

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792: SN#: 13792 SN#: 137922			TOC Elev	Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation		
8/14/09	3:50:09	710	26.936	10.597	145.767	5169.233	139.707	5175.293
8/14/09	3:55:09	715	26.933	10.593	145.772	5169.228	139.712	5175.288
8/14/09	4:00:09	720	26.935	10.593	145.768	5169.232	139.708	5175.292
8/14/09	4:05:09	725	26.935	10.591	145.768	5169.232	139.708	5175.292
8/14/09	4:10:09	730	26.935	10.592	145.768	5169.232	139.708	5175.292
8/14/09	4:15:09	735	26.936	10.591	145.767	5169.233	139.707	5175.293
8/14/09	4:20:09	740	26.930	10.595	145.779	5169.221	139.719	5175.281
8/14/09	4:25:09	745	26.935	10.593	145.769	5169.231	139.709	5175.291
8/14/09	4:30:09	750	26.936	10.594	145.766	5169.234	139.706	5175.294
8/14/09	4:35:09	755	26.936	10.593	145.766	5169.234	139.706	5175.294
8/14/09	4:40:09	760	26.937	10.591	145.765	5169.235	139.705	5175.295
8/14/09	4:45:09	765	26.938	10.588	145.762	5169.238	139.702	5175.298
8/14/09	4:50:09	770	26.937	10.588	145.764	5169.236	139.704	5175.296
8/14/09	4:55:09	775	26.937	10.588	145.764	5169.236	139.704	5175.296
8/14/09	5:00:09	780	26.937	10.589	145.763	5169.237	139.703	5175.297
8/14/09	5:05:09	785	26.938	10.587	145.761	5169.239	139.701	5175.299
8/14/09	5:10:09	790	26.938	10.583	145.762	5169.238	139.702	5175.298
8/14/09	5:15:09	795	26.936	10.585	145.766	5169.234	139.706	5175.294
8/14/09	5:20:09	800	26.939	10.586	145.760	5169.240	139.700	5175.300
8/14/09	5:25:09	805	26.933	10.588	145.774	5169.226	139.714	5175.286
8/14/09	5:30:09	810	26.932	10.587	145.775	5169.225	139.715	5175.285
8/14/09	5:35:09	815	26.938	10.586	145.761	5169.239	139.701	5175.299
8/14/09	5:40:09	820	26.939	10.587	145.760	5169.240	139.700	5175.300
8/14/09	5:45:09	825	26.940	10.587	145.758	5169.242	139.698	5175.302
8/14/09	5:50:09	830	26.938	10.586	145.761	5169.239	139.701	5175.299
8/14/09	5:55:09	835	26.940	10.583	145.756	5169.244	139.696	5175.304
8/14/09	6:00:09	840	26.939	10.579	145.760	5169.240	139.700	5175.300
8/14/09	6:05:09	845	26.940	10.580	145.758	5169.242	139.698	5175.302
8/14/09	6:10:09	850	26.934	10.587	145.771	5169.229	139.711	5175.289
8/14/09	6:15:09	855	26.940	10.583	145.757	5169.243	139.697	5175.303
8/14/09	6:20:09	860	26.939	10.584	145.758	5169.242	139.698	5175.302
8/14/09	6:25:09	865	26.940	10.584	145.756	5169.244	139.696	5175.304
8/14/09	6:30:09	870	26.934	10.581	145.771	5169.229	139.711	5175.289
8/14/09	6:35:09	875	26.940	10.581	145.757	5169.243	139.697	5175.303
8/14/09	6:40:09	880	26.941	10.583	145.756	5169.244	139.696	5175.304
8/14/09	6:45:09	885	26.940	10.583	145.758	5169.242	139.698	5175.302
8/14/09	6:50:09	890	26.938	10.583	145.760	5169.240	139.700	5175.300
8/14/09	6:55:09	895	26.931	10.582	145.777	5169.223	139.717	5175.283
8/14/09	7:00:09	900	26.940	10.577	145.758	5169.242	139.698	5175.302
8/14/09	7:05:09	905	26.940	10.580	145.757	5169.243	139.697	5175.303
8/14/09	7:10:09	910	26.947	10.585	145.741	5169.259	139.681	5175.319
8/14/09	7:15:09	915	26.977	10.597	145.671	5169.329	139.611	5175.389
8/14/09	7:20:09	920	29.389	10.627	140.101	5174.899	139.601	5175.399
8/14/09	7:25:09	925	29.383	10.631	140.116	5174.884	139.616	5175.384
8/14/09	7:28:26	0	29.380	10.616	140.122	5174.878	139.622	5175.378
8/14/09	7:28:41	0.25	29.381	10.618	140.118	5174.882	139.618	5175.382
8/14/09	7:28:56	0.5	29.380	10.617	140.121	5174.879	139.621	5175.379
8/14/09	7:29:11	0.75	29.378	10.623	140.126	5174.874	139.626	5175.374
8/14/09	7:29:26	1	29.378	10.625	140.125	5174.875	139.625	5175.375
8/14/09	7:29:41	1.25	29.385	10.624	140.109	5174.891	139.609	5175.391
8/14/09	7:29:56	1.5	29.384	10.628	140.111	5174.889	139.611	5175.389
8/14/09	7:30:11	1.75	27.685	10.631	144.035	5170.965	143.535	5171.465
8/14/09	7:30:26	2	26.368	10.630	147.075	5167.925	146.575	5168.425
8/14/09	7:30:41	2.25	25.911	10.626	148.130	5166.870	147.630	5167.370

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	7:30:56	2.5	25.889	10.622	148.182	5166.818		147.682	5167.318
8/14/09	7:31:11	2.75	25.527	10.617	149.017	5165.983		148.517	5166.483
8/14/09	7:31:26	3	25.150	10.614	149.887	5165.113		149.387	5165.613
8/14/09	7:31:41	3.25	24.332	10.608	151.776	5163.224		151.276	5163.724
8/14/09	7:31:56	3.5	23.383	10.599	153.966	5161.034		153.466	5161.534
8/14/09	7:32:11	3.75	22.789	10.594	155.339	5159.661		154.839	5160.161
8/14/09	7:32:26	4	23.421	10.586	153.880	5161.120		153.380	5161.620
8/14/09	7:32:41	4.25	24.206	10.582	152.067	5162.933		151.567	5163.433
8/14/09	7:32:56	4.5	24.852	10.578	150.575	5164.425		150.075	5164.925
8/14/09	7:33:11	4.75	25.399	10.579	149.314	5165.686		148.814	5166.186
8/14/09	7:33:26	5	25.836	10.578	148.304	5166.696		147.804	5167.196
8/14/09	7:33:41	5.25	26.314	10.581	147.200	5167.800		146.700	5168.300
8/14/09	7:33:56	5.5	26.773	10.583	146.141	5168.859		145.641	5169.359
8/14/09	7:34:11	5.75	27.145	10.589	145.282	5169.718		144.782	5170.218
8/14/09	7:34:26	6	27.379	10.591	144.742	5170.258		144.242	5170.758
8/14/09	7:34:41	6.25	27.495	10.598	144.474	5170.526		143.974	5171.026
8/14/09	7:34:56	6.5	27.557	10.602	144.330	5170.670		143.830	5171.170
8/14/09	7:35:11	6.75	27.587	10.608	144.261	5170.739		143.761	5171.239
8/14/09	7:35:26	7	27.617	10.612	144.191	5170.809		143.691	5171.309
8/14/09	7:35:41	7.25	27.653	10.616	144.108	5170.892		143.608	5171.392
8/14/09	7:35:56	7.5	27.674	10.623	144.060	5170.940		143.560	5171.440
8/14/09	7:36:11	7.75	27.706	10.624	143.986	5171.014		143.486	5171.514
8/14/09	7:36:26	8	27.731	10.629	143.928	5171.072		143.428	5171.572
8/14/09	7:36:41	8.25	27.750	10.634	143.884	5171.116		143.384	5171.616
8/14/09	7:36:56	8.5	27.782	10.638	143.811	5171.189		143.311	5171.689
8/14/09	7:37:11	8.75	27.806	10.642	143.756	5171.244		143.256	5171.744
8/14/09	7:37:26	9	27.829	10.644	143.702	5171.298		143.202	5171.798
8/14/09	7:37:41	9.25	27.848	10.647	143.658	5171.342		143.158	5171.842
8/14/09	7:37:56	9.5	27.876	10.651	143.594	5171.406		143.094	5171.906
8/14/09	7:38:11	9.75	27.891	10.649	143.558	5171.442		143.058	5171.942
8/14/09	7:38:26	10	27.919	10.654	143.494	5171.506		142.994	5172.006
8/14/09	7:38:41	10.25	27.934	10.651	143.458	5171.542		142.958	5172.042
8/14/09	7:38:56	10.5	27.953	10.656	143.416	5171.584		142.916	5172.084
8/14/09	7:39:11	10.75	27.974	10.657	143.367	5171.633		142.867	5172.133
8/14/09	7:39:26	11	28.000	10.659	143.306	5171.694		142.806	5172.194
8/14/09	7:39:41	11.25	28.018	10.660	143.266	5171.734		142.766	5172.234
8/14/09	7:39:56	11.5	28.039	10.665	143.217	5171.783		142.717	5172.283
8/14/09	7:40:11	11.75	28.057	10.664	143.175	5171.825		142.675	5172.325
8/14/09	7:40:26	12	28.069	10.668	143.147	5171.853		142.647	5172.353
8/14/09	7:40:41	12.25	28.094	10.663	143.090	5171.910		142.590	5172.410
8/14/09	7:40:56	12.5	28.110	10.667	143.053	5171.947		142.553	5172.447
8/14/09	7:41:11	12.75	28.129	10.667	143.010	5171.990		142.510	5172.490
8/14/09	7:41:26	13	28.146	10.666	142.971	5172.029		142.471	5172.529
8/14/09	7:41:41	13.25	28.163	10.667	142.932	5172.068		142.432	5172.568
8/14/09	7:41:56	13.5	28.179	10.669	142.895	5172.105		142.395	5172.605
8/14/09	7:42:11	13.75	28.196	10.668	142.855	5172.145		142.355	5172.645
8/14/09	7:42:26	14	28.210	10.671	142.823	5172.177		142.323	5172.677
8/14/09	7:42:41	14.25	28.221	10.670	142.796	5172.204		142.296	5172.704
8/14/09	7:42:56	14.5	28.242	10.672	142.749	5172.251		142.249	5172.751
8/14/09	7:43:11	14.75	28.258	10.671	142.712	5172.288		142.212	5172.788
8/14/09	7:43:26	15	28.268	10.675	142.688	5172.312		142.188	5172.812
8/14/09	7:43:41	15.25	28.286	10.675	142.647	5172.353		142.147	5172.853
8/14/09	7:43:56	15.5	28.301	10.677	142.613	5172.387		142.113	5172.887
8/14/09	7:44:11	15.75	28.316	10.675	142.578	5172.422		142.078	5172.922

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	7:44:26	16	28.329	10.674	142.547	5172.453	142.047	5172.953
8/14/09	7:44:41	16.25	28.342	10.676	142.518	5172.482	142.018	5172.982
8/14/09	7:44:56	16.5	28.356	10.676	142.486	5172.514	141.986	5173.014
8/14/09	7:45:11	16.75	28.368	10.679	142.456	5172.544	141.956	5173.044
8/14/09	7:45:26	17	28.384	10.677	142.422	5172.578	141.922	5173.078
8/14/09	7:45:41	17.25	28.387	10.678	142.414	5172.586	141.914	5173.086
8/14/09	7:45:56	17.5	28.406	10.679	142.370	5172.630	141.870	5173.130
8/14/09	7:46:11	17.75	28.419	10.681	142.339	5172.661	141.839	5173.161
8/14/09	7:46:26	18	28.429	10.679	142.316	5172.684	141.816	5173.184
8/14/09	7:46:41	18.25	28.444	10.680	142.282	5172.718	141.782	5173.218
8/14/09	7:46:56	18.5	28.454	10.681	142.259	5172.741	141.759	5173.241
8/14/09	7:47:11	18.75	28.467	10.681	142.229	5172.771	141.729	5173.271
8/14/09	7:47:26	19	28.478	10.683	142.205	5172.795	141.705	5173.295
8/14/09	7:47:41	19.25	28.490	10.683	142.176	5172.824	141.676	5173.324
8/14/09	7:47:56	19.5	28.501	10.684	142.150	5172.850	141.650	5173.350
8/14/09	7:48:11	19.75	28.511	10.684	142.127	5172.873	141.627	5173.373
8/14/09	7:48:26	20	28.516	10.686	142.117	5172.883	141.617	5173.383
8/14/09	7:48:41	20.25	28.533	10.683	142.076	5172.925	141.576	5173.425
8/14/09	7:48:56	20.5	28.543	10.687	142.054	5172.946	141.554	5173.446
8/14/09	7:49:11	20.75	28.554	10.687	142.027	5172.973	141.527	5173.473
8/14/09	7:49:26	21	28.564	10.689	142.004	5172.996	141.504	5173.496
8/14/09	7:49:41	21.25	28.573	10.687	141.984	5173.016	141.484	5173.516
8/14/09	7:49:56	21.5	28.584	10.690	141.960	5173.040	141.460	5173.540
8/14/09	7:50:11	21.75	28.592	10.690	141.939	5173.061	141.439	5173.561
8/14/09	7:50:26	22	28.604	10.691	141.913	5173.087	141.413	5173.587
8/14/09	7:50:41	22.25	28.612	10.692	141.893	5173.107	141.393	5173.607
8/14/09	7:50:56	22.5	28.621	10.690	141.873	5173.127	141.373	5173.627
8/14/09	7:51:11	22.75	28.624	10.693	141.866	5173.134	141.366	5173.634
8/14/09	7:51:26	23	28.640	10.693	141.829	5173.171	141.329	5173.671
8/14/09	7:51:41	23.25	28.650	10.691	141.807	5173.193	141.307	5173.693
8/14/09	7:51:56	23.5	28.657	10.692	141.790	5173.210	141.290	5173.710
8/14/09	7:52:11	23.75	28.666	10.692	141.769	5173.231	141.269	5173.731
8/14/09	7:52:26	24	28.674	10.694	141.751	5173.249	141.251	5173.749
8/14/09	7:52:41	24.25	28.681	10.691	141.735	5173.265	141.235	5173.765
8/14/09	7:52:56	24.5	28.690	10.695	141.713	5173.287	141.213	5173.787
8/14/09	7:53:11	24.75	28.698	10.696	141.695	5173.305	141.195	5173.805
8/14/09	7:53:26	25	28.707	10.694	141.675	5173.325	141.175	5173.825
8/14/09	7:53:41	25.25	28.715	10.693	141.657	5173.343	141.157	5173.843
8/14/09	7:53:56	25.5	28.724	10.701	141.634	5173.366	141.134	5173.866
8/14/09	7:54:11	25.75	28.729	10.694	141.624	5173.376	141.124	5173.876
8/14/09	7:54:26	26	28.737	10.695	141.606	5173.394	141.106	5173.894
8/14/09	7:54:41	26.25	28.745	10.695	141.586	5173.414	141.086	5173.914
8/14/09	7:54:56	26.5	28.752	10.694	141.570	5173.430	141.070	5173.930
8/14/09	7:55:11	26.75	28.759	10.696	141.554	5173.446	141.054	5173.946
8/14/09	7:55:26	27	28.766	10.698	141.537	5173.463	141.037	5173.963
8/14/09	7:55:41	27.25	28.773	10.701	141.523	5173.477	141.023	5173.977
8/14/09	7:55:56	27.5	28.781	10.699	141.505	5173.495	141.005	5173.995
8/14/09	7:56:11	27.75	28.788	10.701	141.488	5173.512	140.988	5174.012
8/14/09	7:56:26	28	28.794	10.701	141.473	5173.527	140.973	5174.027
8/14/09	7:56:41	28.25	28.801	10.702	141.457	5173.543	140.957	5174.043
8/14/09	7:56:56	28.5	28.806	10.701	141.447	5173.553	140.947	5174.053
8/14/09	7:57:11	28.75	28.813	10.701	141.429	5173.571	140.929	5174.071
8/14/09	7:57:26	29	28.821	10.699	141.411	5173.589	140.911	5174.089
8/14/09	7:57:41	29.25	28.826	10.702	141.399	5173.601	140.899	5174.101

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	7:57:56	29.5	28.832	10.701	141.387	5173.613		140.887	5174.113
8/14/09	7:58:11	29.75	28.840	10.698	141.369	5173.631		140.869	5174.131
8/14/09	7:58:26	30	28.844	10.701	141.358	5173.642		140.858	5174.142
8/14/09	7:58:41	30.25	28.851	10.701	141.343	5173.657		140.843	5174.157
8/14/09	7:58:56	30.5	28.857	10.702	141.329	5173.671		140.829	5174.171
8/14/09	7:59:11	30.75	28.863	10.699	141.314	5173.686		140.814	5174.186
8/14/09	7:59:26	31	28.875	10.701	141.286	5173.714		140.786	5174.214
8/14/09	7:59:41	31.25	28.874	10.700	141.289	5173.711		140.789	5174.211
8/14/09	7:59:56	31.5	28.880	10.698	141.276	5173.724		140.776	5174.224
8/14/09	8:00:11	31.75	28.886	10.701	141.262	5173.738		140.762	5174.238
8/14/09	8:00:26	32	28.889	10.700	141.254	5173.746		140.754	5174.246
8/14/09	8:00:41	32.25	28.895	10.700	141.241	5173.759		140.741	5174.259
8/14/09	8:00:56	32.5	28.901	10.700	141.226	5173.774		140.726	5174.274
8/14/09	8:01:11	32.75	28.907	10.699	141.214	5173.786		140.714	5174.286
8/14/09	8:01:26	33	28.910	10.697	141.205	5173.795		140.705	5174.295
8/14/09	8:01:41	33.25	28.915	10.699	141.194	5173.806		140.694	5174.306
8/14/09	8:01:56	33.5	28.920	10.700	141.184	5173.816		140.684	5174.316
8/14/09	8:02:11	33.75	28.930	10.697	141.159	5173.841		140.659	5174.341
8/14/09	8:02:26	34	28.930	10.698	141.160	5173.840		140.660	5174.340
8/14/09	8:02:41	34.25	28.935	10.701	141.147	5173.853		140.647	5174.353
8/14/09	8:02:56	34.5	28.939	10.700	141.138	5173.862		140.638	5174.362
8/14/09	8:03:11	34.75	28.945	10.703	141.124	5173.876		140.624	5174.376
8/14/09	8:03:26	35	28.949	10.700	141.116	5173.884		140.616	5174.384
8/14/09	8:03:41	35.25	28.953	10.700	141.106	5173.894		140.606	5174.394
8/14/09	8:03:56	35.5	28.958	10.699	141.095	5173.905		140.595	5174.405
8/14/09	8:04:11	35.75	28.963	10.702	141.084	5173.916		140.584	5174.416
8/14/09	8:04:26	36	28.966	10.702	141.077	5173.923		140.577	5174.423
8/14/09	8:04:41	36.25	28.970	10.698	141.068	5173.932		140.568	5174.432
8/14/09	8:04:56	36.5	28.973	10.700	141.059	5173.941		140.559	5174.441
8/14/09	8:05:11	36.75	28.979	10.699	141.046	5173.954		140.546	5174.454
8/14/09	8:05:26	37	28.983	10.698	141.036	5173.964		140.536	5174.464
8/14/09	8:05:41	37.25	28.987	10.699	141.027	5173.973		140.527	5174.473
8/14/09	8:05:56	37.5	28.991	10.699	141.020	5173.980		140.520	5174.480
8/14/09	8:06:11	37.75	28.995	10.698	141.009	5173.991		140.509	5174.491
8/14/09	8:06:26	38	28.998	10.698	141.003	5173.997		140.503	5174.497
8/14/09	8:06:41	38.25	29.001	10.695	140.995	5174.005		140.495	5174.505
8/14/09	8:06:56	38.5	29.005	10.699	140.986	5174.014		140.486	5174.514
8/14/09	8:07:11	38.75	29.010	10.699	140.976	5174.024		140.476	5174.524
8/14/09	8:07:26	39	29.020	10.698	140.951	5174.049		140.451	5174.549
8/14/09	8:07:41	39.25	29.017	10.700	140.958	5174.042		140.458	5174.542
8/14/09	8:07:56	39.5	29.021	10.700	140.951	5174.049		140.451	5174.549
8/14/09	8:08:11	39.75	29.025	10.700	140.940	5174.060		140.440	5174.560
8/14/09	8:08:26	40	29.028	10.699	140.933	5174.067		140.433	5174.567
8/14/09	8:08:41	40.25	29.031	10.699	140.926	5174.074		140.426	5174.574
8/14/09	8:08:56	40.5	29.035	10.700	140.917	5174.083		140.417	5174.583
8/14/09	8:09:11	40.75	29.038	10.699	140.909	5174.091		140.409	5174.591
8/14/09	8:09:26	41	29.041	10.699	140.902	5174.098		140.402	5174.598
8/14/09	8:09:41	41.25	29.045	10.697	140.894	5174.106		140.394	5174.606
8/14/09	8:09:56	41.5	29.047	10.699	140.889	5174.111		140.389	5174.611
8/14/09	8:10:11	41.75	29.058	10.702	140.864	5174.136		140.364	5174.636
8/14/09	8:10:26	42	29.055	10.698	140.871	5174.129		140.371	5174.629
8/14/09	8:10:41	42.25	29.057	10.702	140.866	5174.134		140.366	5174.634
8/14/09	8:10:56	42.5	29.061	10.701	140.858	5174.142		140.358	5174.642
8/14/09	8:11:11	42.75	29.063	10.699	140.852	5174.148		140.352	5174.648

