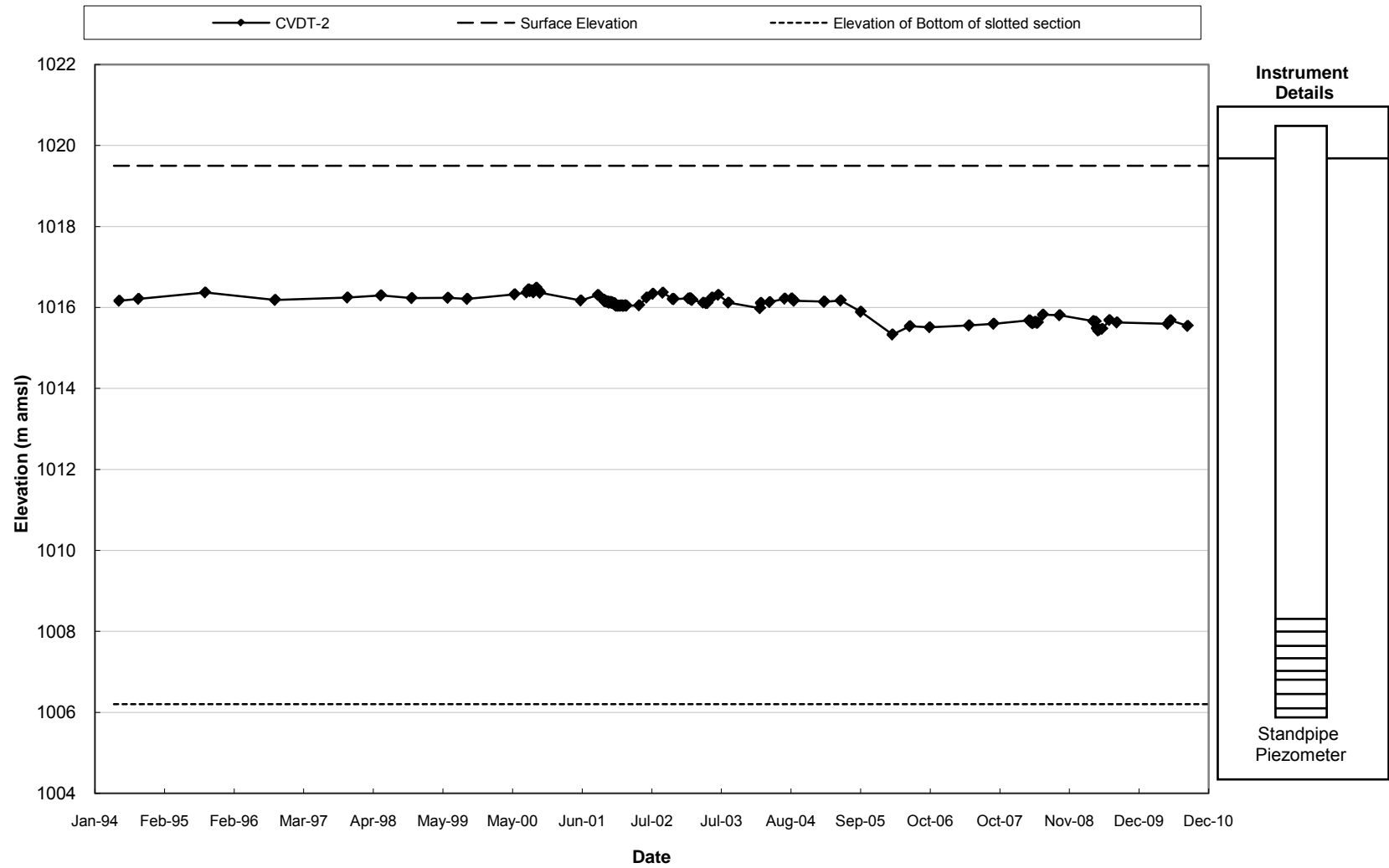


Figure H-19: Cross Valley Dam
Piezometric Monitoring CVDP-1

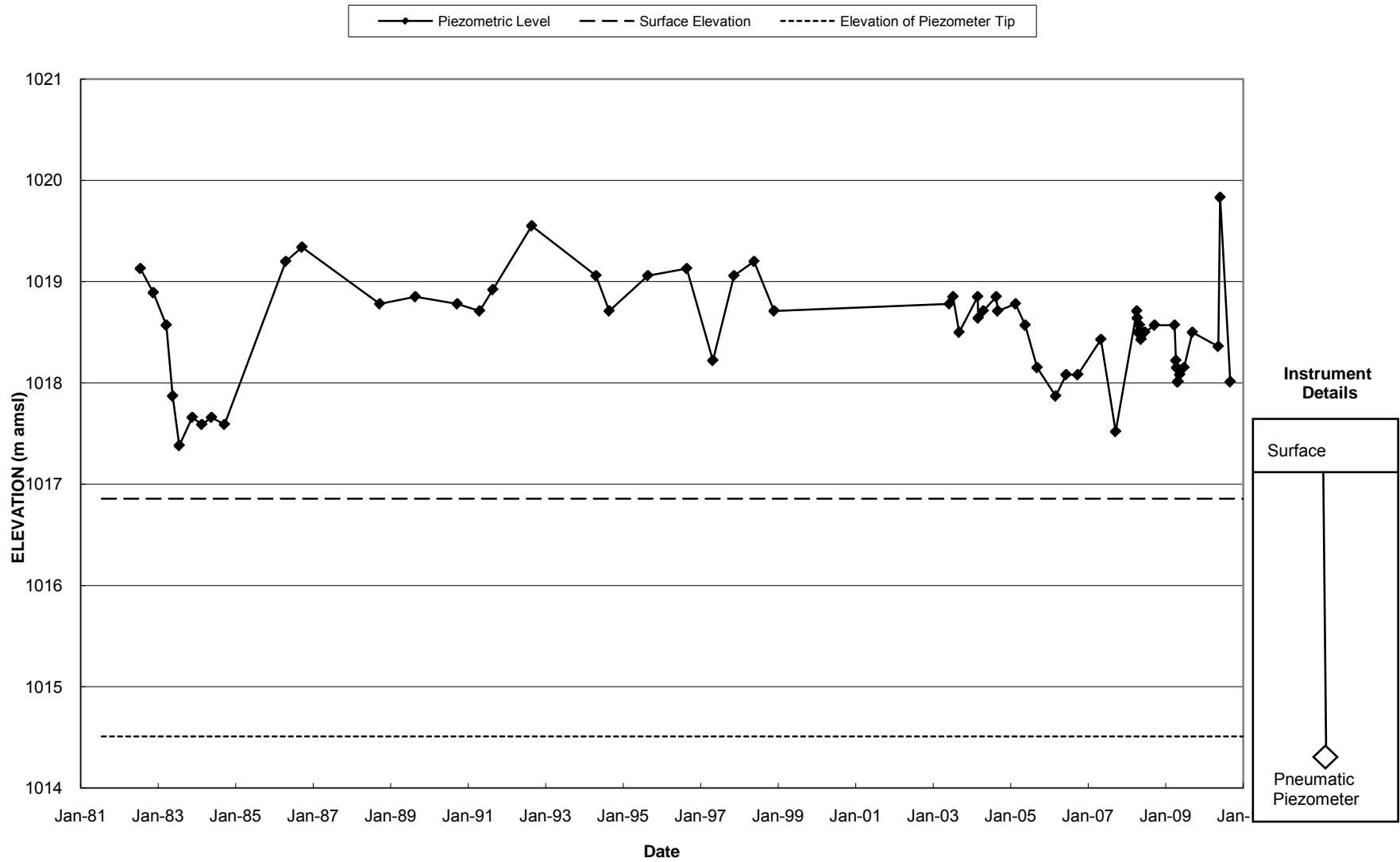


Figure H-20: Cross Valley Dam
Piezometric Monitoring CVDP-3

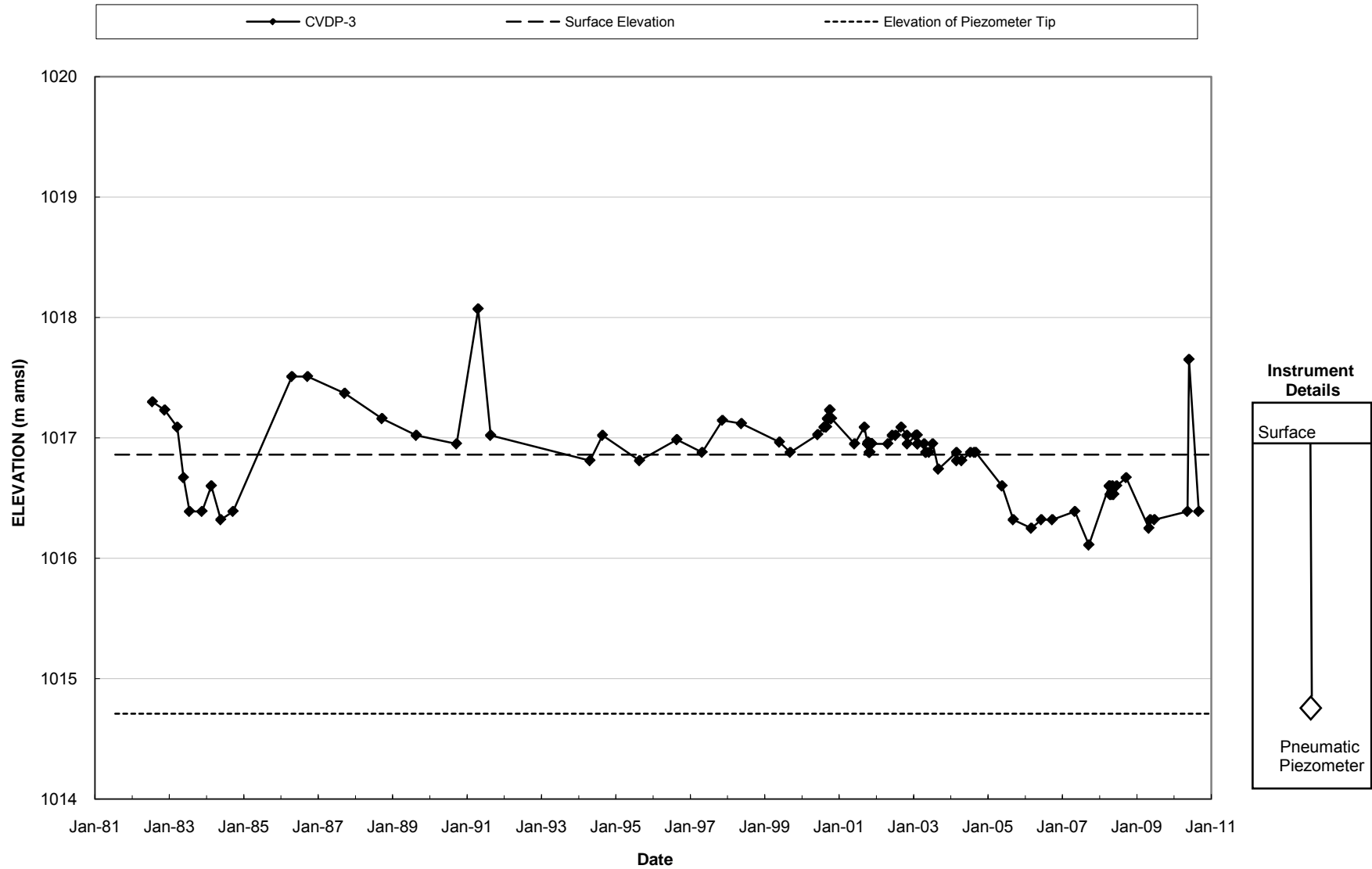


Figure H-21: Cross Valley Dam
Piezometric Monitoring CVDP-5

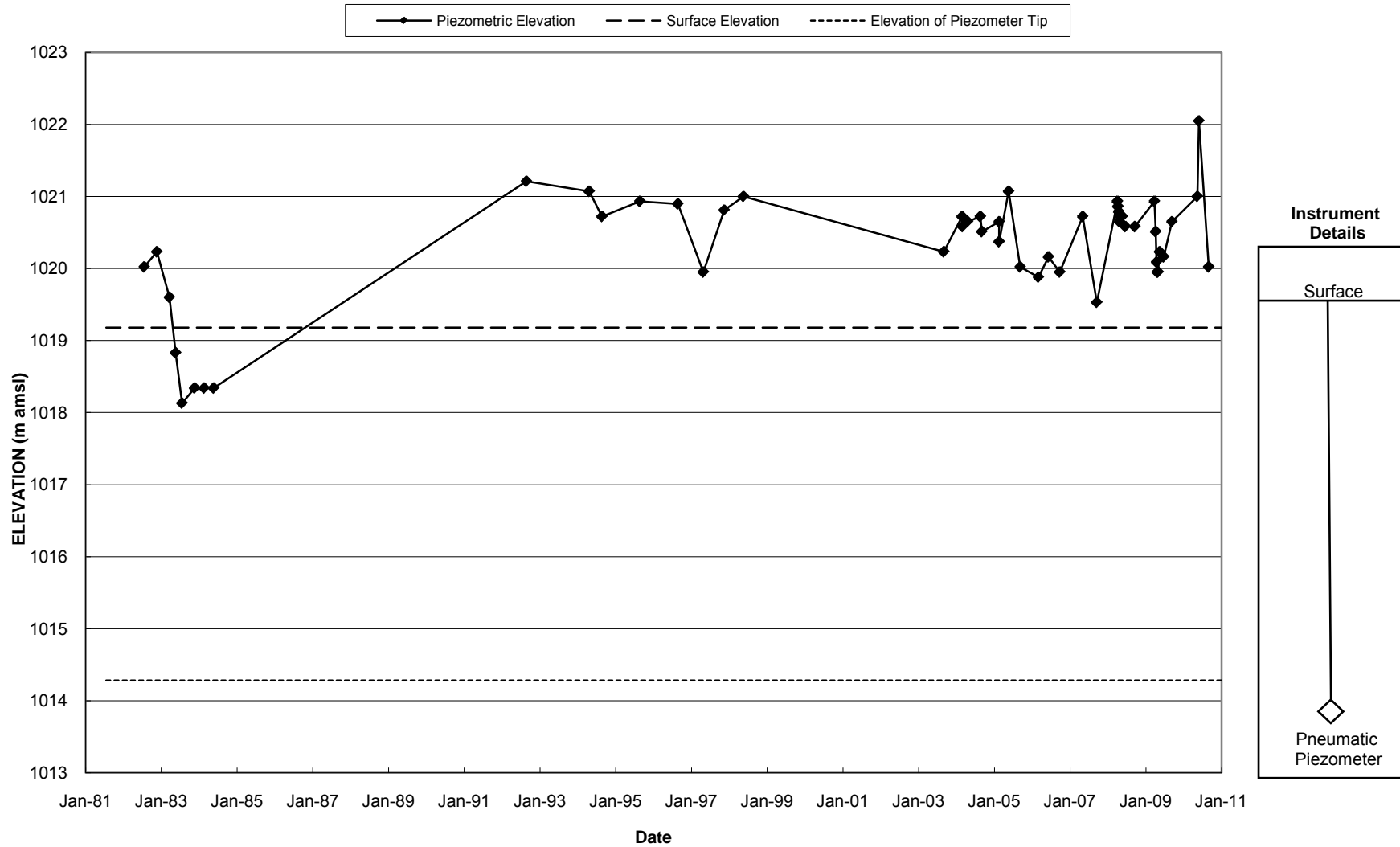


Figure H-22: Cross Valley Dam Piezometric Monitoring CVDP-6

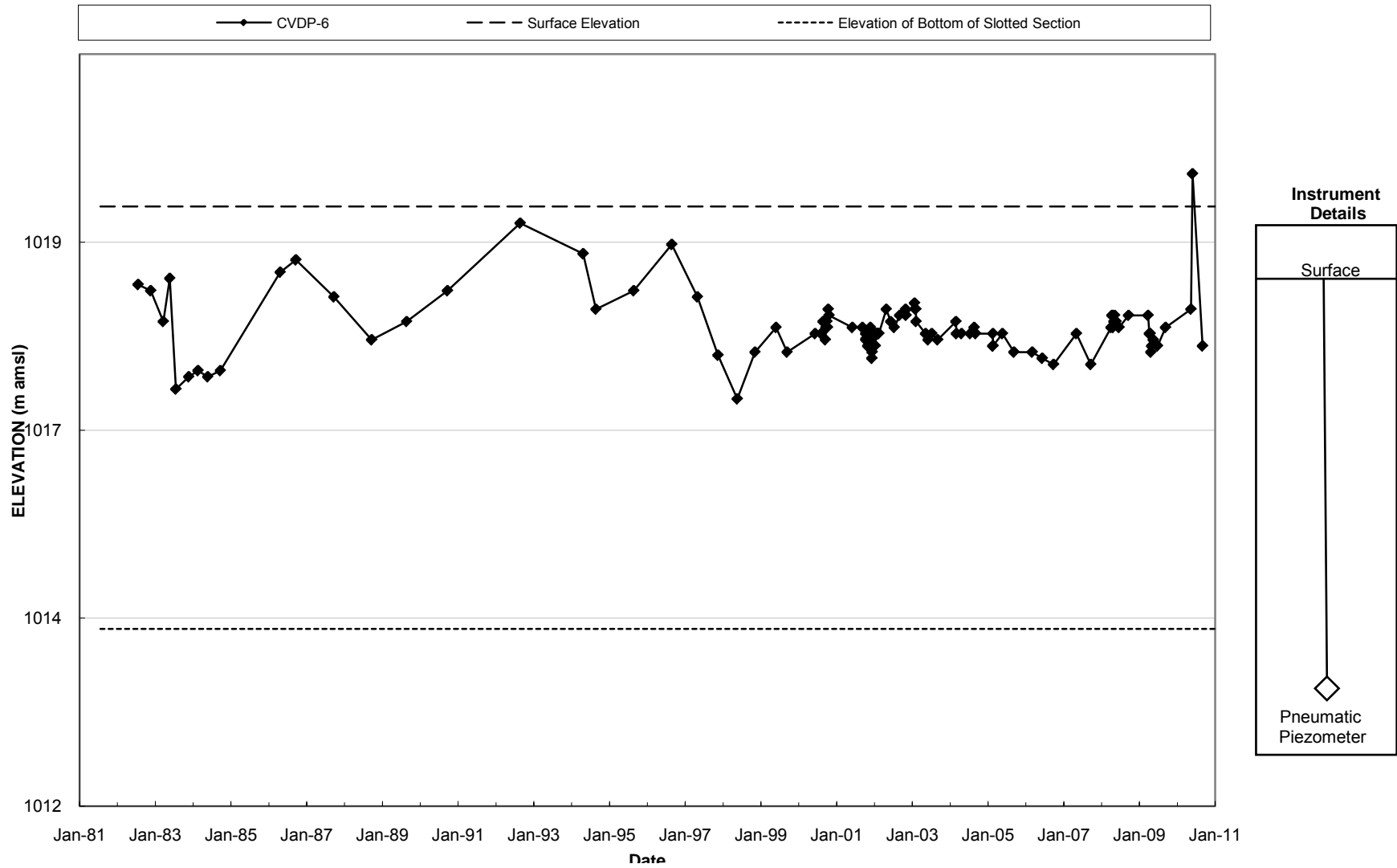


