



Pre-Permitting Environmental / Socio-Economic Data Report Series

Report Series D- Groundwater Hydrology Data

Report D-2 (Data)

Monthly Groundwater Elevations - Small Pool Piezometer Data

October 16, 2004 - February 23, 2008

Submitted to the Pebble Limited Partnership June 2008

Preliminary data. Do not cite or quote.

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

**PRE-PERMITTING
ENVIRONMENTAL SOCIOECONOMIC DATA
REPORT SERIES**

**REPORT SERIES D:
GROUNDWATER HYDROLOGY**

**SECTION 2 -
MONTHLY GROUNDWATER ELEVATIONS -
SMALL POOL PIEZOMETER DATA**

Section 2
Monthly Groundwater Elevations – Small Pool Piezometer Data

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Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-P02S	19-Jul-06	1126.00	7.77	1118.23
	16-Aug-06	1126.00	3.45	1122.55
	20-Sep-06	1126.00	5.45	1120.55
	19-Oct-06	1126.00	4.80	1121.20
	10-Feb-07	1126.00	7.75	1118.25
	10-Mar-07	1126.00	7.70	1118.30
	14-Aug-07	1126.00	7.58	1118.42
	20-Sep-07	1126.00	2.45	1123.55
	20-Oct-07	1126.00	6.58	1119.42
	07-Nov-07	1126.00	5.40	1120.60
07-Dec-07	1126.00	5.90	1120.10	
WL-P03D	13-Jan-06	1152.00	5.75	1146.25
	08-Mar-06	1152.00	9.99	1142.01
	15-Apr-06	1152.00	11.95	1140.05
	17-May-06	1152.00	10.24	1141.76
	13-Jun-06	1152.00	5.78	1146.22
	19-Jul-06	1152.00	5.64	1146.36
	19-Oct-06	1152.00	2.89	1149.11
	17-Nov-06	1152.00	5.45	1146.55
	07-Dec-06	1152.00	6.73	1145.27
	20-Jan-07	1152.00	9.22	1142.78
	10-Feb-07	1152.00	8.32	1143.68
	10-Mar-07	1152.00	10.12	1141.88
	20-Oct-07	1152.00	4.25	1147.75
	07-Nov-07	1152.00	3.59	1148.41
	07-Dec-07	1152.00	4.18	1147.82
25-Jan-08	1152.00	5.92	1146.08	
WL-P03S	19-Jul-06	1160.00	5.09	1154.91
	16-Aug-06	1160.00	3.85	1156.15
	20-Sep-06	1160.00	3.71	1156.29
	17-Oct-06	1160.00	3.49	1156.51
	17-Nov-06	1160.00	5.15	1154.85
	07-Dec-06	1160.00	6.19	1153.81
	11-Jul-07	1160.00	4.80	1155.20
	14-Aug-07	1160.00	5.20	1154.80
	20-Sep-07	1160.00	3.08	1156.92
	20-Oct-07	1160.00	3.80	1156.20
07-Nov-07	1160.00	3.59	1156.41	
07-Dec-07	1160.00	3.84	1156.16	

Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-P04D	14-Jun-06	1002.00	4.84	997.16
	19-Jul-06	1002.00	4.82	997.18
	15-Aug-06	1002.00	2.50	999.50
	19-Sep-06	1002.00	2.85	999.15
	18-Oct-06	1002.00	1.86	1000.14
	18-Nov-06	1002.00	5.30	996.70
	07-Dec-06	1002.00	6.55	995.45
	22-Jan-07	1002.00	8.80	993.20
	11-Feb-07	1002.00	7.84	994.16
	11-Mar-07	1002.00	9.55	992.45
	11-Apr-07	1002.00	10.60	991.40
	07-May-07	1002.00	7.90	994.10
	14-Jun-07	1002.00	5.74	996.26
	10-Jul-07	1002.00	5.10	996.90
	19-Sep-07	1002.00	1.82	1000.18
05-Dec-07	1002.00	2.90	999.10	
WL-P04S	14-Jun-06	1009.00	5.57	1003.43
	19-Jul-06	1009.00	5.63	1003.37
	15-Aug-06	1009.00	3.48	1005.52
	19-Sep-06	1009.00	4.10	1004.90
	18-Oct-06	1009.00	2.90	1006.10
	18-Nov-06	1009.00	5.82	1003.18
	19-Sep-07	1009.00	3.44	1005.56
	18-Oct-07	1009.00	4.46	1004.54
	05-Dec-07	1009.00	4.72	1004.28
WL-P05D	14-Feb-06	1008.00	12.65	995.35
	14-Jun-06	1008.00	13.89	994.11
	19-Jul-06	1008.00	12.49	995.51
	16-Aug-06	1008.00	12.35	995.65
	19-Sep-06	1008.00	12.95	995.05
	18-Oct-06	1008.00	12.40	995.60
	19-Sep-07	1008.00	12.62	995.38
	18-Oct-07	1008.00	13.83	994.17
	06-Nov-07	1008.00	13.83	994.17
WL-P05S	18-Feb-08	1008.00	13.88	994.12
	19-Jul-06	1004.00	7.77	996.23
	16-Aug-06	1004.00	5.93	998.07
	19-Sep-06	1004.00	7.27	996.73
	18-Oct-06	1004.00	7.61	996.39
	18-Nov-06	1004.00	7.80	996.20
	10-Jul-07	1004.00	4.85	999.15
	19-Sep-07	1004.00	5.67	998.33
18-Oct-07	1004.00	7.79	996.21	
05-Dec-07	1004.00	7.62	996.38	

Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-P06D	13-Jan-06	1005.00	9.45	995.55
	19-Jul-06	1005.00	7.85	997.15
	15-Aug-06	1005.00	7.10	997.90
	19-Sep-06	1005.00	7.00	998.00
	18-Oct-06	1005.00	6.41	998.59
	18-Nov-06	1005.00	9.65	995.35
	07-Dec-06	1005.00	10.70	994.30
	10-Jul-07	1005.00	9.86	995.14
	14-Aug-07	1005.00	10.97	994.03
	19-Sep-07	1005.00	3.19	1001.81
	18-Oct-07	1005.00	6.67	998.33
	06-Nov-07	1005.00	5.61	999.39
	05-Dec-07	1005.00	7.09	997.91
	18-Feb-08	1005.00	11.30	993.70
WL-P06S	14-Jun-06	1006.00	2.95	1003.05
	19-Jul-06	1006.00	4.94	1001.06
	15-Aug-06	1006.00	2.74	1003.26
	19-Sep-06	1006.00	3.85	1002.15
	18-Oct-06	1006.00	3.80	1002.20
	14-Jun-07	1006.00	4.30	1001.70
	10-Jul-07	1006.00	5.21	1000.79
	19-Sep-07	1006.00	6.50	999.50
	18-Oct-07	1006.00	5.16	1000.84
	06-Nov-07	1006.00	3.54	1002.46
	05-Dec-07	1006.00	5.40	1000.60
WL-P07D	13-Jan-06	845.00	6.80	838.20
	07-Mar-06	845.00	9.84	835.16
	20-Sep-06	845.00	10.18	834.82
	18-Oct-06	845.00	7.90	837.10
	18-Nov-06	845.00	7.36	837.64
	06-Dec-06	845.00	7.50	837.50
	24-Jan-07	845.00	8.90	836.10
	05-Dec-07	845.00	8.80	836.20
	19-Jan-08	845.00	8.50	836.50
WL-P07S	13-Jun-06	842.00	7.52	834.48
	19-Jul-06	842.00	7.78	834.22
	18-Oct-06	842.00	6.62	835.38
	18-Nov-06	842.00	6.75	835.25
	06-Dec-06	842.00	6.20	835.80
	05-Dec-07	842.00	7.26	834.74

Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-P08D	13-Jan-06	831.00	5.70	825.30
	14-Feb-06	831.00	7.73	823.27
	07-Mar-06	831.00	8.98	822.02
	13-Jun-06	831.00	10.72	820.28
	19-Jul-06	831.00	9.20	821.80
	16-Aug-06	831.00	8.35	822.65
	20-Sep-06	831.00	8.48	822.52
	18-Oct-06	831.00	7.00	824.00
	18-Nov-06	831.00	6.40	824.60
	06-Dec-06	831.00	6.15	824.85
	24-Jan-07	831.00	7.28	823.72
	18-Oct-07	831.00	10.90	820.10
	06-Nov-07	831.00	8.20	822.80
	05-Dec-07	831.00	7.19	823.81
	19-Jan-08	831.00	7.02	823.98
	23-Feb-08	831.00	7.50	823.50
WL-P08S	13-Jan-06	828.00	7.63	820.37
	18-Nov-06	828.00	7.20	820.80
	06-Dec-06	828.00	6.91	821.09
WL-P09D	18-Nov-06	832.00	10.07	821.93
	06-Dec-06	832.00	8.10	823.90
	24-Jan-07	832.00	9.40	822.60
	12-Feb-07	832.00	11.10	820.90
WL-P09S	13-Jan-06	788.00	7.67	780.33
WL-P11D	13-Jun-06	885.00	7.30	877.70
	19-Jul-06	885.00	8.74	876.26
	16-Aug-06	885.00	11.94	873.06
	20-Sep-06	885.00	10.36	874.64
	18-Oct-06	885.00	10.39	874.61
	18-Nov-06	885.00	12.07	872.93
	06-Dec-06	885.00	13.20	871.80
	19-Sep-07	885.00	11.70	873.30
	18-Oct-07	885.00	9.78	875.22
	06-Nov-07	885.00	11.51	873.49
05-Dec-07	885.00	12.43	872.57	
WL-P11S	19-Jul-06	839.00	7.47	831.53
	16-Aug-06	839.00	6.90	832.10
	20-Sep-06	839.00	7.65	831.35
	18-Oct-06	839.00	7.44	831.56
	06-Dec-06	839.00	7.74	831.26
WL-P15D	09-Nov-07	1230.73	2.51	1228.22
	09-Dec-07	1230.73	2.59	1228.14
WL-P15S	09-Nov-07	1232.81	4.71	1228.10
	09-Dec-07	1232.81	4.69	1228.12
WL-P16D	09-Nov-07	1220.03	4.71	1215.32
	09-Dec-07	1220.03	5.48	1214.55
	24-Jan-08	1220.03	6.86	1213.17

Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-P16S	09-Nov-07	1220.42	5.27	1215.15
	09-Dec-07	1220.42	5.38	1215.04
WL-P17D	08-Nov-07	1214.79	5.60	1209.19
	09-Dec-07	1214.79	5.75	1209.04
	24-Jan-08	1214.79	6.14	1208.65
	20-Feb-08	1214.79	6.83	1207.96
WL-P17S	08-Nov-07	1215.28	6.01	1209.27
	09-Dec-07	1215.28	6.03	1209.25
	24-Jan-08	1215.28	6.82	1208.46
	20-Feb-08	1215.28	7.43	1207.85
WL-P18D	08-Nov-07	1208.64	5.73	1202.91
	09-Dec-07	1208.64	5.55	1203.09
	24-Jan-08	1208.64	6.68	1201.96
	20-Feb-08	1208.64	8.17	1200.47
WL-P18S	08-Nov-07	1206.86	3.92	1202.94
	09-Dec-07	1206.86	4.04	1202.82
	24-Jan-08	1206.86	4.92	1201.94
	20-Feb-08	1206.86	5.17	1201.69
WL-P19D	09-Nov-07	784.74	9.30	775.44
	08-Dec-07	784.74	9.30	775.44
	18-Jan-08	784.74	10.38	774.36
	20-Feb-08	784.74	11.40	773.34
WL-P19S	09-Nov-07	785.21	5.22	779.99
	08-Dec-07	785.21	5.07	780.14
WL-P20D	09-Nov-07	792.03	2.73	789.30
	09-Nov-07	792.09	4.22	787.87
WL-P21D	09-Nov-07	791.66	2.34	789.32
WL-P21S	09-Nov-07	791.58	3.08	788.50
WL-P22D	09-Nov-07	877.26	5.47	871.79
	08-Dec-07	877.26	5.24	872.02
WL-P22S	09-Nov-07	878.23	6.49	871.74
	08-Dec-07	878.23	7.59	870.64
WL-P23D	09-Nov-07	877.40	7.98	869.42
	08-Dec-07	877.40	10.14	867.26
	26-Jan-08	877.40	16.22	861.18
WL-P23S	09-Nov-07	876.63	5.53	871.10
	08-Dec-07	876.63	7.79	868.84
WL-P24D	09-Nov-07	832.46	8.09	824.37
	09-Dec-07	832.46	8.37	824.09
	26-Jan-08	832.46	9.08	823.38
	20-Feb-08	832.46	9.40	823.06
WL-P24S	09-Nov-07	833.59	9.63	823.96
	09-Dec-07	833.59	9.47	824.12
	26-Jan-08	833.59	9.91	823.68
	20-Feb-08	833.59	10.50	823.09
WL-P25D	09-Nov-07	830.52	6.00	824.52
	09-Dec-07	830.52	5.69	824.83

Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-P25S	09-Nov-07	830.00	5.72	824.28
	09-Dec-07	830.00	5.14	824.86
WL-P26D	09-Nov-07	830.16	4.33	825.83
	09-Dec-07	830.16	3.60	826.56
WL-P26S	09-Nov-07	830.07	5.21	824.86
	09-Dec-07	830.07	4.71	825.36
	26-Jan-08	830.07	4.61	825.46
WL-S01D	14-Jun-06	1148.00	3.25	1144.75
	19-Jul-06	1148.00	2.87	1145.13
	08-May-07	1148.00	2.00	1146.00
WL-S01G	19-Jul-06	1146.00	0.76	1145.24
WL-S01S	14-Jun-06	1151.00	3.86	1147.14
	19-Jul-06	1151.00	4.11	1146.89
	08-May-07	1151.00	3.12	1147.88
WL-S02D	14-Jun-06	1146.00	3.05	1142.95
	19-Jul-06	1146.00	2.94	1143.06
WL-S02G	19-Jul-06	1159.00	1.69	1157.31
WL-S02S	14-Jun-06	1151.00	3.08	1147.92
	19-Jul-06	1151.00	2.91	1148.09
WL-S03D	19-Jul-06	992.00	2.59	989.41
WL-S03G	19-Jul-06	1001.00	1.54	999.46
	10-Jul-07	1001.00	1.10	999.90
WL-S03S	19-Jul-06	992.00	2.93	989.07
WL-S04G	19-Jul-06	1000.00	1.29	998.71
WL-S05D	13-Jan-06	835.00	3.85	831.15
	14-Feb-06	835.00	3.03	831.97
	07-Mar-06	835.00	8.50	826.50
	17-May-06	835.00	11.90	823.10
	14-Jun-06	835.00	8.13	826.87
	19-Jul-06	835.00	8.04	826.96
	18-Oct-06	835.00	6.27	828.73
	18-Nov-06	835.00	5.31	829.69
	06-Dec-06	835.00	4.20	830.80
	24-Jan-07	835.00	4.96	830.04
	12-Feb-07	835.00	6.30	828.70
	11-Apr-07	835.00	11.54	823.46
	07-May-07	835.00	12.52	822.48
05-Dec-07	835.00	3.81	831.19	
WL-S05G	19-Jul-06	844.00	1.36	842.64
WL-S05S	17-May-06	846.00	2.84	843.16
	14-Jun-06	846.00	6.77	839.23
	19-Jul-06	846.00	5.63	840.37
	07-May-07	846.00	7.62	838.38
	18-Oct-07	846.00	5.90	840.10

Well	Date	PVC Elevation (ft)	DTW	Water Elevation (ft)
WL-S06D	17-May-06	790.00	11.50	778.50
	13-Jun-06	790.00	6.72	783.28
	19-Jul-06	790.00	7.48	782.52
	16-Aug-06	790.00	7.83	782.17
	20-Sep-06	790.00	7.59	782.41
	18-Oct-06	790.00	4.74	785.26
WL-S06S	13-Jun-06	828.00	7.22	820.78
	19-Jul-06	828.00	7.59	820.41
	16-Aug-06	828.00	7.90	820.10
	20-Sep-06	828.00	7.88	820.12
	18-Oct-06	828.00	5.40	822.60
	11-Apr-07	828.00	5.25	822.75
WL-S07D	19-Jul-06	874.00	2.38	871.62
WL-S07G	19-Jul-06	851.00	1.60	849.40
	18-Oct-06	851.00	1.50	849.50
	18-Oct-07	851.00	1.65	849.35
WL-S07S	19-Jul-06	835.00	2.33	832.67
	14-Aug-07	835.00	6.96	828.04
	19-Sep-07	835.00	2.20	832.80