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	8:11:26	43	29.067	10.699	140.844	5174.156	140.344	5174.656
8/14/09	8:11:41	43.25	29.069	10.699	140.838	5174.162	140.338	5174.662
8/14/09	8:11:56	43.5	29.072	10.700	140.832	5174.168	140.332	5174.668
8/14/09	8:12:11	43.75	29.074	10.699	140.827	5174.173	140.327	5174.673
8/14/09	8:12:26	44	29.080	10.699	140.815	5174.185	140.315	5174.685
8/14/09	8:12:41	44.25	29.082	10.699	140.809	5174.191	140.309	5174.691
8/14/09	8:12:56	44.5	29.083	10.698	140.807	5174.193	140.307	5174.693
8/14/09	8:13:11	44.75	29.087	10.699	140.798	5174.202	140.298	5174.702
8/14/09	8:13:26	45	29.090	10.698	140.791	5174.209	140.291	5174.709
8/14/09	8:13:41	45.25	29.093	10.702	140.784	5174.216	140.284	5174.716
8/14/09	8:13:56	45.5	29.094	10.698	140.780	5174.220	140.280	5174.720
8/14/09	8:14:11	45.75	29.096	10.701	140.777	5174.223	140.277	5174.723
8/14/09	8:14:26	46	29.100	10.700	140.766	5174.234	140.266	5174.734
8/14/09	8:14:41	46.25	29.103	10.699	140.761	5174.239	140.261	5174.739
8/14/09	8:14:56	46.5	29.105	10.696	140.756	5174.244	140.256	5174.744
8/14/09	8:15:11	46.75	29.108	10.699	140.748	5174.252	140.248	5174.752
8/14/09	8:15:26	47	29.110	10.697	140.744	5174.256	140.244	5174.756
8/14/09	8:15:41	47.25	29.113	10.699	140.737	5174.263	140.237	5174.763
8/14/09	8:15:56	47.5	29.115	10.696	140.732	5174.268	140.232	5174.768
8/14/09	8:16:11	47.75	29.116	10.696	140.730	5174.270	140.230	5174.770
8/14/09	8:16:26	48	29.121	10.698	140.719	5174.281	140.219	5174.781
8/14/09	8:16:41	48.25	29.123	10.695	140.714	5174.286	140.214	5174.786
8/14/09	8:16:56	48.5	29.124	10.697	140.711	5174.289	140.211	5174.789
8/14/09	8:17:11	48.75	29.128	10.695	140.704	5174.296	140.204	5174.796
8/14/09	8:17:26	49	29.131	10.698	140.696	5174.304	140.196	5174.804
8/14/09	8:17:41	49.25	29.131	10.699	140.695	5174.305	140.195	5174.805
8/14/09	8:17:56	49.5	29.134	10.696	140.688	5174.312	140.188	5174.812
8/14/09	8:18:11	49.75	29.135	10.697	140.686	5174.314	140.186	5174.814
8/14/09	8:18:26	50	29.138	10.697	140.680	5174.320	140.180	5174.820
8/14/09	8:18:41	50.25	29.140	10.695	140.674	5174.326	140.174	5174.826
8/14/09	8:18:56	50.5	29.141	10.694	140.672	5174.328	140.172	5174.828
8/14/09	8:19:11	50.75	29.144	10.697	140.666	5174.334	140.166	5174.834
8/14/09	8:19:26	51	29.147	10.696	140.658	5174.342	140.158	5174.842
8/14/09	8:19:41	51.25	29.148	10.697	140.656	5174.344	140.156	5174.844
8/14/09	8:19:56	51.5	29.151	10.694	140.650	5174.350	140.150	5174.850
8/14/09	8:20:11	51.75	29.153	10.693	140.646	5174.354	140.146	5174.854
8/14/09	8:20:26	52	29.154	10.697	140.644	5174.356	140.144	5174.856
8/14/09	8:20:41	52.25	29.155	10.696	140.640	5174.360	140.140	5174.860
8/14/09	8:20:56	52.5	29.156	10.697	140.638	5174.362	140.138	5174.862
8/14/09	8:21:11	52.75	29.159	10.697	140.632	5174.368	140.132	5174.868
8/14/09	8:21:26	53	29.160	10.696	140.630	5174.370	140.130	5174.870
8/14/09	8:21:41	53.25	29.163	10.694	140.622	5174.378	140.122	5174.878
8/14/09	8:21:56	53.5	29.164	10.694	140.619	5174.381	140.119	5174.881
8/14/09	8:22:11	53.75	29.167	10.693	140.613	5174.387	140.113	5174.887
8/14/09	8:22:26	54	29.169	10.693	140.608	5174.392	140.108	5174.892
8/14/09	8:22:41	54.25	29.170	10.693	140.606	5174.394	140.106	5174.894
8/14/09	8:22:56	54.5	29.172	10.692	140.601	5174.399	140.101	5174.899
8/14/09	8:23:11	54.75	29.174	10.693	140.596	5174.404	140.096	5174.904
8/14/09	8:23:26	55	29.176	10.692	140.592	5174.408	140.092	5174.908
8/14/09	8:23:41	55.25	29.178	10.694	140.587	5174.413	140.087	5174.913
8/14/09	8:23:56	55.5	29.176	10.682	140.592	5174.408	140.092	5174.908
8/14/09	8:24:11	55.75	29.178	10.681	140.588	5174.412	140.088	5174.912
8/14/09	8:24:26	56	29.178	10.680	140.586	5174.414	140.086	5174.914
8/14/09	8:24:41	56.25	29.181	10.674	140.580	5174.420	140.080	5174.920

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	8:24:56	56.5	29.182	10.672	140.578	5174.422	140.078	5174.922
8/14/09	8:25:11	56.75	29.183	10.671	140.576	5174.424	140.076	5174.924
8/14/09	8:25:26	57	29.184	10.668	140.574	5174.426	140.074	5174.926
8/14/09	8:25:41	57.25	29.186	10.666	140.568	5174.432	140.068	5174.932
8/14/09	8:25:56	57.5	29.188	10.666	140.563	5174.437	140.063	5174.937
8/14/09	8:26:11	57.75	29.189	10.664	140.563	5174.437	140.063	5174.937
8/14/09	8:26:26	58	29.191	10.662	140.557	5174.443	140.057	5174.943
8/14/09	8:26:41	58.25	29.192	10.661	140.555	5174.445	140.055	5174.945
8/14/09	8:26:56	58.5	29.194	10.664	140.551	5174.449	140.051	5174.949
8/14/09	8:27:11	58.75	29.196	10.661	140.546	5174.454	140.046	5174.954
8/14/09	8:27:26	59	29.196	10.662	140.546	5174.454	140.046	5174.954
8/14/09	8:27:41	59.25	29.199	10.658	140.539	5174.461	140.039	5174.961
8/14/09	8:27:56	59.5	29.199	10.660	140.538	5174.462	140.038	5174.962
8/14/09	8:28:11	59.75	29.201	10.659	140.534	5174.466	140.034	5174.966
8/14/09	8:28:26	60	29.202	10.658	140.532	5174.468	140.032	5174.968
8/14/09	8:28:41	60.25	29.203	10.660	140.530	5174.470	140.030	5174.970
8/14/09	8:28:56	60.5	29.204	10.656	140.527	5174.473	140.027	5174.973
8/14/09	8:29:11	60.75	29.206	10.656	140.522	5174.478	140.022	5174.978
8/14/09	8:29:26	61	29.208	10.656	140.518	5174.482	140.018	5174.982
8/14/09	8:29:41	61.25	29.208	10.657	140.517	5174.483	140.017	5174.983
8/14/09	8:29:56	61.5	29.210	10.653	140.514	5174.486	140.014	5174.986
8/14/09	8:30:11	61.75	29.210	10.653	140.513	5174.487	140.013	5174.987
8/14/09	8:30:26	62	29.212	10.653	140.509	5174.491	140.009	5174.991
8/14/09	8:30:41	62.25	29.214	10.651	140.505	5174.495	140.005	5174.995
8/14/09	8:30:56	62.5	29.213	10.654	140.505	5174.495	140.005	5174.995
8/14/09	8:31:11	62.75	29.216	10.654	140.500	5174.500	140.000	5175.000
8/14/09	8:31:26	63	29.218	10.653	140.496	5174.504	139.996	5175.004
8/14/09	8:31:41	63.25	29.218	10.652	140.495	5174.505	139.995	5175.005
8/14/09	8:31:56	63.5	29.219	10.652	140.492	5174.508	139.992	5175.008
8/14/09	8:32:11	63.75	29.220	10.650	140.491	5174.509	139.991	5175.009
8/14/09	8:32:26	64	29.221	10.651	140.489	5174.511	139.989	5175.011
8/14/09	8:32:41	64.25	29.222	10.654	140.486	5174.514	139.986	5175.014
8/14/09	8:32:56	64.5	29.223	10.652	140.483	5174.517	139.983	5175.017
8/14/09	8:33:11	64.75	29.225	10.652	140.479	5174.521	139.979	5175.021
8/14/09	8:33:26	65	29.226	10.649	140.475	5174.525	139.975	5175.025
8/14/09	8:33:41	65.25	29.228	10.653	140.472	5174.528	139.972	5175.028
8/14/09	8:33:56	65.5	29.228	10.649	140.471	5174.529	139.971	5175.029
8/14/09	8:34:11	65.75	29.228	10.649	140.472	5174.528	139.972	5175.028
8/14/09	8:34:26	66	29.231	10.654	140.464	5174.536	139.964	5175.036
8/14/09	8:34:41	66.25	29.232	10.651	140.463	5174.537	139.963	5175.037
8/14/09	8:34:56	66.5	29.232	10.652	140.462	5174.538	139.962	5175.038
8/14/09	8:35:11	66.75	29.233	10.649	140.461	5174.539	139.961	5175.039
8/14/09	8:35:26	67	29.234	10.652	140.457	5174.543	139.957	5175.043
8/14/09	8:35:41	67.25	29.235	10.650	140.457	5174.543	139.957	5175.043
8/14/09	8:35:56	67.5	29.236	10.652	140.454	5174.546	139.954	5175.046
8/14/09	8:36:11	67.75	29.237	10.648	140.452	5174.548	139.952	5175.048
8/14/09	8:36:26	68	29.237	10.648	140.451	5174.549	139.951	5175.049
8/14/09	8:36:41	68.25	29.237	10.649	140.450	5174.550	139.950	5175.050
8/14/09	8:36:56	68.5	29.239	10.650	140.446	5174.554	139.946	5175.054
8/14/09	8:37:11	68.75	29.240	10.650	140.444	5174.556	139.944	5175.056
8/14/09	8:37:26	69	29.239	10.652	140.445	5174.555	139.945	5175.055
8/14/09	8:37:41	69.25	29.242	10.652	140.439	5174.561	139.939	5175.061
8/14/09	8:37:56	69.5	29.243	10.648	140.437	5174.563	139.937	5175.063
8/14/09	8:38:11	69.75	29.244	10.645	140.435	5174.565	139.935	5175.065

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792; Temp - C	SN#: 13792; DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	8:38:26	70	29.245	10.647	140.434	5174.566	139.934	5175.066
8/14/09	8:38:41	70.25	29.245	10.647	140.432	5174.568	139.932	5175.068
8/14/09	8:38:56	70.5	29.245	10.648	140.431	5174.569	139.931	5175.069
8/14/09	8:39:11	70.75	29.247	10.647	140.428	5174.572	139.928	5175.072
8/14/09	8:39:26	71	29.248	10.647	140.424	5174.576	139.924	5175.076
8/14/09	8:39:41	71.25	29.248	10.644	140.425	5174.575	139.925	5175.075
8/14/09	8:39:56	71.5	29.249	10.646	140.423	5174.577	139.923	5175.077
8/14/09	8:40:11	71.75	29.250	10.647	140.421	5174.579	139.921	5175.079
8/14/09	8:40:26	72	29.246	10.649	140.429	5174.571	139.929	5175.071
8/14/09	8:40:41	72.25	29.254	10.653	140.412	5174.588	139.912	5175.088
8/14/09	8:40:56	72.5	29.255	10.655	140.410	5174.590	139.910	5175.090
8/14/09	8:41:11	72.75	29.256	10.659	140.408	5174.592	139.908	5175.092
8/14/09	8:41:26	73	29.257	10.663	140.405	5174.595	139.905	5175.095
8/14/09	8:41:41	73.25	29.259	10.664	140.400	5174.600	139.900	5175.100
8/14/09	8:41:56	73.5	29.258	10.669	140.403	5174.597	139.903	5175.097
8/14/09	8:42:11	73.75	29.259	10.666	140.401	5174.599	139.901	5175.099
8/14/09	8:42:26	74	29.260	10.669	140.397	5174.603	139.897	5175.103
8/14/09	8:42:41	74.25	29.260	10.673	140.397	5174.603	139.897	5175.103
8/14/09	8:42:56	74.5	29.262	10.671	140.393	5174.607	139.893	5175.107
8/14/09	8:43:11	74.75	29.263	10.672	140.392	5174.608	139.892	5175.108
8/14/09	8:43:26	75	29.264	10.675	140.388	5174.612	139.888	5175.112
8/14/09	8:43:41	75.25	29.264	10.672	140.388	5174.612	139.888	5175.112
8/14/09	8:43:56	75.5	29.265	10.675	140.387	5174.613	139.887	5175.113
8/14/09	8:44:11	75.75	29.264	10.677	140.388	5174.612	139.888	5175.112
8/14/09	8:44:26	76	29.266	10.676	140.384	5174.616	139.884	5175.116
8/14/09	8:44:41	76.25	29.266	10.677	140.384	5174.616	139.884	5175.116
8/14/09	8:44:56	76.5	29.267	10.677	140.382	5174.618	139.882	5175.118
8/14/09	8:45:11	76.75	29.267	10.678	140.381	5174.619	139.881	5175.119
8/14/09	8:45:26	77	29.270	10.678	140.376	5174.624	139.876	5175.124
8/14/09	8:45:41	77.25	29.269	10.676	140.377	5174.623	139.877	5175.123
8/14/09	8:45:56	77.5	29.270	10.679	140.375	5174.625	139.875	5175.125
8/14/09	8:46:11	77.75	29.270	10.676	140.375	5174.625	139.875	5175.125
8/14/09	8:46:26	78	29.271	10.677	140.373	5174.627	139.873	5175.127
8/14/09	8:46:41	78.25	29.272	10.679	140.371	5174.629	139.871	5175.129
8/14/09	8:46:56	78.5	29.270	10.679	140.375	5174.625	139.875	5175.125
8/14/09	8:47:11	78.75	29.273	10.680	140.368	5174.632	139.868	5175.132
8/14/09	8:47:26	79	29.274	10.680	140.366	5174.634	139.866	5175.134
8/14/09	8:47:41	79.25	29.273	10.681	140.367	5174.633	139.867	5175.133
8/14/09	8:47:56	79.5	29.284	10.683	140.342	5174.658	139.842	5175.158
8/14/09	8:48:11	79.75	29.275	10.682	140.364	5174.636	139.864	5175.136
8/14/09	8:48:26	80	29.276	10.682	140.361	5174.639	139.861	5175.139
8/14/09	8:48:41	80.25	29.276	10.680	140.360	5174.640	139.860	5175.140
8/14/09	8:48:56	80.5	29.278	10.685	140.357	5174.643	139.857	5175.143
8/14/09	8:49:11	80.75	29.278	10.683	140.357	5174.643	139.857	5175.143
8/14/09	8:49:26	81	29.279	10.682	140.355	5174.645	139.855	5175.145
8/14/09	8:49:41	81.25	29.278	10.686	140.355	5174.645	139.855	5175.145
8/14/09	8:49:56	81.5	29.280	10.682	140.352	5174.648	139.852	5175.148
8/14/09	8:50:11	81.75	29.280	10.682	140.351	5174.649	139.851	5175.149
8/14/09	8:50:26	82	29.281	10.680	140.348	5174.652	139.848	5175.152
8/14/09	8:50:41	82.25	29.275	10.682	140.362	5174.638	139.862	5175.138
8/14/09	8:50:56	82.5	29.281	10.684	140.349	5174.651	139.849	5175.151
8/14/09	8:51:11	82.75	29.282	10.680	140.346	5174.654	139.846	5175.154
8/14/09	8:51:26	83	29.283	10.684	140.344	5174.656	139.844	5175.156
8/14/09	8:51:41	83.25	29.283	10.684	140.345	5174.655	139.845	5175.155

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	8:51:56	83.5	29.283	10.680	140.345	5174.655		139.845	5175.155
8/14/09	8:52:11	83.75	29.285	10.680	140.340	5174.660		139.840	5175.160
8/14/09	8:52:26	84	29.285	10.680	140.341	5174.659		139.841	5175.159
8/14/09	8:52:41	84.25	29.286	10.681	140.339	5174.661		139.839	5175.161
8/14/09	8:52:56	84.5	29.287	10.679	140.337	5174.663		139.837	5175.163
8/14/09	8:53:11	84.75	29.287	10.682	140.336	5174.664		139.836	5175.164
8/14/09	8:53:26	85	29.287	10.682	140.336	5174.664		139.836	5175.164
8/14/09	8:53:41	85.25	29.286	10.684	140.337	5174.663		139.837	5175.163
8/14/09	8:53:56	85.502	29.297	10.678	140.313	5174.687		139.813	5175.187
8/14/09	8:54:11	85.75	29.285	10.686	140.340	5174.660		139.840	5175.160
8/14/09	8:54:26	86	29.288	10.689	140.332	5174.668		139.832	5175.168
8/14/09	8:54:41	86.25	29.286	10.687	140.337	5174.663		139.837	5175.163
8/14/09	8:54:56	86.5	29.288	10.690	140.332	5174.668		139.832	5175.168
8/14/09	8:55:11	86.75	29.300	10.691	140.306	5174.694		139.806	5175.194
8/14/09	8:55:26	87	29.288	10.690	140.334	5174.666		139.834	5175.166
8/14/09	8:55:41	87.25	29.290	10.688	140.328	5174.672		139.828	5175.172
8/14/09	8:55:56	87.5	29.290	10.689	140.329	5174.671		139.829	5175.171
8/14/09	8:56:11	87.75	29.290	10.688	140.329	5174.671		139.829	5175.171
8/14/09	8:56:26	88	29.292	10.686	140.324	5174.676		139.824	5175.176
8/14/09	8:56:41	88.25	29.291	10.685	140.326	5174.674		139.826	5175.174
8/14/09	8:56:56	88.5	29.292	10.686	140.324	5174.676		139.824	5175.176
8/14/09	8:57:11	88.75	29.292	10.682	140.323	5174.677		139.823	5175.177
8/14/09	8:57:26	89	29.293	10.689	140.321	5174.679		139.821	5175.179
8/14/09	8:57:41	89.25	29.292	10.687	140.323	5174.677		139.823	5175.177
8/14/09	8:57:56	89.5	29.294	10.684	140.320	5174.680		139.820	5175.180
8/14/09	8:58:11	89.75	29.293	10.685	140.321	5174.679		139.821	5175.179
8/14/09	8:58:26	90	29.295	10.687	140.316	5174.684		139.816	5175.184
8/14/09	8:58:41	90.25	29.294	10.681	140.318	5174.682		139.818	5175.182
8/14/09	8:58:56	90.5	29.296	10.682	140.315	5174.685		139.815	5175.185
8/14/09	8:59:11	90.75	29.295	10.684	140.318	5174.682		139.818	5175.182
8/14/09	8:59:26	91	29.295	10.681	140.317	5174.683		139.817	5175.183
8/14/09	8:59:41	91.25	29.296	10.683	140.315	5174.685		139.815	5175.185
8/14/09	8:59:56	91.5	29.296	10.684	140.314	5174.686		139.814	5175.186
8/14/09	9:00:11	91.75	29.298	10.687	140.309	5174.691		139.809	5175.191
8/14/09	9:00:26	92	29.297	10.684	140.311	5174.689		139.811	5175.189
8/14/09	9:00:41	92.25	29.298	10.681	140.310	5174.690		139.810	5175.190
8/14/09	9:00:56	92.5	29.298	10.681	140.309	5174.691		139.809	5175.191
8/14/09	9:01:11	92.75	29.299	10.681	140.308	5174.692		139.808	5175.192
8/14/09	9:01:26	93	29.299	10.683	140.308	5174.692		139.808	5175.192
8/14/09	9:01:41	93.25	29.298	10.683	140.309	5174.691		139.809	5175.191
8/14/09	9:01:56	93.5	29.299	10.683	140.307	5174.693		139.807	5175.193
8/14/09	9:02:11	93.75	29.300	10.682	140.304	5174.696		139.804	5175.196
8/14/09	9:02:26	94	29.300	10.685	140.306	5174.694		139.806	5175.194
8/14/09	9:02:41	94.25	29.300	10.682	140.304	5174.696		139.804	5175.196
8/14/09	9:02:56	94.5	29.301	10.681	140.303	5174.697		139.803	5175.197
8/14/09	9:03:11	94.75	29.300	10.681	140.306	5174.694		139.806	5175.194
8/14/09	9:03:26	95	29.301	10.681	140.302	5174.698		139.802	5175.198
8/14/09	9:03:41	95.25	29.303	10.681	140.299	5174.701		139.799	5175.201
8/14/09	9:03:56	95.5	29.302	10.682	140.301	5174.699		139.801	5175.199
8/14/09	9:04:11	95.75	29.303	10.684	140.298	5174.702		139.798	5175.202
8/14/09	9:04:26	96	29.303	10.680	140.299	5174.701		139.799	5175.201
8/14/09	9:04:41	96.25	29.304	10.683	140.296	5174.704		139.796	5175.204
8/14/09	9:04:56	96.5	29.304	10.682	140.297	5174.703		139.797	5175.203
8/14/09	9:05:11	96.75	29.304	10.680	140.296	5174.704		139.796	5175.204