Figure H-23: Cross Valley Dam Piezometric Monitoring 94 CVDC-1

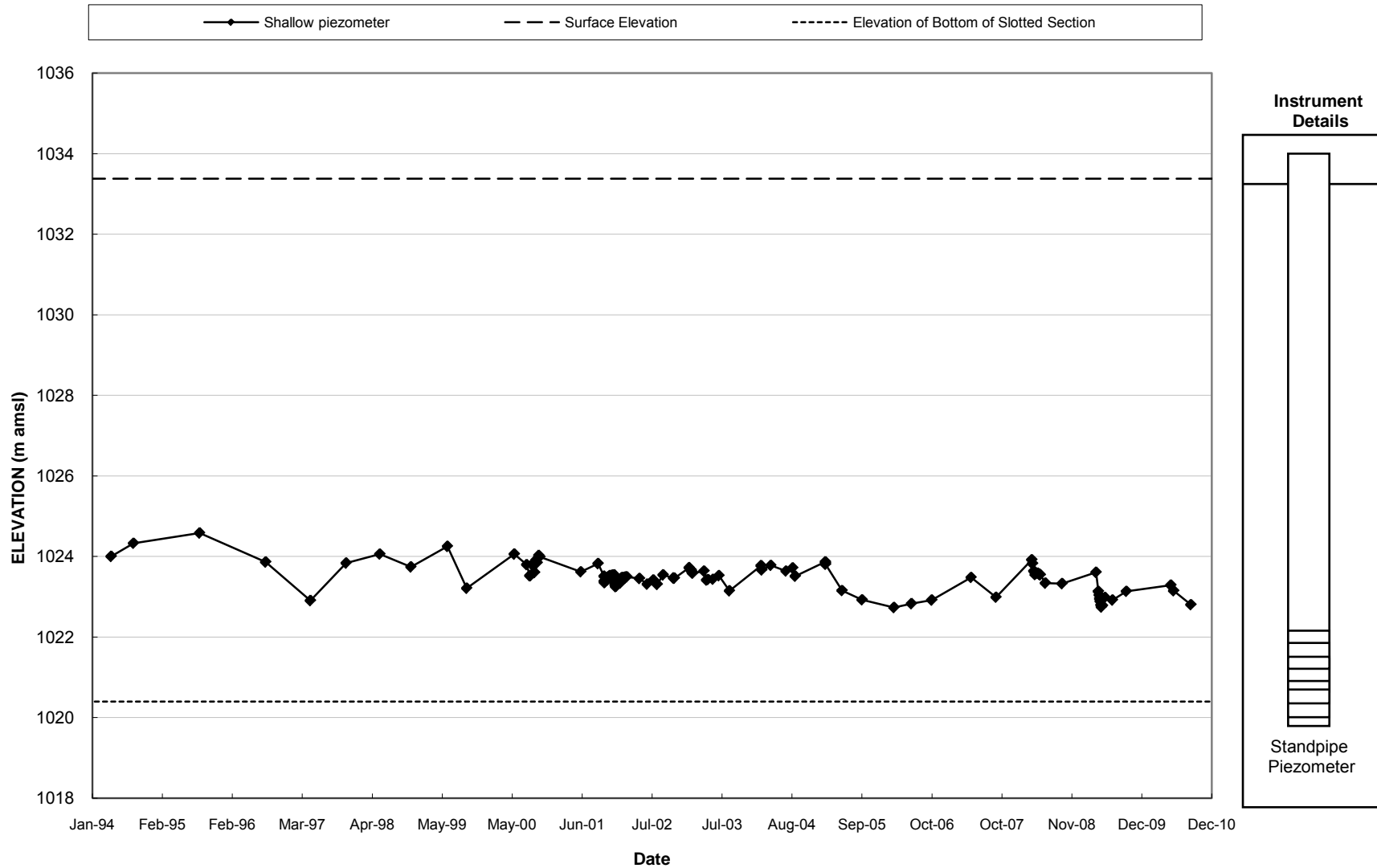


Figure H-24: Cross Valley Dam
Piezometric Monitoring P01-11

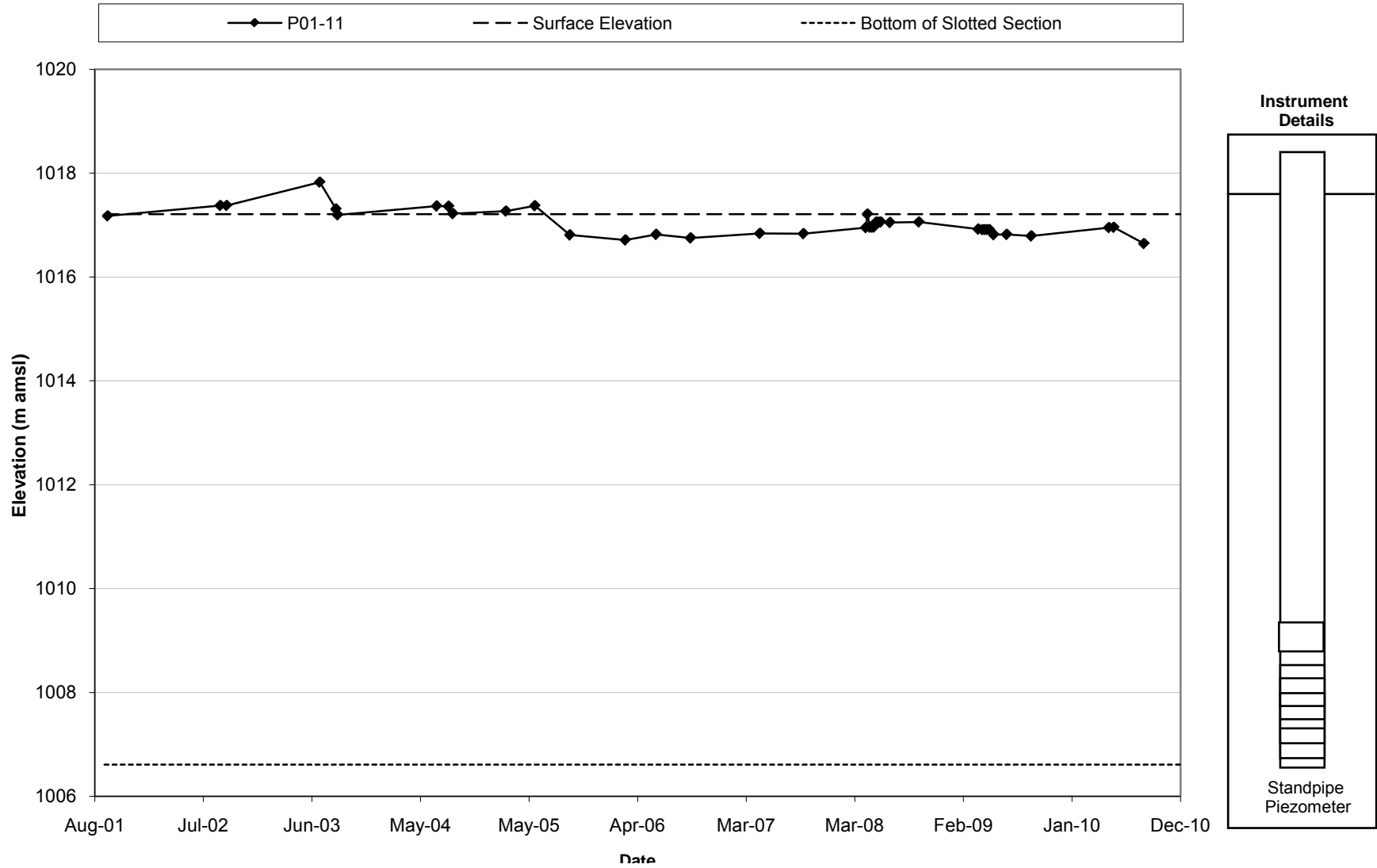


Figure H-25: Intermediate Dam Piezometric Monitoring 91-ID3

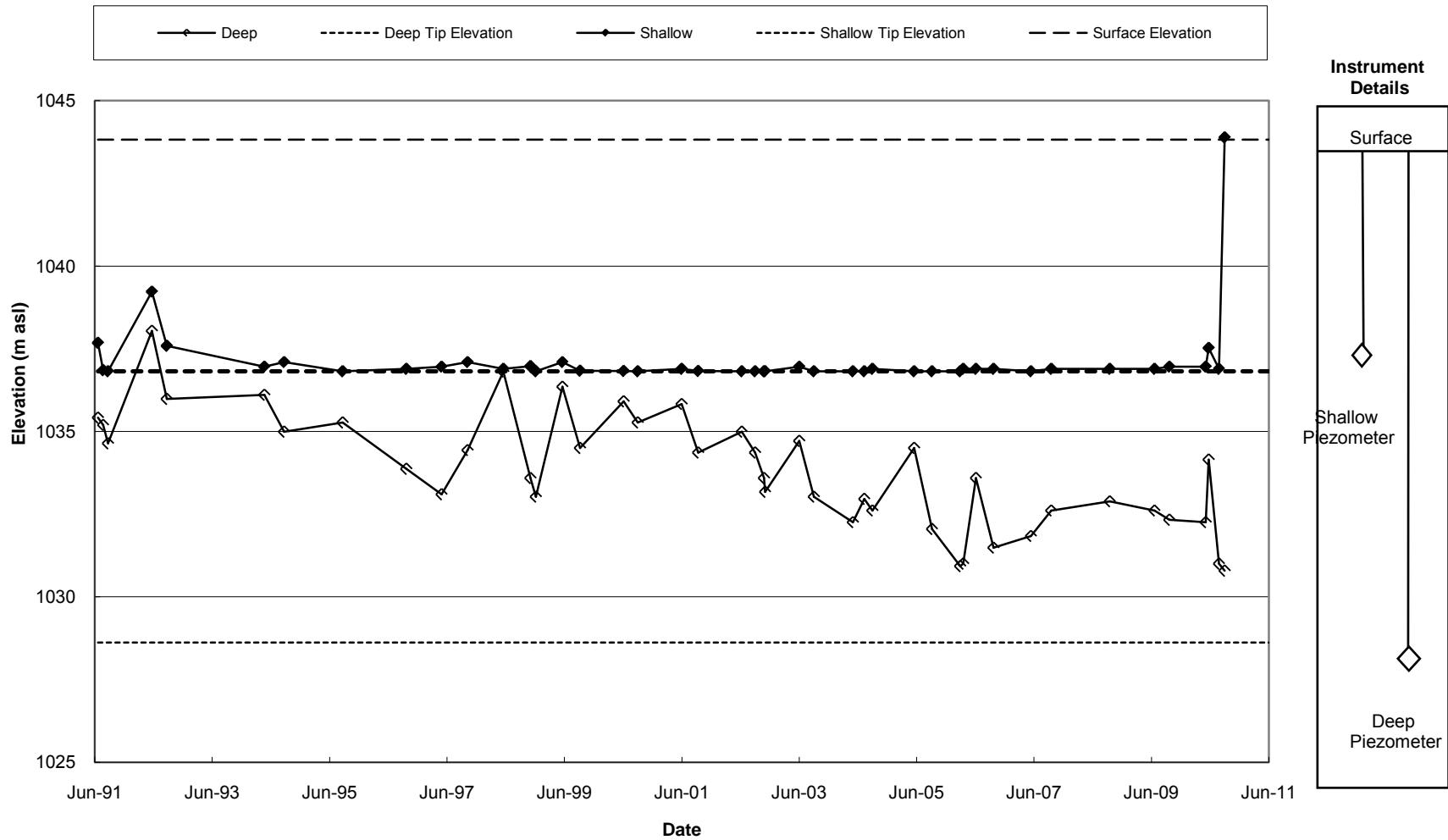


Figure H-26: Intermediate Dam Piezometric Monitoring 91-ID4

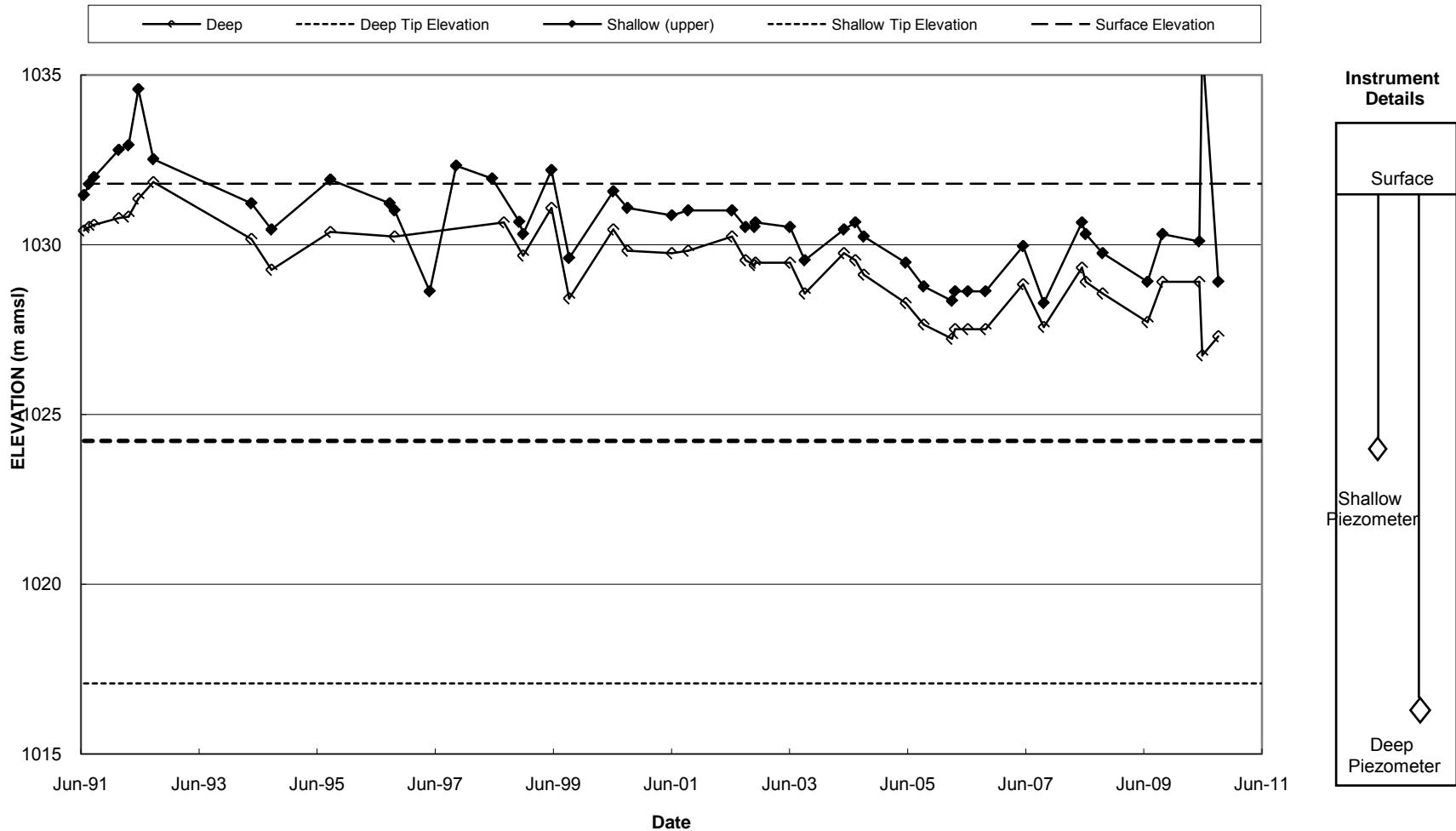
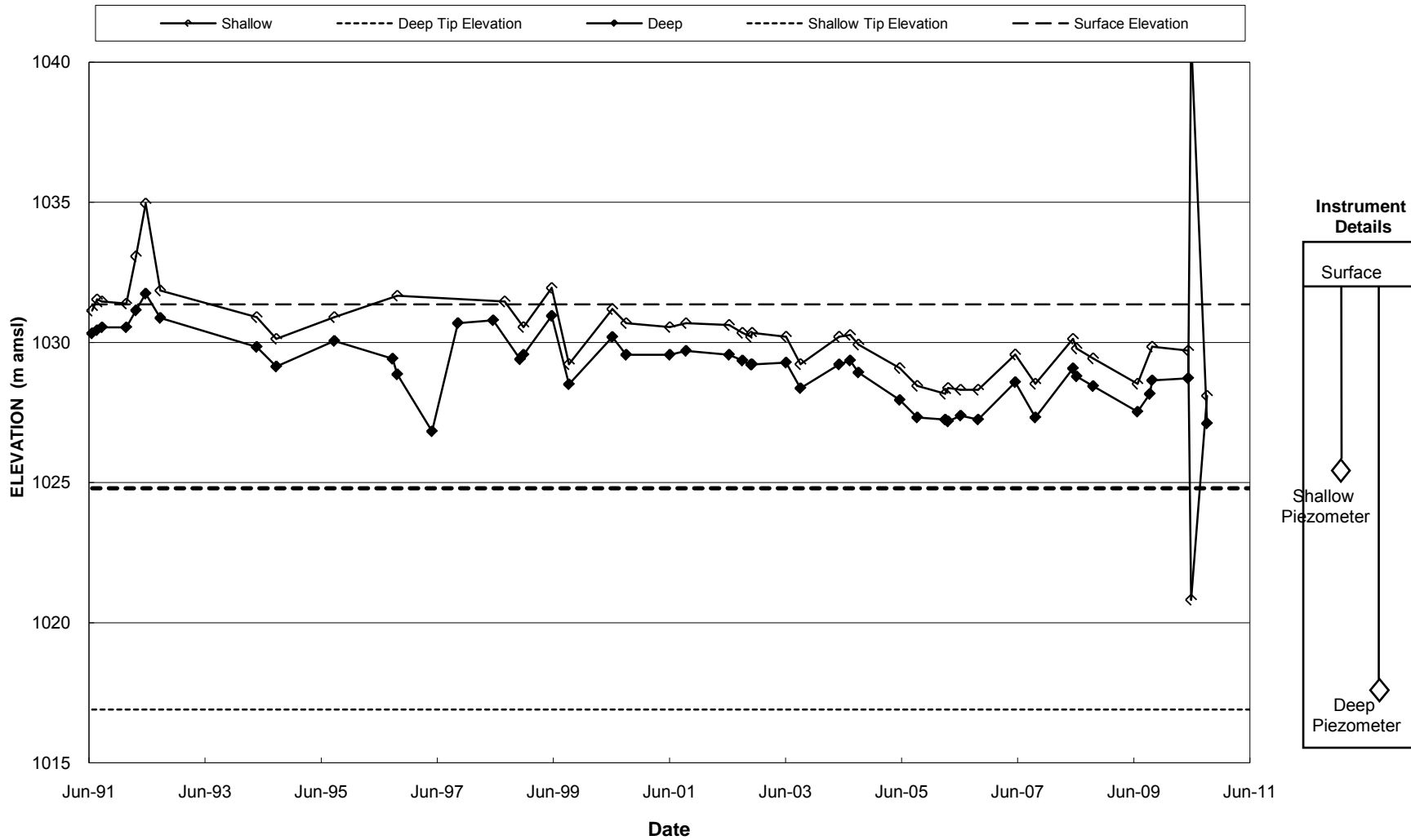


