Appendix 6

GROUNDWATER MONITORING DATA

Site ID	Piezometer / Water Bore	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																			Major Cations					Major Anions												
						pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH Lab	EC - Lab - µs/cm	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Total Cations - meq/L	Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	NOX as N - mg/L	Total Dissolved Solids
P1	NG1	1-Nov-07	1450	52.02	53.00																																								
		17-Dec-07		50.02	51.00																																								
		23-Jan-08	1145	47.43	48.42																																								
		3-Mar-08	1230	46.53	47.51																																								
		2-Apr-08	1040	45.51	46.50																																								
		9-May-08	0826	44.25	45.23																																								
		2-Jun-08	1200	43.25	44.24																																								
		1-Jul-08	1150	42.00	42.98																																								
		11-Aug-08	1350	40.24	41.22																																								
		14-Aug-08	1047	40.15	41.13																																								
		19-Aug-08	0925	39.96	40.94																																								
		9-Sep-08	0830	42.82	43.80	7.6	470	20.8		0.008	0.684	0.003	0.0008	0.094	0.041	0.128	56.7	0.516	2.33	0.154	0.11	0.250	0.0001		3710	26	25	933	24	44.6	641	43	<1	<1	1190	1190	42.7	2.06	1.62				2380
		14-Nov-08	0956	45.86	46.84																																								
		3-Dec-08	1505	45.18	46.16																																								
		16-Feb-09	1255	42.24	43.22																																								
		11-Jun-09	1500							<0.001	0.237	<0.001	<0.0001	0.001	0.002	0.096	0.71	0.198	0.266	0.025	<0.1	0.235	<0.0001		3840	25	26	846	23	40.7	693	<10	<1	<1	1000	1000	39.6	1.33	0.24				2300
		17-Aug-09	0930	35.79	36.77	7.3	3920	23.5		0.009	0.954	0.002	0.0005	0.094	0.051	0.236	56.5	0.24	1.38	0.206	0.14	0.347	0.0002		4130	20	27	892	22	42.6	614	48.2	<1	<1	1120	1120	40.6	2.24	0.48				2520
		17-Nov-09	0920	42.30	43.28	7.21	2940	34.4		0.003	0.31	<0.001	0.0002	0.032	0.007	0.121	7.74	0.236	0.403	0.041	0.02	0.091	<0.0001		2370	7	20	471	13	22.8	346	40.4	<1	<1	624	624	23	0.57	0.35				1420
		24-Feb-10	1255	42.13	43.11																																								
		24-Jun-10	1515	37.00	37.98	7.44	4060	21	<0.01	<0.001				<0.005		0.006	<0.05	0.002	0.009	0.003		0.036	<0.0001	7.5	3810	23	29	928	28	44.6	662	44.2	<1	<1	1080	1080	41.2	3.9		<0.01	1.8	1.8	
		3-Sep-10	1100	34.86	35.84	7.53	3830	22.1																																					
		9-Feb-11	1340	30.08	31.06	7.31	2960	28.4	<0.01	<0.001				<0.005		0.019	<0.05	0.012	0.06	0.004		0.088	<0.0001	7.47	3770	19	22	792	22	37.8	680	39	<1	<1	957	957	39.1	1.78		<0.01	0.69	0.69	
P2	NG2	1-Nov-07	1420	30.58	31.50																																								
		17-Dec-07		29.58	30.50																																								
		23-Jan-08	1120	28.97	29.90																																								
		3-Mar-08	1655	29.48	30.40																																								
		2-Apr-08	1100	29.46	30.38																																								
		9-May-08	0846	29.45	30.38																																								
		2-Jun-08	1224	29.46	30.39																																								
		1-Jul-08	1215	29.43	30.35																																								
		11-Aug-08	1435	29.44	30.36																																								
		14-Aug-08	1105	29.45	30.37																																								
		19-Aug-08	1055	29.45	30.37																																								
		9-Sep-08	1030	29.88	30.80	7.2	15700	20.8		0.010	1.40	0.004	0.0006	0.024	0.029	0.057	33.4	0.091	2.96	0.048	0.06	0.093	<0.0001		17100	189	453	4060	126	227	5650	366	<1	<1	2550	2550	218	1.97	4.52				12900
		14-Nov-08	1012	29.64	30.56																																								
		3-Dec-08	1445	29.51	30.43																																								
		16-Feb-09	1329	29.32	30.23																																								
		11-Jun-09	1500							0.004	0.613	<0.001	<0.0001	0.016	0.021	0.025	8.81	0.124	2.44	0.039	0.02	0.108	<0.0001		19300	184	397	3770	90	208	5790	181	<1	<1	2890	2890	225	3.83	3.31				13400
		17-Aug-09	1125	29.33	30.24	6.5	33100	25.3		0.004	0.896	<0.001	0.0001	0.026	0.024	0.057	7.47	0.032	2.37	0.057	0.02	0.064	0.0002		20300	250	585	3650	83	222	5720	247	<1	<1	3000	3000	226	1.12	2.47				12800
		17-Nov-09	1020	29.31	30.22	6.58	20400	32.4		0.041	8.41	0.008	0.0009	0.215	0.103	0.463	167	0.152	4.64	0.284	0.25	0.493	0.0002		18900	6	434	3630	78	196	5300	276	<1	393	2360	2750	210	3.51	2.88				12800
		24-Feb-10	1220	29.29	30.20																																								
		24-Jun-10	1415	29.19	30.10	6.62	19740	21	<0.01	0.003				<0.005		0.002	<0.05	0.012	1.53	0.035		0.098	<0.0001	6.92	17200	115	465	3320	108	191	5960	362	<1	<1	<1	<1	176	4.22		<0.01	0.2	0.2	
		3-Sep-10	0930	29.06	29.97	6.8	19650	21.5																																					
		8-Feb-11	1030	29.07	29.98	6.27	17090	25	0.01	0.005				<0.005		0.01	<0.05	0.002	1.64	1.64		0.013	<0.0001	6.45	20600	170	440	4520	91	244	6080	408	<1	<1	3380	3380	248	0.82		<0.01	<0.01	<0.01	
P3	NG3	1-Nov-07	1530	9.92	10.85																																								
		17-Dec-07		10.07	11.00																																								
		23-Jan-08	1400	9.32	10.25																																								
		3-Mar-08	1640	9.87	10.80																																								
		2-Apr-08	1200	9.89	10.83																																								
		9-May-08	1002	9.90	10.83																																								
		2-Jun-08	1353	9.90	10.84																																								
		1-Jul-08	1345	9.91	10.84																																								
		11-Aug-08	1610	9.92	10.85																																								
		9-Sep-08	1300	9.77	10.70	7.07	1340	20.2		0.005	0.092	0.002	0.0002	0.004	0.006	0.002	0.76	0.030	0.496	0.014	<0.01	0.014	<0.0001		15800	331	504	3190	60	198	5250	1230	<1	<1	1310	1310	200	0.44	0.94				11700
		14-Nov-08	0930	9.89	10.83																																								
		1-Dec-08	1120	9.86	10.80																																								
		12-Jan-09	1223	9.86	10.80																																								
		9-Dec-09	0945	9.90	10.83	6.64	18620	25.8	0.02	<0.001				<0.005		0.004	<0.05	<0.001	0.348	0.025		0.016	<0.0001	6.82	14500	257	467	3440	51	202	5230	1160	<1	<1	1270	1270	197	1.24		0.02	<0.01	<0.01	
		24-Feb-10	0920	9.90	10.83																																								
		23/Jun/10	1205	9.92	10.85	6.3	18570	21	<0.01	0.003				<0.001		0.012	<0.05	0.003	0.358	0.014		0.069	<0.0001	6.68	13900	266	450	3490	53	203	5860	1310	<1	<1	1340	1340	219	3.79		<0.01	0.03	0.03	
		03/Sep/10	0915	9.89	10.82	6.57	17620	21.1																																					
		08/Feb/11	1200	9.90	10.83	6.48	14780	25.9	<0.01	0.003				<0.005		0.004	<0.05	<0.001	0.27	0.013		0.014	<0.0001	6.47	18800	300	0.27	3040	50	190	5100	1120	<1	<1	1240	1240	192	0.59		0.02	0.02	0.02	
P4	NG4	1-Nov-07	1610	18.49	19.40																																								
		11-Dec-07		18.09	19.00																																								
		17-Dec-07		18.09	19.00																																								
		23-Jan-08	1225	17.82	18.73																																								
		3-Mar-08	1505	18.3	19.21																																								
		2-Apr-08	1305	18.29	19.20																																								
		9-May-08	1110	18.26	19.17																																								
		2-Jun-08	1505	18.275	19.19																																								
		1-Jul-08	1448	18.24	19.15																																								
		11-Aug-08	1703	18.19	19.10																																								
		9-Sep-08	1400	17.99	18.9	6.7	1560	21.2		0.008	0.265	0.003	<0.0001	0.005	0.033	0.006	3.93	0.027	6.20	0.024	<0.01	0.013	<0.0001		17700	355	699	4550	124	276	7650	1700	<1	<1	1840	1840	288	2.10	1.70				16800
		14-Nov-08	0920	18.16	19.06																																								
		1-Dec-08	1315	18.12	19.02																																								
		12-Jan-09	1239	18.10	19.00																																								
		23-Feb-09	1045	18.06	18.96																																								
		9-Jun-09	1100	18.55	19.40	6.9	25600	20.8		0.003	0.165	<0.001	<0.0001	0.056	0.026	0.006	14.4	0.047	4.99	0.066	0.02	0.044	<0.0001		25200	288	640	5670	86	316	7850	1470	<1	<1	2220	2220	297	3.1	0.48				16200
		24-Aug-09	1310	18.11	18.99																																								
		18-Nov-09	1455	18.12	19.00	6.51	25700	25.1	0.04	0.004				<0.005		0.013	<0.05	0.009	3.61	0.043		0.053	<0.0001	6.73	23700	351	706	6200	115	348	8700	1560	<1	<1	1850	1820	314	5.04		<0.01	0.1	0.1	
		18-Feb-10	1100	17.88	18.76																																								
		22-Jun-10	1420	18.09	18.97	8.2	25700	22	<0.01	0.001				<0.005		0.006	0.09	0.001	3.19	0.024		0.032	<0.0001	6.71	23700	249	591	5070	98	284	8020	1430	<1	<1	2340	2340	303	3.22		<0.01	0.04	0.04	
		3-Sep-10	1130	17.98	18.86	6.69	24290	22.1																																					
		7-Feb-11	1430	17.97	18.85	6.94	19920	28.6	0.01	0.004				<0.001		0.015	<0.05	<0.001	3.19	0.009		0.029	<0.0001	6.42	25600	232	599	5580	103	306	8050	1490	<1	<1	2070	2070	299	1.1		<0.01	0.05	0.05	
P5	NG5	1-Nov-07	1620	29.06	30.00																																								
		11-Dec-07		29.06	30.00																																								
		17-Dec-07		29.06	30.00																																								
		23-Jan-08	1240	28.36	29.30																																								
		3-Mar-08	1455	27.97	28.91																																								
		2-Apr-08	1315	27.475	28.42																																								
		9-May-08	1120	26.92	27.86																																								
		2-Jun-08	1516	26.605	27.55																																								
		1-Jul-08	1500	26.26	27.20																																								
		14-Aug-08	1515	25.78	26.72																																								
		12-Sep-08	1015	26.56	27.5	7	1050	20.8		0.007	0.368	0.003	0.0002	0.004	0.019	0.007	2.01	0.081	1.92	0.051	<0.01	0.031	<0.0001		24600	456	494	3960	71	238	7300	719	<1	<1	1860	1860	258	4.16	2.03				12700
		14-Nov-08	0908	27.06	28																																								
		1-Dec-08	1109	26.81	27.75																																								
		12-Jan-09	1249	26.41	27.35																																								
		16-Feb-09	1356	25.79	26.72																																								
		9-Jun-09	1215	25.06	25.99	6.6	25800	20.4		0.014	0.985	0.001	0.0003	0.032	0.022	0.597	19.7	0.336	1.16	0.091	0.04	1.14	0.0002		25100	361	536	5700	63	312	8230	765	<1	<1	1920	1920	286	4.19	0.91				15900
		1-Dec-09	1245	24.68	25.62	6.74	25600	25.8	<0.01	0.001				0.009		0.095	<0.05	0.008	0.659	0.053		0.167	<0.0001	6.76	20800	381	577	5830	73	322	8480	739	<1	<1	1940	1940	294	4.54		0.26	6.42	6.68	
		18-Feb-10	1115	24.99	25.93																																								
		23-Jun-10	1305	23.58	24.52	6.74	26100	22	<0.01	<0.001				<0.001		0.007	<0.05	<0.001	0.402	0.029		0.055	<0.0001	6.77	18300	314	503	5550	74	300	9320	996	<1	<1	1900	1900	322	3.43		<0.01	8.45	8.45	
		3-Sep-10	1150	23.53	24.47	6.75	16840	22.5																																					
		9-Feb-11	12:30	23.05	23.99	6.69	19520	26.3	0.03	0.006				0.006		0.16	<0.05	0.003	0.435	0.028		0.949	<0.0001	6.76	27200	359	570	3040	83	332	8610	1070	<1	<1	1970	1970	304	4.33		<0.01	5.32	5.32	
P6	NG6	1-Nov-07	1640	90.21	91.10																																								