**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; SN#: 13792 SN#: 137922			TOC Elev	Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation		
8/14/09	9:05:26	97	29.304	10.683	140.296	5174.704	139.796	5175.204
8/14/09	9:05:41	97.25	29.305	10.683	140.295	5174.705	139.795	5175.205
8/14/09	9:05:56	97.5	29.305	10.684	140.294	5174.706	139.794	5175.206
8/14/09	9:06:11	97.75	29.305	10.678	140.293	5174.707	139.793	5175.207
8/14/09	9:06:26	98	29.312	10.682	140.278	5174.722	139.778	5175.222
8/14/09	9:06:41	98.25	29.305	10.681	140.293	5174.707	139.793	5175.207
8/14/09	9:06:56	98.5	29.305	10.683	140.294	5174.706	139.794	5175.206
8/14/09	9:07:11	98.75	29.307	10.683	140.290	5174.710	139.790	5175.210
8/14/09	9:07:26	99	29.307	10.684	140.289	5174.711	139.789	5175.211
8/14/09	9:07:41	99.25	29.306	10.684	140.291	5174.709	139.791	5175.209
8/14/09	9:07:56	99.5	29.305	10.683	140.293	5174.707	139.793	5175.207
8/14/09	9:08:11	99.75	29.307	10.683	140.290	5174.710	139.790	5175.210
8/14/09	9:08:26	100	29.307	10.684	140.288	5174.712	139.788	5175.212
8/14/09	9:08:41	100.25	29.308	10.683	140.287	5174.713	139.787	5175.213
8/14/09	9:08:56	100.5	29.308	10.683	140.286	5174.714	139.786	5175.214
8/14/09	9:09:11	100.75	29.314	10.687	140.274	5174.726	139.774	5175.226
8/14/09	9:09:26	101	29.309	10.686	140.285	5174.715	139.785	5175.215
8/14/09	9:09:41	101.25	29.310	10.685	140.282	5174.718	139.782	5175.218
8/14/09	9:09:56	101.5	29.309	10.683	140.284	5174.716	139.784	5175.216
8/14/09	9:10:11	101.75	27.402	10.683	144.688	5170.312	144.188	5170.812
8/14/09	9:10:26	102	25.915	10.681	148.122	5166.878	146.622	5167.378
8/14/09	9:10:41	102.25	25.248	10.678	149.662	5165.338	149.162	5165.838
8/14/09	9:10:56	102.5	24.481	10.678	151.433	5163.567	150.933	5164.067
8/14/09	9:11:11	102.75	23.491	10.672	153.718	5161.282	153.218	5161.782
8/14/09	9:11:26	103	22.773	10.670	155.376	5159.624	154.876	5160.124
8/14/09	9:11:41	103.25	22.059	10.669	157.026	5157.974	156.526	5158.474
8/14/09	9:11:56	103.5	21.190	10.665	159.032	5155.968	158.532	5156.468
8/14/09	9:12:11	103.75	20.543	10.661	160.525	5154.475	160.025	5154.975
8/14/09	9:12:26	104	19.974	10.661	161.839	5153.161	161.339	5153.661
8/14/09	9:12:41	104.25	19.230	10.658	163.557	5151.443	163.057	5151.943
8/14/09	9:12:56	104.5	18.694	10.654	164.795	5150.205	164.295	5150.705
8/14/09	9:13:11	104.75	18.138	10.650	166.078	5148.922	165.578	5149.422
8/14/09	9:13:26	105	17.653	10.647	167.198	5147.802	166.698	5148.302
8/14/09	9:13:41	105.25	17.002	10.646	168.702	5146.298	168.202	5146.798
8/14/09	9:13:56	105.5	16.395	10.643	170.104	5144.896	169.604	5145.396
8/14/09	9:14:11	105.75	15.971	10.637	171.081	5143.919	170.581	5144.419
8/14/09	9:14:26	106	15.500	10.637	172.169	5142.831	171.669	5143.331
8/14/09	9:14:41	106.25	14.898	10.637	173.559	5141.441	173.059	5141.941
8/14/09	9:14:56	106.5	14.298	10.631	174.945	5140.055	174.445	5140.555
8/14/09	9:15:11	106.75	13.963	10.630	175.718	5139.282	175.218	5139.782
8/14/09	9:15:26	107	13.387	10.630	177.048	5137.952	176.548	5138.452
8/14/09	9:15:41	107.25	12.947	10.630	178.063	5136.937	177.563	5137.437
8/14/09	9:15:56	107.5	12.523	10.628	179.043	5135.957	178.543	5136.457
8/14/09	9:16:11	107.75	11.883	10.630	180.521	5134.479	180.021	5134.979
8/14/09	9:16:26	108	11.553	10.631	181.282	5133.718	180.782	5134.218
8/14/09	9:16:41	108.25	11.048	10.639	182.448	5132.552	181.948	5133.052
8/14/09	9:16:56	108.5	10.649	10.637	183.371	5131.629	182.871	5132.129
8/14/09	9:17:11	108.75	10.134	10.636	184.559	5130.441	184.059	5130.941
8/14/09	9:17:26	109	9.776	10.635	185.386	5129.614	184.886	5130.114
8/14/09	9:17:41	109.25	9.366	10.636	186.333	5128.667	185.833	5129.167
8/14/09	9:17:56	109.5	8.928	10.635	187.344	5127.656	186.844	5128.156
8/14/09	9:18:11	109.75	8.600	10.639	188.101	5126.899	187.601	5127.399
8/14/09	9:18:26	110	8.192	10.637	189.044	5125.956	188.544	5126.456
8/14/09	9:18:41	110.25	7.693	10.639	190.195	5124.805	189.695	5125.305

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	9:18:56	110.5	7.394	10.641	190.886	5124.114		190.386	5124.614
8/14/09	9:19:11	110.75	6.987	10.643	191.826	5123.174		191.326	5123.674
8/14/09	9:19:26	111	6.597	10.647	192.726	5122.274		192.226	5122.774
8/14/09	9:19:41	111.25	6.296	10.644	193.422	5121.578		192.922	5122.078
8/14/09	9:19:56	111.5	5.873	10.645	194.399	5120.601		193.899	5121.101
8/14/09	9:20:11	111.75	5.528	10.641	195.195	5119.805		194.695	5120.305
8/14/09	9:20:26	112	5.231	10.637	195.881	5119.119		195.381	5119.619
8/14/09	9:20:41	112.25	4.851	10.640	196.756	5118.244		196.256	5118.744
8/14/09	9:20:56	112.5	4.578	10.635	197.389	5117.611		196.889	5118.111
8/14/09	9:21:11	112.75	4.191	10.635	198.281	5116.719		197.781	5117.219
8/14/09	9:21:26	113	3.939	10.632	198.862	5116.138		198.362	5116.638
8/14/09	9:21:41	113.25	3.591	10.635	199.667	5115.333		199.167	5115.833
8/14/09	9:21:56	113.5	3.293	10.637	200.356	5114.644		199.856	5115.144
8/14/09	9:22:11	113.75	2.945	10.638	201.158	5113.842		200.658	5114.342
8/14/09	9:22:26	114	2.699	10.641	201.727	5113.273		201.227	5113.773
8/14/09	9:22:41	114.25	2.356	10.641	202.519	5112.481		202.019	5112.981
8/14/09	9:22:56	114.5	2.096	10.642	203.119	5111.881		202.619	5112.381
8/14/09	9:23:11	114.75	1.771	10.649	203.870	5111.130		203.370	5111.630
8/14/09	9:23:26	115	1.518	10.648	204.453	5110.547		203.953	5111.047
8/14/09	9:23:41	115.25	1.233	10.654	205.112	5109.888		204.612	5110.388
8/14/09	9:23:56	115.5	0.962	10.658	205.738	5109.262		205.238	5109.762
8/14/09	9:24:11	115.75	0.710	10.668	206.319	5108.681		205.819	5109.181
8/14/09	9:24:26	116	0.437	10.675	206.949	5108.051		206.449	5108.551
8/14/09	9:24:41	116.25	0.176	10.676	207.553	5107.447		207.053	5107.947
8/14/09	9:25:00	9:25:00	207.88					207.880	5107.120
8/14/09	9:25:30	9:25:30	208.93					208.930	5106.070
8/14/09	9:26:00	9:26:00	209.95					209.950	5105.050
8/14/09	9:26:30	9:26:30	211.1					211.100	5103.900
8/14/09	9:27:30	9:27:30	213.11					213.110	5101.890
8/14/09	9:28:00	9:28:00	214.1					214.100	5100.900
8/14/09	9:28:30	9:28:30	215.04					215.040	5099.960
8/14/09	9:29:00	9:29:00	215.98					215.980	5099.020
8/14/09	9:29:30	9:29:30	216.92					216.920	5098.080
8/14/09	9:30:00	9:30:00	217.96					217.960	5097.040
8/14/09	9:30:30	9:30:30	218.7					218.700	5096.300
8/14/09	9:31:00	9:31:00	219.32					219.320	5095.680
8/14/09	9:31:30	9:31:30	220.18					220.180	5094.820
8/14/09	9:32:00	9:32:00	220.9					220.900	5094.100
8/14/09	9:32:30	9:32:30	221.6					221.600	5093.400
8/14/09	9:33:00	9:33:00	222.29					222.290	5092.710
8/14/09	9:33:30	9:33:30	223.01					223.010	5091.990
8/14/09	9:35:00	9:35:00	225.01					225.010	5089.990
8/14/09	9:37:35	9:37:35	221.02					221.020	5093.980
8/14/09	9:38:20	9:38:20	213.42					213.420	5101.580
8/14/09	9:38:46	9:38:46	209.49					209.490	5105.510
8/14/09	9:39:11	130.75	0.480	11.017	206.851	5108.149		206.351	5108.649
8/14/09	9:39:26	131	1.121	11.005	205.370	5109.630		204.870	5110.130
8/14/09	9:39:41	131.25	1.736	10.993	203.949	5111.051		203.449	5111.551
8/14/09	9:39:56	131.5	2.341	10.983	202.552	5112.448		202.052	5112.948
8/14/09	9:40:11	131.75	2.925	10.971	201.205	5113.795		200.705	5114.295
8/14/09	9:40:26	132	3.499	10.965	199.880	5115.120		199.380	5115.620
8/14/09	9:40:41	132.25	4.052	10.954	198.602	5116.398		198.102	5116.898
8/14/09	9:40:56	132.5	4.596	10.946	197.345	5117.655		196.845	5118.155
8/14/09	9:41:11	132.75	5.241	10.938	195.856	5119.144		195.356	5119.644

E-Line data once  
transducer got exposed

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	9:41:26	133.002	6.085	10.928	193.909	5121.091	193.409	5121.591
8/14/09	9:41:41	133.25	6.783	10.924	192.296	5122.704	191.796	5123.204
8/14/09	9:41:56	133.5	7.331	10.916	191.031	5123.969	190.531	5124.469
8/14/09	9:42:11	133.75	7.738	10.912	190.091	5124.909	189.591	5125.409
8/14/09	9:42:26	134	8.046	10.910	189.380	5125.620	188.880	5126.120
8/14/09	9:42:41	134.25	8.331	10.904	188.723	5126.277	188.223	5126.777
8/14/09	9:42:56	134.5	8.609	10.900	188.081	5126.919	187.581	5127.419
8/14/09	9:43:11	134.75	8.880	10.898	187.455	5127.545	186.955	5128.045
8/14/09	9:43:26	135	9.149	10.897	186.834	5128.166	186.334	5128.666
8/14/09	9:43:41	135.25	9.412	10.893	186.225	5128.775	185.725	5129.275
8/14/09	9:43:56	135.5	9.677	10.894	185.614	5129.386	185.114	5129.886
8/14/09	9:44:11	135.75	9.928	10.892	185.034	5129.966	184.534	5130.466
8/14/09	9:44:26	136	10.175	10.889	184.463	5130.537	183.963	5131.037
8/14/09	9:44:41	136.25	10.421	10.887	183.897	5131.103	183.397	5131.603
8/14/09	9:44:56	136.5	10.666	10.888	183.332	5131.668	182.832	5132.168
8/14/09	9:45:11	136.75	10.901	10.890	182.788	5132.212	182.288	5132.712
8/14/09	9:45:26	137	11.132	10.888	182.254	5132.746	181.754	5133.246
8/14/09	9:45:41	137.25	11.365	10.890	181.717	5133.283	181.217	5133.783
8/14/09	9:45:56	137.5	11.591	10.890	181.195	5133.805	180.695	5134.305
8/14/09	9:46:11	137.75	11.814	10.891	180.679	5134.321	180.179	5134.821
8/14/09	9:46:26	138	12.035	10.889	180.170	5134.830	179.670	5135.330
8/14/09	9:46:41	138.25	12.250	10.891	179.673	5135.327	179.173	5135.827
8/14/09	9:46:56	138.5	12.463	10.891	179.181	5135.819	178.681	5136.319
8/14/09	9:47:11	138.75	12.671	10.893	178.701	5136.299	178.201	5136.799
8/14/09	9:47:26	139	12.875	10.896	178.231	5136.769	177.731	5137.269
8/14/09	9:47:41	139.25	13.078	10.901	177.761	5137.239	177.261	5137.739
8/14/09	9:47:56	139.5	13.279	10.900	177.296	5137.704	176.796	5138.204
8/14/09	9:48:11	139.75	13.475	10.905	176.844	5138.156	176.344	5138.656
8/14/09	9:48:26	140	13.669	10.905	176.397	5138.603	175.897	5139.103
8/14/09	9:48:41	140.25	13.860	10.910	175.956	5139.044	175.456	5139.544
8/14/09	9:48:56	140.5	14.051	10.917	175.516	5139.484	175.016	5139.984
8/14/09	9:49:11	140.75	14.234	10.914	175.092	5139.908	174.592	5140.408
8/14/09	9:49:26	141	14.421	10.913	174.660	5140.340	174.160	5140.840
8/14/09	9:49:41	141.25	14.599	10.919	174.250	5140.750	173.750	5141.250
8/14/09	9:49:56	141.5	14.777	10.921	173.838	5141.162	173.338	5141.662
8/14/09	9:50:11	141.75	14.950	10.921	173.440	5141.560	172.940	5142.060
8/14/09	9:50:26	142	15.124	10.922	173.037	5141.963	172.537	5142.463
8/14/09	9:50:41	142.25	15.290	10.921	172.655	5142.345	172.155	5142.845
8/14/09	9:50:56	142.5	15.457	10.922	172.268	5142.732	171.768	5143.232
8/14/09	9:51:11	142.75	15.623	10.926	171.885	5143.115	171.385	5143.615
8/14/09	9:51:26	143	15.786	10.914	171.509	5143.491	171.009	5143.991
8/14/09	9:51:41	143.25	15.947	10.908	171.137	5143.863	170.637	5144.363
8/14/09	9:51:56	143.5	16.104	10.907	170.774	5144.226	170.274	5144.726
8/14/09	9:52:11	143.75	16.263	10.904	170.407	5144.593	169.907	5145.093
8/14/09	9:52:26	144	16.417	10.904	170.052	5144.948	169.552	5145.448
8/14/09	9:52:41	144.25	16.564	10.902	169.712	5145.288	169.212	5145.788
8/14/09	9:52:56	144.5	16.712	10.904	169.371	5145.629	168.871	5146.129
8/14/09	9:53:11	144.75	16.859	10.901	169.031	5145.969	168.531	5146.469
8/14/09	9:53:26	145	17.009	10.903	168.685	5146.315	168.185	5146.815
8/14/09	9:53:41	145.25	17.151	10.901	168.357	5146.643	167.857	5147.143
8/14/09	9:53:56	145.5	17.292	10.905	168.031	5146.969	167.531	5147.469
8/14/09	9:54:11	145.75	17.430	10.904	167.714	5147.286	167.214	5147.786
8/14/09	9:54:26	146	17.566	10.906	167.399	5147.601	166.899	5148.101
8/14/09	9:54:41	146.25	17.700	10.906	167.090	5147.910	166.590	5148.410

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	9:54:56	146.5	17.831	10.905	166.787	5148.213	166.287	5148.713
8/14/09	9:55:11	146.75	17.961	10.908	166.487	5148.513	165.987	5149.013
8/14/09	9:55:26	147	18.089	10.904	166.191	5148.809	165.691	5149.309
8/14/09	9:55:41	147.25	18.222	10.908	165.884	5149.116	165.384	5149.616
8/14/09	9:55:56	147.5	18.346	10.904	165.598	5149.402	165.098	5149.902
8/14/09	9:56:11	147.75	18.471	10.907	165.309	5149.691	164.809	5150.191
8/14/09	9:56:26	148	18.588	10.909	165.038	5149.962	164.538	5150.462
8/14/09	9:56:41	148.25	18.714	10.907	164.749	5150.251	164.249	5150.751
8/14/09	9:56:56	148.5	18.832	10.911	164.476	5150.524	163.976	5151.024
8/14/09	9:57:11	148.75	18.951	10.910	164.202	5150.798	163.702	5151.298
8/14/09	9:57:26	149	19.067	10.912	163.934	5151.066	163.434	5151.566
8/14/09	9:57:41	149.25	19.181	10.913	163.671	5151.329	163.171	5151.829
8/14/09	9:57:56	149.5	19.293	10.913	163.412	5151.588	162.912	5152.088
8/14/09	9:58:11	149.75	19.404	10.912	163.155	5151.845	162.655	5152.345
8/14/09	9:58:26	150	19.513	10.913	162.904	5152.096	162.404	5152.596
8/14/09	9:58:41	150.25	19.621	10.916	162.654	5152.346	162.154	5152.846
8/14/09	9:58:56	150.5	19.726	10.914	162.411	5152.589	161.911	5153.089
8/14/09	9:59:11	150.75	19.828	10.915	162.177	5152.823	161.677	5153.323
8/14/09	9:59:26	151	19.934	10.915	161.931	5153.069	161.431	5153.569
8/14/09	9:59:41	151.25	20.038	10.916	161.690	5153.310	161.190	5153.810
8/14/09	9:59:56	151.5	20.138	10.917	161.461	5153.539	160.961	5154.039
8/14/09	10:00:11	151.75	20.237	10.919	161.232	5153.768	160.732	5154.268
8/14/09	10:00:26	152	20.335	10.919	161.004	5153.996	160.504	5154.496
8/14/09	10:00:41	152.25	20.431	10.919	160.783	5154.217	160.283	5154.717
8/14/09	10:00:56	152.5	20.527	10.917	160.562	5154.438	160.062	5154.938
8/14/09	10:01:11	152.75	20.621	10.919	160.345	5154.655	159.845	5155.155
8/14/09	10:01:26	153	20.713	10.918	160.132	5154.868	159.632	5155.368
8/14/09	10:01:41	153.25	20.805	10.918	159.921	5155.079	159.421	5155.579
8/14/09	10:01:56	153.5	20.896	10.919	159.709	5155.291	159.209	5155.791
8/14/09	10:02:11	153.75	20.985	10.920	159.505	5155.495	159.005	5155.995
8/14/09	10:02:26	154	21.074	10.919	159.299	5155.701	158.799	5156.201
8/14/09	10:02:41	154.25	21.160	10.921	159.101	5155.899	158.601	5156.399
8/14/09	10:02:56	154.5	21.246	10.922	158.901	5156.099	158.401	5156.599
8/14/09	10:03:11	154.75	21.331	10.920	158.706	5156.294	158.206	5156.794
8/14/09	10:03:26	155	21.414	10.920	158.515	5156.485	158.015	5156.985
8/14/09	10:03:41	155.25	21.496	10.919	158.325	5156.675	157.825	5157.175
8/14/09	10:03:56	155.5	21.578	10.919	158.136	5156.864	157.636	5157.364
8/14/09	10:04:11	155.75	21.658	10.923	157.951	5157.049	157.451	5157.549
8/14/09	10:04:26	156	21.736	10.922	157.770	5157.230	157.270	5157.730
8/14/09	10:04:41	156.25	21.816	10.923	157.587	5157.413	157.087	5157.913
8/14/09	10:04:56	156.5	21.893	10.923	157.408	5157.592	156.908	5158.092
8/14/09	10:05:11	156.75	21.969	10.922	157.233	5157.767	156.733	5158.267
8/14/09	10:05:26	157	22.045	10.923	157.056	5157.944	156.556	5158.444
8/14/09	10:05:41	157.25	22.120	10.922	156.885	5158.115	156.385	5158.615
8/14/09	10:05:56	157.5	22.193	10.926	156.714	5158.286	156.214	5158.786
8/14/09	10:06:11	157.75	22.264	10.925	156.550	5158.450	156.050	5158.950
8/14/09	10:06:26	158	22.336	10.925	156.385	5158.615	155.885	5159.115
8/14/09	10:06:41	158.25	22.407	10.926	156.220	5158.780	155.720	5159.280
8/14/09	10:06:56	158.5	22.476	10.926	156.063	5158.937	155.563	5159.437
8/14/09	10:07:11	158.75	22.544	10.926	155.904	5159.096	155.404	5159.596
8/14/09	10:07:26	159	22.613	10.927	155.746	5159.254	155.246	5159.754
8/14/09	10:07:41	159.25	22.678	10.927	155.594	5159.406	155.094	5159.906
8/14/09	10:07:56	159.5	22.744	10.928	155.443	5159.557	154.943	5160.057
8/14/09	10:08:11	159.75	22.810	10.927	155.290	5159.710	154.790	5160.210