Figure H-27: Intermediate Dam Piezometric Monitoring 91-ID6



**Figure H-28: Intermediate Dam
Piezometric Monitoring 91-ID7**

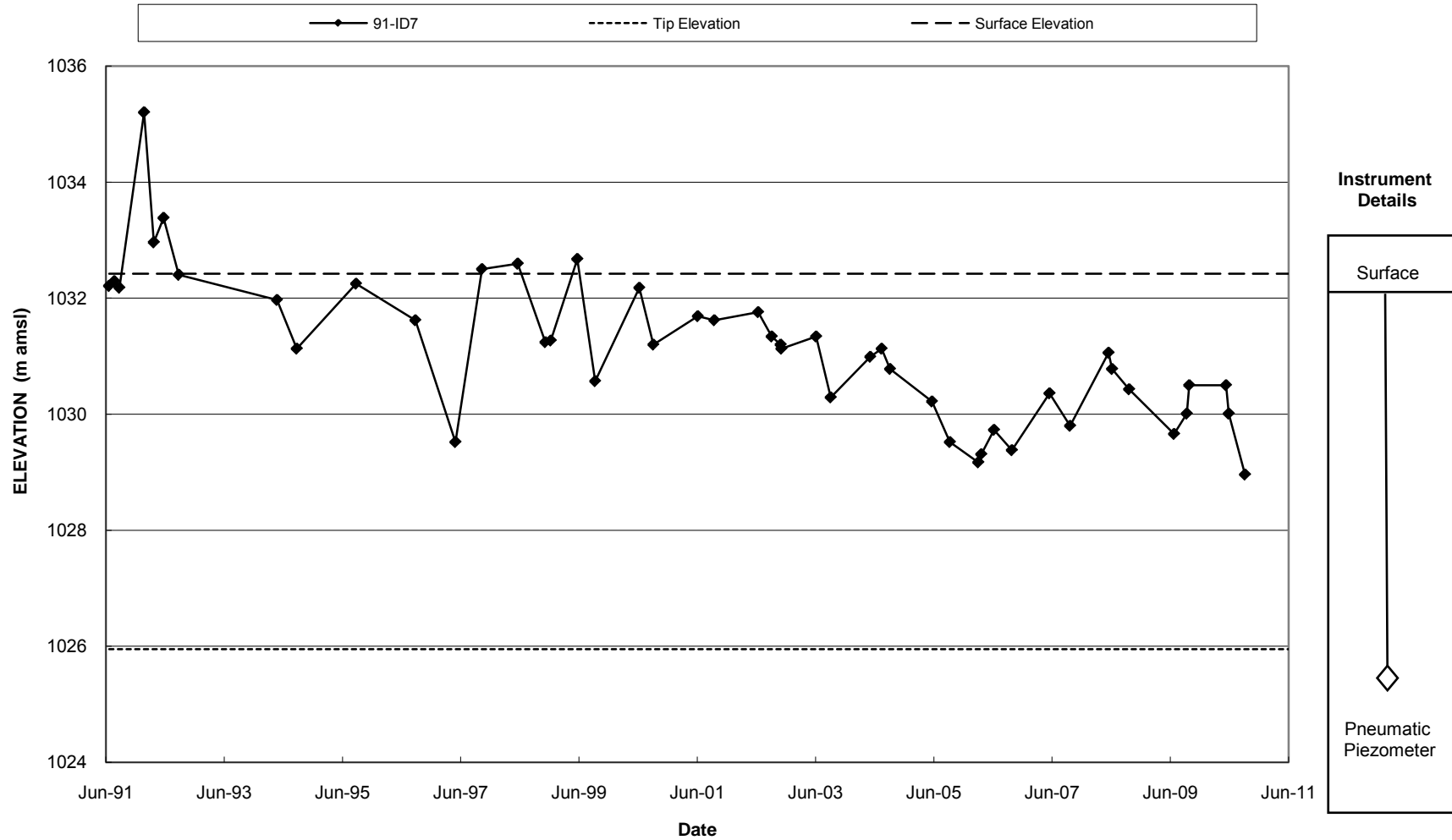
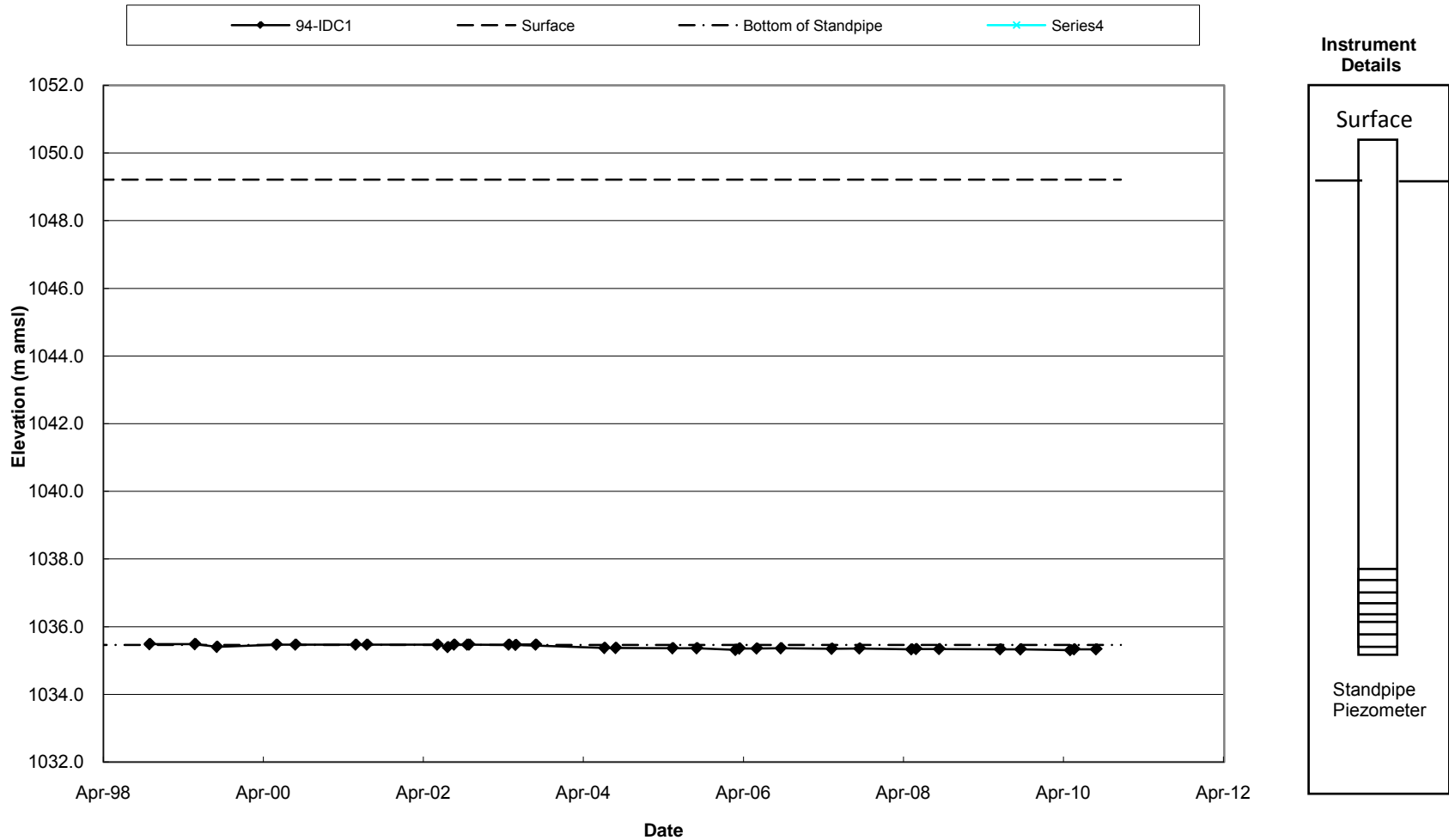