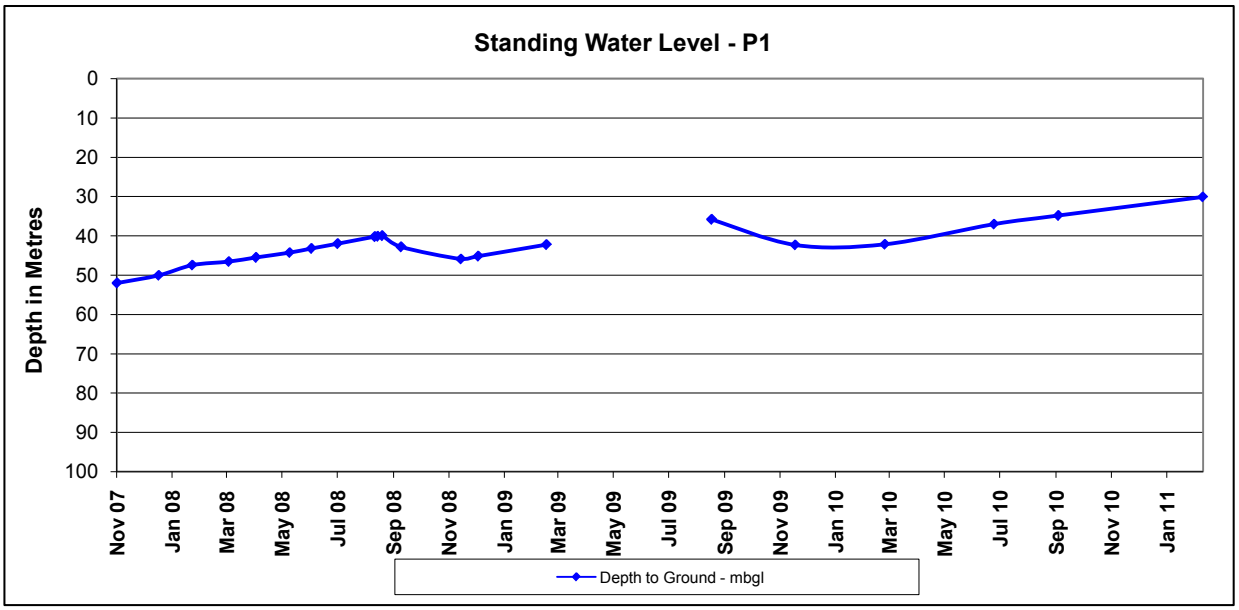
Site ID	Piezometer / Water Bore	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																																		
						pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH Lab	EC - Lab - µs/cm	Major Cations				Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	NOX as N - mg/L	Total Dissolved Solids
																										Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L							
		11-Dec-07		90.11	91.00																																						
		17-Dec-07		90.11	91.00																																						
		23-Jan-08	1315	89.37	90.26																																						
		3-Mar-08	1440	89.91	90.80																																						
		2-Apr-08	1330	89.93	90.82																																						
		9-May-08	1145	89.91	90.80																																						
		2-Jun-08	1533	89.92	90.81																																						
		1-Jul-08	1519	89.92	90.81																																						
		12-Aug-08	1055	89.86	90.75																																						
		10-Sep-08		89.11	90.00																																						
		14-Nov-08	1204	89.04	90.02																																						
		3-Dec-08	1336	89.05	90.03																																						
		23-Feb-09	1214	89.17	90.05																																						
		24-Aug-09	1400			Dry																																					
		17-Nov-09	1140			Dry																																					
		24-Feb-10	1035	89.82	90.71																																						
		24-Jun-10	1000			Dry																																					
		2-Sep-10	1400			Dry																																					
		9-Feb-11	1400			Dry																																					
P7	NG7	1-Nov-07	1700	62.87	63.80																																						
		11-Dec-07		62.07	63.00																																						
		17-Dec-07		62.07	63.00																																						
		23-Jan-08	1335	90.47	91.40																																						
		3-Mar-08	1425	90.00	90.93																																						
		2-Apr-08	1400	91.07	92.00																																						
		9-May-08	1202	89.52	90.45																																						
		2-Jun-08	1553	92.07	93.00																																						
		1-Jul-08	1544	92.07	93.00																																						
		12-Aug-08	1135	91.07	92.00																																						
		10-Sep-08	1115	62.87	63.80	7.95	1170	20.5		<0.001	0.031	<0.001	<0.0001	0.005	0.003	0.006	0.79	0.117	0.095	0.005	<0.01	0.033	<0.0001		149	1	1	25	3	1.33	26	4	<1	<1	19	19	1.20		0.55				101
		14-Nov-08	1213	91.08	92.00																																						
		3-Dec-08	1350	91.08	92.00																																						
		23-Feb-09	1240	89.17	90.10																																						
		9-Jun-09	1425			Dry																																					
		24-Aug-09	1415	86.26	87.20	8.9	170	22.4		<0.001	0.064	<0.001	0.0002	0.007	0.004	0.016	2.72	0.022	0.074	0.012	<0.01	0.066	<0.0001		147	3	1	18	3	1.27	26.2	3.47	<1	<1	24	24	1.27		<0.01				107
		17-Nov-09	1230	62.84	63.78	5.52	212	25		<0.001	0.029	<0.001	0.0001	0.004	0.002	0.053	0.49	0.047	0.023	0.013	<0.01	0.173	<0.0001		160	2	1	19	3	1.11	27	3.09	<1	<1	22	22	1.27	-	<0.01				95
		24-Feb-10	1105	63.04	63.98																																						
		24-Jun-10	1110	62.99	63.93	7.96	222	20	0.02	<0.001				0.001		0.011	<0.05	0.021	0.016	0.008		0.114	<0.0001	6.6	169	3	3	36	4	2.07	33.5	4.28	<1	<1	45	45	1.93			<0.01	0.19	0.19	
		2-Sep-10	1350	62.86	63.80	6.81	202	23.9																																			
		9-Feb-11	10:10	63.5	64.44	6.88	356	24.3	<0.01	<0.001				<0.005		0.03	<0.05	0.001	0.022	0.002		0.322	<0.0001	6.12	477	28	3	66	4	4.63	92	12	<1	<1	90	90	39.1			<0.01	0.26	0.26	
P8	NC-110S	3-Mar-08	1345	62.23	63.00																																						
		2-Apr-08	1415	50.52	51.29																																						
		9-May-08	1220	50.59	51.36																																						
		2-Jun-08	1608	62.23	63.00																																						
		1-Jul-08	1558	50.57	51.34																																						
		12-Aug-08	1230	50.62	51.39																																						
		19-Aug-08	1515	50.63	51.40																																						
		12-Sep-08	0830	50.53	51.30	7.85	1120	21.2		<0.001	0.057	<0.001	<0.0001	<0.001	<0.001	0.001	0.09	0.004	0.037	<0.001	<0.01	0.007	<0.0001		805	33	10	121	9	7.96	64	20	<1	<1	276	276	7.74	1.35	0.14				455
		14-Nov-08	1247	50.55	51.33																																						
		3-Dec-08	1414	50.44	51.22																																						
		23-Feb-09	1326	50.48	51.30																																						
		09-Jun-09	1445			SWL >50				0.003	0.192	<0.001	0.0002	0.004	0.004	0.382	3.62	0.374	0.364	0.016	<0.01	0.967	<0.0001		490	29	8	59	7	4.85	44	<10	<1	<1	171	171	4.66	1.99	<0.01				360
		24-Aug-09	1500	50.20	51.24	SWL only																																					
		17-Nov-09	1330	50.32	51.36	7.45	414	25.2		<0.001	0.121	<0.001	0.0001	<0.001	<0.001	0.014	0.52	0.019	0.117	0.005	<0.01	0.07	<0.0001		423	12	4	57	6	3.59	27.2	10.3	<1	<1	137	137	3.72	1.81	0.06				240
		24-Feb-10	1130	50.36	51.40																																						
		24-Jun-10	1200	50.29	51.33	7.85	390	19	<0.01	<0.001				<0.001		0.002	<0.05	<0.001	0.006	0.003		0.04	<0.0001	7.05	358	14	4	55	7	3.56	27.7	8.75	<1	<1	131	131	3.58	0.33		<0.01	0.03	0.03	
		2-Sep-10	1425	50.19	51.23	6.93	360	24																																			
		9-Feb-11	1120	50.44	51.48	7.1	355	23.6	<0.01	<0.001				<0.001		0.012	<0.05	0.001	0.029	0.001		0.096	<0.0001	6.65	387	22	5	55	6	4.06	28	12	<1	<1	151	151	4.06	0.08		<0.01	0.63	0.63	
P9	GWB5S	3-Mar-08	1105	19.88	20.52																																						
		2-Apr-08	1135	19.88	20.52																																						
		9-May-08	929	19.87	20.51																																						
		2-Jun-08	1300	19.89	20.53																																						
		1-Jul-08	1255	19.86	20.50																																						
		14-Aug-08	1217	19.90	20.54																																						
		12-Sep-08	1230	19.66	20.30	6.8	1210	22.1		0.002	0.059	<0.001	0.0001	0.004	0.003	0.014	1.32	0.036	0.037	0.012	<0.01	0.042	<0.0001		451	30	12	43	5	4.51	42	24	<1	<1	139	139	4.46	0.52	0.13				295
		14-Nov-08	1103	19.80	20.44																																						
		01-Dec-08	1219	19.77	20.41																																						
		12-Jan-09	0930	19.79	20.43																																						
		23-Feb-09	0938	19.80	20.45																																						
		17-Aug-09	1430	19.70	20.51	6.7	22500	24		<0.001	0.077	<0.001	<0.0001	0.003	0.002	0.01	6.94	0.001	0.122	<0.005	<0.01	0.009	<0.0001		23000	402	635	3560	62	229	7150	1830	<1	<1	641	641	253	4.96	1.6				16000
		18-Nov-09	1120	19.64	20.45	6.61	22870	28.1	0.04	<0.001				<0.005		0.005	0.38	<0.001	0.127	0.004		<0.005	<0.0001	6.63	21200	249	535	3830	74	225	7260	1720	<1	<1	392	392	248	5.02		<0.01	<0.01	<0.01	
		17-Feb-10	1120	19.72	20.53																																						
		22-Jun-10	1150	19.80	20.61	6.58	23010	23	<0.01	<0.001				<0.005		0.004	4.86	<0.001	0.098	0.002		0.008	<0.0001	6.69	22000	329	493	4020	59	233	7240	1570	<1	<1	599	599	249	3.22		<0.01	<0.01	<0.01	
		2-Sep-10	1050	19.72	20.53	7.07	17050	23.7																																			
		7-Feb-11	1215	19.98	20.79	6.5	17180	25.7	0.02	0.003				<0.001		0.004	2.96	<0.001	0.102	0.002		0.006	<0.0001	6.4	22500	348	547	3830	61	230	7410	1590	<1	<1	604	604	254	4.86		<0.01	0.02	0.02	
P10	NC-030D	3-Mar-08	1315	15.56	16.53																																						
		2-Apr-08	1425	15.64	16.61																																						
		9-May-08	1230	15.88	16.85																																						
		2-Jun-08	1623	16.03	17.00																																						
		1-Jul-08	1610	15.13	16.10																																						
		14-Aug-08	1635	16.31	17.28																																						
		9-Sep-08	1700	20.03	21.00	7.92	1130	20.8		0.002	1.59	0.001	<0.0001	0.006	0.002	0.004	0.92	0.024	2.13	0.005	<0.01	0.023	<0.0001		6800	155	80	1490	30	79.9	2410	188	<1	<1	546	546	82.9	1.88	1.73				4170
		14-Nov-08	1301	53.36	54.33																																						
		3-Dec-08	1432	51.73	52.70																																						
		12-Jan-09	1130	47.89	48.86																																						
		23-Feb-09	1355	43.72	44.68																																						
		11-Jun-09	1540	31.95	32.93					<0.001	1.4	<0.001	<0.0001	0.002	0.003	0.034	0.15	0.027	1.57	0.015	<0.01	0.249	<0.0001		7610	134	74	1490	31	78.6	2160	40	<1	<1	774	774	77.1	0.9	<0.01				4370
		24-Aug-09	1530	44.98	45.96	SWL only																																					
		17-Nov-09	1400	41.83	42.81	7.4	8350	25.2		0.001	1.34	<0.001	<0.0001	0.002	<0.001	0.014	0.31	0.035	1.35	0.018	<0.01	0.12	<0.0001		3200	41	78	1550	30	76.8	2250	64.8	<1	<1	760	760	30.9	2.11	1.27				4610
		24-Feb-10	1150	39.10	40.08																																						
		24-Jun-10	1250	35.79	36.77	7.28	8160	23	<0.01	0.002				<0.005		<0.001	<0.05	0.013	1.46	0.005		0.021	<0.0001	7.39	7010	83	83	1560	32	79.7	2140	76.5	<1	<1	757	757	77.1	1.64		<0.01	0.02	0.02	
		3-Sep-10	0955	38.70	39.63	7.61	7750	21.2																																			
		9-Feb-11	1215	22.88	23.86	7.25	7020	27.2	<0.01	0.004				<0.005		0.002	<0.05	<0.001	3.29	0.004		0.01	<0.0001	6.91	9430	143	124	1790	29	95.9	2920	308	<1	<1	793	793	105	4.35		<0.01	0.26	0.26	
P11	NC-030S	3-Mar-08	1320	22.18	23.17																																						
		2-Apr-08	1430	22.14	23.13																																						
		9-May-08	1232	22.26	23.25																																						
		2-Jun-08	1620	22.30	23.29																																						
		1-Jul-08	1612	22.33	23.32																																						
		12-Aug-08	1248	22.39	23.38																																						
		12-Sep-08	0730	22.91	23.90	8.23	980	17.6		0.004	0.162	<0.001	<0.0001	<0.001	0.089	0.004	0.81	0.006	2.98	0.159	<0.01	0.016	<0.0001		2490	89	40	341	4	22.7	581	16	<1	<1	248	248	21.7	2.24	0.04				1330
		14-Nov-08	1258	23.02	24.01																																						
		3-Dec-08	1430	23.01	24.00																																						
		12-Jan-09	1125	23.01	24.00																																						
		23-Feb-09	1400	22.98	23.95																																						
		11-Jun-09	1525	22.88	23.98					0.007	0.303	<0.001	0.0014	0.003	0.082	0.069	3.6	0.092	3.22	0.194	0.02	0.46	<0.0001		3230	122	54	495	6	32.2	878	<1	<1	<1	335	335	31.5	1.15	<0.01				1890
		24-Aug-09	1530	24.19	25.18	SWL only																																					