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	10:08:26	160	22.876	10.930	155.137	5159.863	154.637	5160.363
8/14/09	10:08:41	160.25	22.940	10.926	154.991	5160.009	154.491	5160.509
8/14/09	10:08:56	160.5	23.003	10.924	154.844	5160.156	154.344	5160.656
8/14/09	10:09:11	160.75	23.066	10.926	154.700	5160.300	154.200	5160.800
8/14/09	10:09:26	161	23.124	10.928	154.565	5160.435	154.065	5160.935
8/14/09	10:09:41	161.25	23.187	10.924	154.421	5160.579	153.921	5161.079
8/14/09	10:09:56	161.5	23.247	10.923	154.282	5160.718	153.782	5161.218
8/14/09	10:10:11	161.75	23.300	10.920	154.159	5160.841	153.659	5161.341
8/14/09	10:10:26	162	23.363	10.920	154.015	5160.985	153.515	5161.485
8/14/09	10:10:41	162.25	23.421	10.921	153.880	5161.120	153.380	5161.620
8/14/09	10:10:56	162.5	23.480	10.922	153.745	5161.255	153.245	5161.755
8/14/09	10:11:11	162.75	23.535	10.923	153.617	5161.383	153.117	5161.883
8/14/09	10:11:26	163	23.590	10.920	153.489	5161.511	152.989	5162.011
8/14/09	10:11:41	163.25	23.640	10.921	153.375	5161.625	152.875	5162.125
8/14/09	10:11:56	163.5	23.703	10.920	153.230	5161.770	152.730	5162.270
8/14/09	10:12:11	163.75	23.752	10.921	153.116	5161.884	152.616	5162.384
8/14/09	10:12:26	164	23.805	10.918	152.992	5162.008	152.492	5162.508
8/14/09	10:12:41	164.25	23.857	10.915	152.873	5162.127	152.373	5162.627
8/14/09	10:12:56	164.5	23.909	10.916	152.753	5162.247	152.253	5162.747
8/14/09	10:13:11	164.75	23.960	10.914	152.635	5162.365	152.135	5162.865
8/14/09	10:13:26	165	24.010	10.915	152.521	5162.479	152.021	5162.979
8/14/09	10:13:41	165.25	24.060	10.915	152.404	5162.596	151.904	5163.096
8/14/09	10:13:56	165.5	24.109	10.913	152.292	5162.708	151.792	5163.208
8/14/09	10:14:11	165.75	24.159	10.912	152.177	5162.823	151.677	5163.323
8/14/09	10:14:26	166	24.206	10.914	152.068	5162.932	151.568	5163.432
8/14/09	10:14:41	166.25	24.253	10.914	151.958	5163.042	151.458	5163.542
8/14/09	10:14:56	166.5	24.299	10.914	151.852	5163.148	151.352	5163.648
8/14/09	10:15:11	166.75	24.346	10.913	151.745	5163.255	151.245	5163.755
8/14/09	10:15:26	167	24.391	10.912	151.641	5163.359	151.141	5163.859
8/14/09	10:15:41	167.25	24.436	10.912	151.536	5163.464	151.036	5163.964
8/14/09	10:15:56	167.5	24.481	10.911	151.433	5163.567	150.933	5164.067
8/14/09	10:16:11	167.75	24.525	10.913	151.331	5163.669	150.831	5164.169
8/14/09	10:16:26	168	24.569	10.907	151.230	5163.770	150.730	5164.270
8/14/09	10:16:41	168.25	24.612	10.912	151.130	5163.870	150.630	5164.370
8/14/09	10:16:56	168.5	24.653	10.907	151.034	5163.966	150.534	5164.466
8/14/09	10:17:11	168.75	24.691	10.909	150.948	5164.052	150.448	5164.552
8/14/09	10:17:26	169	24.737	10.906	150.840	5164.160	150.340	5164.660
8/14/09	10:17:41	169.25	24.772	10.905	150.760	5164.240	150.260	5164.740
8/14/09	10:17:56	169.5	24.818	10.905	150.653	5164.347	150.153	5164.847
8/14/09	10:18:11	169.75	24.852	10.904	150.575	5164.425	150.075	5164.925
8/14/09	10:18:26	170	24.898	10.904	150.470	5164.530	149.970	5165.030
8/14/09	10:18:41	170.25	24.938	10.903	150.378	5164.622	149.878	5165.122
8/14/09	10:18:56	170.5	24.978	10.905	150.286	5164.714	149.786	5165.214
8/14/09	10:19:11	170.75	25.016	10.904	150.198	5164.802	149.698	5165.302
8/14/09	10:19:26	171	25.053	10.902	150.111	5164.889	149.611	5165.389
8/14/09	10:19:41	171.25	25.092	10.903	150.022	5164.978	149.522	5165.478
8/14/09	10:19:56	171.5	25.128	10.902	149.938	5165.062	149.438	5165.562
8/14/09	10:20:11	171.75	25.159	10.904	149.866	5165.134	149.366	5165.634
8/14/09	10:20:26	172	25.200	10.902	149.773	5165.227	149.273	5165.727
8/14/09	10:20:41	172.25	25.235	10.901	149.691	5165.309	149.191	5165.809
8/14/09	10:20:56	172.5	25.272	10.903	149.606	5165.394	149.106	5165.894
8/14/09	10:21:11	172.75	25.302	10.904	149.537	5165.463	149.037	5165.963
8/14/09	10:21:26	173	25.335	10.900	149.459	5165.541	148.959	5166.041
8/14/09	10:21:41	173.25	25.376	10.902	149.367	5165.633	148.867	5166.133

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	10:21:56	173.5	25.408	10.904	149.292	5165.708	148.792	5166.208
8/14/09	10:22:11	173.75	25.442	10.904	149.212	5165.788	148.712	5166.288
8/14/09	10:22:26	174	25.475	10.904	149.137	5165.863	148.637	5166.363
8/14/09	10:22:41	174.25	25.502	10.906	149.075	5165.925	148.575	5166.425
8/14/09	10:22:56	174.5	25.539	10.905	148.989	5166.011	148.489	5166.511
8/14/09	10:23:11	174.75	25.566	10.907	148.928	5166.072	148.428	5166.572
8/14/09	10:23:26	175	25.603	10.909	148.842	5166.158	148.342	5166.658
8/14/09	10:23:41	175.25	25.633	10.905	148.772	5166.228	148.272	5166.728
8/14/09	10:23:56	175.5	25.662	10.906	148.704	5166.296	148.204	5166.796
8/14/09	10:24:11	175.75	25.695	10.908	148.630	5166.370	148.130	5166.870
8/14/09	10:24:26	176	25.719	10.906	148.573	5166.427	148.073	5166.927
8/14/09	10:24:41	176.25	25.750	10.909	148.501	5166.499	148.001	5166.999
8/14/09	10:24:56	176.5	25.785	10.907	148.422	5166.578	147.922	5167.078
8/14/09	10:25:11	176.75	25.813	10.908	148.357	5166.643	147.857	5167.143
8/14/09	10:25:26	177	25.837	10.903	148.301	5166.699	147.801	5167.199
8/14/09	10:25:41	177.25	25.865	10.904	148.236	5166.764	147.736	5167.264
8/14/09	10:25:56	177.5	25.899	10.902	148.157	5166.843	147.657	5167.343
8/14/09	10:26:11	177.75	25.922	10.899	148.105	5166.895	147.605	5167.395
8/14/09	10:26:26	178	25.955	10.895	148.030	5166.970	147.530	5167.470
8/14/09	10:26:41	178.25	25.976	10.893	147.981	5167.019	147.481	5167.519
8/14/09	10:26:56	178.5	26.003	10.893	147.917	5167.083	147.417	5167.583
8/14/09	10:27:11	178.75	26.030	10.891	147.856	5167.144	147.356	5167.644
8/14/09	10:27:26	179	26.057	10.890	147.793	5167.207	147.293	5167.707
8/14/09	10:27:41	179.25	26.082	10.889	147.735	5167.265	147.235	5167.765
8/14/09	10:27:56	179.5	26.109	10.887	147.673	5167.327	147.173	5167.827
8/14/09	10:28:11	179.75	26.149	10.888	147.581	5167.419	147.081	5167.919
8/14/09	10:28:26	180	26.165	10.891	147.545	5167.455	147.045	5167.955
8/14/09	10:28:41	180.25	26.185	10.890	147.498	5167.502	146.998	5168.002
8/14/09	10:28:56	180.5	26.210	10.890	147.440	5167.560	146.940	5168.060
8/14/09	10:29:11	180.75	26.235	10.895	147.384	5167.616	146.884	5168.116
8/14/09	10:29:26	181	26.258	10.898	147.329	5167.671	146.829	5168.171
8/14/09	10:29:41	181.25	26.282	10.897	147.275	5167.725	146.775	5168.225
8/14/09	10:29:56	181.5	26.306	10.897	147.218	5167.782	146.718	5168.282
8/14/09	10:30:11	181.75	26.329	10.902	147.164	5167.836	146.664	5168.336
8/14/09	10:30:26	182	26.353	10.897	147.110	5167.890	146.610	5168.390
8/14/09	10:30:41	182.25	26.375	10.900	147.059	5167.941	146.559	5168.441
8/14/09	10:30:56	182.5	26.399	10.898	147.004	5167.996	146.504	5168.496
8/14/09	10:31:11	182.75	26.417	10.910	146.963	5168.037	146.463	5168.537
8/14/09	10:31:26	183	26.379	10.915	147.049	5167.951	146.549	5168.451
8/14/09	10:31:41	183.25	26.408	10.916	146.983	5168.017	146.483	5168.517
8/14/09	10:31:56	183.5	26.433	10.923	146.924	5168.076	146.424	5168.576
8/14/09	10:32:11	183.75	26.456	10.929	146.873	5168.127	146.373	5168.627
8/14/09	10:32:26	184	26.478	10.933	146.821	5168.179	146.321	5168.679
8/14/09	10:32:41	184.25	26.500	10.932	146.771	5168.229	146.271	5168.729
8/14/09	10:32:56	184.5	26.521	10.939	146.722	5168.278	146.222	5168.778
8/14/09	10:33:11	184.75	26.543	10.940	146.671	5168.329	146.171	5168.829
8/14/09	10:33:26	185	26.564	10.942	146.622	5168.378	146.122	5168.878
8/14/09	10:33:41	185.25	26.585	10.942	146.574	5168.426	146.074	5168.926
8/14/09	10:55:01	0	26.172	11.923	147.742	5167.258	142.496	5172.504
8/14/09	11:00:01	5	26.687	11.154	146.553	5168.447	141.993	5173.007
8/14/09	11:05:01	10	27.090	10.969	145.623	5169.377	141.452	5173.548
8/14/09	11:10:01	15	27.411	10.916	144.880	5170.120	140.999	5174.001
8/14/09	11:15:01	20	27.662	10.895	144.301	5170.699	140.602	5174.398
8/14/09	11:20:01	25	27.870	10.890	143.822	5171.178	140.251	5174.749

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792: PSI	SN#: 13792: Temp - C	SN#: 137922: DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000	GW Elevation		
8/14/09	11:25:01	30	-0.018	15.447	208.214	5106.786			
8/14/09	11:30:01	35	0.021	25.110	208.123	5106.877			
8/14/09	11:35:01	40	31.506	19.611	135.426	5179.574	134.800	5180.200	
8/14/09	11:40:01	45	30.824	12.782	137.001	5177.999	136.375	5178.625	
8/14/09	11:45:01	50	30.370	11.423	138.050	5176.950	137.424	5177.576	
8/14/09	11:50:01	55	30.045	11.065	138.799	5176.201	138.173	5176.827	
8/14/09	11:55:01	60	29.816	10.973	139.329	5175.671	138.703	5176.297	
8/14/09	12:00:01	65	29.648	10.940	139.717	5175.283	139.091	5175.909	
8/14/09	12:05:01	70	29.509	10.924	140.036	5174.964	139.410	5175.590	
8/14/09	12:10:01	75	29.403	10.909	140.281	5174.719	139.655	5175.345	
8/14/09	12:15:01	80	29.320	10.899	140.474	5174.526	139.848	5175.152	
8/14/09	12:20:01	85	29.262	10.888	140.608	5174.392	139.982	5175.018	
8/14/09	12:25:01	90	29.221	10.877	140.702	5174.298	140.076	5174.924	
8/14/09	12:30:01	95	29.191	10.872	140.770	5174.230	140.144	5174.856	
8/14/09	12:35:01	100	29.170	10.862	140.819	5174.181	140.193	5174.807	
8/14/09	12:40:01	105	29.157	10.854	140.850	5174.150	140.224	5174.776	
8/14/09	12:45:01	110	29.148	10.844	140.871	5174.129	140.245	5174.755	
8/14/09	12:50:01	115	28.980	10.854	140.892	5174.108	140.266	5174.734	
8/14/09	12:55:01	120	29.026	10.863	140.909	5174.091	140.283	5174.717	
8/14/09	13:00:01	125	29.061	10.858	140.924	5174.076	140.298	5174.702	
8/14/09	13:05:01	130	29.088	10.852	140.939	5174.061	140.313	5174.687	
8/14/09	13:10:01	135	29.113	10.845	140.950	5174.050	140.324	5174.676	
8/14/09	13:15:01	140	29.131	10.839	140.910	5174.090	140.284	5174.716	
8/14/09	13:20:01	145	29.147	10.832	140.872	5174.128	140.246	5174.754	
8/14/09	13:25:01	150	29.160	10.825	140.842	5174.158	140.216	5174.784	
8/14/09	13:30:01	155	29.173	10.823	140.813	5174.187	140.187	5174.813	
8/14/09	13:35:01	160	29.185	10.824	140.784	5174.216	140.158	5174.842	
8/14/09	13:40:01	165	29.193	10.817	140.766	5174.234	140.141	5174.859	
8/14/09	13:45:01	170	29.202	10.804	140.746	5174.254	140.120	5174.880	
8/14/09	13:50:01	175	29.210	10.803	140.726	5174.274	140.100	5174.900	
8/14/09	13:55:01	180	29.212	10.797	140.722	5174.278	140.096	5174.904	
8/14/09	14:00:01	185	29.219	10.794	140.707	5174.293	140.081	5174.919	
8/14/09	14:05:25	0	29.236	10.772	140.036	5174.964	140.080	5174.920	
8/14/09	14:05:30	0.083	29.231	10.775	140.049	5174.951	140.079	5174.921	
8/14/09	14:05:35	0.167	29.231	10.774	140.049	5174.951	140.079	5174.921	
8/14/09	14:05:40	0.25	29.229	10.772	140.053	5174.947	140.083	5174.917	
8/14/09	14:05:45	0.333	29.229	10.777	140.054	5174.946	140.084	5174.916	
8/14/09	14:05:50	0.417	29.229	10.779	140.052	5174.948	140.082	5174.918	
8/14/09	14:05:55	0.5	29.228	10.782	140.054	5174.946	140.084	5174.916	
8/14/09	14:06:00	0.583	29.229	10.784	140.053	5174.947	140.083	5174.917	
8/14/09	14:06:05	0.667	29.228	10.781	140.054	5174.946	140.084	5174.916	
8/14/09	14:06:10	0.75	29.230	10.782	140.051	5174.949	140.081	5174.919	
8/14/09	14:06:15	0.833	29.230	10.784	140.050	5174.950	140.080	5174.920	
8/14/09	14:06:20	0.917	29.229	10.785	140.053	5174.947	140.083	5174.917	
8/14/09	14:06:25	1	29.229	10.784	140.053	5174.947	140.083	5174.917	
8/14/09	14:06:30	1.083	29.229	10.782	140.053	5174.947	140.083	5174.917	
8/14/09	14:06:35	1.167	29.231	10.783	140.048	5174.952	140.078	5174.922	
8/14/09	14:06:40	1.25	29.229	10.785	140.052	5174.948	140.082	5174.918	
8/14/09	14:06:45	1.333	29.230	10.785	140.050	5174.950	140.080	5174.920	
8/14/09	14:06:50	1.417	29.229	10.785	140.052	5174.948	140.082	5174.918	
8/14/09	14:06:55	1.5	29.230	10.787	140.051	5174.949	140.082	5174.918	
8/14/09	14:07:00	1.583	29.230	10.783	140.050	5174.950	140.080	5174.920	
8/14/09	14:07:05	1.667	29.231	10.785	140.049	5174.951	140.079	5174.921	
8/14/09	14:07:10	1.75	29.229	10.786	140.052	5174.948	140.082	5174.918	

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	14:07:15	1.833	29.231	10.786	140.049	5174.951		140.079	5174.921
8/14/09	14:07:20	1.917	29.230	10.786	140.050	5174.950		140.080	5174.920
8/14/09	14:07:25	2	29.230	10.786	140.050	5174.950		140.080	5174.920
8/14/09	14:07:30	2.083	29.230	10.785	140.050	5174.950		140.080	5174.920
8/14/09	14:07:35	2.167	29.231	10.786	140.049	5174.951		140.079	5174.921
8/14/09	14:07:40	2.25	29.230	10.786	140.051	5174.949		140.082	5174.918
8/14/09	14:07:45	2.333	29.230	10.785	140.049	5174.951		140.080	5174.920
8/14/09	14:07:50	2.417	29.230	10.783	140.051	5174.949		140.081	5174.919
8/14/09	14:07:55	2.5	29.231	10.786	140.048	5174.952		140.078	5174.922
8/14/09	14:08:00	2.583	29.232	10.789	140.046	5174.954		140.076	5174.924
8/14/09	14:08:05	2.667	29.232	10.787	140.046	5174.954		140.076	5174.924
8/14/09	14:08:10	2.75	29.231	10.786	140.047	5174.953		140.078	5174.922
8/14/09	14:08:15	2.833	29.231	10.786	140.048	5174.952		140.078	5174.922
8/14/09	14:08:20	2.917	29.231	10.782	140.049	5174.951		140.079	5174.921
8/14/09	14:08:25	3	29.231	10.783	140.047	5174.953		140.077	5174.923
8/14/09	14:08:30	3.083	29.232	10.787	140.045	5174.955		140.076	5174.924
8/14/09	14:08:35	3.167	29.233	10.788	140.043	5174.957		140.074	5174.926
8/14/09	14:08:40	3.25	29.231	10.786	140.048	5174.952		140.078	5174.922
8/14/09	14:08:45	3.333	29.229	10.785	140.052	5174.948		140.083	5174.917
8/14/09	14:08:50	3.417	29.232	10.785	140.045	5174.955		140.075	5174.925
8/14/09	14:08:55	3.5	29.232	10.787	140.047	5174.953		140.077	5174.923
8/14/09	14:09:00	3.583	29.232	10.784	140.045	5174.955		140.076	5174.924
8/14/09	14:09:05	3.667	29.231	10.784	140.047	5174.953		140.077	5174.923
8/14/09	14:09:10	3.75	29.231	10.784	140.047	5174.953		140.077	5174.923
8/14/09	14:09:15	3.833	29.232	10.784	140.046	5174.954		140.076	5174.924
8/14/09	14:09:20	3.917	29.233	10.786	140.043	5174.957		140.073	5174.927
8/14/09	14:09:25	4	29.231	10.786	140.048	5174.952		140.078	5174.922
8/14/09	14:09:30	4.083	29.233	10.788	140.043	5174.957		140.074	5174.926
8/14/09	14:09:35	4.167	29.233	10.785	140.044	5174.956		140.074	5174.926
8/14/09	14:09:40	4.25	29.234	10.787	140.042	5174.958		140.072	5174.928
8/14/09	14:09:45	4.333	29.233	10.784	140.043	5174.957		140.073	5174.927
8/14/09	14:09:50	4.417	29.232	10.784	140.046	5174.954		140.076	5174.924
8/14/09	14:09:55	4.5	29.233	10.785	140.044	5174.956		140.075	5174.925
8/14/09	14:10:00	4.583	29.238	10.784	140.031	5174.969		140.062	5174.938
8/14/09	14:10:05	4.667	29.251	10.787	140.003	5174.997		140.033	5174.967
8/14/09	14:10:10	4.75	29.255	10.783	139.993	5175.007		140.024	5174.976
8/14/09	14:10:15	4.833	29.247	10.785	140.012	5174.988		140.042	5174.958
8/14/09	14:10:20	4.917	29.247	10.784	140.010	5174.990		140.041	5174.959
8/14/09	14:10:25	5	29.247	10.788	140.011	5174.989		140.042	5174.958
8/14/09	14:10:30	5.083	28.976	10.783	140.030	5174.970		140.060	5174.940
8/14/09	14:10:35	5.167	29.233	10.784	140.044	5174.956		140.074	5174.926
8/14/09	14:10:40	5.25	29.235	10.784	140.040	5174.960		140.070	5174.930
8/14/09	14:10:45	5.333	29.235	10.787	140.040	5174.960		140.070	5174.930
8/14/09	14:10:50	5.417	29.234	10.785	140.040	5174.960		140.071	5174.929
8/14/09	14:10:55	5.5	29.235	10.784	140.039	5174.961		140.070	5174.930
8/14/09	14:11:00	5.583	29.233	10.785	140.043	5174.957		140.074	5174.926
8/14/09	14:11:05	5.667	29.234	10.787	140.041	5174.959		140.071	5174.929
8/14/09	14:11:10	5.75	29.233	10.786	140.043	5174.957		140.073	5174.927
8/14/09	14:11:15	5.833	29.244	10.785	140.040	5174.960		140.070	5174.930
8/14/09	14:11:20	5.917	29.236	10.785	140.037	5174.963		140.067	5174.933
8/14/09	14:11:25	6	29.233	10.783	140.043	5174.957		140.073	5174.927
8/14/09	14:11:30	6.083	29.233	10.787	140.044	5174.956		140.074	5174.926
8/14/09	14:11:35	6.167	29.234	10.786	140.041	5174.959		140.071	5174.929
8/14/09	14:11:40	6.25	29.234	10.783	140.041	5174.959		140.072	5174.928