Figure H-29: Intermediate Dam Piezometric Monitoring 94-IDC-1



**Figure H-30: Intermediate Dam
 Piezometric Monitoring 96-1**

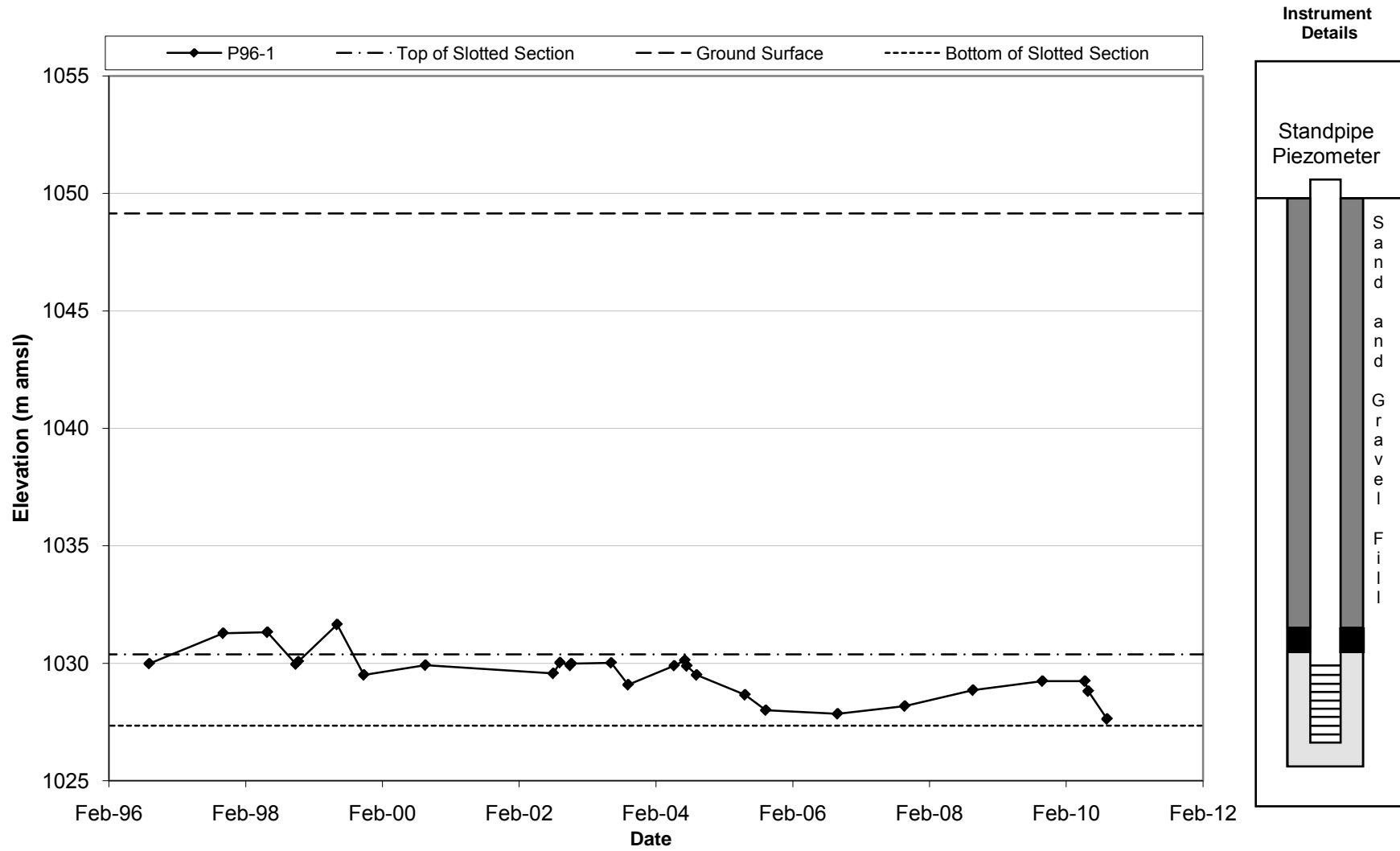


Figure H-31: Intermediate Dam Piezometric Monitoring P96-2

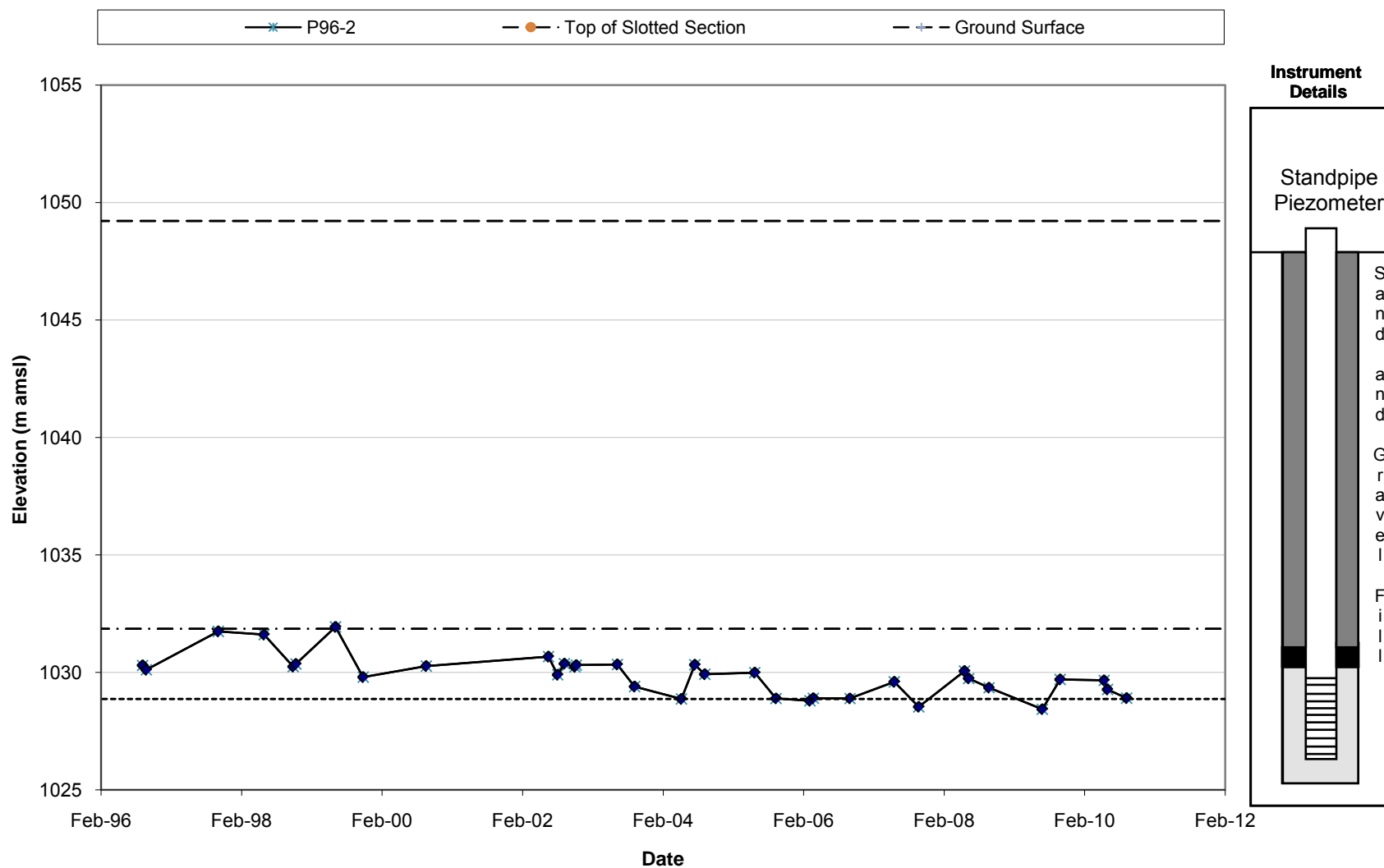


Figure H-32: Intermediate Dam Piezometric Monitoring P96-3

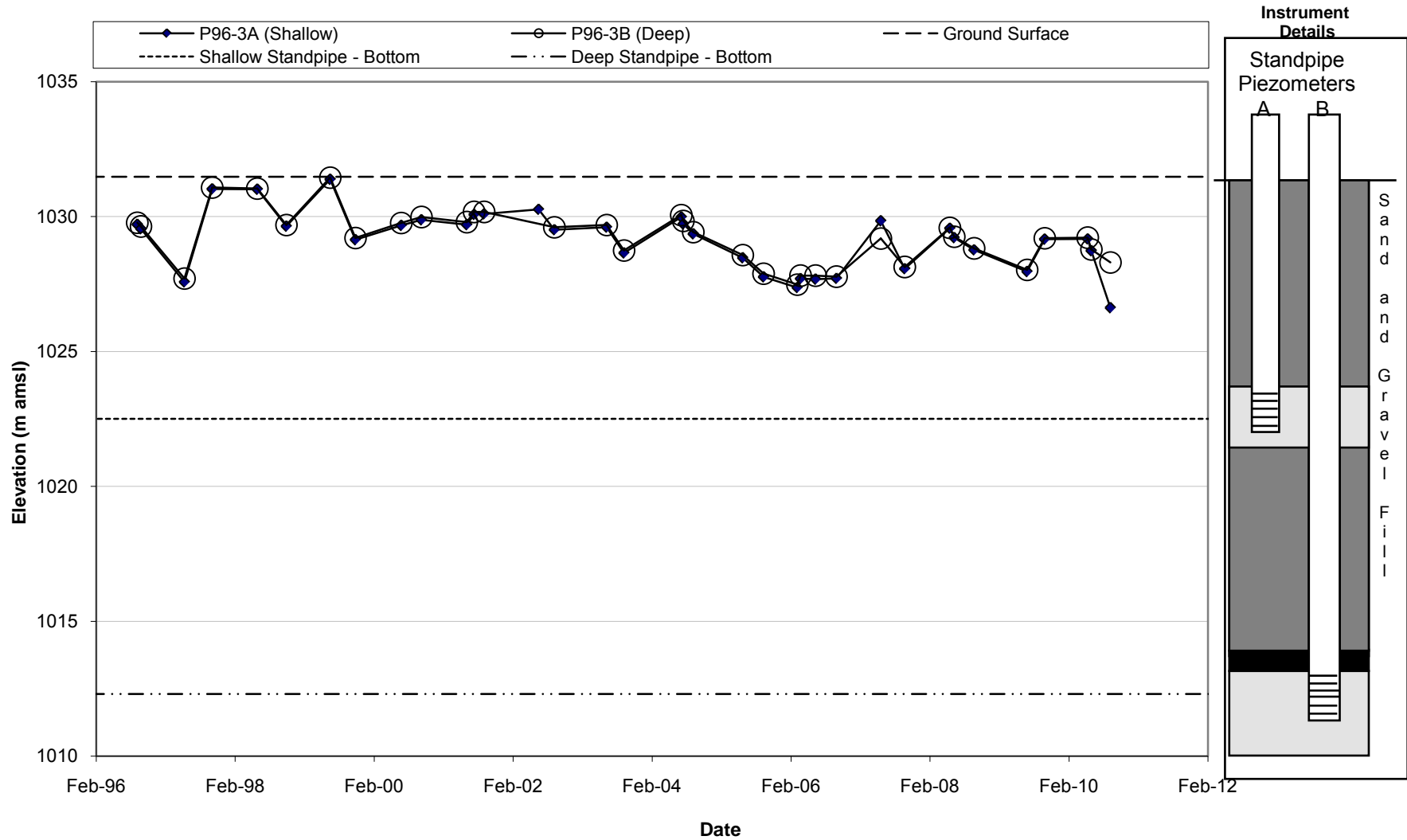


Figure H-33: Intermediate Dam Piezometric Monitoring P96-4

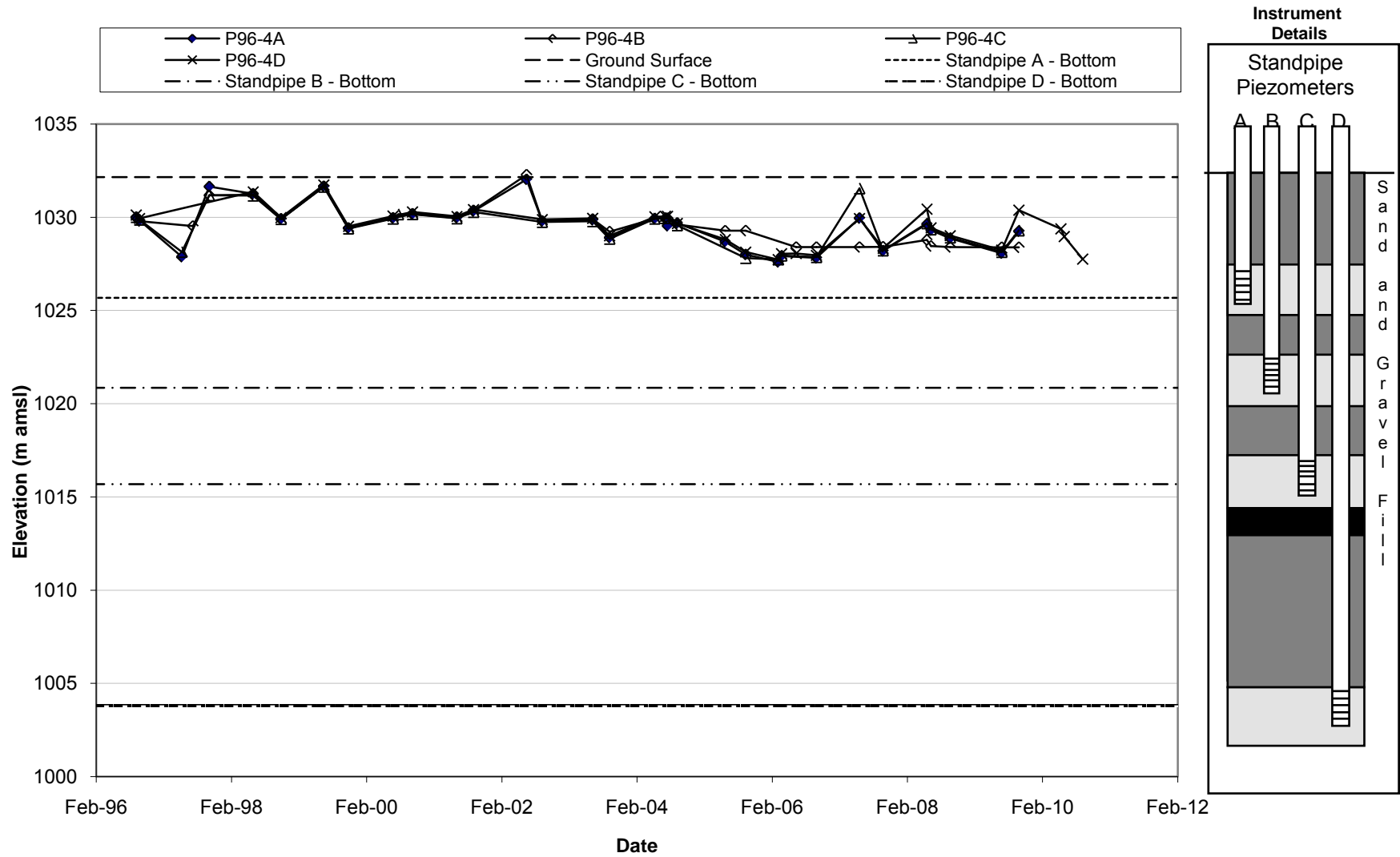


Figure H-34: Intermediate Dam Piezometric Monitoring P01-03

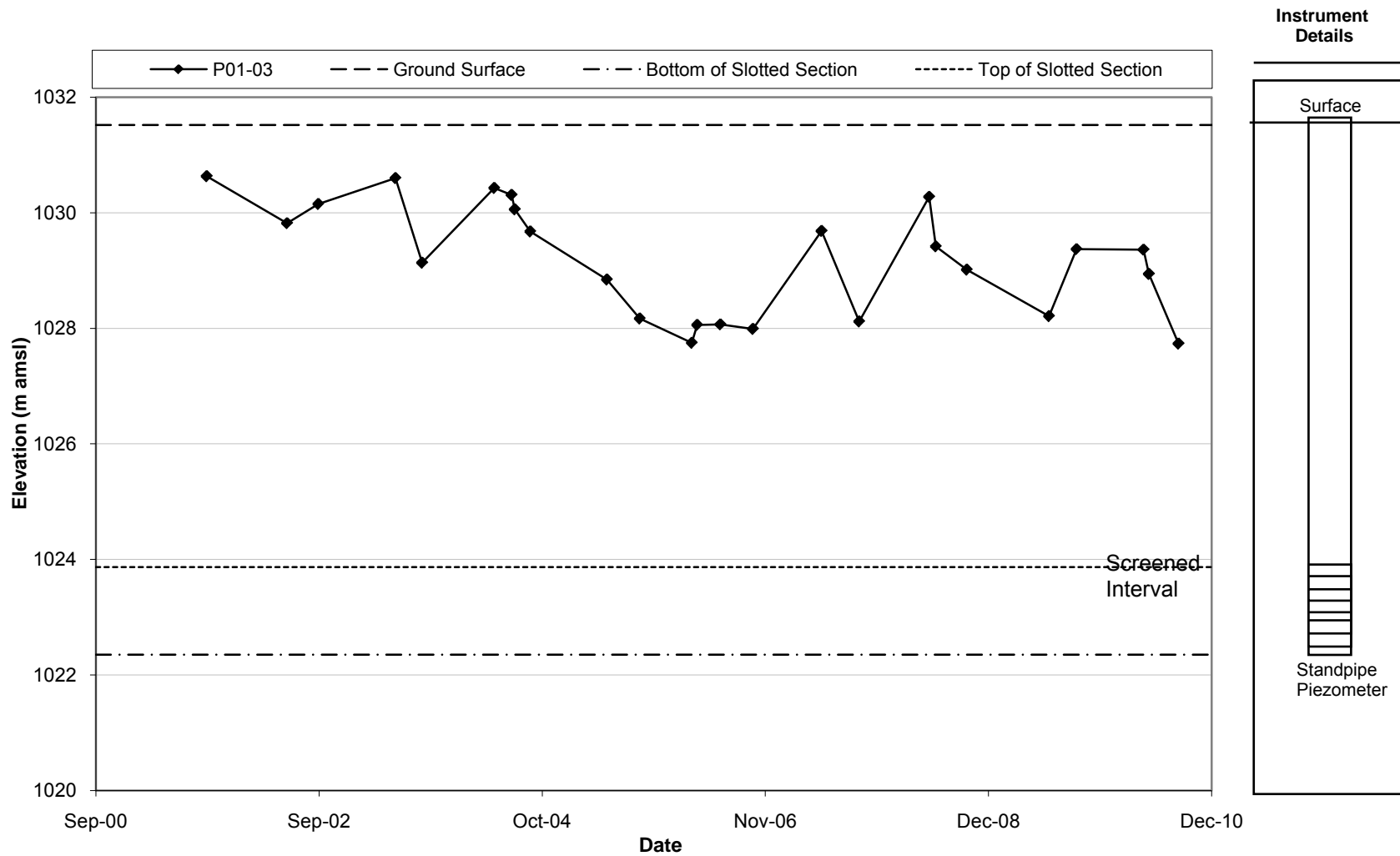