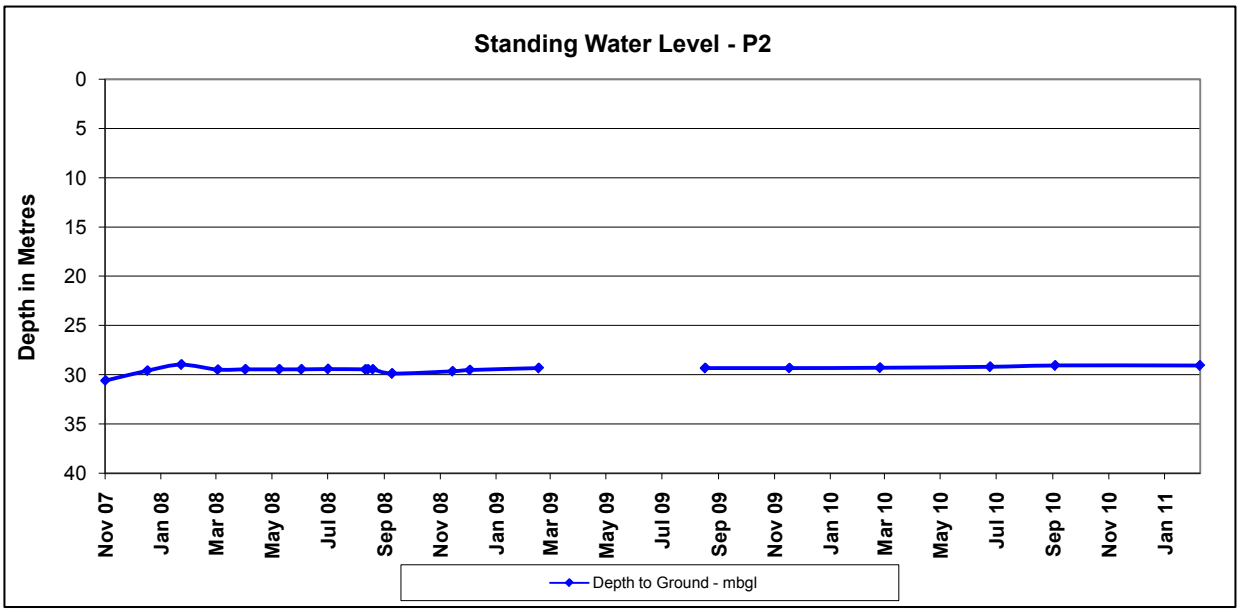
Site ID	Piezometer / Water Bore	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																				Major Cations					Major Anions											
						pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH Lab	EC - Lab - µs/cm	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Total Cations - meq/L	Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	NOX as N - mg/L	Total Dissolved Solids
		17-Nov-09	1420	24.79	25.78	7.34	34900	25		0.005	0.303	<0.001	0.0004	0.001	0.09	0.048	0.57	0.056	2.43	0.215	<0.01	0.294	<0.0001		3200	64	48	493	6	28.7	863	10.2	<1	<1	320	320	30.9	3.68	<0.1				1870
		24-Feb-10	1150	24.30	25.29																																								
		24-Jun-10	1330	23.82	24.81	7.4	4360	20	<0.01	0.001				<0.005		0.001	0.14	0.011	3.16	0.256		0.033	<0.0001	7.34	3590	152	69	621	8	40.4	1130	7.32	<1	<1	382	382	39.6	1		<0.01	0.02	0.02	
		3-Sep-10	1005	28.06	29.05	7.61	3650	21.1																																					
		9-Feb-11	1240	27.40	28.39	7.05	3280	28.1	<0.01	0.002				<0.005		<0.001	0.33	0.006	5.17	0.3		0.025	<0.0001	6.82	4360	1320	77	652	6	41.4	1250	7	<1	<1	329	329	41.9	0.54		<0.01	0.37	0.37	
P12	NC-098D	3-Mar-08	1135	36.70	37.51																																								
		2-Apr-08	1145	37.72	38.53																																								
		9-May-08	0937	36.75	37.56																																								
		2-Jun-08	1312	36.78	37.59																																								
		1-Jul-08	1300	36.79	37.60																																								
		11-Aug-08		36.54	37.35																																								
		12-Sep-08	1130	36.49	37.30	6.8	1020	21.5		0.007	0.022	<0.001	<0.0001	0.002	0.008	0.002	0.67	0.132	0.053	0.002	<0.01	0.189	<0.0001		367	30	10	28	5	3.62	24	16	<1	<1	131	131	3.63	0.14	0.08				226
		14-Nov-08	1047	36.72	37.61																																								
		01-Dec-08	1200	36.67	37.56																																								
		12-Jan-09	0915	36.66	37.57																																								
		18-Feb-09	1233	36.72	37.52																																								
		17-Aug-09	1245	37.18	37.99	7.3	2540	23.8		0.006	0.163	<0.001	0.0004	0.005	0.211	0.008	3	0.009	3.37	0.218	<0.01	0.04	<0.0001		2530	82	49	453	6	28	370	8.67	<1	<1	864	864	27.9	0.1	0.09				1540
		11-Nov-09	1035	37.13	37.94	7.5	2790	33.8		0.013	0.12	<0.001	<0.0001	0.009	0.051	0.004	1.42	0.014	1.41	0.078	<0.01	0.044	<0.0001		2470	51	28	555	7	29.2	394	4.15	<1	<1	931	931	29.8	0.98	0.3				1660
		17-Feb-10	0945	37.13	37.94																																								
		22-Jun-10	1030	36.30	37.11	7.38	2150	23.6	<0.01	0.009				<0.005		<0.001	0.25	<0.001	1.02	0.027		<0.005	<0.0001	7.5	2970	47	25	774	8	38.3	426	1.72	<1	<1	1180	1180	35.6	3.55		<0.01	0.04	0.04	
		2-Sep-10	1035	36.33	37.14	7.56	2700	21.9																																					
		7-Feb-11	1030	36.43	37.24	7.32	2560	25.8	0.03	0.011				<0.001			<0.001	0.002	0.943	0.024		0.009	<0.0001	7.46	2880	48	29	703	10	35.6	431	1	<1	<1	1040	1040	33.1	3.66		<0.01	0.01	0.02	
P13	NC-098S	3-Mar-08	1140	8.51	9.38																																								
		2-Apr-08	1147	8.62	9.49																																								
		9-May-08	0939	8.88	9.75																																								
		2-Jun-08	1308	9.00	9.88																																								
		1-Jul-08	1303	9.18	10.05																																								
		11-Aug-08		9.34	10.21																																								
		12-Sep-08	1045	9.43	10.30	7.1	1180	20.1		<0.001	0.153	<0.001	<0.0001	0.001	<0.001	0.001	0.11	0.007	0.134	0.002	<0.01	0.023	<0.0001		2040	50	89	253	7	21.0	279	30	<1	<1	556	556	19.6	3.47	0.24				1040
		14-Nov-08	1045	8.35	9.21																																								
		01-Dec-08	1202	8.48	9.34																																								
		12-Jan-09	0920	7.53	8.39																																								
		18-Feb-09	1241	7.35	8.23																																								
		17-Aug-09	1330	8.03	8.90	7.6	1540	24.3		<0.001	0.103	<0.001	<0.0001	0.003	0.002	0.002	1.51	0.002	0.064	0.004	<0.01	0.009	<0.0001		1760	50	100	204	3	19.6	272	50.7	<1	<1	551	551	19.7	0.34	<0.01				978
		11-Nov-09	1120	8.92	9.79	7.2	1310	27.5		0.001	0.125	<0.001	<0.0001	0.003	0.005	0.006	2.57	0.005	0.625	0.016	<0.01	0.015	<0.0001		1820	54	105	218	3	20.9	362	45.8	<1	<1	520	520	21.6	1.66	14.9				1110
		17-Feb-10	0950	8.06	8.93																																								
		22-Jun-10	0930	8.80	9.67	7.69	1923	21	<0.01	<0.001				<0.005		<0.001	<0.05	<0.001	<0.001	0.003		<0.005	<0.0001	7.47	1820	56	106	222	3	21.2	301	41.4	<1	<1	544	544	20.2	2.37		<0.01	2.77	2.77	
		2-Sep-10	1025	8.30	9.17	7.38	1668	22.4																																					
		7-Feb-11	1100	6.28	7.15	7.21	1615	24.5	0.03	<0.001				<0.001		<0.001	<0.05	<0.001	<0.001	0.001		<0.005	<0.0001	7.24	1480	70	86	191	2	19	283	54	<1	<1	512	512	19.3	0.97		0.02	1.95	1.97	
P14	NC-100D	3-Mar-08																																											
		2-Apr-08																																											
		9-May-08																																											
		2-Jun-08																																											
		1-Jul-08																																											
		11-Aug-08																																											
		12-Sep-08																																											
		14-Nov-08																																											
		3-Dec-08																																											
		12-Jan-09	0945	58.42	58.77																																								
		24-Aug-09	1240	57.32	57.68	12.6	9300	23.3		0.002	2.04	<0.001	<0.0001	0.04	0.003	0.06	2.04	0.018	0.051	0.027	<0.01	0.158	<0.0001		5430	656	<1	205	112	44.5	5.71	2.58	<1	<1	<1	<1	0.21	99	3.03				2480
		18-Nov-09	1200	59.48	59.84	12.35	9320	28.5	0.02	0.002				0.018		0.016	<0.5	<0.001	<0.001	0.011		<0.005	<0.0001	9.98	2520	574	<1	202	118	40.5	7.84	31.8	2140	50	<1	2190	44.6	4.88		0.06	0.06	0.13	
		24-Feb-10	0955	60.31	60.67																																								
		22-Jun-10	1325	60.18	60.54	11.95	8980	21	0.01	0.002				0.018		0.027	<0.05	<0.001	<0.001	0.018		<0.005	<0.0001	12.5	9070	562	<1	341	126	46.1	129	12.7	1960	78	<1	2040	44.6	1.64		0.06	0.06	0.12	
		2-Sep-10	1210	60.73	61.09	Insufficient to sample																																							
		7-Feb-11	1300	60.37	60.73	Insufficient to sample																																							
P15	NC-100S	3-Mar-08																																											
		2-Apr-08																																											
		9-May-08																																											
		2-Jun-08																																											
		1-Jul-08																																											
		11-Aug-08																																											
		12-Sep-08																																											
		14-Nov-08																																											
		3-Dec-08																																											
		12-Jan-09	0950	16.21	16.56																																								
		24-Aug-09	1215	16.16	16.47	6.8	16000	26.8		0.004	0.522	<0.001	0.0005	0.036	0.024	0.091	12.9	0.011	3.54	0.058	0.04	0.108	<0.0001		15300	193	286	2830	60	158	4340	928	<1	<1	1220	1220	166	2.56	3.34				10400
		18-Nov-09	1230	16.18	16.49	6.68	16320	29.3	<0.01	<0.001				<0.005		0.008	<0.05	<0.001	3.12	0.019		0.02	<0.0001	7.25	15200	87	284	3090	70	164	4490	971	<1	<1	788	788	162	0.39		<0.01	<0.01	<0.01	
		24-Feb-10	0955	16.23	16.54																																								
		22-Jun-10	1250	16.18	16.49	6.73	13990	22	<0.01	<0.001				<0.005		0.005	<0.05	<0.001	1.9	0.016		0.02	<0.0001	7.36	11500	182	234	2690	47	146	4110	1020	<1	<1	1080	1080	159	3.99		<0.01	0.04	0.04	
		2-Sep-10	1215	16.16	16.47	6.98	13550	23.8																																					
		7-Feb-11	1350	16.13	16.44	6.47	12520	27.1	0.01	0.002				<0.001		0.006	<0.05	<0.001	3.3	0.013		0.019	<0.0001	6.69	15800	214	300	2900	59	163	4860	910	<1	<1	1050	1050	177	4.13		<0.01	0.02	0.02	
P16	NC-119D	3-Mar-08	1410	51.25	52.03																																								
		2-Apr-08	1345	51.24	52.02																																								
		9-May-08	1152	51.21	51.99																																								
		2-Jun-08	1542	51.20	51.98																																								
		1-Jul-08	1525	51.12	51.90																																								
		12-Aug-08	1145	51.08	51.86																																								
		12-Sep-08	0930	50.52	51.30	7.45	1085	20.5		0.001	0.029	<0.001	<0.0001	0.002	<0.001	0.002	4.43	0.394	0.070	0.036	<0.01	0.204	<0.0001		132	5	1	14	3	1.05	22	<1	<1	<1	25	25	1.12		2.00				109
		14-Nov-08	1227	56.22	57.00																																								
		3-Dec-08	1400	55.22	56.00																																								
		12-Jan-09	1055	48.67	49.45																																								
		23-Feb-09	1250	48.45	49.24																																								
		9-Jun-09	1330	48.45	49.30	Bore pumped dry																																							
		24-Aug-09	1445	47.53	48.37	SWL only																																							
		17-Nov-09	1300	48.16	49.00	6.84	1605	24.1		<0.001	0.135	<0.001	<0.0001	0.001	<0.001	0.023	4.79	0.119	0.299	0.043	<0.01	1.21	<0.0001		1530	23	13	208	14	13.3	324	1.36	<1	<1	235	235	13.9	2.11	23.4				682
		24-Feb-10	1045	47.00	47.84																																								
		24-Jun-10	1015	47.46	48.30	7.53	1947	18	<0.01	<0.001				<0.005		0.003	0.33	0.002	0.389	0.016		0.085	<0.0001	7.01	1740	32	16	265	23	15	371	2.78	<1	<1	298	298	16.5	4.61		0.02	0.33	0.35	
		2-Sep-10	1345	46.77	47.61	6.78	2370	24.5																																					
		9-Feb-11	1040	47.50	48.34	6.73	2169	24	0.16	0.002				<0.005		0.01	0.5	0.031	0.515	0.006		0.063	<0.0001	6.67	2460	38	14	297	32	16.8	478	6	<1	<1	497	497	23.5	16.6		0.23	0.38	0.61	
P17	NC-119S	3-Mar-08	1405	55.96	56.56																																								
		2-Apr-08	1350	59.40	60.00																																								
		9-May-08	1157	59.05	59.65																																								
		2-Jun-08	1539	59.40	60.00																																								
		1-Jul-08	1527	43.40	44.00																																								
		12-Aug-08	1150	58.40	59.00																																								
		12-Sep-08		57.30	57.90																																								
		14-Nov-08	1233	57.39	58.00																																								
		3-Dec-08	1404	57.39	58.00																																								
		12-Jan-09	1100	58.40	59.00																																								
		23-Feb-09	1258	48.88	49.50																																								
		09-Jun-09	1345			Dry																																							
		24-Aug-09	1450			Dry																																							
		17-Nov-09	1320			Dry																																							
		24-Feb-10	1115			Dry																																							
		24-Jun-10	1025			Dry																																							
		2-Sep-10	1325			Dry																																							