**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	14:11:45	6.333	29.234	10.783	140.040	5174.960	140.071	5174.929
8/14/09	14:11:50	6.417	29.235	10.785	140.040	5174.960	140.070	5174.930
8/14/09	14:11:55	6.5	29.235	10.784	140.038	5174.962	140.069	5174.931
8/14/09	14:12:00	6.583	28.765	10.784	141.124	5173.876	141.154	5173.846
8/14/09	14:12:05	6.667	28.087	10.784	142.689	5172.311	142.719	5172.281
8/14/09	14:12:10	6.75	27.641	10.786	143.720	5171.280	143.751	5171.249
8/14/09	14:12:15	6.833	27.124	10.783	144.912	5170.088	144.943	5170.057
8/14/09	14:12:20	6.917	26.370	10.782	146.655	5168.345	146.685	5168.315
8/14/09	14:12:25	7	25.891	10.782	147.760	5167.240	147.791	5167.209
8/14/09	14:12:30	7.083	25.545	10.782	148.560	5166.440	148.590	5166.410
8/14/09	14:12:35	7.167	24.921	10.780	150.000	5165.000	150.031	5164.969
8/14/09	14:12:40	7.25	24.696	10.779	150.518	5164.482	150.549	5164.451
8/14/09	14:12:45	7.333	24.062	10.782	151.982	5163.018	152.013	5162.987
8/14/09	14:12:50	7.417	23.761	10.775	152.678	5162.322	152.709	5162.291
8/14/09	14:12:55	7.5	23.301	10.775	153.740	5161.260	153.770	5161.230
8/14/09	14:13:00	7.583	22.789	10.775	154.923	5160.077	154.954	5160.046
8/14/09	14:13:05	7.667	22.541	10.775	155.495	5159.505	155.526	5159.474
8/14/09	14:13:10	7.75	21.974	10.775	156.804	5158.196	156.834	5158.166
8/14/09	14:13:15	7.833	21.610	10.774	157.645	5157.355	157.676	5157.324
8/14/09	14:13:20	7.917	21.263	10.774	158.446	5156.554	158.476	5156.524
8/14/09	14:13:25	8	20.745	10.771	159.641	5155.359	159.672	5155.328
8/14/09	14:13:30	8.083	20.393	10.770	160.455	5154.545	160.485	5154.515
8/14/09	14:13:35	8.167	20.045	10.771	161.259	5153.741	161.289	5153.711
8/14/09	14:13:40	8.25	19.550	10.774	162.401	5152.599	162.432	5152.568
8/14/09	14:13:45	8.333	19.159	10.772	163.303	5151.697	163.334	5151.666
8/14/09	14:13:50	8.417	18.842	10.768	164.037	5150.963	164.067	5150.933
8/14/09	14:13:55	8.5	18.461	10.770	164.916	5150.084	164.947	5150.053
8/14/09	14:14:00	8.583	18.054	10.772	165.855	5149.145	165.886	5149.114
8/14/09	14:14:05	8.667	17.575	10.767	166.961	5148.039	166.992	5148.008
8/14/09	14:14:10	8.75	17.181	10.768	167.870	5147.130	167.901	5147.099
8/14/09	14:14:15	8.833	16.826	10.772	168.692	5146.308	168.722	5146.278
8/14/09	14:14:20	8.917	16.459	10.769	169.539	5145.461	169.569	5145.431
8/14/09	14:14:25	9	16.136	10.771	170.283	5144.717	170.314	5144.686
8/14/09	14:14:30	9.083	15.783	10.771	171.099	5143.901	171.129	5143.871
8/14/09	14:14:35	9.167	15.425	10.774	171.926	5143.074	171.957	5143.043
8/14/09	14:14:40	9.25	15.069	10.774	172.747	5142.253	172.778	5142.222
8/14/09	14:14:45	9.333	14.685	10.775	173.635	5141.365	173.665	5141.335
8/14/09	14:14:50	9.417	14.325	10.776	174.465	5140.535	174.495	5140.505
8/14/09	14:14:55	9.5	13.967	10.777	175.293	5139.707	175.324	5139.676
8/14/09	14:15:00	9.583	13.606	10.777	176.125	5138.875	176.155	5138.845
8/14/09	14:15:05	9.667	13.246	10.781	176.956	5138.044	176.987	5138.013
8/14/09	14:15:10	9.75	12.889	10.780	177.782	5137.218	177.812	5137.188
8/14/09	14:15:15	9.833	12.528	10.783	178.615	5136.385	178.646	5136.354
8/14/09	14:15:20	9.917	12.160	10.780	179.464	5135.536	179.494	5135.506
8/14/09	14:15:25	10	11.778	10.783	180.347	5134.653	180.378	5134.622
8/14/09	14:15:30	10.083	11.429	10.785	181.153	5133.847	181.184	5133.816
8/14/09	14:15:35	10.167	11.077	10.787	181.965	5133.035	181.996	5133.004
8/14/09	14:15:40	10.25	10.742	10.790	182.739	5132.261	182.770	5132.230
8/14/09	14:15:45	10.333	10.441	10.791	183.433	5131.567	183.463	5131.537
8/14/09	14:15:50	10.417	10.126	10.793	184.160	5130.840	184.191	5130.809
8/14/09	14:15:55	10.5	9.819	10.795	184.870	5130.130	184.901	5130.099
8/14/09	14:16:00	10.583	9.489	10.795	185.632	5129.368	185.662	5129.338
8/14/09	14:16:05	10.667	9.133	10.800	186.453	5128.547	186.484	5128.516
8/14/09	14:16:10	10.75	8.796	10.800	187.232	5127.768	187.262	5127.738

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792; Temp - C	SN#: 13792; DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	14:16:15	10.833	8.451	10.802	188.028	5126.972		188.059	5126.941
8/14/09	14:16:20	10.917	8.179	10.804	188.657	5126.343		188.688	5126.312
8/14/09	14:16:25	11	7.853	10.808	189.409	5125.591		189.440	5125.560
8/14/09	14:16:30	11.083	7.531	10.811	190.152	5124.848		190.183	5124.817
8/14/09	14:16:35	11.167	7.208	10.817	190.899	5124.101		190.929	5124.071
8/14/09	14:16:40	11.25	6.905	10.820	191.598	5123.402		191.629	5123.371
8/14/09	14:16:45	11.333	6.593	10.819	192.319	5122.681		192.350	5122.650
8/14/09	14:16:50	11.417	6.270	10.820	193.063	5121.937		193.094	5121.906
8/14/09	14:16:55	11.5	5.995	10.826	193.699	5121.301		193.729	5121.271
8/14/09	14:17:00	11.583	5.647	10.828	194.503	5120.497		194.534	5120.466
8/14/09	14:17:05	11.667	5.370	10.832	195.141	5119.859		195.172	5119.828
8/14/09	14:17:10	11.75	5.075	10.837	195.824	5119.176		195.855	5119.145
8/14/09	14:17:15	11.833	4.742	10.840	196.593	5118.407		196.624	5118.376
8/14/09	14:17:20	11.917	4.494	10.845	197.166	5117.834		197.197	5117.803
8/14/09	14:17:25	12	4.188	10.845	197.871	5117.129		197.902	5117.098
8/14/09	14:17:30	12.083	3.844	10.853	198.665	5116.335		198.696	5116.304
8/14/09	14:17:35	12.167	3.617	10.854	199.191	5115.809		199.222	5115.778
8/14/09	14:17:40	12.25	3.324	10.858	199.867	5115.133		199.898	5115.102
8/14/09	14:17:45	12.333	3.002	10.865	200.611	5114.389		200.642	5114.358
8/14/09	14:17:50	12.417	2.766	10.865	201.156	5113.844		201.187	5113.813
8/14/09	14:17:55	12.5	2.432	10.872	201.927	5113.073		201.958	5113.042
8/14/09	14:18:00	12.583	2.188	10.875	202.489	5112.511		202.520	5112.480
8/14/09	14:18:05	12.667	1.878	10.877	203.205	5111.795		203.236	5111.764
8/14/09	14:18:10	12.75	1.620	10.884	203.801	5111.199		203.832	5111.168
8/14/09	14:18:15	12.833	1.335	10.886	204.458	5110.542		204.489	5110.511
8/14/09	14:18:20	12.917	1.062	10.894	205.090	5109.910		205.121	5109.879
8/14/09	14:18:25	13	0.802	10.894	205.690	5109.310		205.721	5109.279
8/14/09	14:18:30	13.083	0.520	10.897	206.341	5108.659		206.372	5108.628
8/14/09	14:18:35	13.167	0.255	10.901	206.952	5108.048		206.983	5108.017
8/14/09	14:18:40	13.25	0.012	10.907	207.513	5107.487		207.544	5107.456
8/14/09	14:18:45	13.333	0.055	10.908	207.415	5107.585		207.446	5107.554
8/14/09	14:18:50	13.417	0.500	10.908	206.388	5108.612		206.418	5108.582
8/14/09	14:18:55	13.5	0.916	10.915	205.427	5109.573		205.458	5109.542
8/14/09	14:19:00	13.583	1.319	10.918	204.496	5110.504		204.527	5110.473
8/14/09	14:19:05	13.667	1.705	10.921	203.605	5111.395		203.636	5111.364
8/14/09	14:19:10	13.75	2.076	10.923	202.749	5112.251		202.780	5112.220
8/14/09	14:19:15	13.833	2.430	10.925	201.931	5113.069		201.962	5113.038
8/14/09	14:19:20	13.917	2.771	10.932	201.144	5113.856		201.175	5113.825
8/14/09	14:19:25	14	3.095	10.934	200.395	5114.605		200.426	5114.574
8/14/09	14:19:30	14.083	3.409	10.938	199.671	5115.329		199.702	5115.298
8/14/09	14:19:35	14.167	3.706	10.939	198.984	5116.016		199.015	5115.985
8/14/09	14:19:40	14.25	3.983	10.941	198.344	5116.656		198.375	5116.625
8/14/09	14:19:45	14.333	4.249	10.946	197.731	5117.269		197.762	5117.238
8/14/09	14:19:50	14.417	4.502	10.945	197.147	5117.853		197.178	5117.822
8/14/09	14:19:55	14.5	4.736	10.948	196.607	5118.393		196.638	5118.362
8/14/09	14:20:00	14.583	4.952	10.951	196.107	5118.893		196.138	5118.862
8/14/09	14:20:05	14.667	5.148	10.954	195.655	5119.345		195.686	5119.314
8/14/09	14:20:10	14.75	5.328	10.957	195.240	5119.760		195.271	5119.729
8/14/09	14:20:15	14.833	5.489	10.957	194.867	5120.133		194.898	5120.102
8/14/09	14:20:20	14.917	5.636	10.958	194.529	5120.471		194.560	5120.440
8/14/09	14:20:25	15	5.767	10.963	194.227	5120.773		194.258	5120.742
8/14/09	14:20:30	15.083	5.888	10.964	193.946	5121.054		193.977	5121.023
8/14/09	14:20:35	15.167	6.011	10.963	193.663	5121.337		193.694	5121.306
8/14/09	14:20:40	15.25	6.130	10.963	193.388	5121.612		193.419	5121.581

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; SN#: 13792 SN#: 137922			TOC Elev	Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation		
8/14/09	14:20:45	15.333	6.252	10.968	193.107	5121.893	193.138	5121.862
8/14/09	14:20:50	15.417	6.369	10.966	192.835	5122.165	192.866	5122.134
8/14/09	14:20:55	15.5	6.488	10.967	192.560	5122.440	192.591	5122.409
8/14/09	14:21:00	15.583	6.608	10.968	192.284	5122.716	192.315	5122.685
8/14/09	14:21:05	15.667	6.724	10.972	192.015	5122.985	192.046	5122.954
8/14/09	14:21:10	15.75	6.839	10.972	191.751	5123.249	191.782	5123.218
8/14/09	14:21:15	15.833	6.952	10.970	191.489	5123.511	191.520	5123.480
8/14/09	14:21:20	15.917	7.065	10.975	191.228	5123.772	191.259	5123.741
8/14/09	14:21:25	16	7.185	10.973	190.952	5124.048	190.983	5124.017
8/14/09	14:21:30	16.083	7.292	10.975	190.705	5124.295	190.736	5124.264
8/14/09	14:21:35	16.167	7.404	10.975	190.445	5124.555	190.476	5124.524
8/14/09	14:21:40	16.25	7.516	10.975	190.187	5124.813	190.218	5124.782
8/14/09	14:21:45	16.333	7.626	10.971	189.934	5125.066	189.965	5125.035
8/14/09	14:21:50	16.417	7.736	10.968	189.680	5125.320	189.711	5125.289
8/14/09	14:21:55	16.5	7.844	10.967	189.431	5125.569	189.462	5125.538
8/14/09	14:22:00	16.583	7.950	10.968	189.185	5125.815	189.216	5125.784
8/14/09	14:22:05	16.667	8.057	10.967	188.938	5126.062	188.970	5126.030
8/14/09	14:22:10	16.75	8.165	10.969	188.690	5126.310	188.721	5126.279
8/14/09	14:22:15	16.833	8.271	10.964	188.444	5126.556	188.475	5126.525
8/14/09	14:22:20	16.917	8.375	10.967	188.205	5126.795	188.236	5126.764
8/14/09	14:22:25	17	8.479	10.962	187.965	5127.035	187.996	5127.004
8/14/09	14:22:30	17.083	8.586	10.964	187.717	5127.283	187.749	5127.251
8/14/09	14:22:35	17.167	8.690	10.963	187.478	5127.522	187.509	5127.491
8/14/09	14:22:40	17.25	8.791	10.961	187.243	5127.757	187.274	5127.726
8/14/09	14:22:45	17.333	8.893	10.960	187.008	5127.992	187.039	5127.961
8/14/09	14:22:50	17.417	8.994	10.960	186.775	5128.225	186.806	5128.194
8/14/09	14:22:55	17.5	9.097	10.959	186.537	5128.463	186.568	5128.432
8/14/09	14:23:00	17.583	9.195	10.960	186.311	5128.689	186.342	5128.658
8/14/09	14:23:05	17.667	9.294	10.953	186.083	5128.917	186.114	5128.886
8/14/09	14:23:10	17.75	9.393	10.955	185.853	5129.147	185.885	5129.115
8/14/09	14:23:15	17.833	9.494	10.956	185.620	5129.380	185.651	5129.349
8/14/09	14:23:20	17.917	9.590	10.953	185.399	5129.601	185.430	5129.570
8/14/09	14:23:25	18	9.687	10.952	185.174	5129.826	185.206	5129.794
8/14/09	14:23:30	18.083	9.783	10.954	184.953	5130.047	184.984	5130.016
8/14/09	14:23:35	18.167	9.878	10.951	184.733	5130.267	184.764	5130.236
8/14/09	14:23:40	18.25	9.974	10.950	184.511	5130.489	184.542	5130.458
8/14/09	14:23:45	18.333	10.068	10.948	184.295	5130.705	184.326	5130.674
8/14/09	14:23:50	18.417	10.162	10.949	184.078	5130.922	184.109	5130.891
8/14/09	14:23:55	18.5	10.258	10.947	183.856	5131.144	183.888	5131.112
8/14/09	14:24:00	18.583	10.348	10.946	183.647	5131.353	183.679	5131.321
8/14/09	14:24:05	18.667	10.440	10.947	183.435	5131.565	183.466	5131.534
8/14/09	14:24:10	18.75	10.534	10.944	183.219	5131.781	183.250	5131.750
8/14/09	14:24:15	18.833	10.625	10.944	183.009	5131.991	183.041	5131.959
8/14/09	14:24:20	18.917	10.717	10.945	182.797	5132.203	182.828	5132.172
8/14/09	14:24:25	19	10.807	10.945	182.588	5132.412	182.619	5132.381
8/14/09	14:24:30	19.083	10.896	10.941	182.382	5132.618	182.413	5132.587
8/14/09	14:24:35	19.167	10.987	10.943	182.173	5132.827	182.205	5132.795
8/14/09	14:24:40	19.25	11.074	10.943	181.972	5133.028	182.003	5132.997
8/14/09	14:24:45	19.333	11.162	10.941	181.769	5133.231	181.800	5133.200
8/14/09	14:24:50	19.417	11.250	10.941	181.566	5133.434	181.598	5133.402
8/14/09	14:24:55	19.5	11.339	10.936	181.360	5133.640	181.391	5133.609
8/14/09	14:25:00	19.583	11.426	10.939	181.159	5133.841	181.190	5133.810
8/14/09	14:25:05	19.667	11.513	10.938	180.959	5134.041	180.991	5134.009
8/14/09	14:25:10	19.75	11.596	10.935	180.766	5134.234	180.798	5134.202

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	14:25:15	19.833	11.681	10.937	180.571	5134.429	180.602	5134.398
8/14/09	14:25:20	19.917	11.767	10.934	180.373	5134.627	180.404	5134.596
8/14/09	14:25:25	20	11.850	10.933	180.180	5134.820	180.211	5134.789
8/14/09	14:25:30	20.083	11.935	10.933	179.984	5135.016	180.015	5134.985
8/14/09	14:25:35	20.167	12.018	10.933	179.793	5135.207	179.825	5135.175
8/14/09	14:25:40	20.25	12.099	10.930	179.605	5135.395	179.636	5135.364
8/14/09	14:25:45	20.333	12.183	10.931	179.412	5135.588	179.444	5135.556
8/14/09	14:25:50	20.417	12.264	10.931	179.224	5135.776	179.255	5135.745
8/14/09	14:25:55	20.5	12.346	10.929	179.036	5135.964	179.067	5135.933
8/14/09	14:26:00	20.583	12.425	10.930	178.853	5136.147	178.885	5136.115
8/14/09	14:26:05	20.667	12.506	10.927	178.666	5136.334	178.697	5136.303
8/14/09	14:26:10	20.75	12.586	10.929	178.482	5136.518	178.513	5136.487
8/14/09	14:26:15	20.833	12.665	10.924	178.300	5136.700	178.331	5136.669
8/14/09	14:26:20	20.917	12.742	10.924	178.120	5136.880	178.152	5136.848
8/14/09	14:26:25	21	12.821	10.924	177.939	5137.061	177.970	5137.030
8/14/09	14:26:30	21.083	12.899	10.925	177.759	5137.241	177.790	5137.210
8/14/09	14:26:35	21.167	12.976	10.919	177.581	5137.419	177.612	5137.388
8/14/09	14:26:40	21.25	13.053	10.920	177.403	5137.597	177.435	5137.565
8/14/09	14:26:45	21.333	13.128	10.921	177.229	5137.771	177.260	5137.740
8/14/09	14:26:50	21.417	13.205	10.918	177.051	5137.949	177.082	5137.918
8/14/09	14:26:55	21.5	13.284	10.920	176.870	5138.130	176.902	5138.098
8/14/09	14:27:00	21.583	13.358	10.921	176.699	5138.301	176.730	5138.270
8/14/09	14:27:05	21.667	13.433	10.917	176.526	5138.474	176.557	5138.443
8/14/09	14:27:10	21.75	13.504	10.920	176.362	5138.638	176.394	5138.606
8/14/09	14:27:15	21.833	13.580	10.918	176.185	5138.815	176.216	5138.784
8/14/09	14:27:20	21.917	13.655	10.917	176.013	5138.987	176.044	5138.956
8/14/09	14:27:25	22	13.728	10.914	175.843	5139.157	175.875	5139.125
8/14/09	14:27:30	22.083	13.797	10.914	175.684	5139.316	175.716	5139.284
8/14/09	14:27:35	22.167	13.873	10.915	175.509	5139.491	175.541	5139.459
8/14/09	14:27:40	22.25	13.942	10.917	175.350	5139.650	175.382	5139.618
8/14/09	14:27:45	22.333	14.016	10.916	175.179	5139.821	175.210	5139.790
8/14/09	14:27:50	22.417	14.088	10.912	175.013	5139.987	175.044	5139.956
8/14/09	14:27:55	22.5	14.160	10.912	174.847	5140.153	174.878	5140.122
8/14/09	14:28:00	22.583	14.231	10.913	174.682	5140.318	174.714	5140.286
8/14/09	14:28:05	22.667	14.301	10.912	174.520	5140.480	174.552	5140.448
8/14/09	14:28:10	22.75	14.369	10.909	174.363	5140.637	174.394	5140.606
8/14/09	14:28:15	22.833	14.439	10.909	174.203	5140.797	174.234	5140.766
8/14/09	14:28:20	22.917	14.506	10.910	174.047	5140.953	174.078	5140.922
8/14/09	14:28:25	23	14.576	10.909	173.886	5141.114	173.917	5141.083
8/14/09	14:28:30	23.083	14.639	10.909	173.741	5141.259	173.772	5141.228
8/14/09	14:28:35	23.167	14.711	10.908	173.574	5141.426	173.605	5141.395
8/14/09	14:28:40	23.25	14.775	10.906	173.427	5141.573	173.459	5141.541
8/14/09	14:28:45	23.333	14.843	10.907	173.270	5141.730	173.301	5141.699
8/14/09	14:28:50	23.417	14.906	10.908	173.125	5141.875	173.157	5141.843
8/14/09	14:28:55	23.5	14.979	10.903	172.956	5142.044	172.988	5142.012
8/14/09	14:29:00	23.583	15.041	10.906	172.813	5142.187	172.845	5142.155
8/14/09	14:29:05	23.667	15.106	10.902	172.663	5142.337	172.695	5142.305
8/14/09	14:29:10	23.75	15.170	10.904	172.514	5142.486	172.545	5142.455
8/14/09	14:29:15	23.833	15.235	10.900	172.364	5142.636	172.396	5142.604
8/14/09	14:29:20	23.917	15.303	10.903	172.208	5142.792	172.240	5142.760
8/14/09	14:29:25	24	15.366	10.899	172.063	5142.937	172.095	5142.905
8/14/09	14:29:30	24.083	15.425	10.900	171.925	5143.075	171.957	5143.043
8/14/09	14:29:35	24.167	15.493	10.898	171.769	5143.231	171.800	5143.200
8/14/09	14:29:40	24.25	15.553	10.900	171.629	5143.371	171.661	5143.339