Figure H-35: Intermediate Dam Piezometric Monitoring P01-04

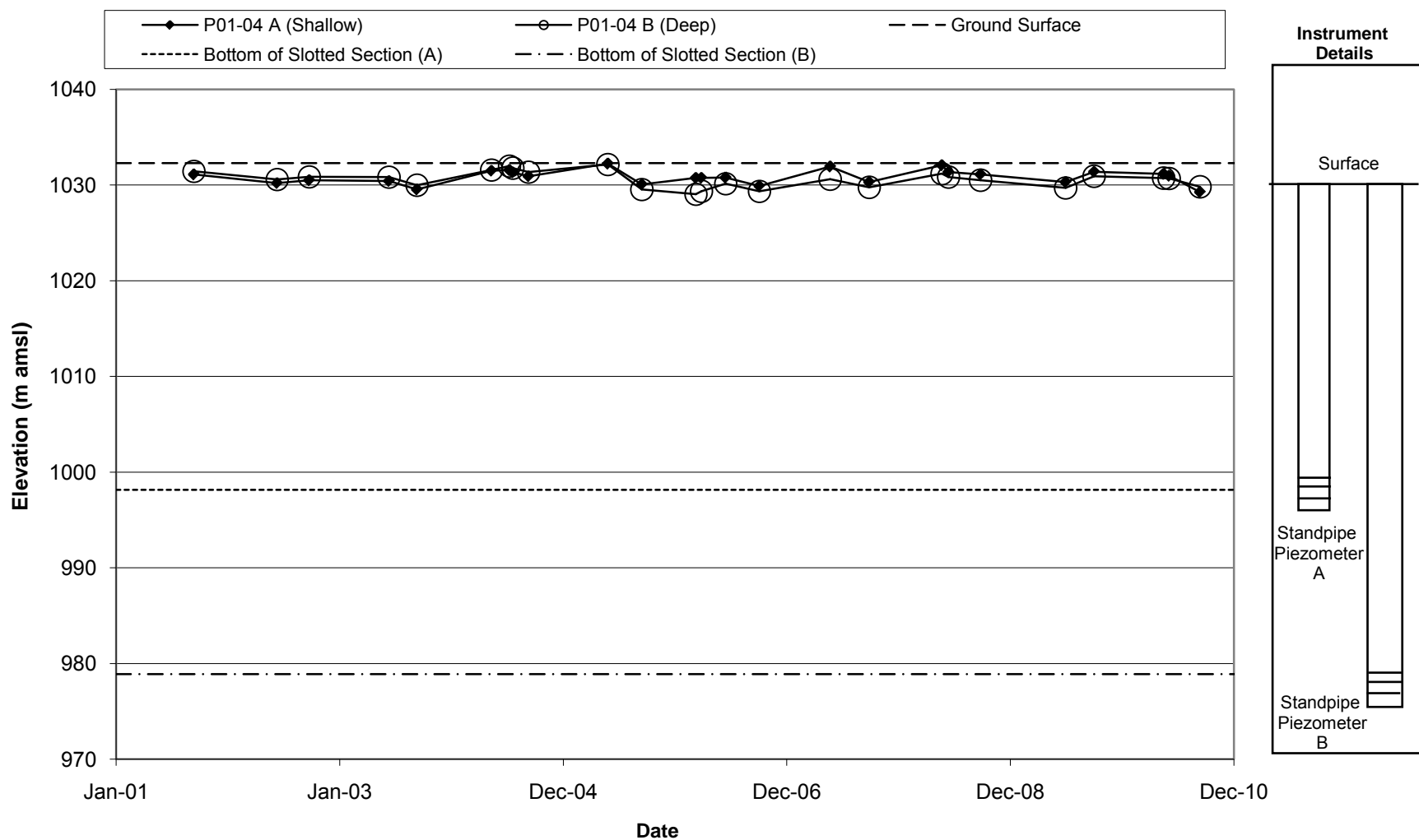


Figure H-36: Intermediate Dam Piezometric Monitoring BKS 04-06

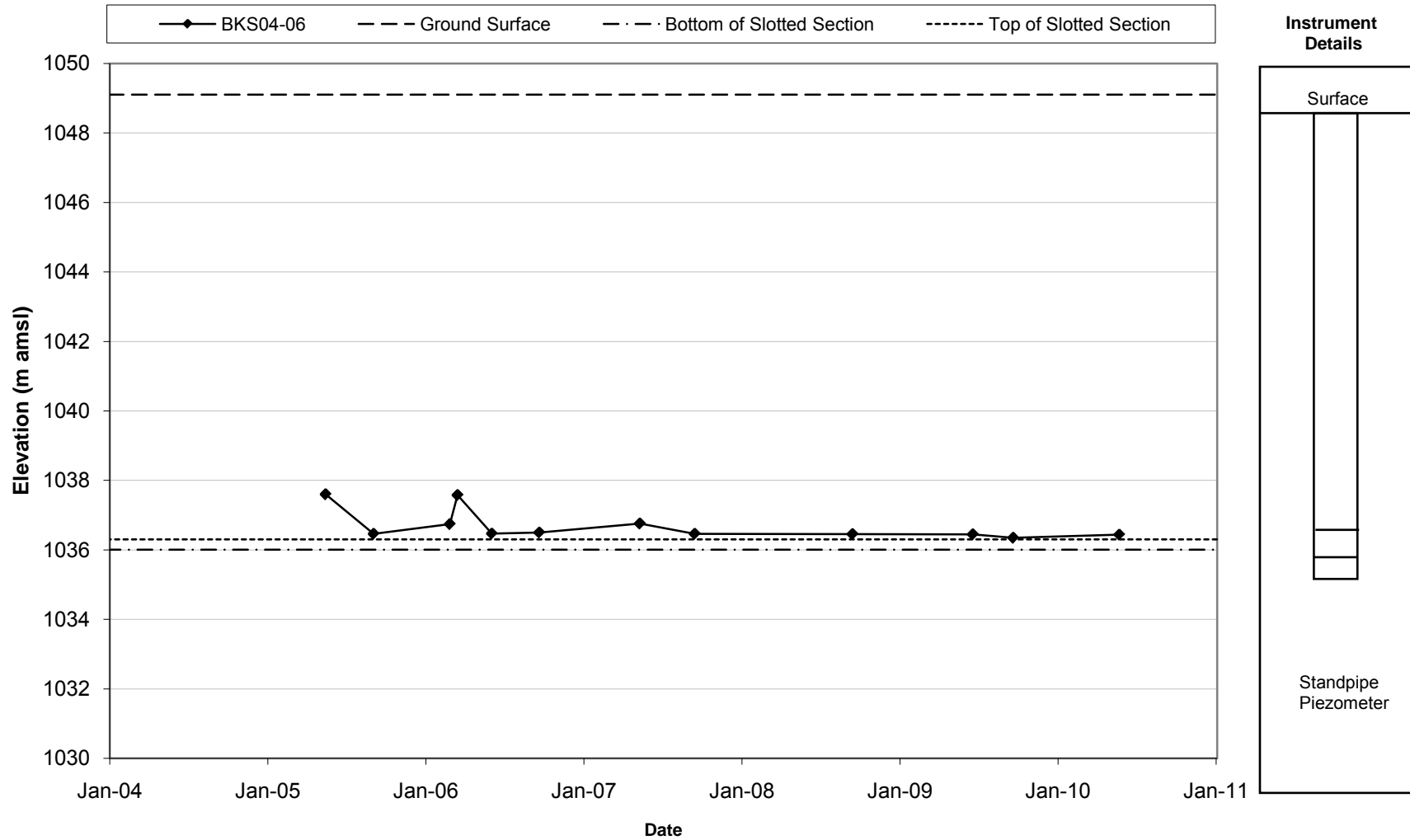


Figure H-37: Intermediate Dam Piezometric Monitoring BKS04-07



Figure H-38: Secondary Tailings Dam Piezometric Monitoring P81-06

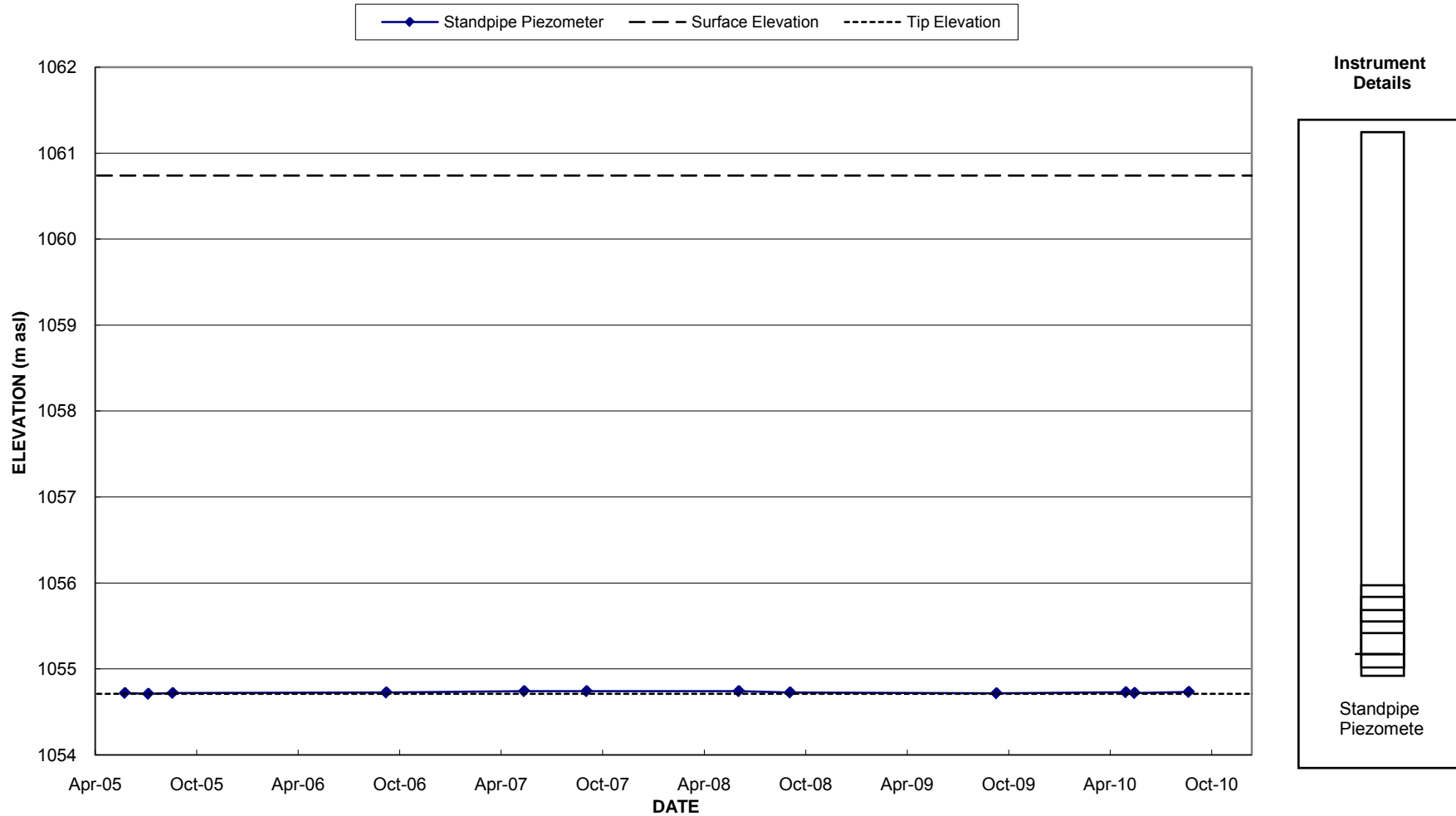
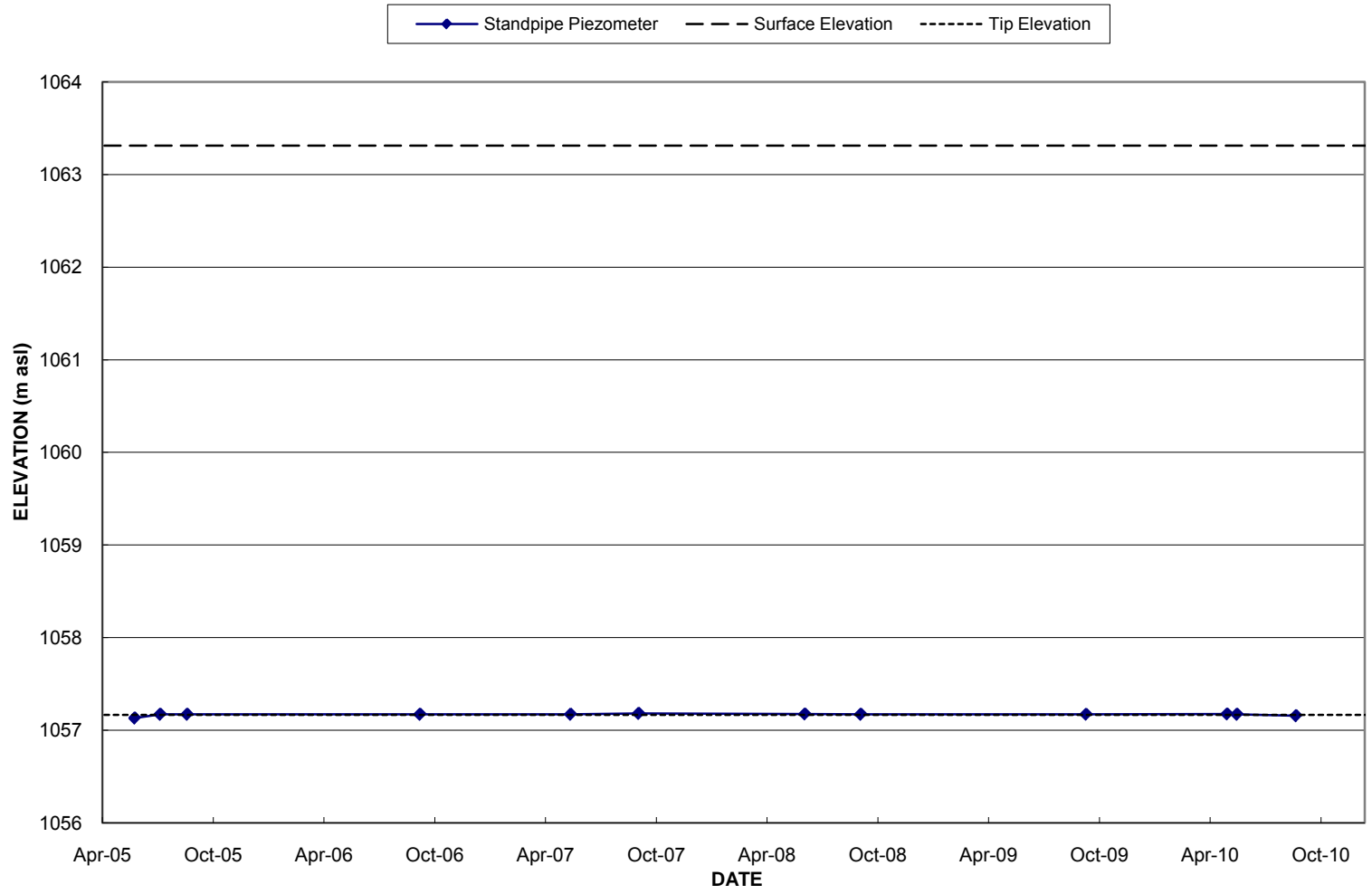


Figure H-39: Secondary Tailings Dam Piezometric Monitoring P81-07



Instrument Details

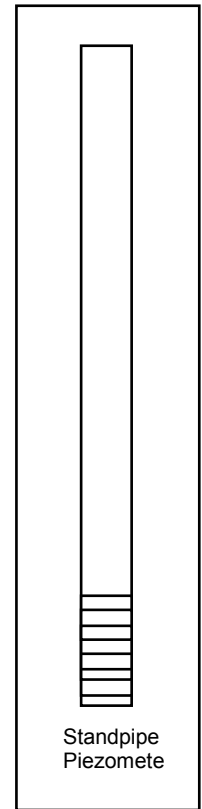
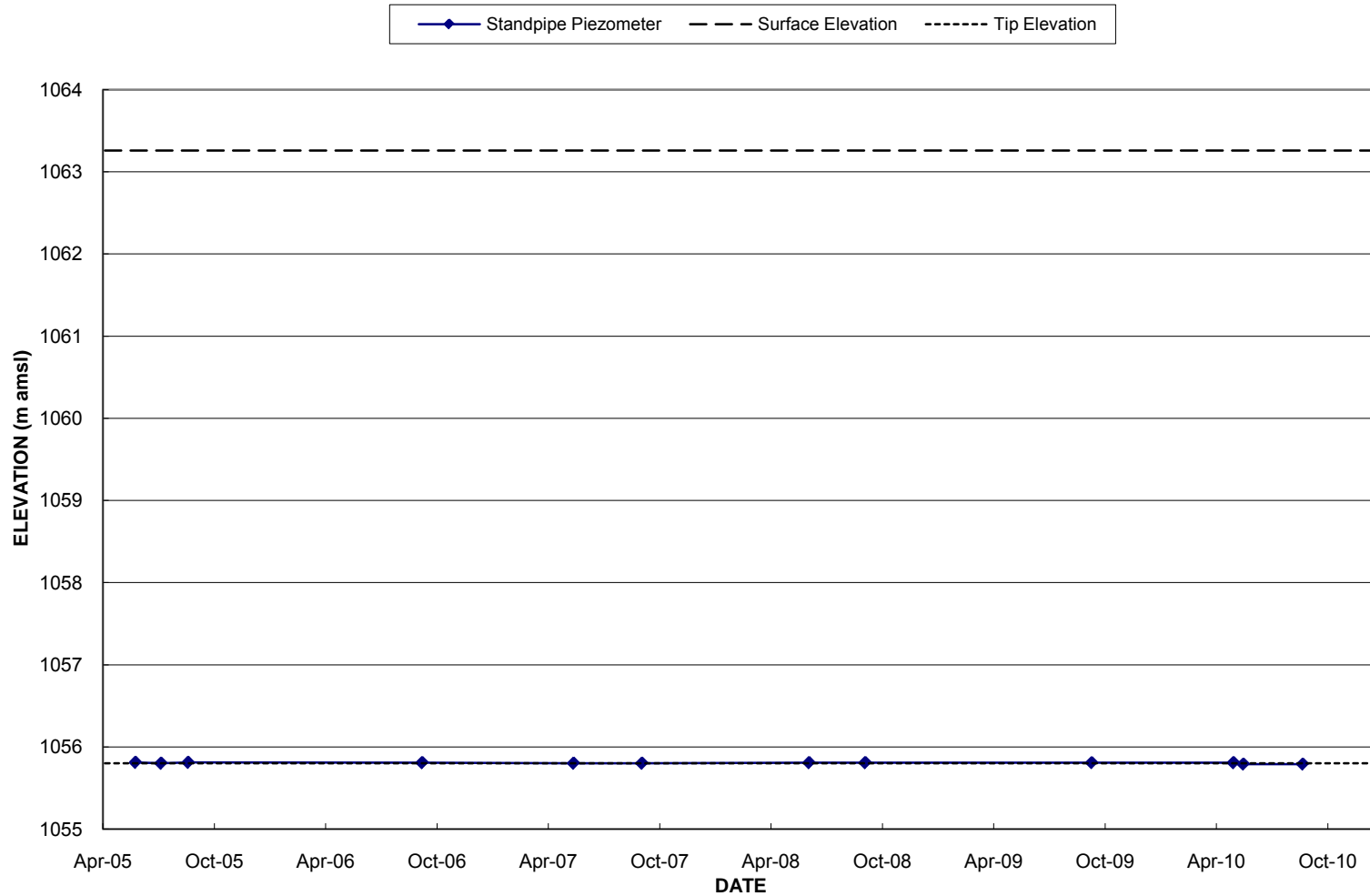