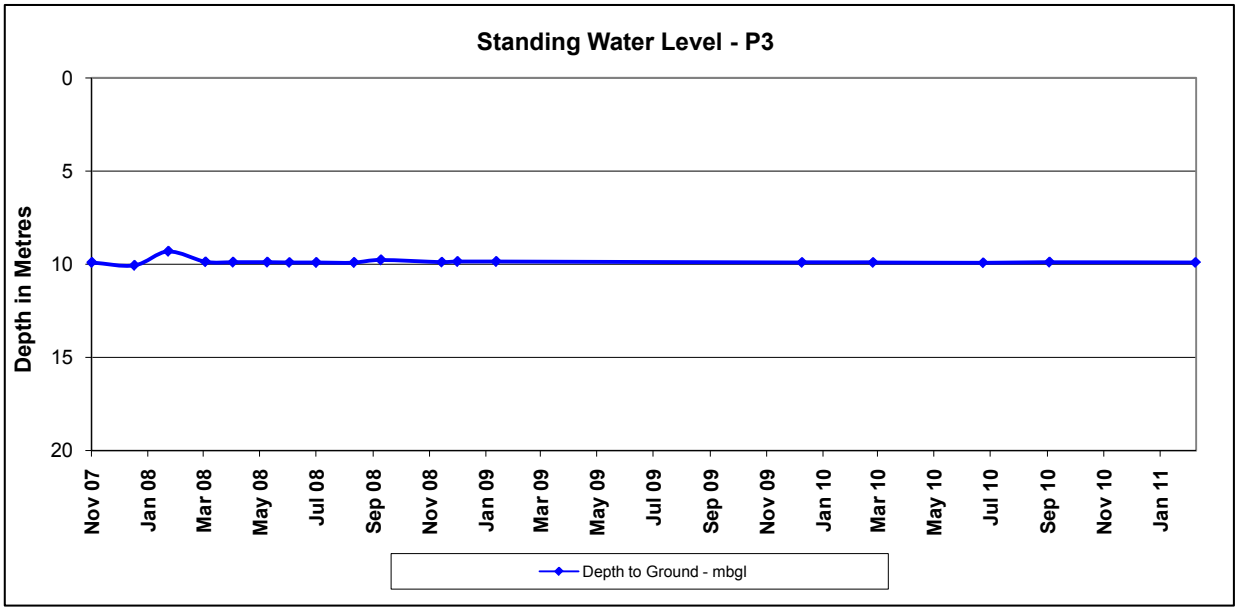
						Field Parameters			Total Metals																			Major Cations							Major Anions												
Site ID	Piezometer / Water Bore	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH Lab	EC - Lab - µs/cm	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Total Cations - meq/L	Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	NOX as N - mg/L	Total Dissolved Solids
		9-Feb-11	1050			Dry																																									
P18	NC-122	3-Mar-08	1530	13.40	14.24																																										
		2-Apr-08	1225	13.40	14.24																																										
		9-May-08	1027	13.45	14.29																																										
		2-Jun-08	1425	13.53	14.37																																										
		1-Jul-08	1414	13.56	14.40																																										
		11-Aug-08	1650	13.66	14.50																																										
		11-Sep-08	1030	13.16	14.00	6.75	1410	22.9		0.003	0.817	<0.001	<0.0001	0.008	0.032	0.007	3.75	0.046	0.137	0.059	0.03	0.022	<0.0001		3650	30	27	824	38	40.6	80	38	<1	<1	1870	1870	40.5	0.04	2.61					2370
		14-Nov-08	1123	12.70	13.49																																										
		01-Dec-08	1251	12.79	13.58																																										
		12-Jan-09	1015	12.88	13.67																																										
		23-Feb-09	1003	13.00	13.80																																										
		09-Jun-09	0900	13.60	14.35	6.1	8750	20.7		0.002	1.98	<0.001	<0.0001	0.009	0.019	0.007	4.6	0.04	0.14	0.038	0.03	0.03	<0.0001		8250	66	70	1960	79	96.4	134	<1	<1	<1	5100	5100	106	4.62	4.74					6720
		24-Aug-09	1320	17.87	18.68	SWL only																																									
		18-Nov-09	1400	23.90	24.71	6.66	6180	27.5	0.2	0.009				0.009		0.03	3.44	0.042	0.306	0.091		0.694	<0.0001	7.03	6100	58	48	1450	63	71.7	110	18	<1	<1	3710	3710	77.6	3.99		0.02	0.06	0.08	
		17-Feb-10	1200	31.91	32.72																																										
		16-Mar-10	1610	33.34	34.15	SWL only																																									
		7-May-10	1500	33.89	34.70																																										
		23-Jun-10	0950	40.03	40.84	6.54	7490	18	0.04	0.003				0.004		0.002	0.08	0.002	0.784	0.06		0.13	<0.0001	6.75	6210	80	137	1370	37	75.8	861	91.2	<1	<1	2880	2880	83.7	4.99		<0.01	0.1	0.1	
		2-Sep-10	1130	41.38	42.19	6.65	4070	23.2																																							
		10-Feb-11	1200			Dry																																									
P19	NC-123R	3-Mar-08	1535	16.11	17.05																																										
		2-Apr-08	1230	16.10	17.05																																										
		9-May-08	1033	16.11	17.05																																										
		2-Jun-08	1432	16.30	17.24																																										
		1-Jul-08	1421	16.38	17.32																																										
		14-Aug-08	1335	16.34	17.29																																										
		17-Sep-08	1445	16.16	17.10	6.7	1340	23.2		0.001	1.26	<0.001	0.0001	0.018	0.043	0.005	3.19	0.015	0.728	0.320	<0.01	0.066	<0.0001		11000	99	141	1040	1400	97.6	1880	28	<1	<1	1880	1880	91.2	3.40	6.15					6220
		14-Nov-08	1130	19.19	20.18																																										
		01-Dec-08	1244	17.26	18.21																																										
		12-Jan-09	1025	16.87	17.82																																										
		23-Feb-09	1008	24.20	24.60																																										
		09-Jun-09	0930	23.50	23.90	7	5600	21.2		<0.001	0.275	<0.001	<0.0001	0.029	0.003	0.002	3.14	0.003	1.24	0.014	<0.01	0.039	<0.0001		5230	40	82	1030	18	54	1170	<20	<1	<1	1060	1060	54.2	0.16	3.83					2910
		24-Aug-09	1322	24.82	25.30	SWL only																																									
		18-Nov-09	1410	24.11	24.59	7.34	3690	23.8	<0.01	0.003				<0.005		0.002	0.12	<0.001	0.93	0.005		0.011	<0.0001	7.71	3050	28	45	551	19	29.6	624	22.1	<1	<1	663	663	31.3	2.9		<0.01	0.04	0.04	
		17-Feb-10	1210	23.75	24.23																																										
		23-Jun-10	1100	22.95	23.43	7.3	3970	20	0.01	0.003				0.002		<0.001	0.13	<0.001	1.09	0.007		0.008	<0.0001	7.28	3330	32	57	672	24	36.1	708	29.4	<1	<1	838	838	37.3	1.67		<0.01	<0.01	<0.01	
		2-Sep-10	1140	22.86	23.34	7.24	3120	22.9																																							
		10-Feb-11	1230	21.87	22.36	7.1	1714	26.4	0.01	0.003				0.006		0.003	0.09	<0.001	0.701	0.005		0.018	<0.0001	7.45	2900	25	39	501	22	26.9	581	26	<1	<1	587	587	28.6	3.23		0.06	9.43	<0.01	
P20	NC-127	3-Mar-08	1610	13.52	14.39																																										
		2-Apr-08	1235	13.52	14.39																																										
		9-May-08	1039	13.62	14.49																																										
		2-Jun-08	1420	13.68	14.55																																										
		1-Jul-08	1408	13.64	14.51																																										
		11-Aug-08	1640	13.70	14.57																																										
		9-Sep-08	1000	13.48	14.35	6.7	1140	19.6		<0.001	4.80	0.002	0.0003	0.003	0.001	0.005	1.57	0.004	0.035	0.014	<0.01	0.009	<0.0001		10500	62	68	2860	118	136	425	<1	<1	<1	5970	5970	131	1.83	10.3					9630
		14-Nov-08	1118	13.79	14.68																																										
		01-Dec-08	1257	13.88	14.77																																										
		12-Jan-09	1010	13.97	14.86																																										
		23-Feb-09	0920	14.06	14.95																																										
		09-Jun-09	1000	14.83	15.68	7.1	13600	21		<0.001	4.12	<0.001	0.0002	0.002	<0.001	0.004	0.4	0.001	0.014	0.003	<0.01	0.036	<0.0001		12500	74	80	3290	114	156	174	<10	<1	<1	8420	8420	173	5	9.14					9910
		24-Aug-09	1330	20.77	21.68	SWL only																																									
		18-Nov-09	1430	17.20	18.11	7.26	10210	26.1	<0.01	<0.001				<0.005		0.002	0.13	0.002	0.046	0.016		0.1	<0.0001	7.52	10300	8	120	2510	96	122	599	26.9	<1	<1	5960	5960	136	4.97		<0.01	0.01	0.01	
		17-Feb-10	1215	30.15	31.06																																										
		16-Mar-10	1555	37.69	38.60	SWL only																																									
		7-May-10	1515	41.79	42.70																																										
		23-Jun-10	1030	49.45	50.36	6.95	5830	20	<0.01	<0.001				0.003		0.001	<0.05	<0.001	0.185	0.043		0.226	<0.0001	6.73	4840	169	219	826	21	62.9	1400	107	<1	<1	799	799	57.7	4.29		<0.01	0.1	0.1	
		Cemented up - No longer monitored																																													
WB1		14-Aug-08	1445	8.34	9.00																																										
		12-Sep-08	1330	8.34	9.00	7.9	1060	23.5		0.005	3.96	0.002	0.0003	0.001	<0.001	0.002	0.64	0.002	0.015	<0.001	<0.01	0.091	<0.0001		14200	102	209	3740	204	190	53	3	<1	<1	8700	8700	175	4.06	11.9					8510
		14-Nov-08	1139	8.46	9.12																																										
		01-Dec-08	1303	8.46	9.12																																										
WB2		11-Aug-08	1515	9.22	9.41																																										
		11-Sep-08	0930	8.81	9.00	7.2	1010	20.7		<0.001	0.033	<0.001	<0.0001	<0.001	<0.001	0.001	<0.05	<0.001	0.003	0.002	<0.01	<0.005	<0.0001		239	12	6	32	1	2.53	16	6	<1	<1	101	101	2.61		0.06					153
		14-Nov-08	1056	6.12	6.31																																										
		01-Dec-08	1212	6.30	6.49																																										
		18-Feb-09	1250	4.41	4.60																																										
		11-Jun-09	1500							<0.001	0.087	<0.001	<0.0001	<0.001	<0.001	0.106	0.3	0.002	0.02	0.001	<0.01	0.067	<0.0001		1130	64	57	83	2	11.6	156	17	<1	<1	340	340	11.5	0.21	<0.01					628
		17-Aug-09	1345	6.34	6.72	7.4	1150	18.5		<0.001	0.093	<0.001	<0.0001	<0.001	<0.001	0.003	0.06	<0.001	0.002	<0.001	<0.01	<0.005	<0.0001		1210	71	60	74	4	11.8	227	34.3	<1	<1	248	248	12.1	1.27	<0.01					744
		11-Nov-09	1200	8.18	8.56	7.3	1200	28.1		0.002	0.202	0.003	0.0007	0.021	0.008	0.064	16.8	0.012	0.203	0.02	0.03	0.058	<0.0001		1130	62	53	63	6	10.4	217	29.5	<1	<1	194	194	10.6	1.11	<0.01					1200
		17-Feb-10	1000	5.72	6.10																																										
		22-Jun-10	1105	7.02	7.40	7.83	1158	17	0.01	<0.001				<0.001		0.009	<0.05	<0.001	0.001	<0.001		<0.05	<0.0001	7.5	1080	61	53	60	6	10.2	197	27.6	<1	<1	215	215	10.4	1.24		<0.01	3.04	3.04	
		02-Sep-10	1045	5.41	5.79	7.53	1304	22.4																																							
		07-Feb-11	1120	3.22	3.60	7.2	855	24.5	0.11	<0.001				<0.001		0.012	0.06	<0.001	0.084	0.002		0.025	<0.0001	7.46	500	28	22	46	7	5.39	57	13	<1	<1	182	182	5.5	1.08		0.02	0.7	0.72	
WB3a		11-Sep-08	1230	8.09	8.60	7.7	1050	20.1		<0.001	0.179	<0.001	<0.0001	<0.001	<0.001	0.002	0.34	0.002	0.259	0.002	<0.01	0.009	<0.0001		703	39	20	78	4	7.11	54	10	<1	<1	268	268	7.08	0.10	0.26					431
		14-Nov-08	0856	8.14	8.65																																										
		01-Dec-08	1055	8.14	8.65																																										
		12-Jan-09	1301	7.94	8.45																																										
		01-Dec-09	1310	8.21	8.72																																										
		18-Feb-10	1205	8.11	8.62																																										
		23-Jun-10	1315	8.19	8.70																																										
		03-Sep-10	1210	8.03	8.54	7.29	919	22.5																																							
		09-Feb-11	1300	7.55	8.06																																										
WB3b		11-Sep-08	1245	7.99	8.50	7.6	1250	19.8		<0.001	0.175	<0.001	<0.0001	<0.001	<0.001	0.002	0.31	0.001	0.255	0.001	<0.01	0.007	<0.0001		706	38	20	77	4	7.01	52	10	<1	<1	268	268	7.02	0.17	0.18					415
		14-Nov-08	0854	8.05	8.56																																										
		01-Dec-08	1057	7.99	8.50																																										
		12-Jan-09	1303	7.84	8.33																																										
		01-Dec-09	1310	8.20	8.71																																										
		18-Feb-10	1210	8.05	8.56																																										
		23-Jun-10	1320	8.10	8.61																																										
		03-Sep-10	1215	7.88	8.39	7.38	693	22.7																																							
		09-Feb-11	1310	7.20	7.71																																										
WB4		12-Sep-08	1430	8.35	8.90	7.3	1120	19.8		<0.001	0.042	<0.001	<0.0001	<0.001	<0.001	0.002	<0.05	<0.001	0.003	0.002	<0.01	0.006	<0.0001		1040	61	35	116	1	11.0	93	30	<1	<1	360	360	10.4	2.39	0.06					461
		14-Nov-08	0902	8.30	8.85																																										
		12-Jan-09	1258	8.25	8.80																																										
		01-Dec-09	1305	8.38	8.93																																										
		18-Feb-10	1220	8.41	8.96																																										
		23-Jun-10	1310	8.41	8.96																																										
		03-Sep-10	1155	9.40	9.95	7.35	2174	21.8																																							
		09-Feb-11	1245	8.20	8.75																																										
WB5a		12-Sep-08	1430	9.98	11.10	7.5	1200	21		<0.001	0.026	<0.001	<0.0001	<0.001	<0.001	0.004	0.1	0.006	0.033	<0.001	<0.01	0.008	<0.0001		510	36	18	32	2	4.66	29	28	<1	<1	160	160	4.59	0.72	0.05					281
		14-Nov-08	0832	10.29	11.41																																										
		01-Dec-08	1035	10.15	11.27																																										
		12-Jan-09	1319	9.89	11.01																																										
		01-Dec-09	1345	10.38	11.50																																										
		18-Feb-10	1245	10.35	11.47																																										