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792: SN#: 13792 SN#: 137922			TOC Elev	Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation		
8/14/09	14:29:45	24.333	15.620	10.901	171.475	5143.525	171.507	5143.493
8/14/09	14:29:50	24.417	15.678	10.900	171.342	5143.658	171.373	5143.627
8/14/09	14:29:55	24.5	15.744	10.901	171.188	5143.812	171.220	5143.780
8/14/09	14:30:00	24.583	15.801	10.896	171.058	5143.942	171.090	5143.910
8/14/09	14:30:05	24.667	15.862	10.897	170.916	5144.084	170.948	5144.052
8/14/09	14:30:10	24.75	15.924	10.897	170.774	5144.226	170.806	5144.194
8/14/09	14:30:15	24.833	15.985	10.897	170.633	5144.367	170.665	5144.335
8/14/09	14:30:20	24.917	16.046	10.895	170.493	5144.507	170.524	5144.476
8/14/09	14:30:25	25	16.106	10.896	170.353	5144.647	170.385	5144.615
8/14/09	14:30:30	25.083	16.165	10.895	170.216	5144.784	170.248	5144.752
8/14/09	14:30:35	25.167	16.226	10.894	170.077	5144.923	170.109	5144.891
8/14/09	14:30:40	25.25	16.284	10.895	169.943	5145.057	169.975	5145.025
8/14/09	14:30:45	25.333	16.343	10.894	169.805	5145.195	169.837	5145.163
8/14/09	14:30:50	25.417	16.402	10.892	169.670	5145.330	169.702	5145.298
8/14/09	14:30:55	25.5	16.458	10.893	169.540	5145.460	169.572	5145.428
8/14/09	14:31:00	25.583	16.516	10.892	169.406	5145.594	169.438	5145.562
8/14/09	14:31:05	25.667	16.578	10.890	169.264	5145.736	169.296	5145.704
8/14/09	14:31:10	25.75	16.632	10.893	169.139	5145.861	169.171	5145.829
8/14/09	14:31:15	25.833	16.689	10.890	169.008	5145.992	169.040	5145.960
8/14/09	14:31:20	25.917	16.744	10.889	168.879	5146.121	168.911	5146.089
8/14/09	14:31:25	26	16.799	10.890	168.753	5146.247	168.784	5146.216
8/14/09	14:31:30	26.083	16.855	10.891	168.624	5146.376	168.655	5146.345
8/14/09	14:31:35	26.167	16.914	10.888	168.487	5146.513	168.519	5146.481
8/14/09	14:31:40	26.25	16.967	10.891	168.364	5146.636	168.396	5146.604
8/14/09	14:31:45	26.333	17.023	10.890	168.236	5146.764	168.268	5146.732
8/14/09	14:31:50	26.417	17.078	10.888	168.110	5146.890	168.141	5146.859
8/14/09	14:31:55	26.5	17.131	10.888	167.988	5147.012	168.019	5146.981
8/14/09	14:32:00	26.583	17.184	10.885	167.863	5147.137	167.895	5147.105
8/14/09	14:32:05	26.667	17.241	10.885	167.733	5147.267	167.765	5147.235
8/14/09	14:32:10	26.75	17.289	10.888	167.621	5147.379	167.652	5147.348
8/14/09	14:32:15	26.833	17.344	10.885	167.495	5147.505	167.527	5147.473
8/14/09	14:32:20	26.917	17.396	10.884	167.374	5147.626	167.406	5147.594
8/14/09	14:32:25	27	17.448	10.884	167.254	5147.746	167.286	5147.714
8/14/09	14:32:30	27.083	17.501	10.882	167.131	5147.869	167.163	5147.837
8/14/09	14:32:35	27.167	17.554	10.882	167.010	5147.990	167.042	5147.958
8/14/09	14:32:40	27.25	17.606	10.880	166.889	5148.111	166.921	5148.079
8/14/09	14:32:45	27.333	17.655	10.879	166.777	5148.223	166.808	5148.192
8/14/09	14:32:50	27.417	17.706	10.878	166.658	5148.342	166.690	5148.310
8/14/09	14:32:55	27.5	17.759	10.880	166.537	5148.463	166.569	5148.431
8/14/09	14:33:00	27.583	17.809	10.881	166.420	5148.580	166.452	5148.548
8/14/09	14:33:05	27.667	17.861	10.878	166.301	5148.699	166.333	5148.667
8/14/09	14:33:10	27.75	17.911	10.876	166.186	5148.814	166.217	5148.783
8/14/09	14:33:15	27.833	17.961	10.877	166.070	5148.930	166.102	5148.898
8/14/09	14:33:20	27.917	18.011	10.879	165.954	5149.046	165.986	5149.014
8/14/09	14:33:25	28	18.061	10.876	165.838	5149.162	165.870	5149.130
8/14/09	14:33:30	28.083	18.110	10.874	165.727	5149.273	165.759	5149.241
8/14/09	14:33:35	28.167	18.158	10.877	165.616	5149.384	165.648	5149.352
8/14/09	14:33:40	28.25	18.208	10.873	165.501	5149.499	165.533	5149.467
8/14/09	14:33:45	28.333	18.256	10.872	165.390	5149.610	165.422	5149.578
8/14/09	14:33:50	28.417	18.304	10.874	165.279	5149.721	165.311	5149.689
8/14/09	14:33:55	28.5	18.352	10.872	165.168	5149.832	165.199	5149.801
8/14/09	14:34:00	28.583	18.398	10.873	165.061	5149.939	165.093	5149.907
8/14/09	14:34:05	28.667	18.446	10.872	164.949	5150.051	164.981	5150.019
8/14/09	14:34:10	28.75	18.493	10.873	164.841	5150.159	164.873	5150.127

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW	Elevation		
8/14/09	14:34:15	28.833	18.539	10.871	164.736	5150.264		164.768	5150.232
8/14/09	14:34:20	28.917	18.586	10.870	164.628	5150.372		164.660	5150.340
8/14/09	14:34:25	29	18.632	10.871	164.520	5150.480		164.552	5150.448
8/14/09	14:34:30	29.083	18.678	10.871	164.415	5150.585		164.447	5150.553
8/14/09	14:34:35	29.167	18.725	10.871	164.307	5150.693		164.339	5150.661
8/14/09	14:34:40	29.25	18.765	10.871	164.213	5150.787		164.245	5150.755
8/14/09	14:34:45	29.333	18.818	10.870	164.091	5150.909		164.123	5150.877
8/14/09	14:34:50	29.417	18.863	10.866	163.988	5151.012		164.020	5150.980
8/14/09	14:34:55	29.5	18.908	10.867	163.885	5151.115		163.917	5151.083
8/14/09	14:35:00	29.583	18.952	10.866	163.781	5151.219		163.813	5151.187
8/14/09	14:35:05	29.667	18.997	10.867	163.678	5151.322		163.710	5151.290
8/14/09	14:35:10	29.75	19.041	10.867	163.576	5151.424		163.608	5151.392
8/14/09	14:35:15	29.833	19.086	10.865	163.472	5151.528		163.504	5151.496
8/14/09	14:35:21	29.933	19.133	10.866	163.363	5151.637		163.395	5151.605
8/14/09	14:35:25	30	19.169	10.864	163.282	5151.718		163.314	5151.686
8/14/09	14:35:30	30.083	19.212	10.867	163.183	5151.817		163.215	5151.785
8/14/09	14:35:35	30.167	19.256	10.866	163.079	5151.921		163.111	5151.889
8/14/09	14:35:40	30.25	19.297	10.865	162.984	5152.016		163.017	5151.983
8/14/09	14:35:45	30.333	19.339	10.862	162.888	5152.112		162.921	5152.079
8/14/09	14:35:50	30.417	19.382	10.862	162.789	5152.211		162.821	5152.179
8/14/09	14:35:55	30.5	19.425	10.863	162.689	5152.311		162.721	5152.279
8/14/09	14:36:00	30.583	19.467	10.863	162.594	5152.406		162.626	5152.374
8/14/09	14:36:05	30.667	19.508	10.862	162.497	5152.503		162.529	5152.471
8/14/09	14:36:10	30.75	19.550	10.861	162.401	5152.599		162.433	5152.567
8/14/09	14:36:15	30.833	19.591	10.860	162.306	5152.694		162.338	5152.662
8/14/09	14:36:20	30.917	19.631	10.859	162.215	5152.785		162.247	5152.753
8/14/09	14:36:25	31	19.673	10.859	162.118	5152.882		162.150	5152.850
8/14/09	14:36:30	31.083	19.713	10.860	162.025	5152.975		162.057	5152.943
8/14/09	14:36:35	31.167	19.753	10.858	161.931	5153.069		161.963	5153.037
8/14/09	14:36:40	31.25	19.794	10.860	161.838	5153.162		161.870	5153.130
8/14/09	14:36:45	31.333	19.834	10.856	161.745	5153.255		161.777	5153.223
8/14/09	14:36:50	31.417	19.874	10.857	161.652	5153.348		161.684	5153.316
8/14/09	14:36:55	31.5	19.914	10.859	161.561	5153.439		161.593	5153.407
8/14/09	14:37:00	31.583	19.954	10.858	161.468	5153.532		161.501	5153.499
8/14/09	14:37:05	31.667	19.994	10.856	161.375	5153.625		161.407	5153.593
8/14/09	14:37:10	31.75	20.032	10.858	161.287	5153.713		161.320	5153.680
8/14/09	14:37:15	31.833	20.073	10.857	161.194	5153.806		161.226	5153.774
8/14/09	14:37:20	31.917	20.110	10.855	161.108	5153.892		161.140	5153.860
8/14/09	14:37:25	32	20.150	10.854	161.017	5153.983		161.049	5153.951
8/14/09	14:37:30	32.083	20.189	10.852	160.925	5154.075		160.957	5154.043
8/14/09	14:37:35	32.167	20.227	10.853	160.838	5154.162		160.870	5154.130
8/14/09	14:37:40	32.25	20.264	10.854	160.753	5154.247		160.785	5154.215
8/14/09	14:37:45	32.333	20.301	10.853	160.668	5154.332		160.700	5154.300
8/14/09	14:37:50	32.417	20.339	10.855	160.579	5154.421		160.611	5154.389
8/14/09	14:37:55	32.5	20.377	10.857	160.492	5154.508		160.524	5154.476
8/14/09	14:38:00	32.583	20.412	10.854	160.411	5154.589		160.443	5154.557
8/14/09	14:38:05	32.667	20.450	10.851	160.322	5154.678		160.354	5154.646
8/14/09	14:38:10	32.75	20.487	10.849	160.237	5154.763		160.269	5154.731
8/14/09	14:38:15	32.833	20.524	10.853	160.153	5154.847		160.185	5154.815
8/14/09	14:38:20	32.917	20.557	10.850	160.076	5154.924		160.108	5154.892
8/14/09	14:38:25	33	20.594	10.850	159.990	5155.010		160.022	5154.978
8/14/09	14:38:30	33.083	20.631	10.849	159.906	5155.094		159.938	5155.062
8/14/09	14:38:35	33.167	20.665	10.856	159.826	5155.174		159.858	5155.142
8/14/09	14:38:40	33.25	20.702	10.850	159.741	5155.259		159.773	5155.227

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/14/09	14:38:45	33.333	20.738	10.855	159.658	5155.342	159.690	5155.310
8/14/09	14:38:50	33.417	20.773	10.852	159.577	5155.423	159.609	5155.391
8/14/09	14:38:55	33.5	20.811	10.851	159.489	5155.511	159.522	5155.478
8/14/09	14:39:00	33.583	20.845	10.854	159.410	5155.590	159.442	5155.558
8/14/09	14:39:05	33.667	20.878	10.858	159.335	5155.665	159.367	5155.633
8/14/09	14:39:10	33.75	20.913	10.858	159.253	5155.747	159.286	5155.714
8/14/09	14:39:15	33.833	20.955	10.858	159.158	5155.842	159.190	5155.810
8/14/09	14:39:20	33.917	20.982	10.863	159.095	5155.905	159.127	5155.873
8/14/09	14:39:25	34	21.016	10.861	159.016	5155.984	159.049	5155.951
8/14/09	14:39:30	34.083	21.049	10.863	158.939	5156.061	158.971	5156.029
8/14/09	14:39:35	34.167	21.090	10.864	158.846	5156.154	158.878	5156.122
8/14/09	14:39:40	34.25	21.122	10.867	158.772	5156.228	158.804	5156.196
8/14/09	14:39:45	34.333	21.156	10.867	158.693	5156.307	158.725	5156.275
8/14/09	14:39:50	34.417	21.190	10.866	158.615	5156.385	158.648	5156.352
8/14/09	14:39:55	34.5	21.217	10.867	158.551	5156.449	158.584	5156.416
8/14/09	14:40:00	34.583	21.251	10.866	158.473	5156.527	158.506	5156.494
8/14/09	14:40:05	34.667	21.282	10.869	158.403	5156.597	158.435	5156.565
8/14/09	14:40:10	34.75	21.316	10.867	158.324	5156.676	158.356	5156.644
8/14/09	14:40:15	34.833	21.347	10.863	158.251	5156.749	158.284	5156.716
8/14/09	14:40:20	34.917	21.379	10.867	158.179	5156.821	158.211	5156.789
8/14/09	14:40:25	35	21.417	10.870	158.091	5156.909	158.124	5156.876
8/14/09	14:40:30	35.083	21.444	10.864	158.028	5156.972	158.061	5156.939
8/14/09	14:40:35	35.167	21.482	10.861	157.941	5157.059	157.973	5157.027
8/14/09	14:40:40	35.25	21.510	10.861	157.876	5157.124	157.908	5157.092
8/14/09	14:41:33	0	21.841	10.853	156.806	5158.194	156.838	5158.162
8/14/09	14:46:33	300.001	23.370	10.828	153.275	5161.725	153.308	5161.692
8/14/09	14:51:33	600.001	24.552	10.816	150.547	5164.453	150.580	5164.420
8/14/09	14:56:33	900.001	25.459	10.810	148.453	5166.547	148.486	5166.514
8/14/09	15:01:33	1200.001	26.161	10.801	146.830	5168.170	146.864	5168.136
8/14/09	15:06:33	1500.001	26.709	10.792	145.565	5169.435	145.599	5169.401
8/14/09	15:11:33	1800.001	27.140	10.791	144.569	5170.431	144.604	5170.396
8/14/09	15:16:33	2100.001	27.484	10.793	143.777	5171.223	143.812	5171.188
8/14/09	15:21:33	2400.001	27.759	10.786	143.141	5171.859	143.176	5171.824
8/14/09	15:26:33	2700.001	27.982	10.775	142.626	5172.374	142.661	5172.339
8/14/09	15:31:33	3000.001	28.170	10.772	142.192	5172.808	142.228	5172.772
8/14/09	15:36:33	3300.001	28.318	10.772	141.850	5173.150	141.886	5173.114
8/14/09	15:41:33	3600.001	28.435	10.763	141.580	5173.420	141.616	5173.384
8/14/09	15:46:33	3900.001	28.529	10.758	141.364	5173.636	141.401	5173.599
8/14/09	15:51:33	4200.001	28.624	10.757	141.143	5173.857	141.180	5173.820
8/14/09	15:56:33	4500.001	28.722	10.751	140.917	5174.083	140.955	5174.045
8/14/09	16:01:33	4800.001	28.778	10.747	140.788	5174.212	140.826	5174.174
8/14/09	16:06:33	5100.001	28.825	10.743	140.680	5174.320	140.718	5174.282
8/14/09	16:11:33	5400.001	28.867	10.741	140.581	5174.419	140.620	5174.380
8/14/09	16:16:33	5700.001	28.902	10.733	140.501	5174.499	140.540	5174.460
8/14/09	16:21:33	6000.001	28.935	10.723	140.425	5174.575	140.464	5174.536
8/14/09	16:26:33	6300.001	28.965	10.720	140.355	5174.645	140.395	5174.605
8/14/09	16:31:33	6600.001	28.992	10.721	140.294	5174.706	140.334	5174.666
8/14/09	16:36:33	6900.001	29.016	10.717	140.237	5174.763	140.278	5174.722
8/14/09	16:41:33	7200.001	29.038	10.715	140.187	5174.813	140.227	5174.773
8/14/09	16:46:33	7500.001	29.058	10.709	140.141	5174.859	140.182	5174.818
8/14/09	16:51:33	7800.001	29.078	10.705	140.095	5174.905	140.137	5174.863
8/14/09	16:56:33	8100.001	29.094	10.704	140.058	5174.942	140.100	5174.900
8/14/09	17:01:33	8400.001	29.110	10.700	140.020	5174.980	140.063	5174.937
8/14/09	17:06:33	8700.001	29.128	10.702	139.980	5175.020	140.023	5174.977

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792: PSI	SN#: 13792: Temp - C	SN#: 137922: DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/14/09	17:11:33	9000.001	29.136	10.695	139.962	5175.038		140.005	5174.995
8/14/09	17:16:33	9300.001	29.148	10.686	139.934	5175.066		139.977	5175.023
8/14/09	17:21:33	9600.001	29.158	10.679	139.910	5175.090		139.954	5175.046
8/14/09	17:26:33	9900.001	29.161	10.681	139.904	5175.096		139.948	5175.052
8/14/09	17:31:33	10200.001	29.178	10.678	139.864	5175.136		139.909	5175.091
8/14/09	17:36:33	10500.001	29.185	10.673	139.847	5175.153		139.892	5175.108
8/14/09	17:41:33	10800.001	29.189	10.671	139.838	5175.162		139.883	5175.117
8/14/09	17:46:33	11100.001	29.200	10.667	139.814	5175.186		139.859	5175.141
8/14/09	17:51:33	11400.001	29.210	10.665	139.791	5175.209		139.836	5175.164
8/14/09	17:56:33	11700.001	29.215	10.663	139.779	5175.221		139.825	5175.175
8/14/09	18:01:33	12000.001	29.225	10.661	139.755	5175.245		139.802	5175.198
8/14/09	18:06:33	12300.001	29.219	10.657	139.770	5175.230		139.816	5175.184
8/14/09	18:11:33	12600.001	29.227	10.653	139.752	5175.248		139.799	5175.201
8/14/09	18:16:33	12900.001	29.232	10.649	139.740	5175.260		139.787	5175.213
8/14/09	18:21:33	13200.001	29.235	10.647	139.732	5175.268		139.779	5175.221
8/14/09	18:26:33	13500.001	29.239	10.648	139.723	5175.277		139.771	5175.229
8/14/09	18:31:33	13800.001	29.247	10.646	139.705	5175.295		139.753	5175.247
8/14/09	18:36:33	14100.001	29.255	10.642	139.687	5175.313		139.736	5175.264
8/14/09	18:41:33	14400.001	29.256	10.638	139.684	5175.316		139.733	5175.267
8/14/09	18:46:33	14700.001	29.259	10.638	139.678	5175.322		139.728	5175.272
8/14/09	18:51:33	15000.001	29.263	10.634	139.669	5175.331		139.719	5175.281
8/14/09	18:56:33	15300.001	29.267	10.636	139.658	5175.342		139.708	5175.292
8/14/09	19:01:33	15600.001	29.270	10.638	139.652	5175.348		139.703	5175.297
8/14/09	19:06:33	15900.001	29.276	10.635	139.639	5175.361		139.689	5175.311
8/14/09	19:11:33	16200.001	29.283	10.625	139.623	5175.377		139.674	5175.326
8/14/09	19:16:33	16500.001	29.285	10.623	139.617	5175.383		139.669	5175.331
8/14/09	19:21:33	16800.001	29.291	10.620	139.604	5175.396		139.656	5175.344
8/14/09	19:26:33	17100.001	29.293	10.619	139.600	5175.400		139.652	5175.348
8/14/09	19:31:33	17400.001	29.295	10.620	139.595	5175.405		139.648	5175.352
8/14/09	19:36:33	17700.001	29.297	10.620	139.589	5175.411		139.642	5175.358
8/14/09	19:41:33	18000.001	29.299	10.619	139.585	5175.415		139.638	5175.362
8/14/09	19:46:33	18300.001	29.301	10.618	139.581	5175.419		139.634	5175.366
8/14/09	19:51:33	18600.001	29.301	10.617	139.580	5175.420		139.634	5175.366
8/14/09	19:56:33	18900.001	29.303	10.614	139.575	5175.425		139.629	5175.371
8/14/09	20:01:33	19200.001	29.304	10.612	139.573	5175.427		139.628	5175.372
8/14/09	20:06:33	19500.001	29.306	10.613	139.568	5175.432		139.623	5175.377
8/14/09	20:11:33	19800.001	29.306	10.606	139.568	5175.432		139.623	5175.377
8/14/09	20:16:33	20100.001	29.309	10.598	139.561	5175.439		139.617	5175.383
8/14/09	20:21:33	20400.001	29.311	10.598	139.557	5175.443		139.613	5175.387
8/14/09	20:26:33	20700.001	29.312	10.601	139.554	5175.446		139.610	5175.390
8/14/09	20:31:33	21000.001	29.320	10.598	139.537	5175.463		139.593	5175.407
8/14/09	20:36:33	21300.001	29.333	10.596	139.506	5175.494		139.563	5175.437
8/14/09	20:41:33	21600.001	29.331	10.596	139.512	5175.488		139.569	5175.431
8/14/09	20:46:33	21900.001	29.328	10.596	139.518	5175.482		139.576	5175.424
8/14/09	20:51:33	22200.001	29.328	10.597	139.518	5175.482		139.576	5175.424
8/14/09	20:56:33	22500.001	29.326	10.599	139.523	5175.477		139.581	5175.419
8/14/09	21:01:33	22800.001	29.319	10.601	139.539	5175.461		139.598	5175.402
8/14/09	21:06:33	23100.001	29.326	10.596	139.523	5175.477		139.582	5175.418
8/14/09	21:11:33	23400.001	29.318	10.591	139.540	5175.460		139.600	5175.400
8/14/09	21:16:33	23700.001	29.319	10.590	139.538	5175.462		139.598	5175.402
8/14/09	21:21:33	24000.001	29.320	10.590	139.536	5175.464		139.596	5175.404
8/14/09	21:26:33	24300.001	29.327	10.589	139.520	5175.480		139.580	5175.420
8/14/09	21:31:33	24600.001	29.319	10.591	139.538	5175.462		139.599	5175.401
8/14/09	21:36:33	24900.001	29.327	10.594	139.520	5175.480		139.581	5175.419