Figure H-40: Secondary Tailings Dam Piezometric Monitoring P81-08



Instrument Details

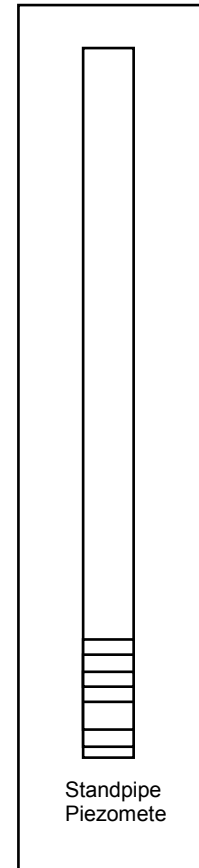


Figure H-41: Secondary Tailings Dam Piezometric Monitoring P03-01

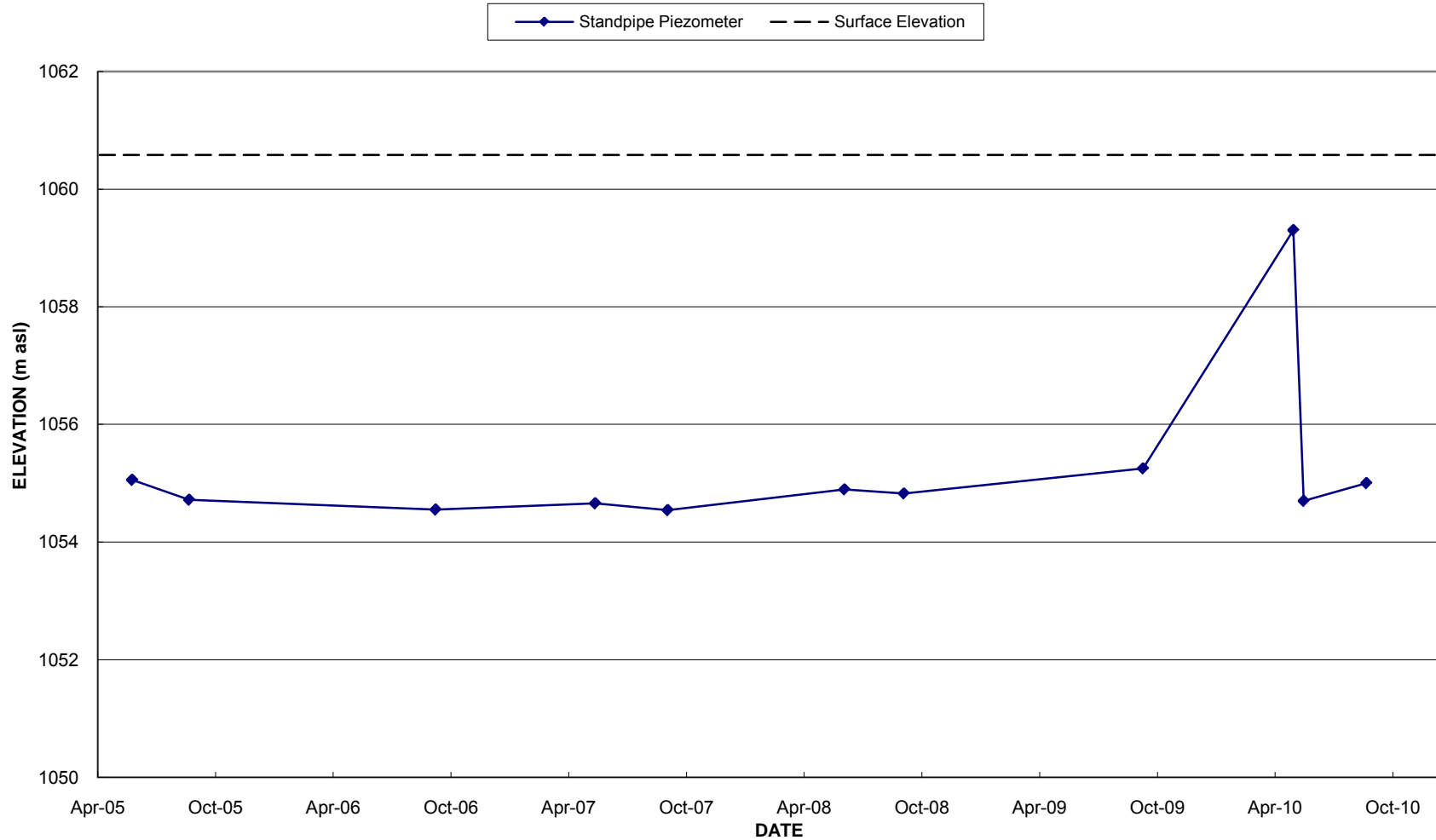


Figure H-42: Secondary Tailings Dam Piezometric Monitoring P03-02

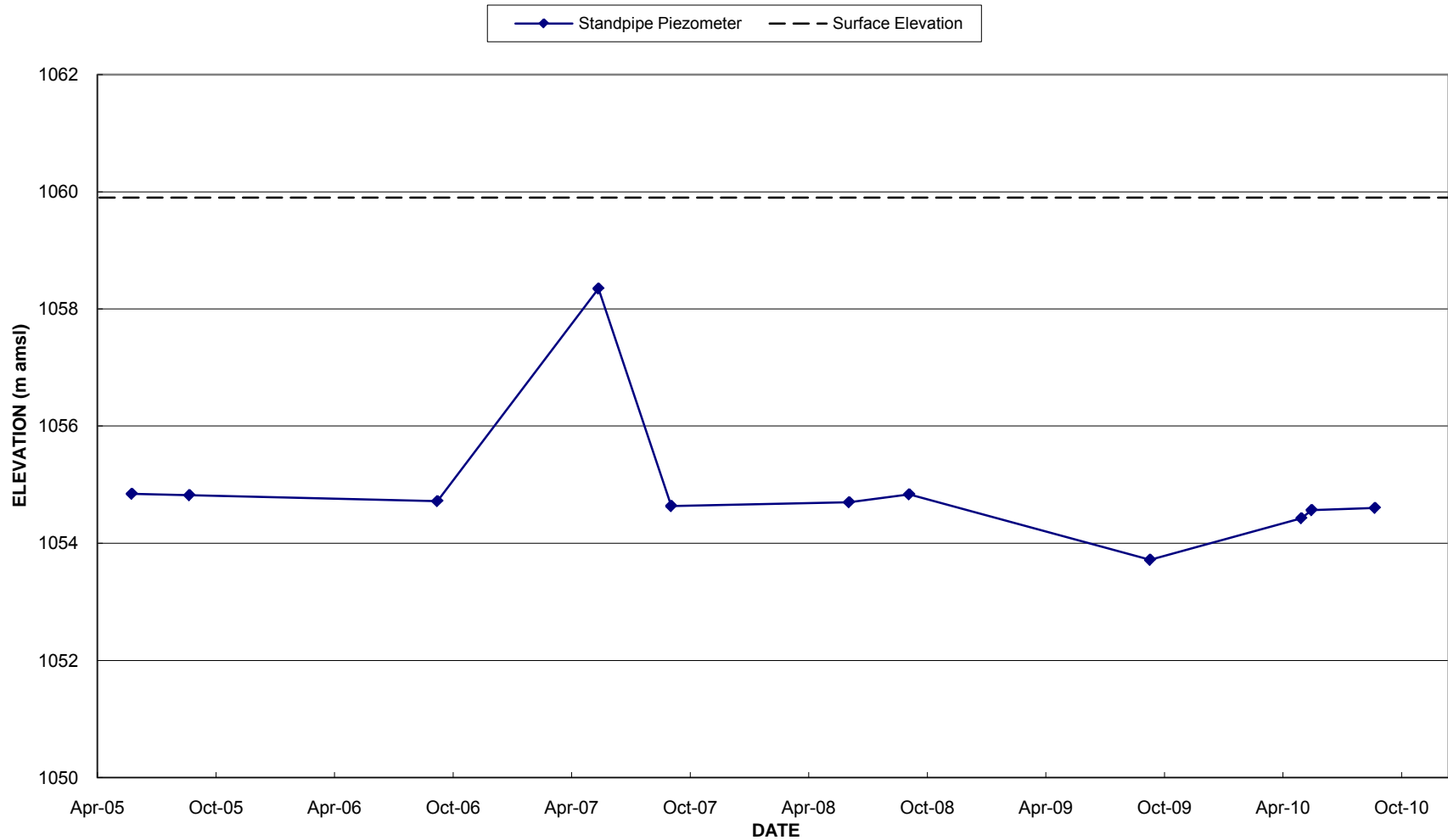


Figure H-43: Secondary Tailings Dam Piezometric Monitoring P03-03

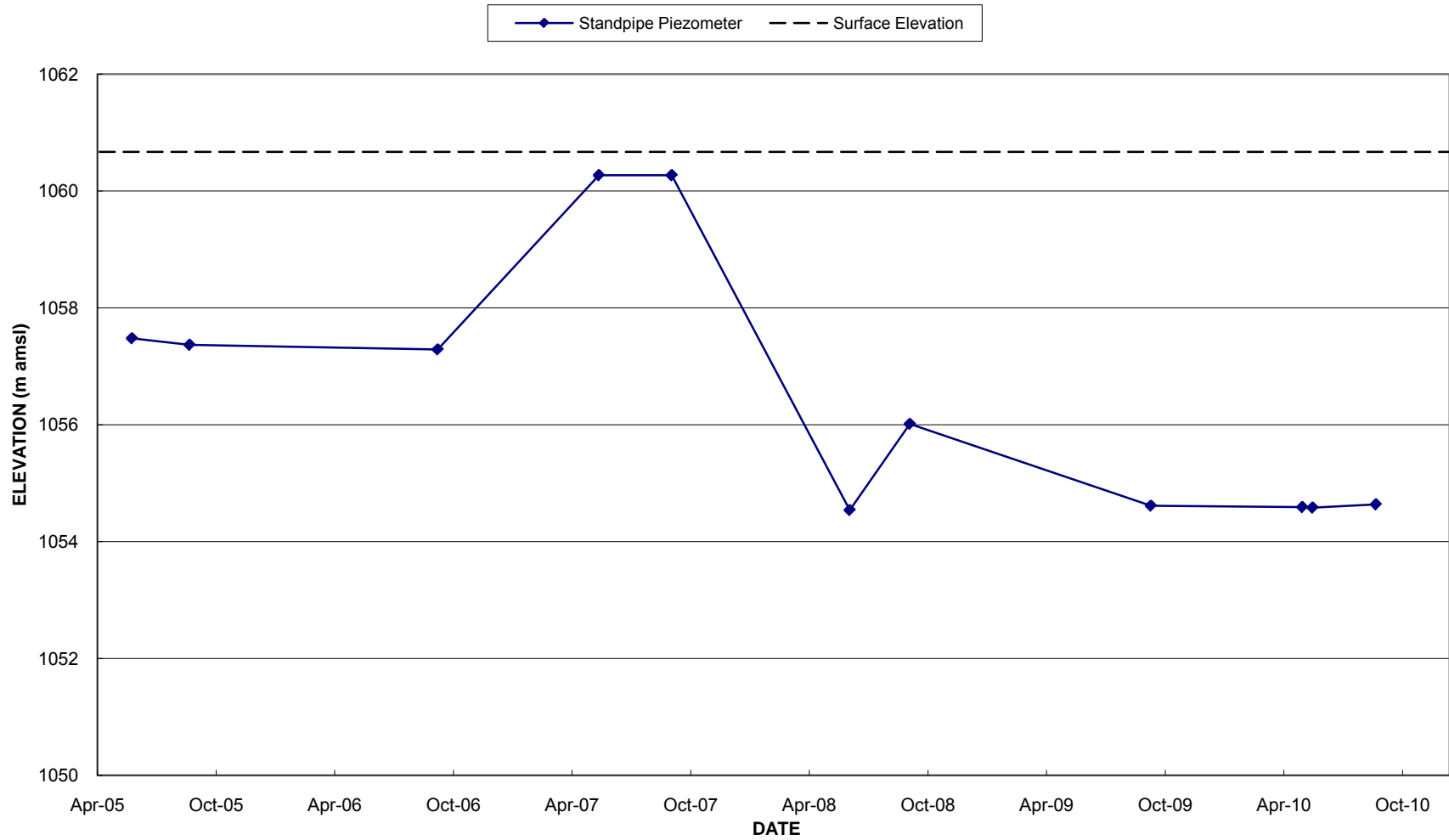
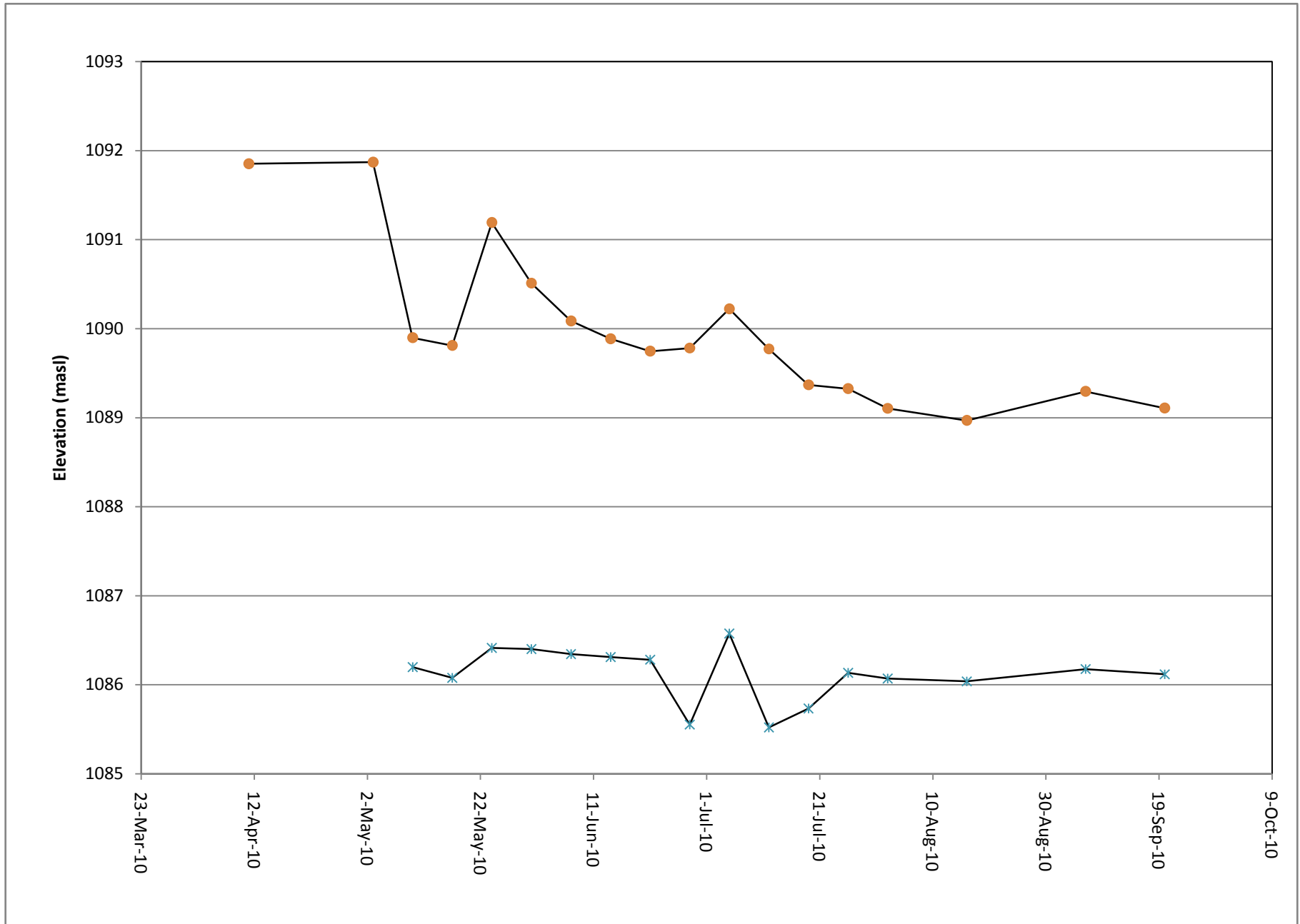