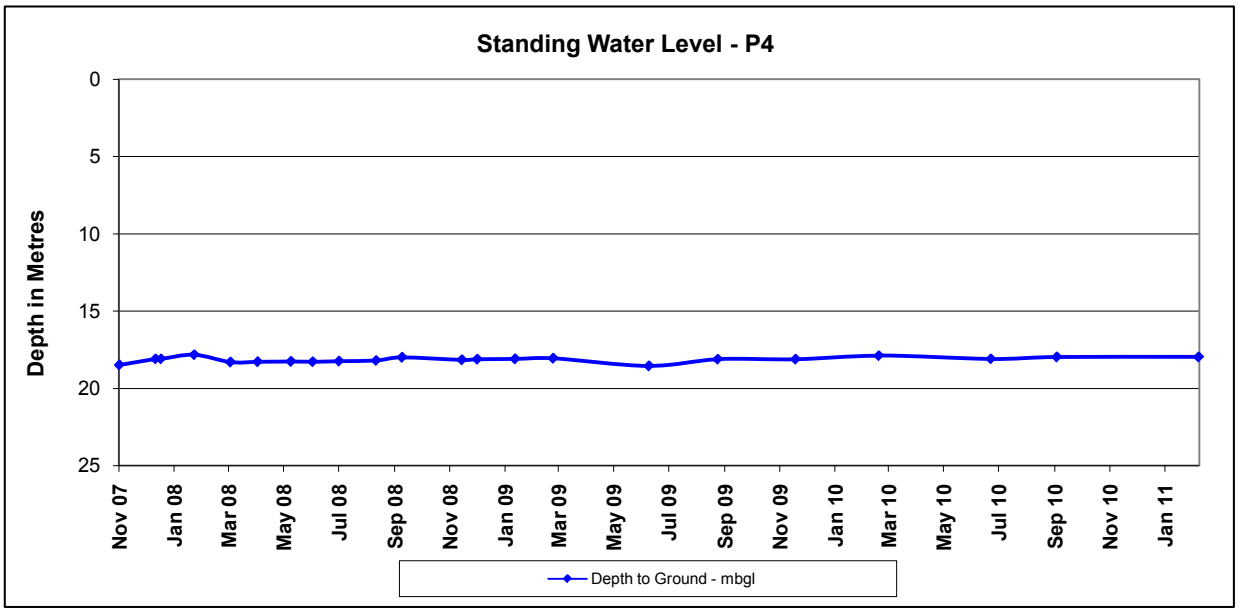
Site ID	Piezometer / Water Bore	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																																		
						pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH Lab	EC - Lab - µs/cm	Major Cations				Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	NOX as N - mg/L	Total Dissolved Solids
																										Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L							
		23-Jun-10	1350	10.38	11.50																																						
		03-Sep-10	1330	9.71	10.83																																						
		09-Feb-11	1034																																								
WB5b		12-Sep-08	1430	10.08	11.20	7.6	1150	21		<0.001	0.028	<0.001	<0.0001	<0.001	<0.001	0.003	<0.05	0.006	0.031	0.001	<0.01	0.007	<0.0001		505	35	17	31	2	4.56	28	28	<1	<1	166	166	4.68	1.39	0.05				278
		14-Nov-08	0833	10.43	11.55																																						
		01-Dec-08	1037	10.15	11.27																																						
		12-Jan-09	1321	10.21	11.33																																						
		01-Dec-09	1345	10.78	11.90																																						
		18-Feb-10	1250	10.69	11.81																																						
		23-Jun-10	1355	10.36	11.48																																						
		09-Feb-11	1350																																								
WB6a		12-Sep-08	1530	13.93	14.80	6.8	1120	20.4		<0.001	0.050	<0.001	<0.0001	<0.001	<0.001	0.008	0.22	0.029	0.302	0.002	<0.01	0.022	<0.0001		706	45	22	77	3	7.48	33	21	<1	<1	294	294	7.24	1.55	0.09				389
		12-Sep-08	1530	13.93	14.80	6.8	1120	20.4		<0.001	0.052	<0.001	<0.0001	<0.001	<0.001	0.005	0.29	0.014	0.419	0.004	<0.01	0.017	<0.0001		981	58	36	74	3	9.13	89	53	<1	<1	266	266	8.94	1.04	0.87				525
		14-Nov-08	0823	14.31	15.19																																						
		01-Dec-08	1030	14.29	15.17																																						
		12-Jan-09	1326	14.24	15.12																																						
		01-Dec-09	1400	14.38	15.22																																						
		18-Feb-10	1310	14.31	15.15																																						
		03-Sep-10	1345	14.31	15.15																																						
		09-Feb-11	1400	11.68	12.52																																						
WB6b		12-Sep-08	1530	11.33	12.20	7.2	1080	20.7		<0.001	0.052	<0.001	<0.0001	<0.001	<0.001	0.007	0.28	0.028	0.297	0.006	<0.01	0.050	<0.0001		781	45	22	83	3	7.78	35	21	<1	<1	305	305	7.52	1.62	0.09				405
		14-Nov-08	0825	12.21	13.09																																						
		01-Dec-08	1032	11.21	12.09																																						
		12-Jan-09	1328	17.89	18.77																																						
		01-Dec-09	1400	19.70	20.54																																						
		18-Feb-10	1315	13.94	14.78																																						
		03-Sep-10	1350	11.09	11.93																																						
		09-Feb-11	1410	20.34	21.18																																						
WB7		11-Sep-08	1330			6.9	1175	20.5		<0.001	0.006	<0.001	<0.0001	<0.001	<0.001	0.013	<0.05	<0.001	<0.001	<0.001	<0.01	0.040	<0.0001		765	33	18	92	2	7.16	60	23	<1	<1	250	250	7.16	0.06	0.04				410
		14-Nov-08	0841	4.11	4.99																																						
		01-Dec-08	1045	2.27	3.15																																						
		12-Jan-09	1315	4.30	5.18																																						
		25-Aug-09	1500							<0.001	0.006	<0.001	<0.0001	<0.001	<0.001	0.049	<0.05	0.006	0.002	<0.001	<0.01	0.044	<0.0001		633	26	14	80	2		47.4	23	<1	<1	224	224			<0.01				348
		01-Dec-09	1330	4.79		8.18	1002	23.3	0.05	0.005				<0.001		0.013	0.32	<0.001	0.038	0.004		<0.005	<0.0001	7.91	848	12	7	164	1	8.35	65.2	32	<1	<1	272	272	8.05	1.82		0.02	1.45	1.48	
		18-Feb-10	1240	4.64																																							
		23-Jun-10	1340		4.81	8.2	796	21	<0.01	<0.001				<0.001		0.01	<0.05	<0.001	<0.001	<0.001		0.007	<0.0001	7.22	621	29	16	93	2	6.89	51	17.8	<1	<1	250	250	6.81	0.59		<0.01	0.31	0.31	
		03-Sep-10	1305		1.93	7.39	625	22.3																																			
		08-Feb-11	1330		2.12	7.36	964	27.3	0.02	<0.001				<0.005		0.023	<0.05	<0.001	<0.001	<0.001		0.012	<0.001	7.2	766	41	24	125	2	9.52	65	33	<1	<1	345	345	9.41	0.52		<0.01	0.43	0.43	
WB8		12-Sep-08																																									
		14-Nov-08																																									
WB9	NC-008	1-Dec-08	1235	19.2	19.67																																						