**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792: SN#: 13792 SN#: 137922			TOC Elev	Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation		
8/14/09	21:41:33	25200.001	29.326	10.589	139.522	5175.478	139.583	5175.417
8/14/09	21:46:33	25500.001	29.329	10.591	139.516	5175.484	139.578	5175.422
8/14/09	21:51:33	25800.001	29.330	10.591	139.512	5175.488	139.575	5175.425
8/14/09	21:56:33	26100.001	29.331	10.589	139.511	5175.489	139.573	5175.427
8/14/09	22:01:33	26400.001	29.332	10.588	139.508	5175.492	139.571	5175.429
8/14/09	22:06:33	26700.001	29.364	10.587	139.435	5175.565	139.498	5175.502
8/14/09	22:11:33	27000.001	29.370	10.577	139.420	5175.580	139.484	5175.516
8/14/09	22:16:33	27300.001	29.358	10.577	139.448	5175.552	139.512	5175.488
8/14/09	22:21:33	27600.001	29.361	10.576	139.441	5175.559	139.505	5175.495
8/14/09	22:26:33	27900.001	29.355	10.578	139.456	5175.544	139.521	5175.479
8/14/09	22:31:33	28200.001	29.353	10.581	139.460	5175.540	139.525	5175.475
8/14/09	22:36:33	28500.001	29.351	10.580	139.464	5175.536	139.529	5175.471
8/14/09	22:41:33	28800.001	29.348	10.581	139.473	5175.527	139.538	5175.462
8/14/09	22:46:33	29100.001	29.346	10.586	139.476	5175.524	139.542	5175.458
8/14/09	22:51:33	29400.001	29.346	10.577	139.477	5175.523	139.543	5175.457
8/14/09	22:56:33	29700.001	29.345	10.573	139.479	5175.521	139.545	5175.455
8/14/09	23:01:33	30000.001	29.341	10.568	139.489	5175.511	139.556	5175.444
8/14/09	23:06:33	30300.001	29.346	10.567	139.476	5175.524	139.544	5175.456
8/14/09	23:11:33	30600.001	29.341	10.564	139.487	5175.513	139.555	5175.445
8/14/09	23:16:33	30900.001	29.345	10.564	139.478	5175.522	139.546	5175.454
8/14/09	23:21:33	31200.001	29.351	10.566	139.464	5175.536	139.533	5175.467
8/14/09	23:26:33	31500.001	29.352	10.565	139.463	5175.537	139.532	5175.468
8/14/09	23:31:33	31800.001	29.353	10.561	139.461	5175.539	139.530	5175.470
8/14/09	23:36:33	32100.001	29.353	10.562	139.460	5175.540	139.530	5175.470
8/14/09	23:41:33	32400.001	29.348	10.559	139.471	5175.529	139.541	5175.459
8/14/09	23:46:33	32700.001	29.347	10.561	139.475	5175.525	139.545	5175.455
8/14/09	23:51:33	33000.001	29.347	10.562	139.474	5175.526	139.544	5175.456
8/14/09	23:56:33	33300.001	29.349	10.561	139.470	5175.530	139.540	5175.460
8/15/09	0:01:33	33600.001	29.350	10.560	139.468	5175.532	139.539	5175.461
8/15/09	0:06:33	33900.001	29.357	10.561	139.452	5175.548	139.523	5175.477
8/15/09	0:11:33	34200.001	29.349	10.559	139.469	5175.531	139.541	5175.459
8/15/09	0:16:33	34500.001	29.358	10.562	139.450	5175.550	139.522	5175.478
8/15/09	0:21:33	34800.001	29.352	10.562	139.463	5175.537	139.536	5175.464
8/15/09	0:26:33	35100.001	29.353	10.555	139.461	5175.539	139.534	5175.466
8/15/09	0:31:33	35400.001	29.360	10.558	139.444	5175.556	139.518	5175.482
8/15/09	0:36:33	35700.001	29.649	10.560	138.776	5176.224	138.849	5176.151
8/15/09	0:41:33	36000.001	29.589	10.553	138.917	5176.083	138.990	5176.010
8/15/09	0:46:33	36300.001	29.541	10.563	139.025	5175.975	139.100	5175.900
8/15/09	0:51:33	36600.001	29.496	10.559	139.131	5175.869	139.206	5175.794
8/15/09	0:56:33	36900.001	29.466	10.557	139.199	5175.801	139.274	5175.726
8/15/09	1:01:33	37200.001	29.445	10.552	139.248	5175.752	139.324	5175.676
8/15/09	1:06:33	37500.001	29.428	10.551	139.288	5175.712	139.364	5175.636
8/15/09	1:11:33	37800.001	29.414	10.556	139.319	5175.681	139.395	5175.605
8/15/09	1:16:33	38100.001	29.405	10.553	139.340	5175.660	139.416	5175.584
8/15/09	1:21:33	38400.001	29.399	10.553	139.355	5175.645	139.432	5175.568
8/15/09	1:26:33	38700.001	29.393	10.547	139.367	5175.633	139.444	5175.556
8/15/09	1:31:33	39000.001	29.388	10.545	139.379	5175.621	139.457	5175.543
8/15/09	1:36:33	39300.001	29.385	10.550	139.386	5175.614	139.464	5175.536
8/15/09	1:41:33	39600.001	29.381	10.554	139.396	5175.604	139.474	5175.526
8/15/09	1:46:33	39900.001	29.380	10.550	139.398	5175.602	139.476	5175.524
8/15/09	1:51:33	40200.001	29.377	10.555	139.405	5175.595	139.483	5175.517
8/15/09	1:56:33	40500.001	29.377	10.551	139.404	5175.596	139.483	5175.517
8/15/09	2:01:33	40800.001	29.377	10.556	139.406	5175.594	139.485	5175.515
8/15/09	2:06:33	41100.001	29.373	10.556	139.413	5175.587	139.493	5175.507

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/15/09	2:11:33	41400.001	29.374	10.551	139.411	5175.589		139.491	5175.509
8/15/09	2:16:33	41700.001	29.375	10.551	139.410	5175.590		139.491	5175.509
8/15/09	2:21:33	42000.001	29.373	10.556	139.414	5175.586		139.495	5175.505
8/15/09	2:26:33	42300.001	29.380	10.556	139.398	5175.602		139.479	5175.521
8/15/09	2:31:33	42600.001	29.372	10.552	139.415	5175.585		139.497	5175.503
8/15/09	2:36:33	42900.001	29.372	10.549	139.417	5175.583		139.499	5175.501
8/15/09	2:41:33	43200.001	29.374	10.549	139.413	5175.587		139.495	5175.505
8/15/09	2:46:33	43500.001	29.372	10.549	139.417	5175.583		139.500	5175.500
8/15/09	2:51:33	43800.001	29.373	10.547	139.413	5175.587		139.496	5175.504
8/15/09	2:56:33	44100.001	29.372	10.547	139.415	5175.585		139.499	5175.501
8/15/09	3:01:33	44400.001	29.373	10.549	139.414	5175.586		139.497	5175.503
8/15/09	3:06:33	44700.001	29.374	10.549	139.412	5175.588		139.496	5175.504
8/15/09	3:11:33	45000.001	29.374	10.549	139.412	5175.588		139.497	5175.503
8/15/09	3:16:33	45300.001	29.373	10.546	139.414	5175.586		139.499	5175.501
8/15/09	3:21:33	45600.001	29.373	10.548	139.414	5175.586		139.499	5175.501
8/15/09	3:26:33	45900.001	29.373	10.545	139.415	5175.585		139.500	5175.500
8/15/09	3:31:33	46200.001	29.371	10.546	139.418	5175.582		139.503	5175.497
8/15/09	3:36:33	46500.001	29.373	10.538	139.413	5175.587		139.499	5175.501
8/15/09	3:41:33	46800.001	29.374	10.538	139.413	5175.587		139.499	5175.501
8/15/09	3:46:33	47100.001	29.372	10.546	139.417	5175.583		139.503	5175.497
8/15/09	3:51:33	47400.001	29.373	10.543	139.414	5175.586		139.501	5175.499
8/15/09	3:56:33	47700.001	29.373	10.544	139.415	5175.585		139.502	5175.498
8/15/09	4:01:33	48000.001	29.373	10.547	139.414	5175.586		139.502	5175.498
8/15/09	4:06:33	48300.001	29.373	10.541	139.413	5175.587		139.501	5175.499
8/15/09	4:11:33	48600.001	29.373	10.545	139.414	5175.586		139.502	5175.498
8/15/09	4:16:33	48900.001	29.372	10.540	139.416	5175.584		139.504	5175.496
8/15/09	4:21:33	49200.001	29.375	10.532	139.409	5175.591		139.498	5175.502
8/15/09	4:26:33	49500.001	29.373	10.534	139.413	5175.587		139.503	5175.497
8/15/09	4:31:33	49800.001	29.374	10.536	139.412	5175.588		139.502	5175.498
8/15/09	4:36:33	50100.001	29.375	10.536	139.410	5175.590		139.500	5175.500
8/15/09	4:41:33	50400.001	29.372	10.540	139.416	5175.584		139.506	5175.494
8/15/09	4:46:33	50700.001	29.374	10.539	139.412	5175.588		139.503	5175.497
8/15/09	4:51:33	51000.001	29.372	10.540	139.415	5175.585		139.507	5175.493
8/15/09	4:56:33	51300.001	29.371	10.541	139.418	5175.582		139.510	5175.490
8/15/09	5:01:33	51600.001	29.370	10.535	139.421	5175.579		139.513	5175.487
8/15/09	5:06:33	51900.001	29.370	10.538	139.422	5175.578		139.514	5175.486
8/15/09	5:11:33	52200.001	29.371	10.540	139.418	5175.582		139.511	5175.489
8/15/09	5:16:33	52500.001	29.370	10.540	139.421	5175.579		139.513	5175.487
8/15/09	5:21:33	52800.001	29.369	10.535	139.422	5175.578		139.515	5175.485
8/15/09	5:26:33	53100.001	29.371	10.537	139.418	5175.582		139.512	5175.488
8/15/09	5:31:33	53400.001	29.370	10.528	139.420	5175.580		139.514	5175.486
8/15/09	5:36:33	53700.001	29.370	10.531	139.422	5175.578		139.516	5175.484
8/15/09	5:41:33	54000.001	29.369	10.527	139.423	5175.577		139.517	5175.483
8/15/09	5:46:33	54300.001	29.370	10.530	139.422	5175.578		139.517	5175.483
8/15/09	5:51:33	54600.001	29.370	10.528	139.421	5175.579		139.517	5175.483
8/15/09	5:56:33	54900.001	29.370	10.535	139.421	5175.579		139.516	5175.484
8/15/09	6:01:33	55200.001	29.369	10.533	139.423	5175.577		139.519	5175.481
8/15/09	6:06:33	55500.001	29.370	10.532	139.421	5175.579		139.517	5175.483
8/15/09	6:11:33	55800.001	29.368	10.536	139.425	5175.575		139.521	5175.479
8/15/09	6:16:33	56100.001	29.368	10.534	139.425	5175.575		139.522	5175.478
8/15/09	6:21:33	56400.001	29.368	10.538	139.426	5175.574		139.524	5175.476
8/15/09	6:26:33	56700.001	29.367	10.534	139.427	5175.573		139.525	5175.475
8/15/09	6:31:33	57000.001	29.367	10.531	139.427	5175.573		139.525	5175.475
8/15/09	6:36:33	57300.001	29.367	10.530	139.427	5175.573		139.526	5175.474

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/15/09	6:41:33	57600.001	29.365	10.528	139.433	5175.567	139.532	5175.468
8/15/09	6:46:33	57900.001	29.367	10.533	139.427	5175.573	139.526	5175.474
8/15/09	6:51:33	58200.001	29.367	10.531	139.429	5175.571	139.528	5175.472
8/15/09	6:56:33	58500.001	29.367	10.531	139.428	5175.572	139.528	5175.472
8/15/09	7:01:33	58800.001	29.367	10.528	139.427	5175.573	139.527	5175.473
8/15/09	7:06:33	59100.001	29.365	10.527	139.432	5175.568	139.532	5175.468
8/15/09	7:11:33	59400.001	29.366	10.527	139.431	5175.569	139.532	5175.468
8/15/09	7:16:33	59700.001	29.366	10.526	139.430	5175.570	139.532	5175.468
8/15/09	7:21:33	60000.001	29.365	10.526	139.432	5175.568	139.534	5175.466
8/15/09	7:26:33	60300.001	29.364	10.526	139.435	5175.565	139.537	5175.463
8/15/09	7:31:33	60600.001	29.364	10.525	139.435	5175.565	139.537	5175.463
8/15/09	7:36:33	60900.001	29.364	10.527	139.435	5175.565	139.538	5175.462
8/15/09	7:41:33	61200.001	29.363	10.530	139.437	5175.563	139.540	5175.460
8/15/09	7:46:33	61500.001	29.364	10.533	139.435	5175.565	139.539	5175.461
8/15/09	7:51:33	61800.001	29.363	10.532	139.436	5175.564	139.540	5175.460
8/15/09	7:56:33	62100.001	29.364	10.526	139.436	5175.564	139.540	5175.460
8/15/09	8:01:33	62400.001	29.366	10.522	139.431	5175.569	139.535	5175.465
8/15/09	8:06:33	62700.001	29.366	10.524	139.431	5175.569	139.536	5175.464
8/15/09	8:11:33	63000.001	29.364	10.522	139.436	5175.564	139.541	5175.459
8/15/09	8:16:33	63300.001	29.364	10.528	139.435	5175.565	139.540	5175.460
8/15/09	8:21:33	63600.001	29.363	10.526	139.437	5175.563	139.542	5175.458
8/15/09	8:26:33	63900.001	29.363	10.531	139.436	5175.564	139.542	5175.458
8/15/09	8:31:33	64200.001	29.363	10.529	139.437	5175.563	139.544	5175.456
8/15/09	8:36:33	64500.001	29.363	10.526	139.436	5175.564	139.543	5175.457
8/15/09	8:41:33	64800.001	29.364	10.523	139.436	5175.564	139.543	5175.457
8/15/09	8:46:33	65100.001	29.364	10.528	139.436	5175.564	139.543	5175.457
8/15/09	8:51:33	65400.001	29.363	10.527	139.438	5175.562	139.545	5175.455
8/15/09	8:56:33	65700.001	29.364	10.532	139.435	5175.565	139.543	5175.457
8/15/09	9:01:33	66000.001	29.364	10.532	139.435	5175.565	139.543	5175.457
8/15/09	9:06:33	66300.001	29.364	10.528	139.434	5175.566	139.543	5175.457
8/15/09	9:11:33	66600.001	29.365	10.527	139.433	5175.567	139.542	5175.458
8/15/09	9:16:33	66900.001	29.366	10.522	139.429	5175.571	139.539	5175.461
8/15/09	9:21:33	67200.001	29.364	10.529	139.435	5175.565	139.544	5175.456
8/15/09	9:26:33	67500.001	29.364	10.532	139.435	5175.565	139.546	5175.454
8/15/09	9:31:33	67800.001	29.365	10.532	139.433	5175.567	139.544	5175.456
8/15/09	9:36:33	68100.001	29.364	10.538	139.436	5175.564	139.547	5175.453
8/15/09	9:41:33	68400.001	29.366	10.534	139.431	5175.569	139.542	5175.458
8/15/09	9:46:33	68700.001	29.366	10.525	139.429	5175.571	139.541	5175.459
8/15/09	9:51:33	69000.001	29.364	10.528	139.435	5175.565	139.547	5175.453
8/15/09	9:56:33	69300.001	29.365	10.526	139.433	5175.567	139.546	5175.454
8/15/09	10:01:33	69600.001	29.364	10.525	139.434	5175.566	139.546	5175.454
8/15/09	10:06:33	69900.001	29.364	10.528	139.436	5175.564	139.549	5175.451
8/15/09	10:11:33	70200.001	29.362	10.527	139.438	5175.562	139.552	5175.448
8/15/09	10:16:33	70500.001	29.365	10.524	139.432	5175.568	139.545	5175.455
8/15/09	10:21:33	70800.001	29.367	10.522	139.428	5175.572	139.542	5175.458
8/15/09	10:26:33	71100.001	29.366	10.520	139.430	5175.570	139.544	5175.456
8/15/09	10:31:33	71400.001	29.365	10.525	139.433	5175.567	139.548	5175.452
8/15/09	10:36:33	71700.001	29.367	10.529	139.429	5175.571	139.544	5175.456
8/15/09	10:41:33	72000.001	29.366	10.527	139.431	5175.569	139.546	5175.454
8/15/09	10:46:33	72300.001	29.367	10.532	139.428	5175.572	139.544	5175.456
8/15/09	10:51:33	72600.001	29.367	10.531	139.429	5175.571	139.545	5175.455
8/15/09	10:56:33	72900.001	29.367	10.532	139.427	5175.573	139.543	5175.457
8/15/09	11:01:33	73200.001	29.367	10.531	139.429	5175.571	139.545	5175.455
8/15/09	11:06:33	73500.001	29.368	10.527	139.425	5175.575	139.542	5175.458

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/15/09	11:11:33	73800.001	29.369	10.529	139.424	5175.576		139.541	5175.459
8/15/09	11:16:33	74100.001	29.371	10.524	139.419	5175.581		139.537	5175.463
8/15/09	11:21:33	74400.001	29.371	10.526	139.419	5175.581		139.537	5175.463
8/15/09	11:26:33	74700.001	29.370	10.530	139.421	5175.579		139.539	5175.461
8/15/09	11:31:33	75000.001	29.370	10.528	139.421	5175.579		139.540	5175.460
8/15/09	11:36:33	75300.001	29.371	10.530	139.419	5175.581		139.539	5175.461
8/15/09	11:41:33	75600.001	29.370	10.531	139.420	5175.580		139.539	5175.461
8/15/09	11:46:33	75900.001	29.372	10.529	139.417	5175.583		139.537	5175.463
8/15/09	11:51:33	76200.001	29.372	10.526	139.418	5175.582		139.538	5175.462
8/15/09	11:56:33	76500.001	29.371	10.523	139.418	5175.582		139.539	5175.461
8/15/09	12:01:33	76800.001	29.373	10.520	139.415	5175.585		139.535	5175.465
8/15/09	12:06:33	77100.001	29.372	10.519	139.416	5175.584		139.537	5175.463
8/15/09	12:11:33	77400.001	29.372	10.518	139.417	5175.583		139.539	5175.461
8/15/09	12:16:33	77700.001	29.373	10.519	139.413	5175.587		139.535	5175.465
8/15/09	12:21:33	78000.001	29.374	10.522	139.413	5175.587		139.535	5175.465
8/15/09	12:26:33	78300.001	29.373	10.521	139.413	5175.587		139.536	5175.464
8/15/09	12:31:33	78600.001	29.374	10.520	139.411	5175.589		139.534	5175.466
8/15/09	12:36:33	78900.001	29.376	10.524	139.408	5175.592		139.531	5175.469
8/15/09	12:41:33	79200.001	29.375	10.527	139.410	5175.590		139.533	5175.467
8/15/09	12:46:33	79500.001	29.376	10.531	139.407	5175.593		139.531	5175.469
8/15/09	12:51:33	79800.001	29.377	10.534	139.406	5175.594		139.530	5175.470
8/15/09	12:56:33	80100.001	29.377	10.534	139.404	5175.596		139.529	5175.471
8/15/09	13:01:33	80400.001	29.376	10.537	139.407	5175.593		139.532	5175.468
8/15/09	13:06:33	80700.001	29.378	10.532	139.403	5175.597		139.528	5175.472
8/15/09	13:11:33	81000.001	29.378	10.524	139.403	5175.597		139.528	5175.472
8/15/09	13:16:33	81300.001	29.379	10.527	139.401	5175.599		139.527	5175.473
8/15/09	13:21:33	81600.001	29.379	10.527	139.400	5175.600		139.526	5175.474
8/15/09	13:26:33	81900.001	29.379	10.525	139.400	5175.600		139.526	5175.474
8/15/09	13:31:33	82200.001	29.379	10.525	139.401	5175.599		139.528	5175.472
8/15/09	13:36:33	82500.001	29.379	10.523	139.400	5175.600		139.527	5175.473
8/15/09	13:41:33	82800.001	29.380	10.526	139.398	5175.602		139.526	5175.474
8/15/09	13:46:33	83100.001	29.380	10.526	139.398	5175.602		139.527	5175.473
8/15/09	13:51:33	83400.001	29.379	10.524	139.400	5175.600		139.528	5175.472
8/15/09	13:56:33	83700.001	29.378	10.525	139.403	5175.597		139.532	5175.468
8/15/09	14:01:33	84000.001	29.378	10.519	139.403	5175.597		139.532	5175.468
8/15/09	14:06:33	84300.001	29.379	10.531	139.401	5175.599		139.530	5175.470
8/15/09	14:11:33	84600.001	29.380	10.529	139.399	5175.601		139.529	5175.471
8/15/09	14:16:33	84900.001	29.380	10.526	139.397	5175.603		139.527	5175.473
8/15/09	14:21:33	85200.001	29.383	10.523	139.391	5175.609		139.522	5175.478
8/15/09	14:26:33	85500.001	29.383	10.523	139.391	5175.609		139.522	5175.478
8/15/09	14:31:33	85800.001	29.384	10.524	139.388	5175.612		139.519	5175.481
8/15/09	14:36:33	86100.001	29.386	10.524	139.385	5175.615		139.517	5175.483
8/15/09	14:41:33	86400.001	29.385	10.518	139.386	5175.614		139.518	5175.482
8/15/09	14:46:33	86700.001	29.386	10.521	139.385	5175.615		139.517	5175.483
8/15/09	14:51:33	87000.001	29.386	10.522	139.384	5175.616		139.517	5175.483
8/15/09	14:56:33	87300.001	29.385	10.525	139.386	5175.614		139.519	5175.481
8/15/09	15:01:33	87600.001	29.386	10.522	139.384	5175.616		139.517	5175.483
8/15/09	15:06:33	87900.001	29.386	10.524	139.384	5175.616		139.517	5175.483
8/15/09	15:11:33	88200.001	29.386	10.525	139.384	5175.616		139.518	5175.482
8/15/09	15:16:33	88500.001	29.387	10.519	139.383	5175.617		139.517	5175.483
8/15/09	15:21:33	88800.001	29.386	10.518	139.384	5175.616		139.519	5175.481
8/15/09	15:26:33	89100.001	29.387	10.521	139.381	5175.619		139.516	5175.484
8/15/09	15:31:33	89400.001	29.388	10.524	139.380	5175.620		139.515	5175.485
8/15/09	15:36:33	89700.001	29.388	10.522	139.380	5175.620		139.516	5175.484