Figure H-44: North Fork of Rose Creek
2010 Water Elevations NF1 + NF2



**Figure H-45: Faro Creek Diversion Channel
 FCD-1 and FCD-2 Discharge Comparison 2010**

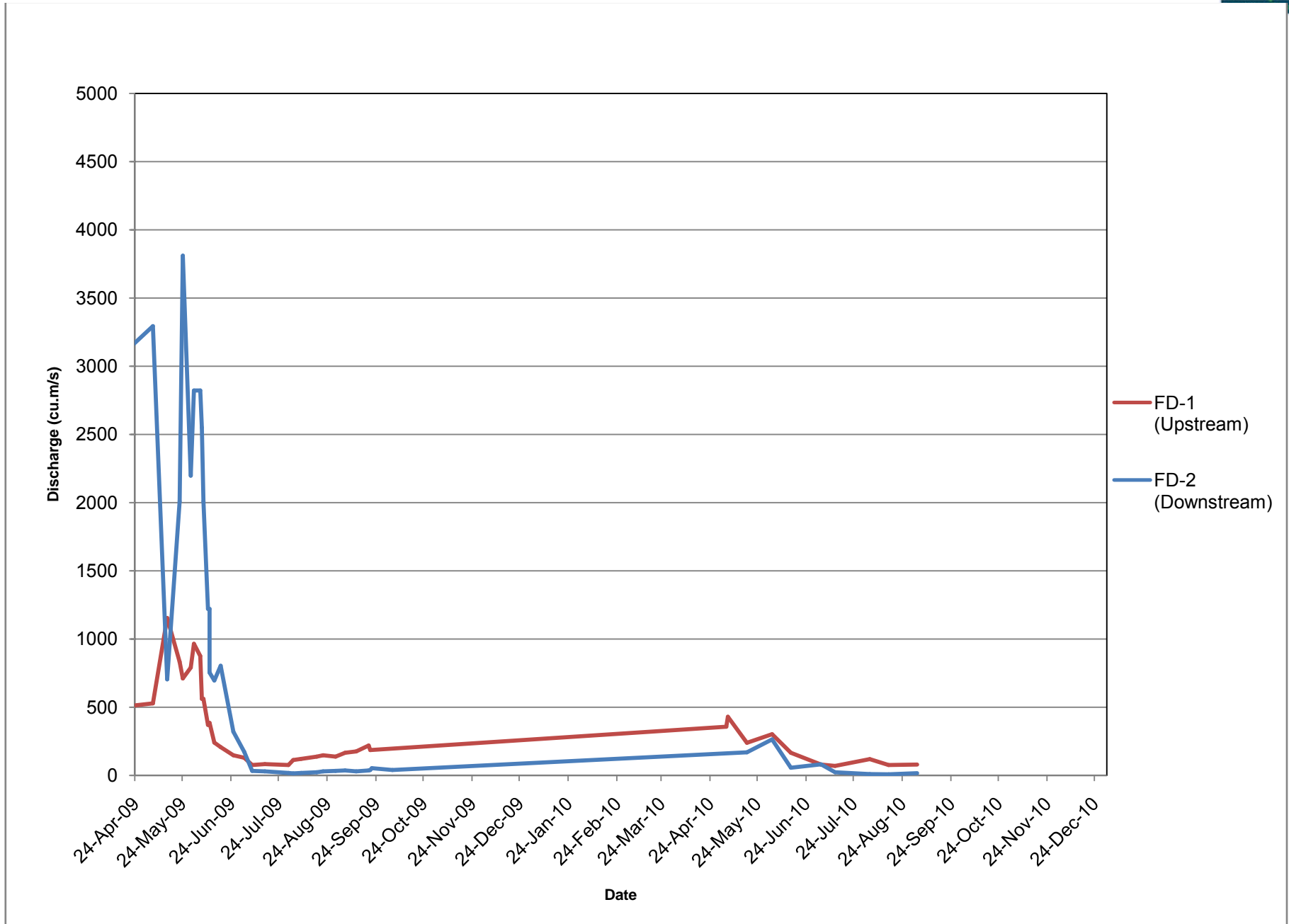


Figure H-46: NE Grum Pit - South of Transformer Station

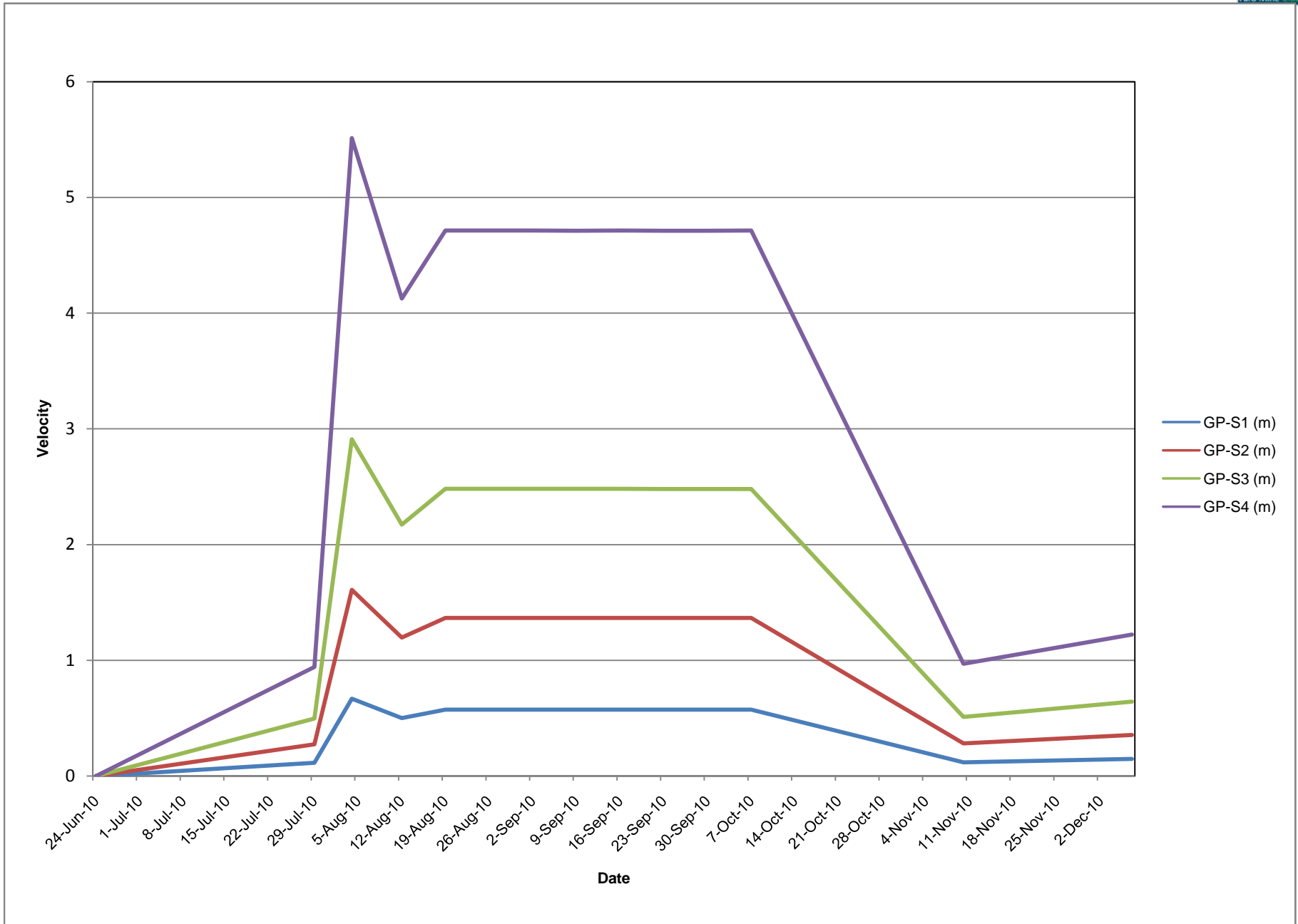


Figure H-47: NE Grum Pit - North of Transformer Station

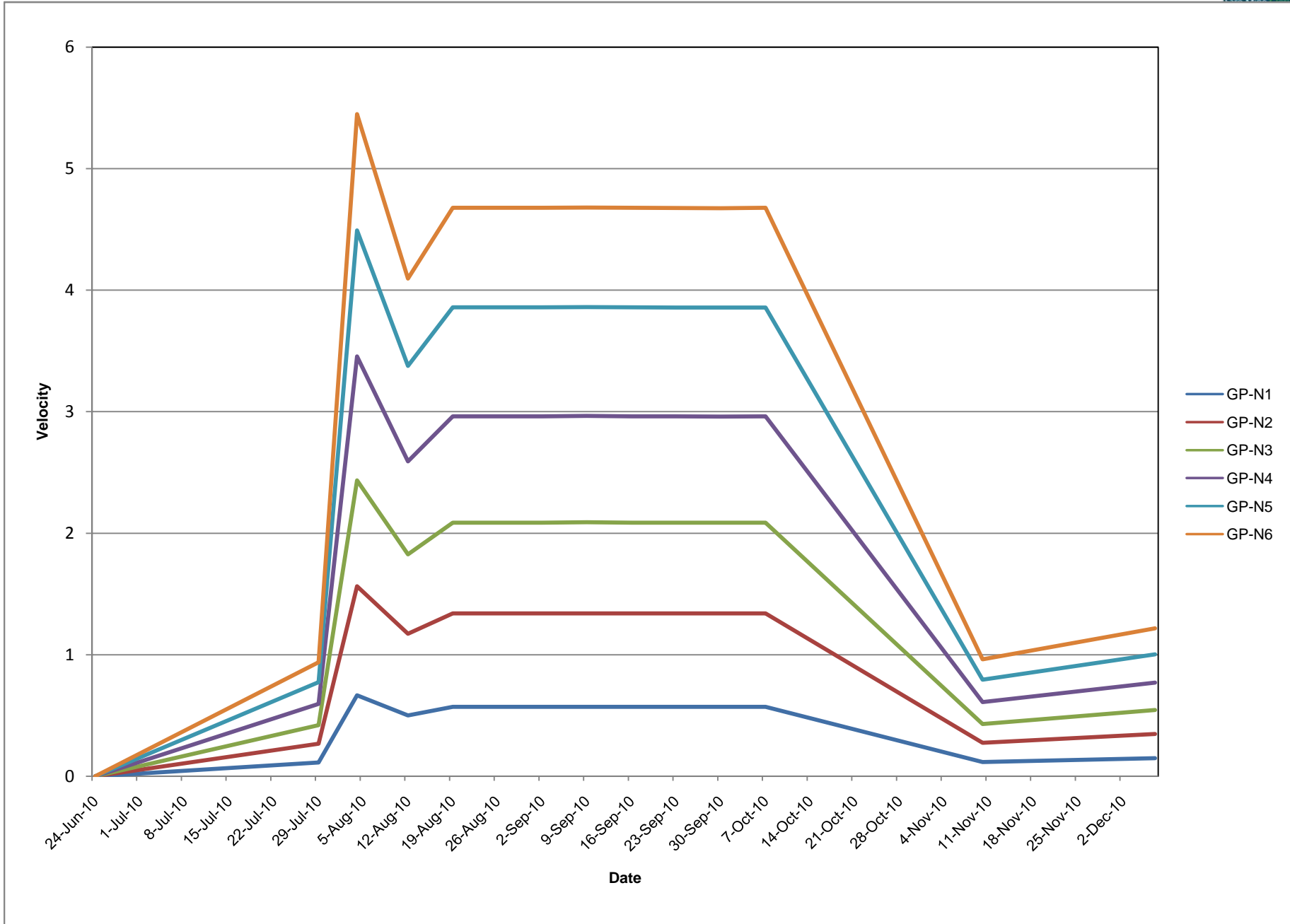


Figure H-48: Little Creek Dam
Thermistor BH94 LCD-4

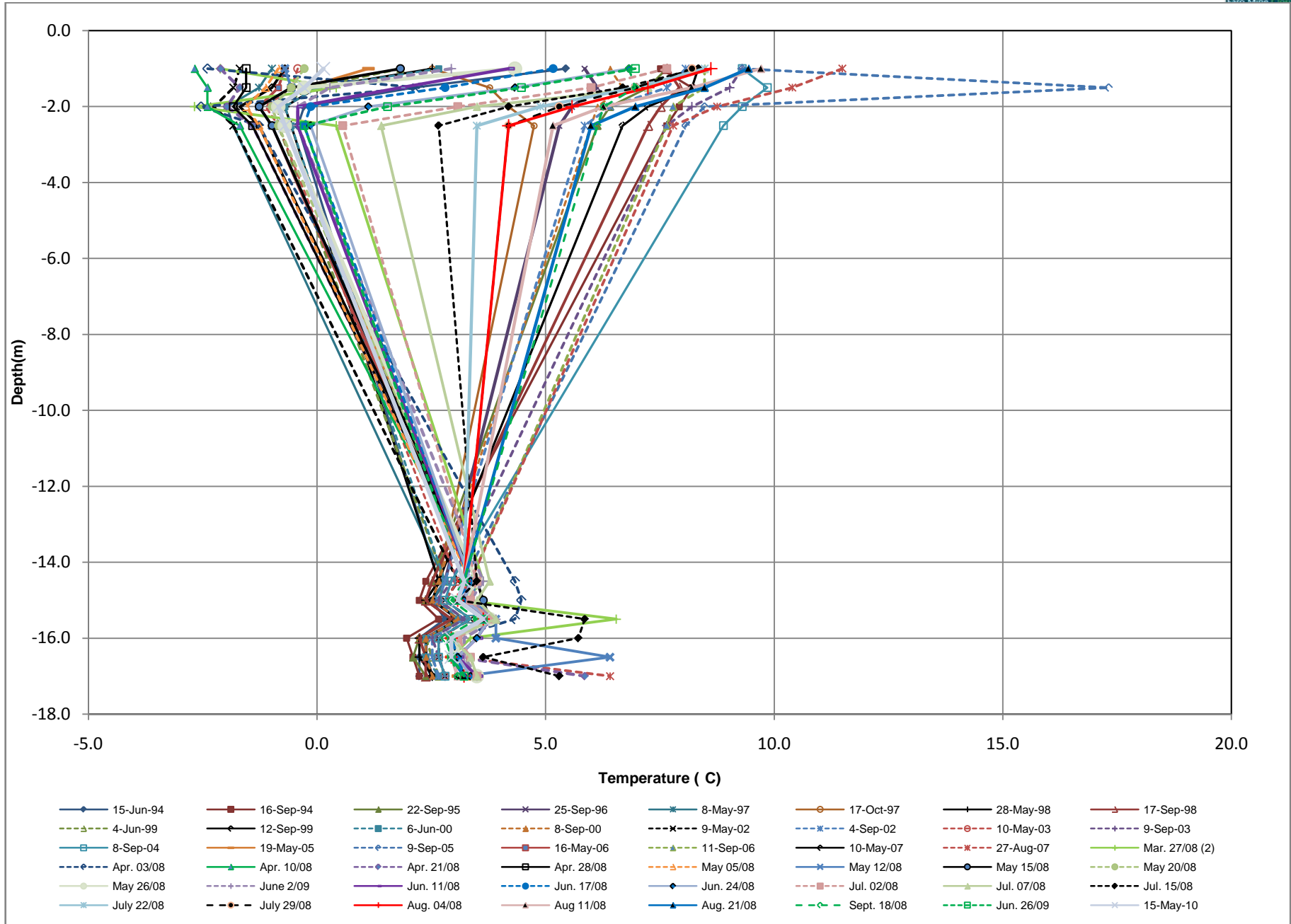


Figure H-49: Little Creek Dam
Thermistor BH94 LCD-5

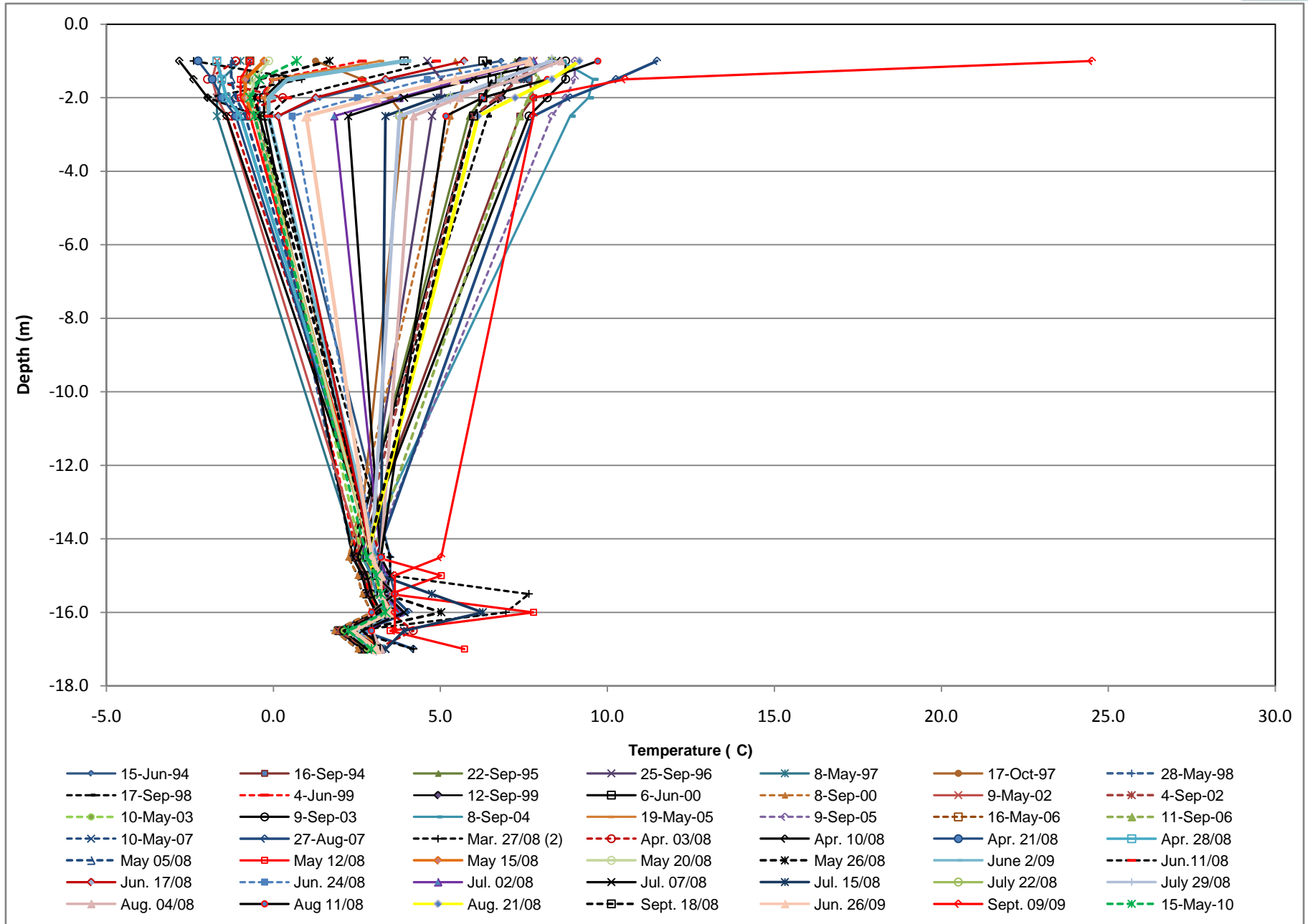


Figure H-50: Little Creek Dam
Thermistor BH94 LCD-6

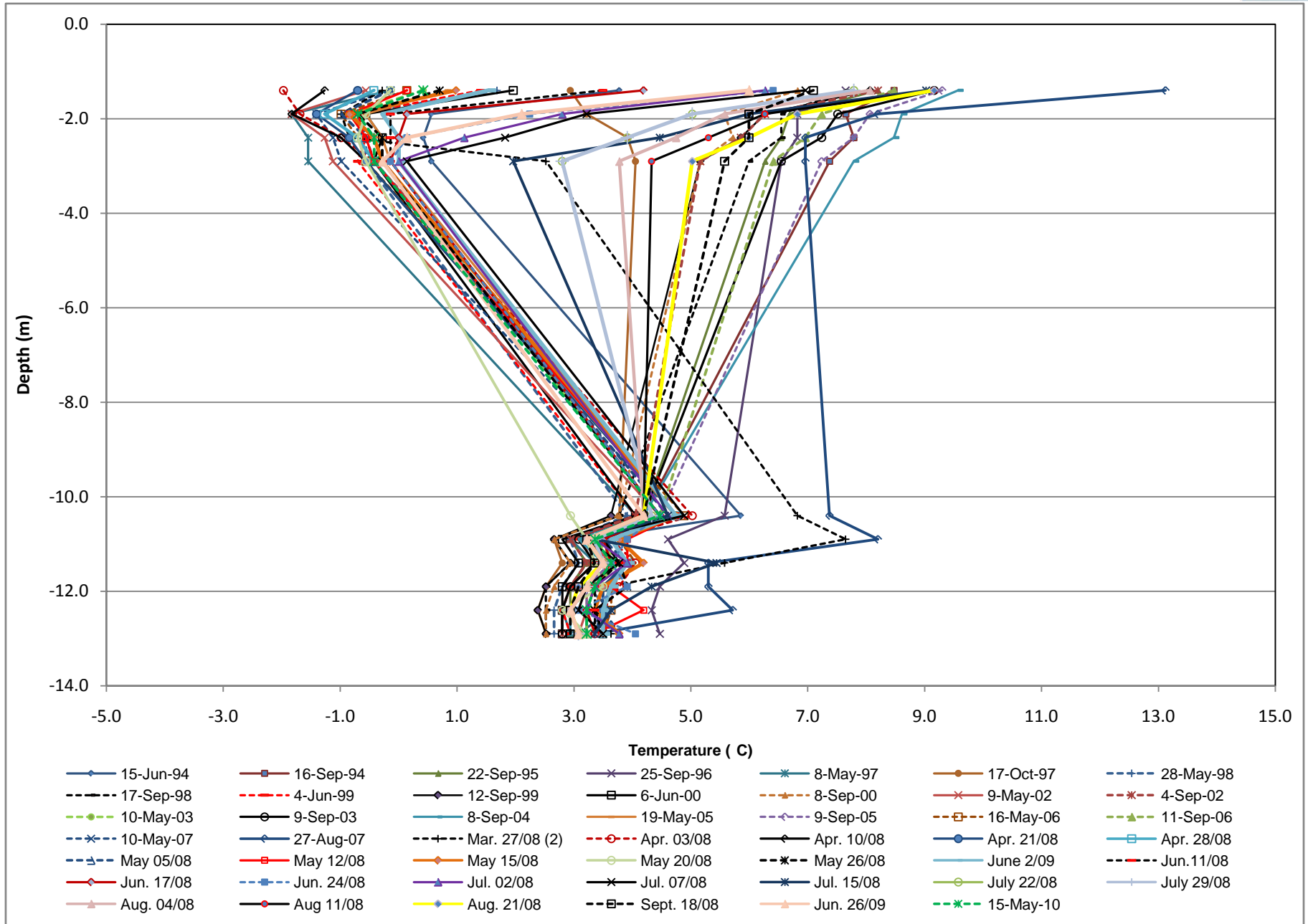