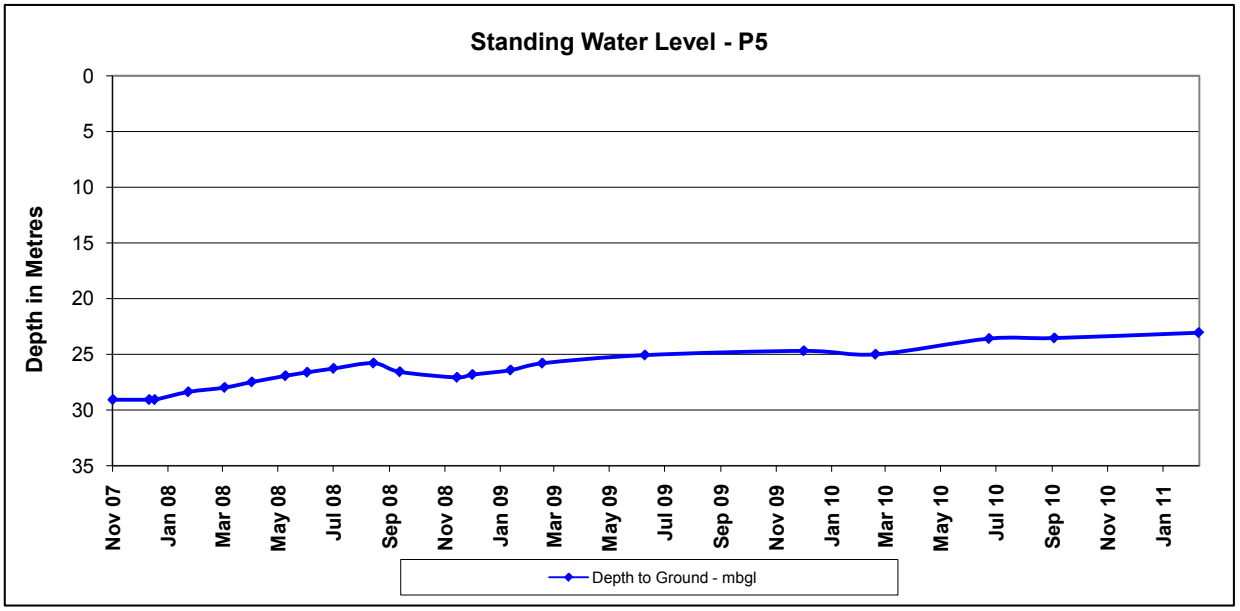
Denotes dissolved metals

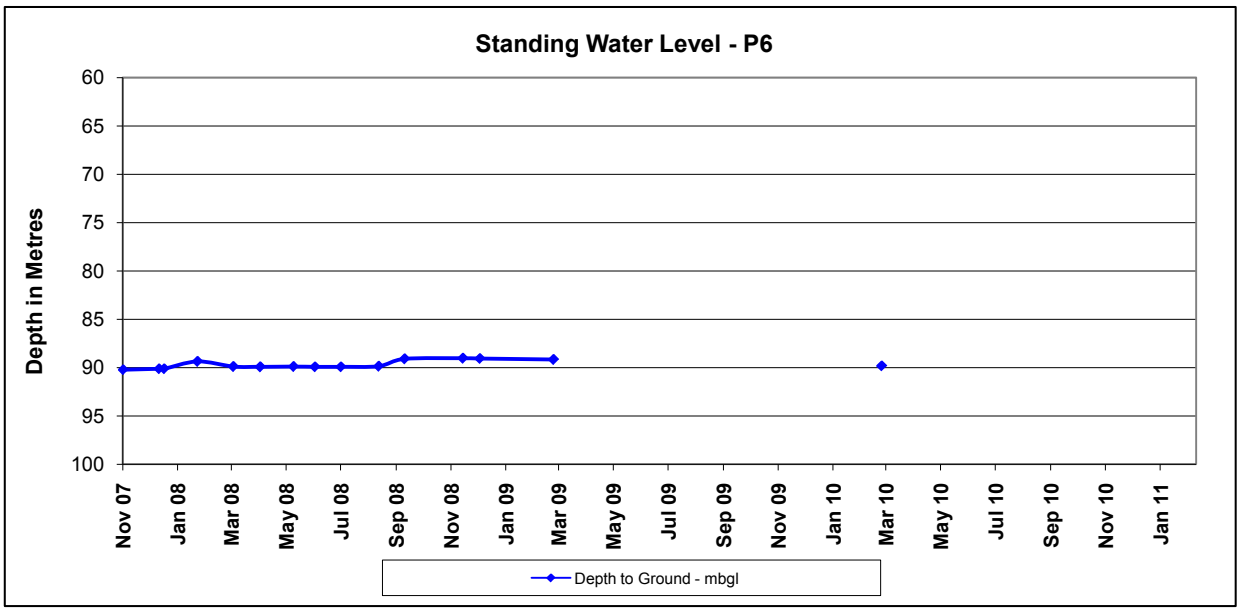

Standing Water Level - P1
Depth in Metres
0
10
20
30
40
50
60
70
80
90
100
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

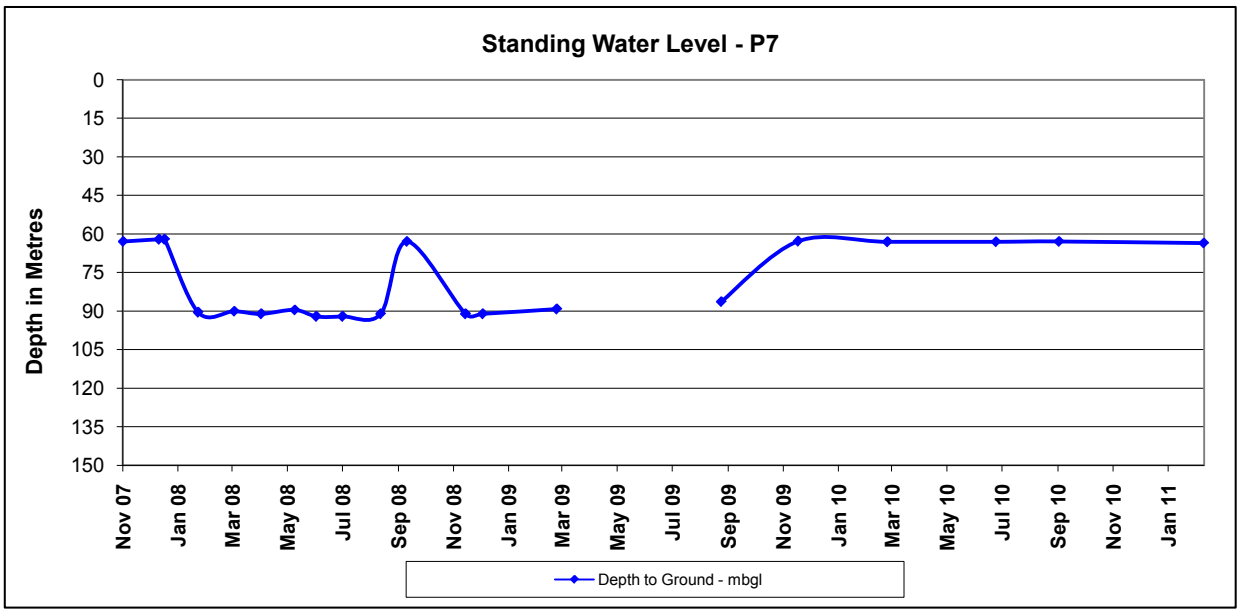

Standing Water Level - P2
Depth in Metres
0
5
10
15
20
25
30
35
40
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

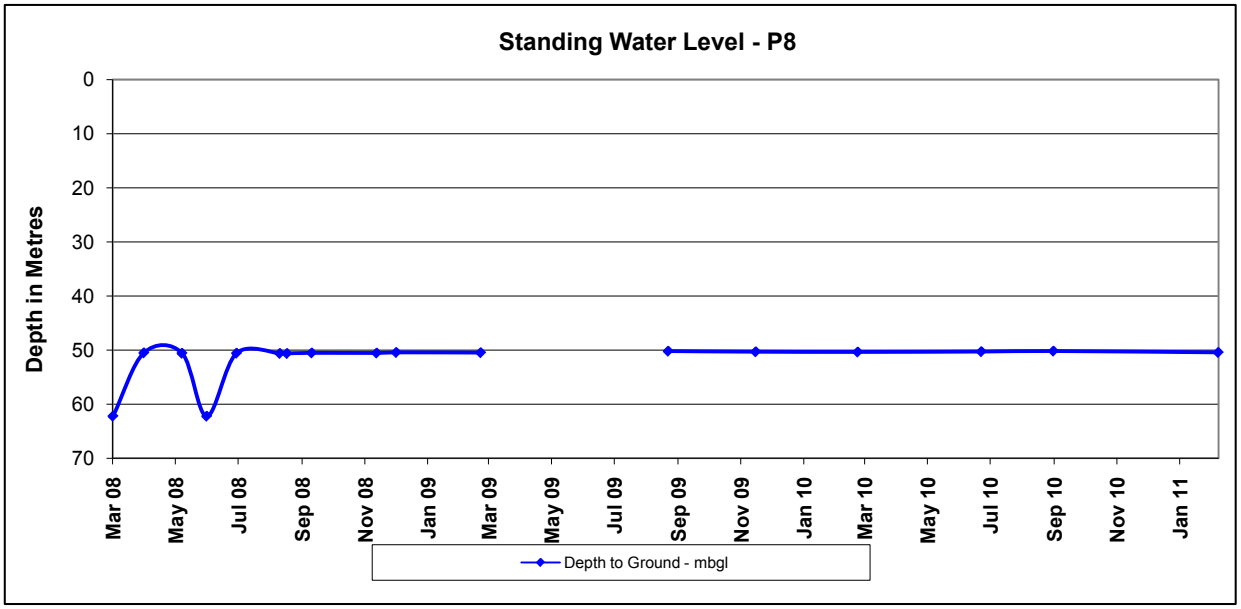

Standing Water Level - P3
Depth in Metres
0
5
10
15
20
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

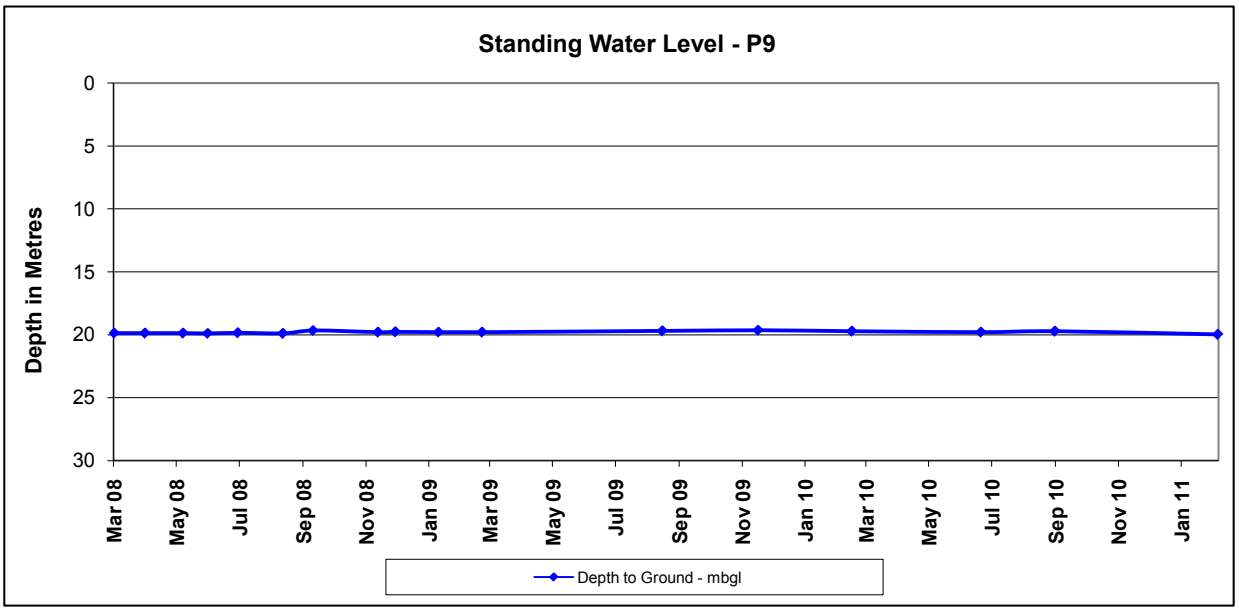

Standing Water Level - P4
Depth in Metres
0
5
10
15
20
25
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

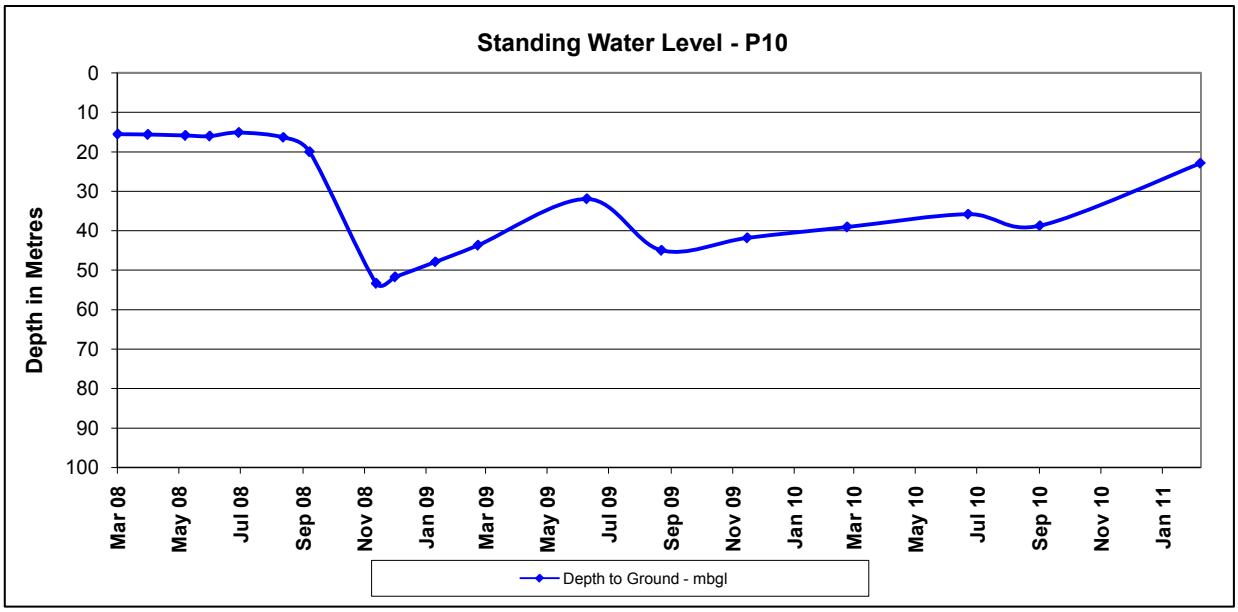

Standing Water Level - P5
Depth in Metres
0
5
10
15
20
25
30
35
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

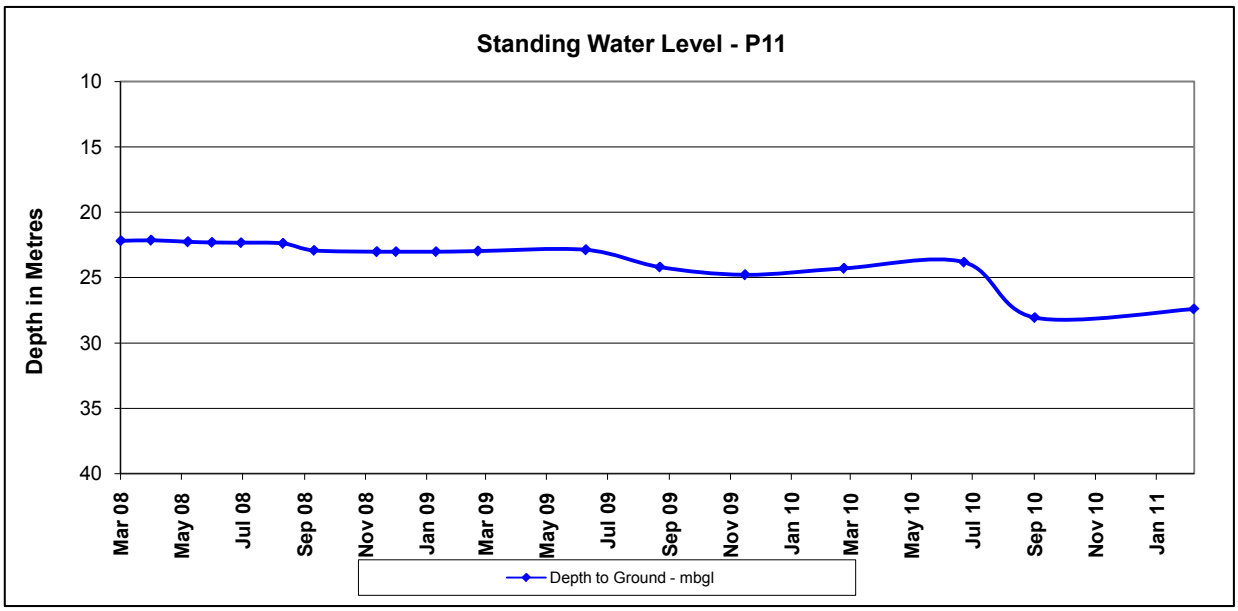

Standing Water Level - P6
Depth in Metres
60
65
70
75
80
85
90
95
100
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

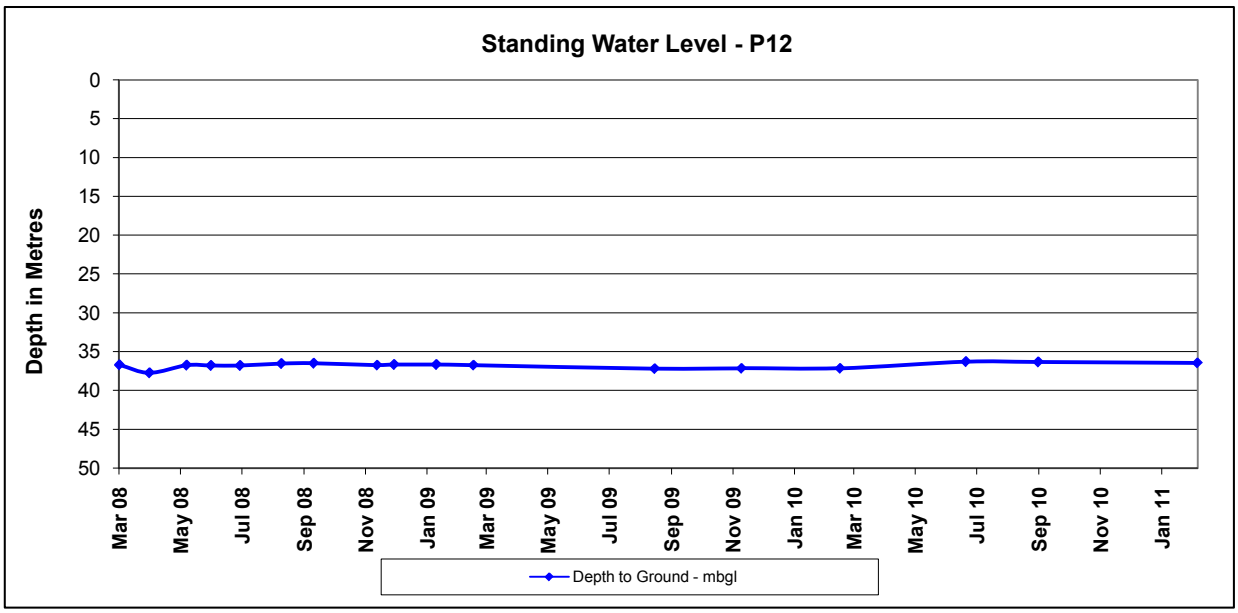

Standing Water Level - P7
Depth in Metres
0
15
30
45
60
75
90
105
120
135
150
Nov 07
Jan 08
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

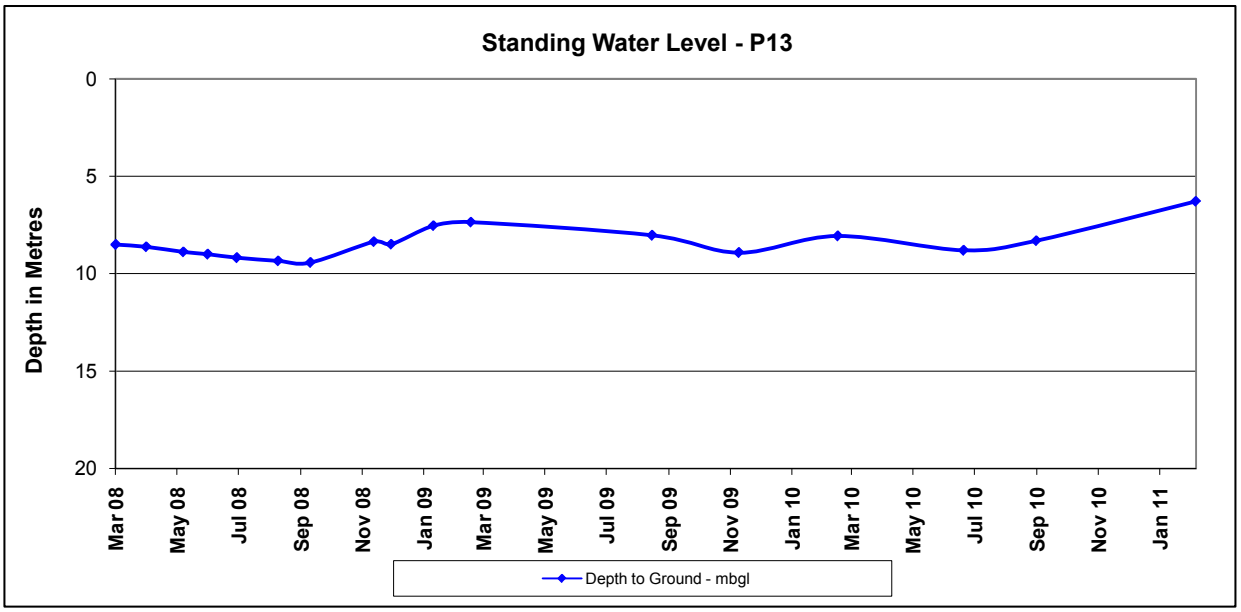

Standing Water Level - P8
Depth in Metres
0
10
20
30
40
50
60
70
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

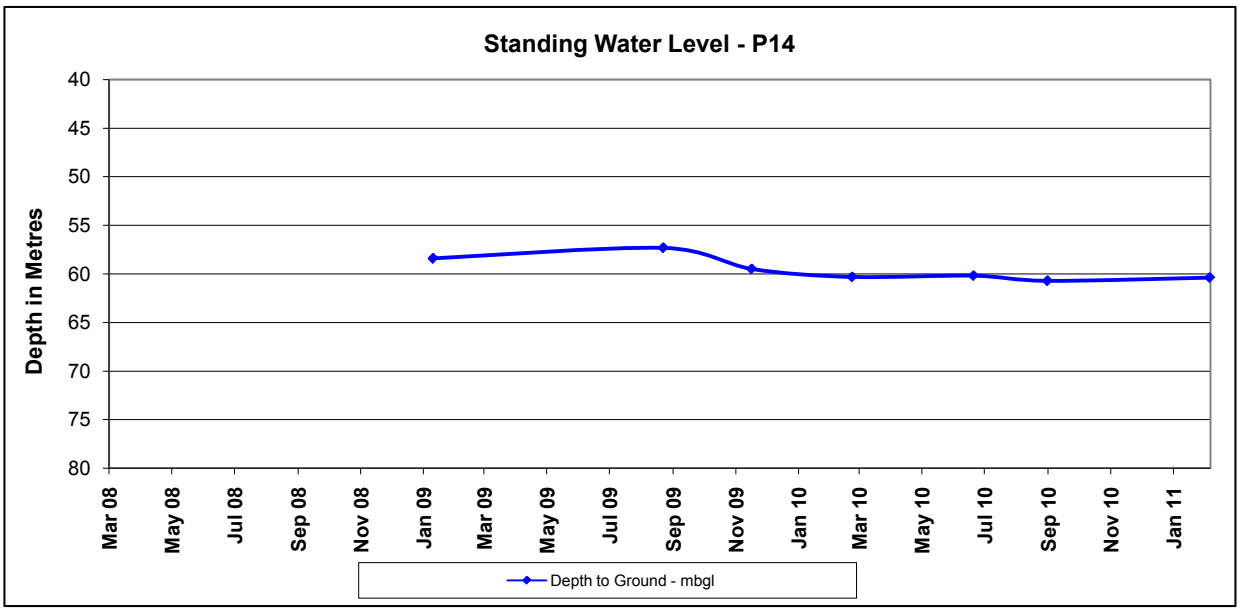

Standing Water Level - P9
Depth in Metres
0
5
10
15
20
25
30
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

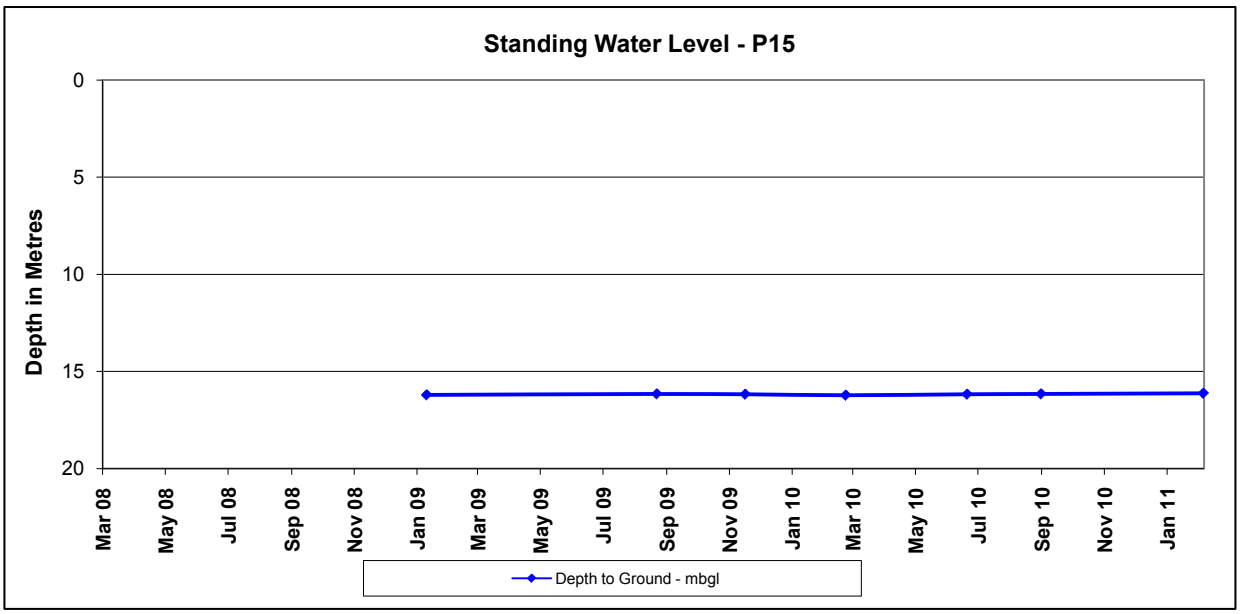

Standing Water Level - P10
Depth in Metres
0
10
20
30
40
50
60
70
80
90
100
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