Figure H-51: Little Creek Dam Pneumatic Piezometer BH94 LCD-1

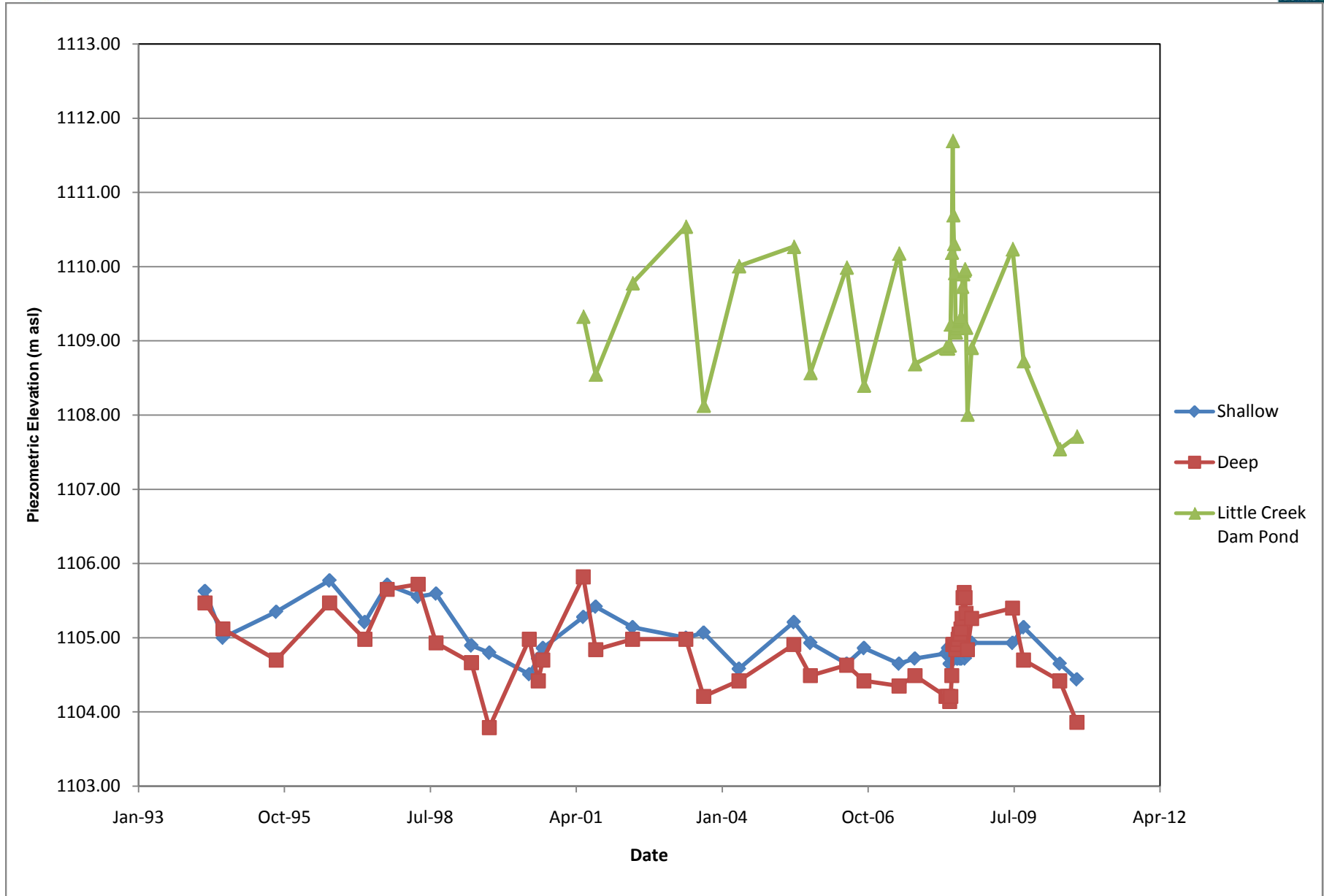


Figure H-52: Little Creek Dam
Pneumatic Piezometer BH94 LCD-2

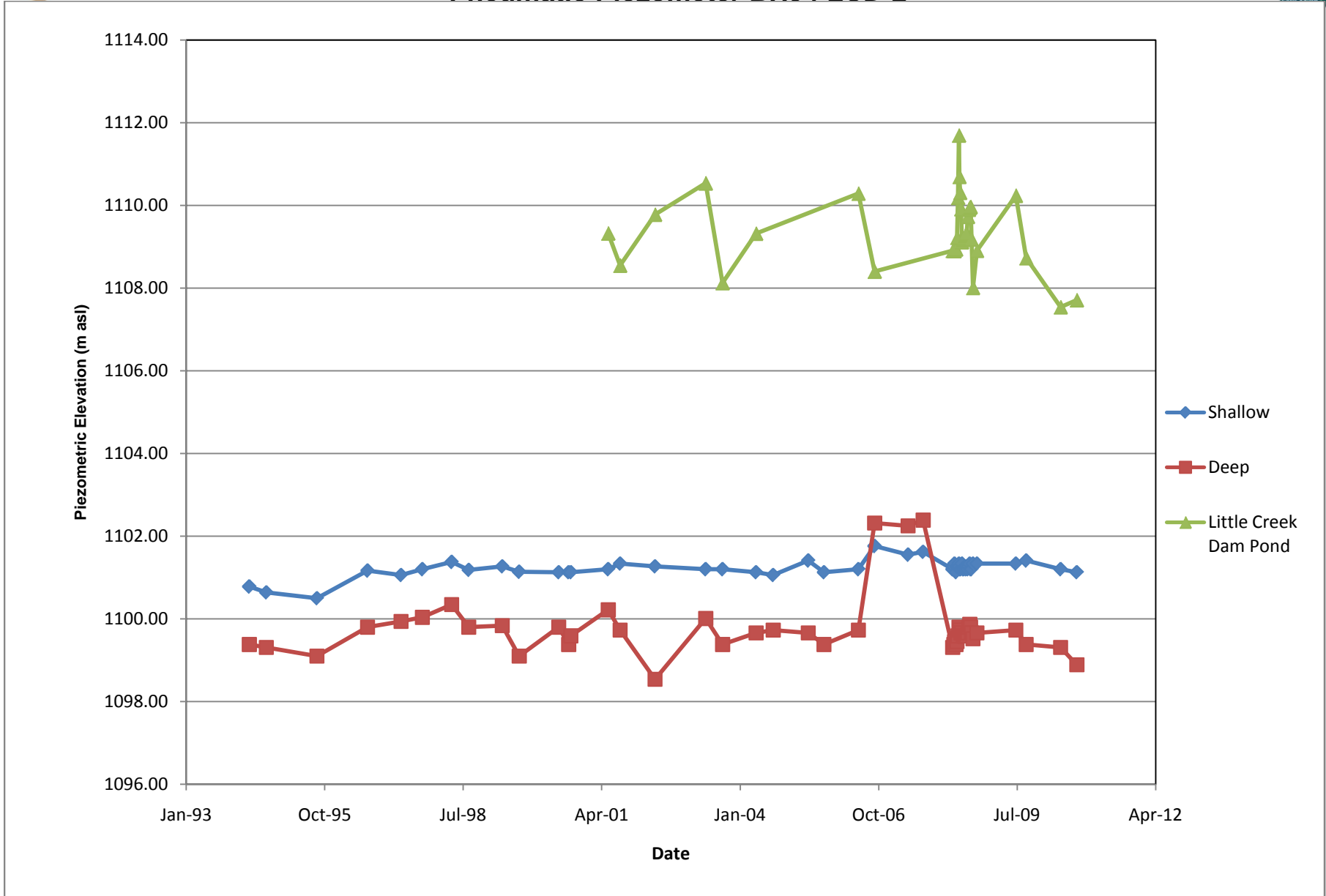


Figure H-53: Little Creek Dam Pneumatic Piezometer BH94 LCD-3

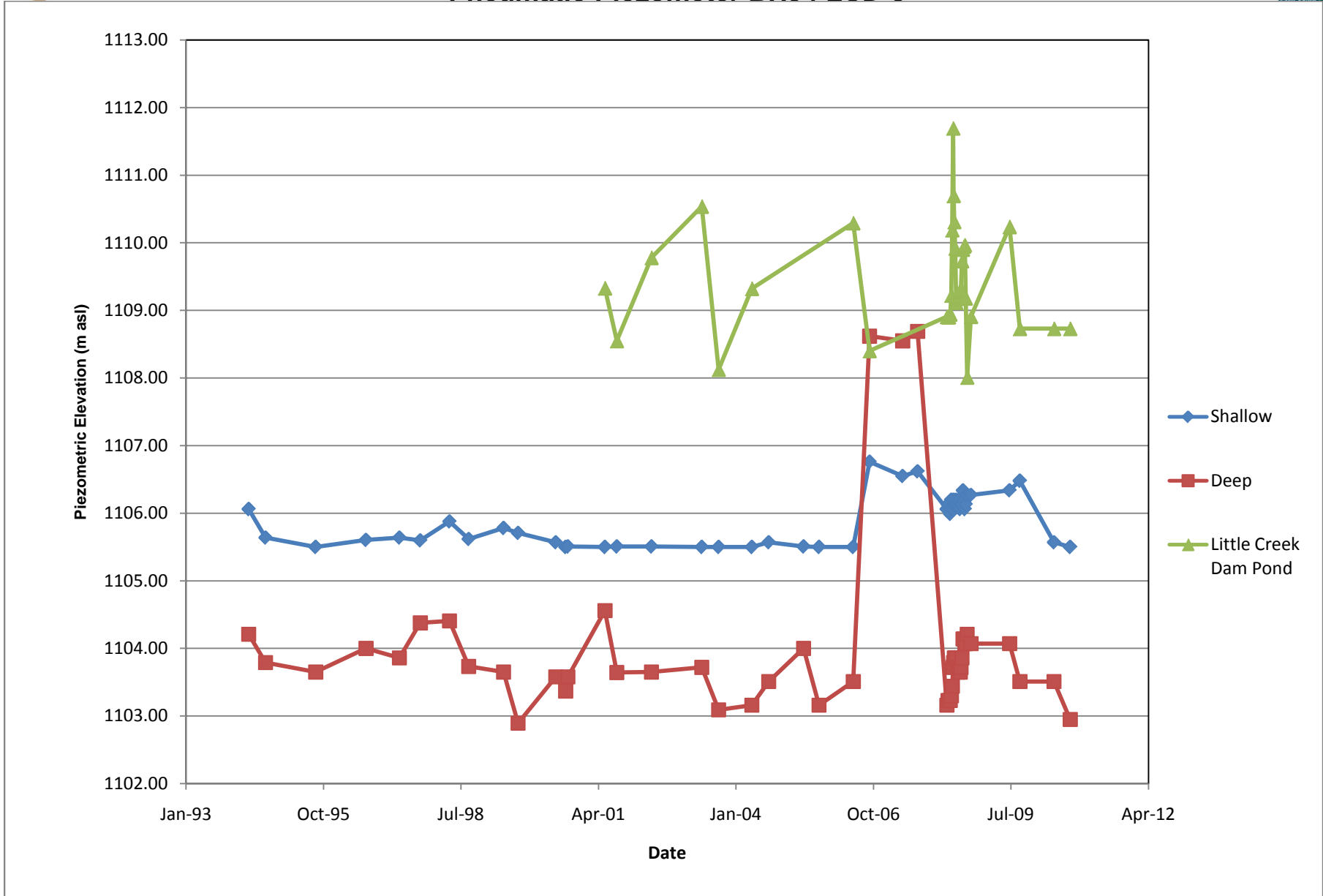


Figure H-54: Vangorda Waste Rock Dump Water Elevations (Section 'A')

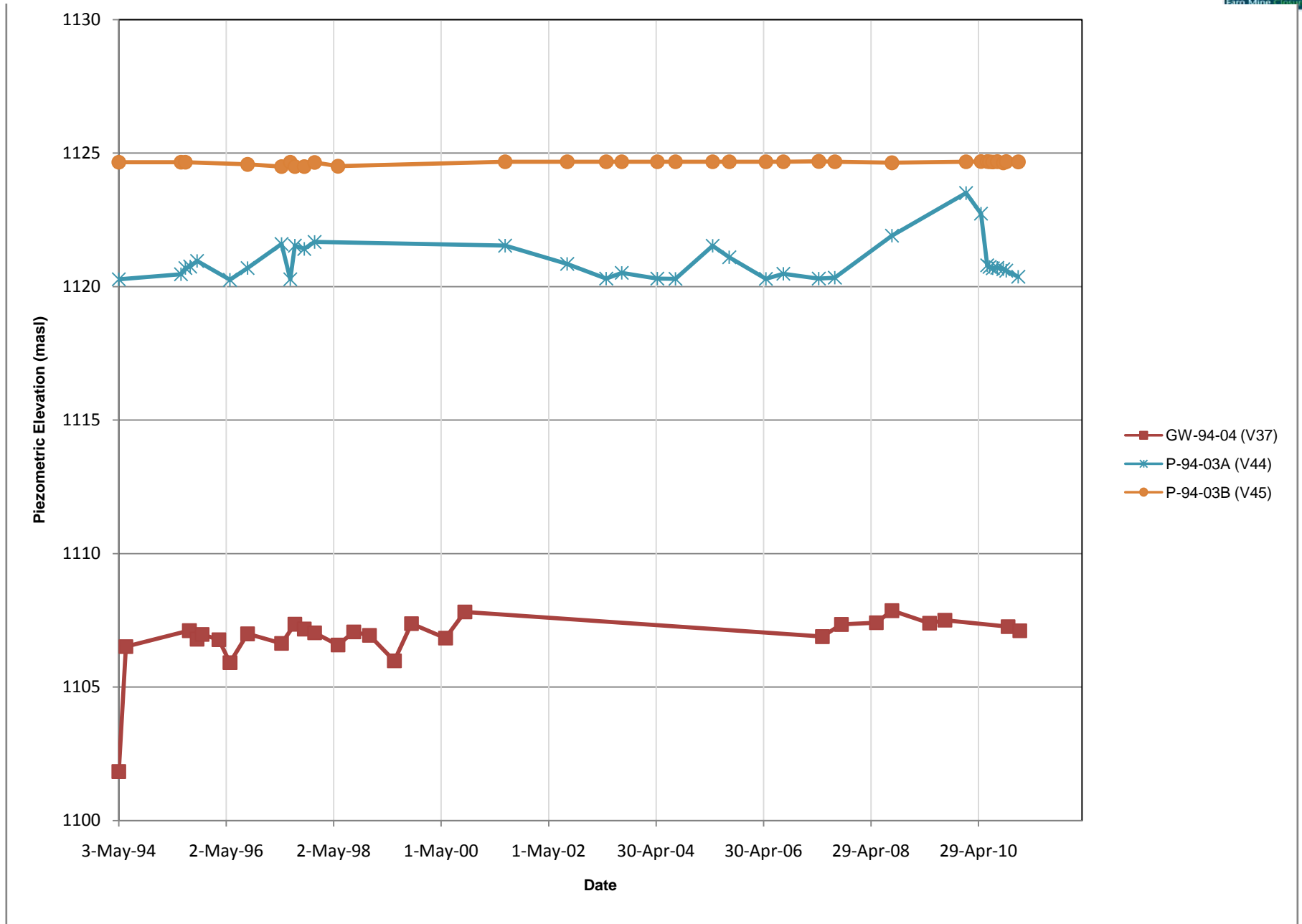


Figure H-55: Vangorda Waste Rock Dump Water Elevations (Section 'B')

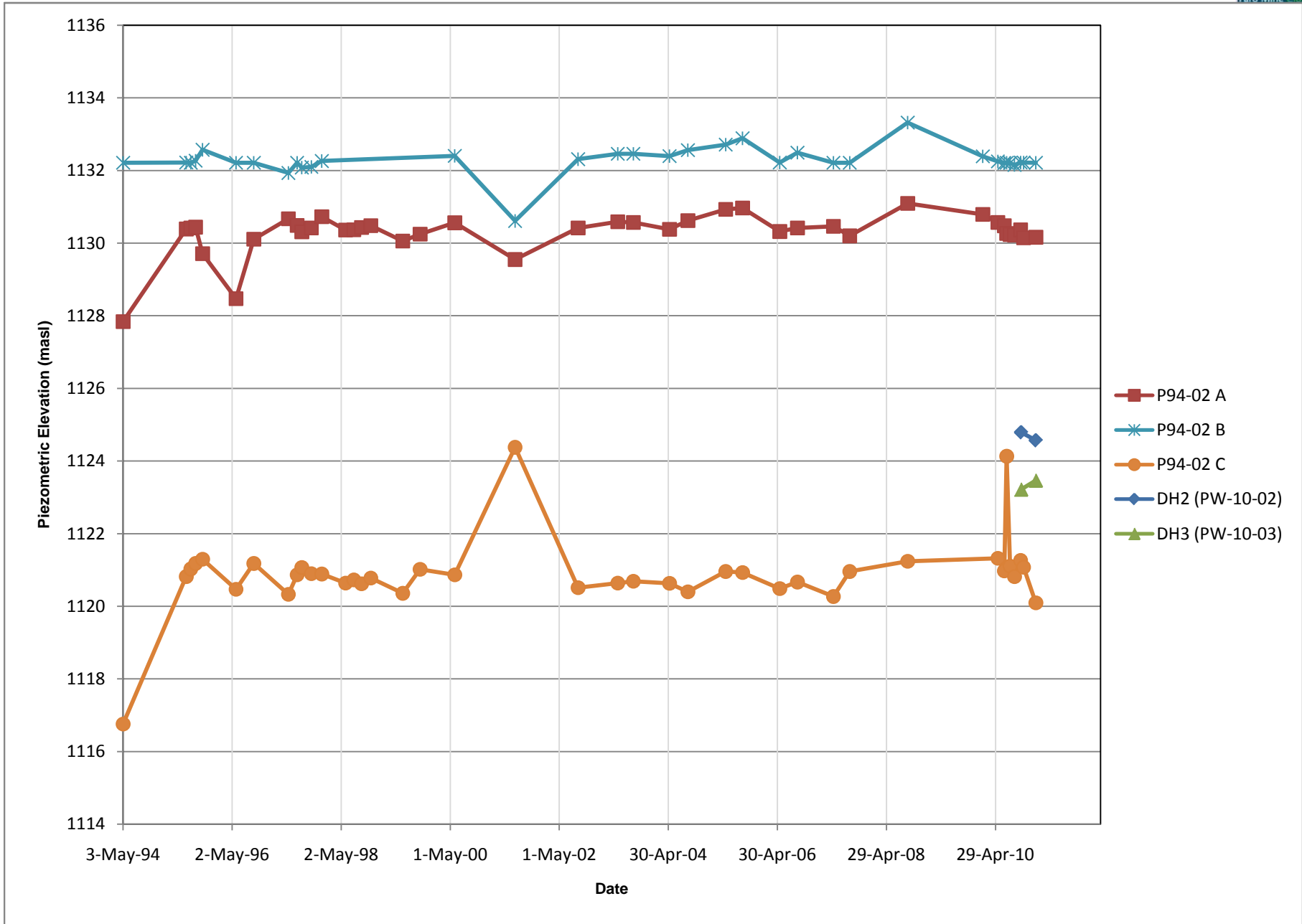


Figure H-56: Vangorda Waste Rock Dump Water Elevations (Section 'C')

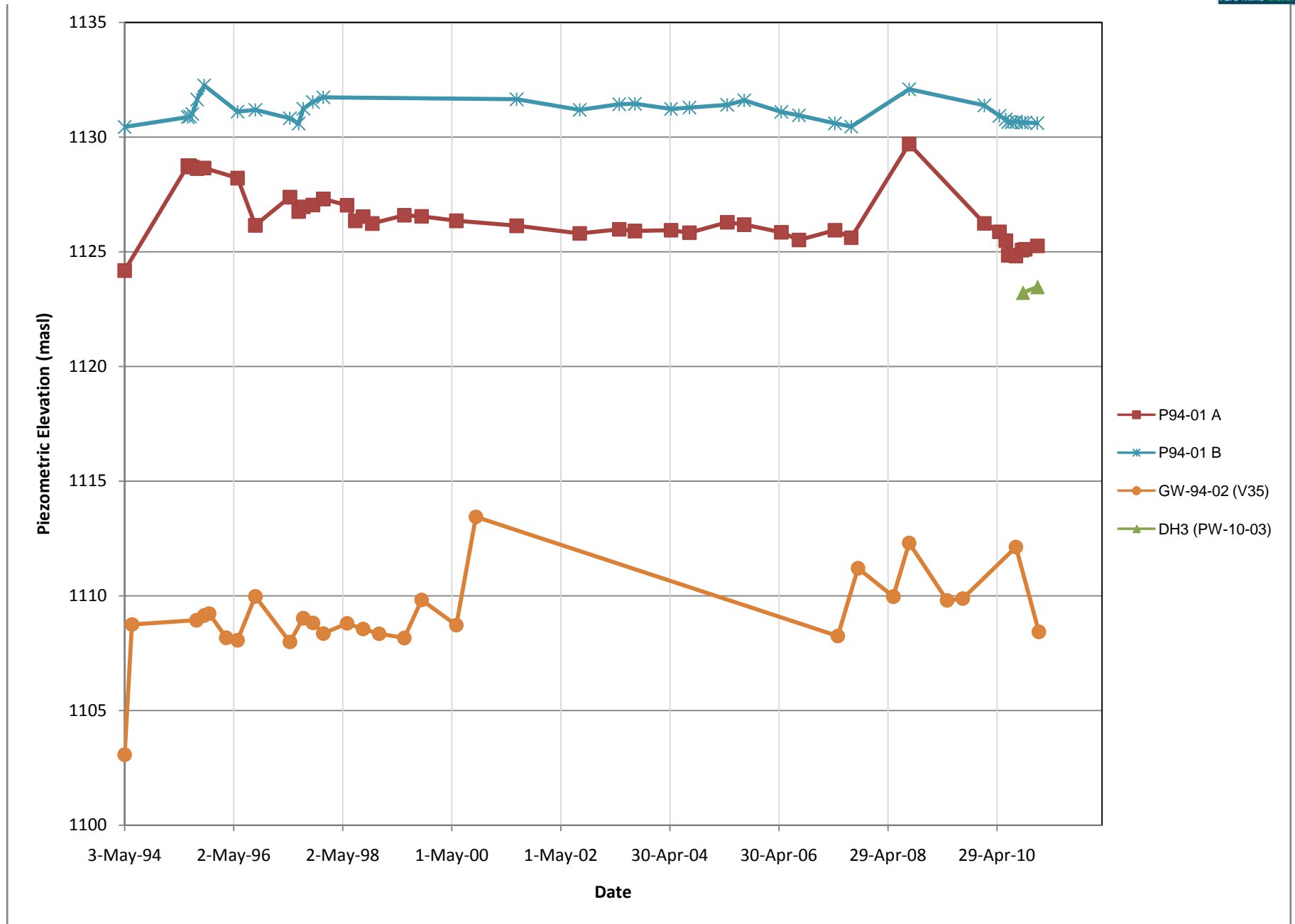


Figure H-58: Vangorda Waste Rock Dump Water Elevations (Section 'E')