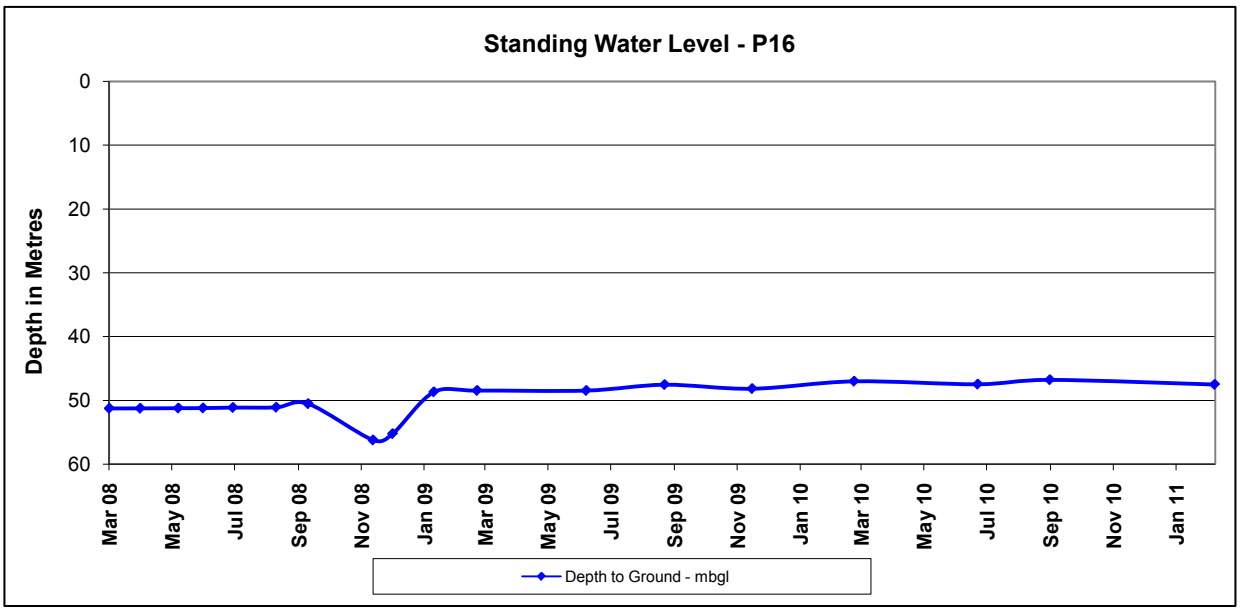

Standing Water Level - P11
Depth in Metres
10
15
20
25
30
35
40
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

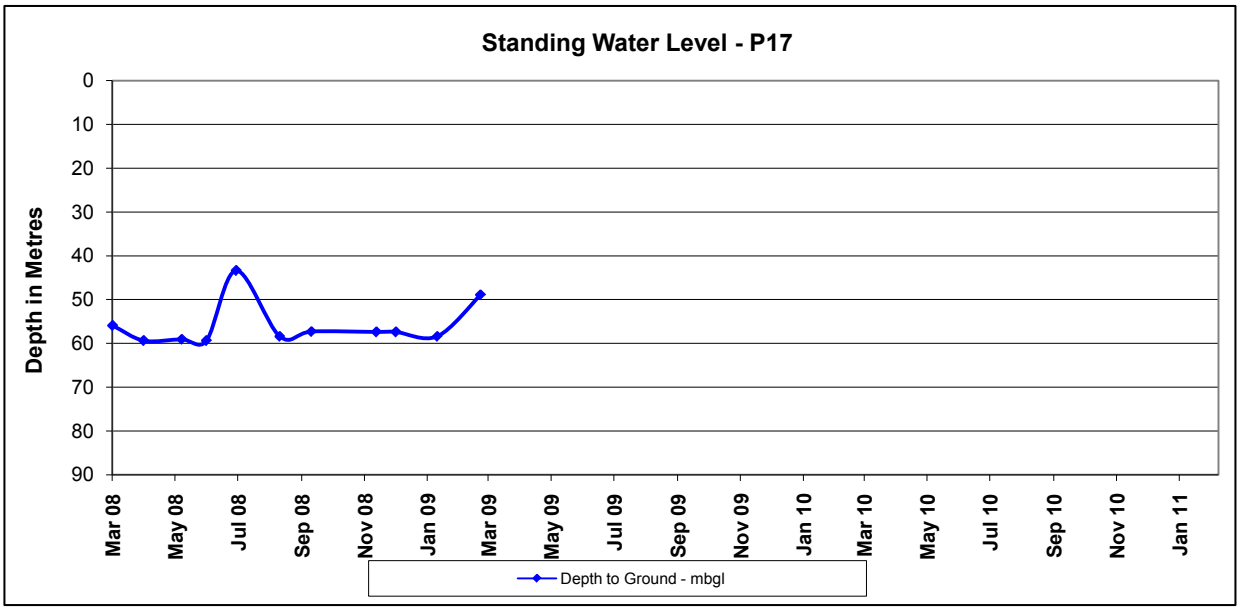

Standing Water Level - P12
Depth in Metres
0
5
10
15
20
25
30
35
40
45
50
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

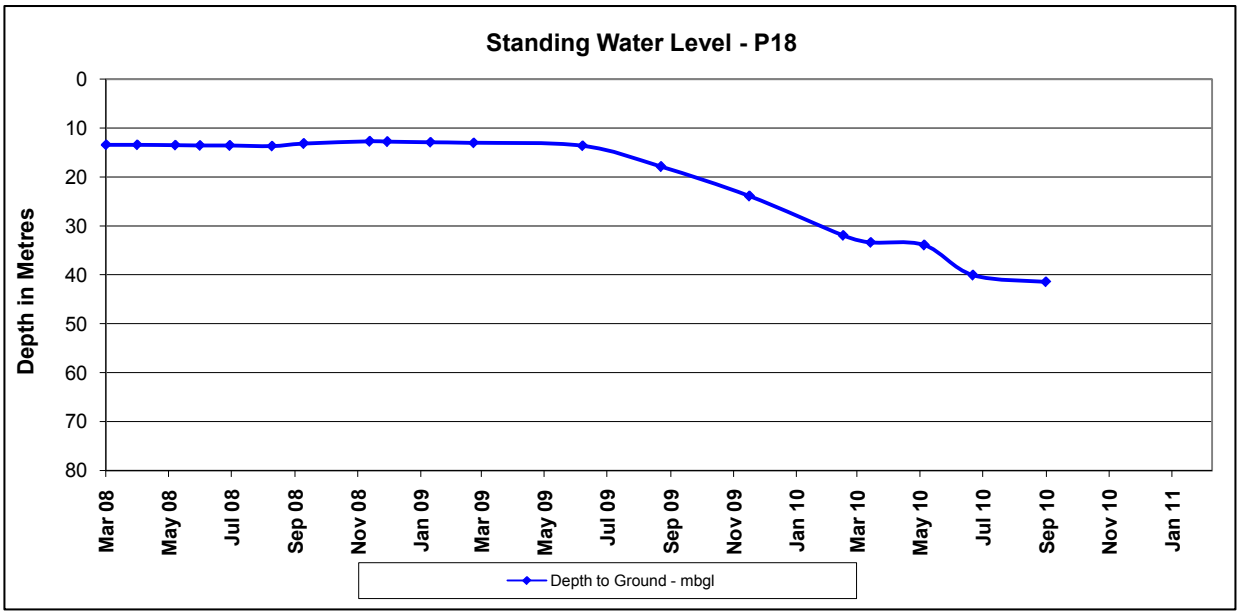

Standing Water Level - P13
Depth in Metres
0
5
10
15
20
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

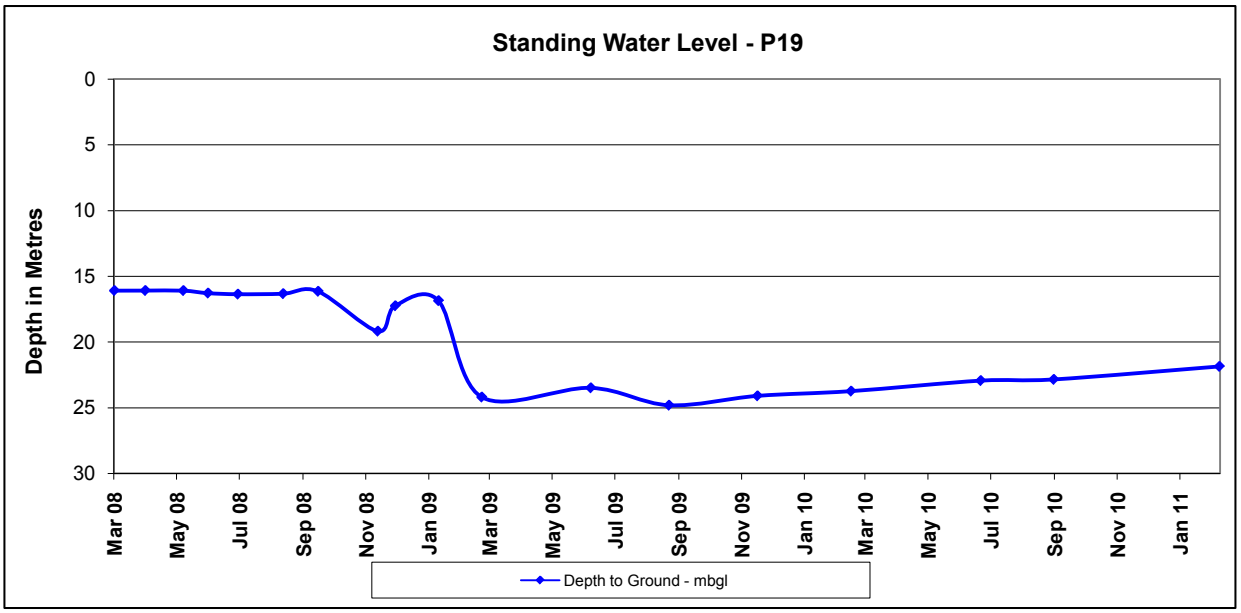

Standing Water Level - P14
Depth in Metres
40
45
50
55
60
65
70
75
80
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl

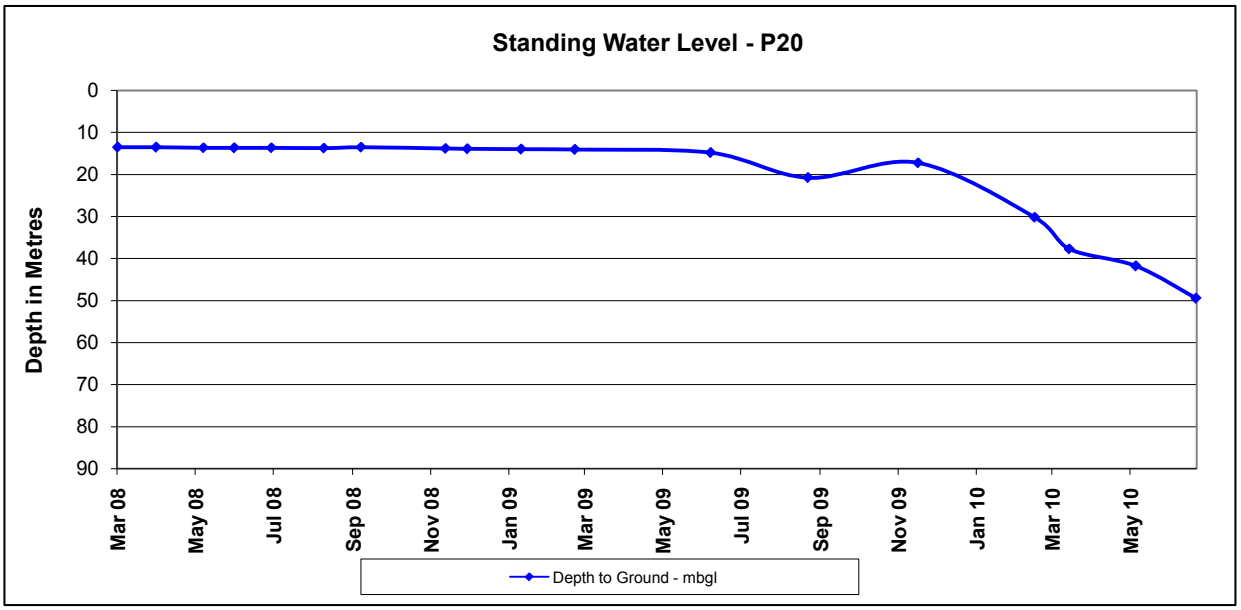

Standing Water Level - P15
Depth in Metres
0
5
10
15
20
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl


Standing Water Level - P16
Depth in Metres
0
10
20
30
40
50
60
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl


Standing Water Level - P17
Depth in Metres
0
10
20
30
40
50
60
70
80
90
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl


Standing Water Level - P18
Depth in Metres
0
10
20
30
40
50
60
70
80
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl


Standing Water Level - P19
Depth in Metres
0
5
10
15
20
25
30
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Jul 10
Sep 10
Nov 10
Jan 11
Depth to Ground - mbgl


Standing Water Level - P20
Depth in Metres
0
10
20
30
40
50
60
70
80
90
Mar 08
May 08
Jul 08
Sep 08
Nov 08
Jan 09
Mar 09
May 09
Jul 09
Sep 09
Nov 09
Jan 10
Mar 10
May 10
Depth to Ground - mbgl