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792; Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/15/09	15:41:33	90000.001	29.388	10.524	139.380	5175.620	139.516	5175.484
8/15/09	15:46:33	90300.001	29.389	10.525	139.378	5175.622	139.514	5175.486
8/15/09	15:51:33	90600.001	29.389	10.524	139.376	5175.624	139.513	5175.487
8/15/09	15:56:33	90900.001	29.389	10.522	139.378	5175.622	139.515	5175.485
8/15/09	16:01:33	91200.001	29.389	10.519	139.377	5175.623	139.515	5175.485
8/15/09	16:06:33	91500.001	29.389	10.521	139.377	5175.623	139.515	5175.485
8/15/09	16:11:33	91800.001	29.390	10.520	139.376	5175.624	139.514	5175.486
8/15/09	16:16:33	92100.001	29.388	10.522	139.379	5175.621	139.518	5175.482
8/15/09	16:21:33	92400.001	29.390	10.521	139.375	5175.625	139.514	5175.486
8/15/09	16:26:33	92700.001	29.389	10.521	139.377	5175.623	139.516	5175.484
8/15/09	16:31:33	93000.001	29.389	10.524	139.377	5175.623	139.517	5175.483
8/15/09	16:36:33	93300.001	29.390	10.522	139.375	5175.625	139.515	5175.485
8/15/09	16:41:33	93600.001	29.391	10.525	139.374	5175.626	139.514	5175.486
8/15/09	16:46:33	93900.001	29.389	10.523	139.377	5175.623	139.518	5175.482
8/15/09	16:51:33	94200.001	29.391	10.528	139.372	5175.628	139.513	5175.487
8/15/09	16:56:33	94500.001	29.385	10.526	139.386	5175.614	139.528	5175.472
8/15/09	17:01:33	94800.001	29.391	10.521	139.373	5175.627	139.515	5175.485
8/15/09	17:06:33	95100.001	29.391	10.521	139.373	5175.627	139.515	5175.485
8/15/09	17:11:33	95400.001	29.393	10.521	139.368	5175.632	139.510	5175.490
8/15/09	17:16:33	95700.001	29.392	10.522	139.370	5175.630	139.512	5175.488
8/15/09	17:21:33	96000.001	29.391	10.524	139.373	5175.627	139.516	5175.484
8/15/09	17:26:33	96300.001	29.393	10.519	139.368	5175.632	139.511	5175.489
8/15/09	17:31:33	96600.001	29.391	10.519	139.372	5175.628	139.515	5175.485
8/15/09	17:36:33	96900.001	29.392	10.516	139.371	5175.629	139.515	5175.485
8/15/09	17:41:33	97200.001	29.390	10.517	139.374	5175.626	139.519	5175.481
8/15/09	17:46:33	97500.001	29.391	10.526	139.372	5175.628	139.516	5175.484
8/15/09	17:51:33	97800.001	29.391	10.516	139.372	5175.628	139.517	5175.483
8/15/09	17:56:33	98100.001	29.392	10.521	139.371	5175.629	139.516	5175.484
8/15/09	18:01:33	98400.001	29.391	10.533	139.373	5175.627	139.519	5175.481
8/15/09	18:06:33	98700.001	29.391	10.525	139.372	5175.628	139.518	5175.482
8/15/09	18:11:33	99000.001	29.391	10.516	139.373	5175.627	139.519	5175.481
8/15/09	18:16:33	99300.001	29.393	10.524	139.368	5175.632	139.514	5175.486
8/15/09	18:21:33	99600.001	29.391	10.529	139.372	5175.628	139.519	5175.481
8/15/09	18:26:33	99900.001	29.392	10.529	139.370	5175.630	139.518	5175.482
8/15/09	18:31:33	100200.001	29.391	10.523	139.373	5175.627	139.520	5175.480
8/15/09	18:36:33	100500.001	29.392	10.524	139.371	5175.629	139.519	5175.481
8/15/09	18:41:33	100800.001	29.393	10.517	139.367	5175.633	139.515	5175.485
8/15/09	18:46:33	101100.001	29.393	10.527	139.367	5175.633	139.516	5175.484
8/15/09	18:51:33	101400.001	29.392	10.517	139.369	5175.631	139.519	5175.481
8/15/09	18:56:33	101700.001	29.392	10.515	139.369	5175.631	139.519	5175.481
8/15/09	19:01:33	102000.001	29.393	10.521	139.368	5175.632	139.517	5175.483
8/15/09	19:06:33	102300.001	29.393	10.524	139.368	5175.632	139.518	5175.482
8/15/09	19:11:33	102600.001	29.392	10.527	139.370	5175.630	139.521	5175.479
8/15/09	19:16:33	102900.001	29.393	10.525	139.369	5175.631	139.520	5175.480
8/15/09	19:21:33	103200.001	29.393	10.525	139.368	5175.632	139.520	5175.480
8/15/09	19:26:33	103500.001	29.393	10.518	139.368	5175.632	139.520	5175.480
8/15/09	19:31:33	103800.001	29.392	10.519	139.369	5175.631	139.521	5175.479
8/15/09	19:36:33	104100.001	29.393	10.519	139.368	5175.632	139.520	5175.480
8/15/09	19:41:33	104400.001	29.393	10.520	139.368	5175.632	139.520	5175.480
8/15/09	19:46:33	104700.001	29.393	10.523	139.369	5175.631	139.522	5175.478
8/15/09	19:51:33	105000.001	29.391	10.519	139.372	5175.628	139.525	5175.475
8/15/09	19:56:33	105300.001	29.392	10.522	139.371	5175.629	139.525	5175.475
8/15/09	20:01:33	105600.001	29.390	10.518	139.375	5175.625	139.529	5175.471
8/15/09	20:06:33	105900.001	29.391	10.514	139.372	5175.628	139.526	5175.474

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792 Temp - C	SN#: 137922 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/15/09	20:11:33	106200.001	29.391	10.514	139.374	5175.626		139.528	5175.472
8/15/09	20:16:33	106500.001	29.390	10.514	139.374	5175.626		139.530	5175.470
8/15/09	20:21:33	106800.001	29.389	10.513	139.377	5175.623		139.532	5175.468
8/15/09	20:26:33	107100.001	29.389	10.515	139.376	5175.624		139.532	5175.468
8/15/09	20:31:33	107400.001	29.389	10.515	139.377	5175.623		139.533	5175.467
8/15/09	20:36:33	107700.001	29.389	10.522	139.378	5175.622		139.534	5175.466
8/15/09	20:41:33	108000.001	29.387	10.520	139.383	5175.617		139.539	5175.461
8/15/09	20:46:33	108300.001	29.388	10.514	139.380	5175.620		139.537	5175.463
8/15/09	20:51:33	108600.001	29.388	10.515	139.380	5175.620		139.537	5175.463
8/15/09	20:56:33	108900.001	29.387	10.514	139.382	5175.618		139.540	5175.460
8/15/09	21:01:33	109200.001	29.386	10.517	139.385	5175.615		139.543	5175.457
8/15/09	21:06:33	109500.001	29.386	10.515	139.383	5175.617		139.542	5175.458
8/15/09	21:11:33	109800.001	29.386	10.516	139.385	5175.615		139.544	5175.456
8/15/09	21:16:33	110100.001	29.385	10.515	139.387	5175.613		139.546	5175.454
8/15/09	21:21:33	110400.001	29.386	10.512	139.383	5175.617		139.543	5175.457
8/15/09	21:26:33	110700.001	29.385	10.517	139.386	5175.614		139.546	5175.454
8/15/09	21:31:33	111000.001	29.386	10.520	139.385	5175.615		139.545	5175.455
8/15/09	21:36:33	111300.001	29.385	10.518	139.387	5175.613		139.548	5175.452
8/15/09	21:41:33	111600.001	29.383	10.511	139.391	5175.609		139.552	5175.448
8/15/09	21:46:33	111900.001	29.384	10.517	139.388	5175.612		139.549	5175.451
8/15/09	21:51:33	112200.001	29.383	10.523	139.392	5175.608		139.554	5175.446
8/15/09	21:56:33	112500.001	29.382	10.520	139.392	5175.608		139.554	5175.446
8/15/09	22:01:33	112800.001	29.382	10.523	139.394	5175.606		139.556	5175.444
8/15/09	22:06:33	113100.001	29.380	10.518	139.399	5175.601		139.561	5175.439
8/15/09	22:11:33	113400.001	29.385	10.510	139.387	5175.613		139.550	5175.450
8/15/09	22:16:33	113700.001	29.385	10.519	139.387	5175.613		139.551	5175.449
8/15/09	22:21:33	114000.001	29.385	10.522	139.385	5175.615		139.549	5175.451
8/15/09	22:26:33	114300.001	29.386	10.521	139.384	5175.616		139.548	5175.452
8/15/09	22:31:33	114600.001	29.386	10.518	139.384	5175.616		139.548	5175.452
8/15/09	22:36:33	114900.001	29.388	10.515	139.378	5175.622		139.543	5175.457
8/15/09	22:41:33	115200.001	29.388	10.509	139.380	5175.620		139.545	5175.455
8/15/09	22:46:33	115500.001	29.388	10.519	139.380	5175.620		139.545	5175.455
8/15/09	22:51:33	115800.001	29.388	10.522	139.380	5175.620		139.546	5175.454
8/15/09	22:56:33	116100.001	29.386	10.521	139.383	5175.617		139.549	5175.451
8/15/09	23:01:33	116400.001	29.386	10.521	139.383	5175.617		139.550	5175.450
8/15/09	23:06:33	116700.001	29.385	10.519	139.386	5175.614		139.553	5175.447
8/15/09	23:11:33	117000.001	29.386	10.517	139.385	5175.615		139.552	5175.448
8/15/09	23:16:33	117300.001	29.384	10.518	139.388	5175.612		139.555	5175.445
8/15/09	23:21:33	117600.001	29.385	10.521	139.387	5175.613		139.555	5175.445
8/15/09	23:26:33	117900.001	29.383	10.525	139.390	5175.610		139.558	5175.442
8/15/09	23:31:33	118200.001	29.383	10.527	139.390	5175.610		139.559	5175.441
8/15/09	23:36:33	118500.001	29.383	10.524	139.392	5175.608		139.561	5175.439
8/15/09	23:41:33	118800.001	29.383	10.525	139.392	5175.608		139.561	5175.439
8/15/09	23:46:33	119100.001	29.382	10.529	139.393	5175.607		139.562	5175.438
8/15/09	23:51:33	119400.001	29.382	10.535	139.394	5175.606		139.563	5175.437
8/15/09	23:56:33	119700.001	29.381	10.534	139.395	5175.605		139.565	5175.435
8/16/09	0:01:33	120000.001	29.383	10.522	139.391	5175.609		139.562	5175.438
8/16/09	0:06:33	120300.001	29.383	10.518	139.392	5175.608		139.563	5175.437
8/16/09	0:11:33	120600.001	29.382	10.521	139.392	5175.608		139.563	5175.437
8/16/09	0:16:33	120900.001	29.381	10.519	139.395	5175.605		139.567	5175.433
8/16/09	0:21:33	121200.001	29.383	10.514	139.392	5175.608		139.564	5175.436
8/16/09	0:26:33	121500.001	29.382	10.514	139.394	5175.606		139.567	5175.433
8/16/09	0:31:33	121800.001	29.383	10.511	139.390	5175.610		139.563	5175.437
8/16/09	0:36:33	122100.001	29.383	10.514	139.392	5175.608		139.565	5175.435

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/16/09	0:41:33	122400.001	29.381	10.518	139.395	5175.605	139.569	5175.431
8/16/09	0:46:33	122700.001	29.383	10.517	139.392	5175.608	139.565	5175.435
8/16/09	0:51:33	123000.001	29.382	10.514	139.393	5175.607	139.567	5175.433
8/16/09	0:56:33	123300.001	29.383	10.508	139.390	5175.610	139.565	5175.435
8/16/09	1:01:33	123600.001	29.382	10.507	139.392	5175.608	139.567	5175.433
8/16/09	1:06:33	123900.001	29.383	10.508	139.390	5175.610	139.565	5175.435
8/16/09	1:11:33	124200.001	29.383	10.503	139.392	5175.608	139.567	5175.433
8/16/09	1:16:33	124500.001	29.383	10.504	139.391	5175.609	139.567	5175.433
8/16/09	1:21:33	124800.001	29.384	10.507	139.389	5175.611	139.565	5175.435
8/16/09	1:26:33	125100.001	29.382	10.517	139.392	5175.608	139.569	5175.431
8/16/09	1:31:33	125400.001	29.382	10.518	139.392	5175.608	139.569	5175.431
8/16/09	1:36:33	125700.001	29.384	10.513	139.390	5175.610	139.567	5175.433
8/16/09	1:41:33	126000.001	29.383	10.510	139.391	5175.609	139.569	5175.431
8/16/09	1:46:33	126300.001	29.383	10.514	139.391	5175.609	139.569	5175.431
8/16/09	1:51:33	126600.001	29.383	10.517	139.390	5175.610	139.568	5175.432
8/16/09	1:56:33	126900.001	29.383	10.514	139.392	5175.608	139.570	5175.430
8/16/09	2:01:33	127200.001	29.383	10.514	139.391	5175.609	139.570	5175.430
8/16/09	2:06:33	127500.001	29.383	10.514	139.392	5175.608	139.571	5175.429
8/16/09	2:11:33	127800.001	29.382	10.517	139.393	5175.607	139.572	5175.428
8/16/09	2:16:33	128100.001	29.382	10.514	139.393	5175.607	139.573	5175.427
8/16/09	2:21:33	128400.001	29.383	10.513	139.390	5175.610	139.571	5175.429
8/16/09	2:26:33	128700.001	29.382	10.517	139.393	5175.607	139.574	5175.426
8/16/09	2:31:33	129000.001	29.382	10.512	139.392	5175.608	139.573	5175.427
8/16/09	2:36:33	129300.001	29.384	10.507	139.389	5175.611	139.570	5175.430
8/16/09	2:41:33	129600.001	29.382	10.514	139.393	5175.607	139.574	5175.426
8/16/09	2:46:33	129900.001	29.383	10.512	139.391	5175.609	139.573	5175.427
8/16/09	2:51:33	130200.001	29.383	10.518	139.391	5175.609	139.573	5175.427
8/16/09	2:56:33	130500.001	29.384	10.513	139.389	5175.611	139.572	5175.428
8/16/09	3:01:33	130800.001	29.384	10.512	139.389	5175.611	139.572	5175.428
8/16/09	3:06:33	131100.001	29.384	10.516	139.389	5175.611	139.572	5175.428
8/16/09	3:11:33	131400.001	29.383	10.519	139.392	5175.608	139.575	5175.425
8/16/09	3:16:33	131700.001	29.384	10.511	139.389	5175.611	139.573	5175.427
8/16/09	3:21:33	132000.001	29.384	10.511	139.389	5175.611	139.573	5175.427
8/16/09	3:26:33	132300.001	29.382	10.515	139.394	5175.606	139.579	5175.421
8/16/09	3:31:33	132600.001	29.383	10.511	139.391	5175.609	139.576	5175.424
8/16/09	3:36:33	132900.001	29.383	10.509	139.391	5175.609	139.577	5175.423
8/16/09	3:41:33	133200.001	29.376	10.502	139.406	5175.594	139.592	5175.408
8/16/09	3:46:33	133500.001	29.382	10.510	139.394	5175.606	139.580	5175.420
8/16/09	3:51:33	133800.001	29.383	10.512	139.391	5175.609	139.577	5175.423
8/16/09	3:56:33	134100.001	29.382	10.511	139.394	5175.606	139.581	5175.419
8/16/09	4:01:33	134400.001	29.382	10.512	139.394	5175.606	139.581	5175.419
8/16/09	4:06:33	134700.001	29.382	10.512	139.393	5175.607	139.581	5175.419
8/16/09	4:11:33	135000.001	29.383	10.511	139.391	5175.609	139.579	5175.421
8/16/09	4:16:33	135300.001	29.382	10.511	139.393	5175.607	139.581	5175.419
8/16/09	4:21:33	135600.001	29.382	10.511	139.394	5175.606	139.582	5175.418
8/16/09	4:26:33	135900.001	29.374	10.507	139.411	5175.589	139.600	5175.400
8/16/09	4:31:33	136200.001	29.381	10.507	139.396	5175.604	139.585	5175.415
8/16/09	4:36:33	136500.001	29.382	10.508	139.394	5175.606	139.584	5175.416
8/16/09	4:41:33	136800.001	29.381	10.512	139.395	5175.605	139.585	5175.415
8/16/09	4:46:33	137100.001	29.379	10.517	139.400	5175.600	139.590	5175.410
8/16/09	4:51:33	137400.001	29.381	10.516	139.396	5175.604	139.586	5175.414
8/16/09	4:56:33	137700.001	29.379	10.516	139.399	5175.601	139.590	5175.410
8/16/09	5:01:33	138000.001	29.380	10.511	139.399	5175.601	139.590	5175.410
8/16/09	5:06:33	138300.001	29.379	10.515	139.400	5175.600	139.591	5175.409

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792: PSI	SN#: 13792: Temp - C	SN#: 137922: DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/16/09	5:11:33	138600.001	29.380	10.512	139.397	5175.603	139.589	5175.411
8/16/09	5:16:33	138900.001	29.380	10.512	139.398	5175.602	139.591	5175.409
8/16/09	5:21:33	139200.001	29.379	10.519	139.399	5175.601	139.592	5175.408
8/16/09	5:26:33	139500.001	29.379	10.516	139.401	5175.599	139.594	5175.406
8/16/09	5:31:33	139800.001	29.379	10.520	139.400	5175.600	139.594	5175.406
8/16/09	5:36:33	140100.001	29.378	10.517	139.403	5175.597	139.597	5175.403
8/16/09	5:41:33	140400.001	29.378	10.513	139.403	5175.597	139.597	5175.403
8/16/09	5:46:33	140700.001	29.376	10.515	139.406	5175.594	139.601	5175.399
8/16/09	5:51:33	141000.001	29.378	10.510	139.403	5175.597	139.597	5175.403
8/16/09	5:56:33	141300.001	29.378	10.510	139.402	5175.598	139.597	5175.403
8/16/09	6:01:33	141600.001	29.371	10.503	139.418	5175.582	139.613	5175.387
8/16/09	6:06:33	141900.001	29.377	10.511	139.405	5175.595	139.600	5175.400
8/16/09	6:11:33	142200.001	29.378	10.509	139.403	5175.597	139.600	5175.400
8/16/09	6:16:33	142500.001	29.377	10.507	139.405	5175.595	139.602	5175.398
8/16/09	6:21:33	142800.001	29.376	10.509	139.407	5175.593	139.604	5175.396
8/16/09	6:26:33	143100.001	29.376	10.511	139.408	5175.592	139.605	5175.395
8/16/09	6:31:33	143400.001	29.376	10.505	139.407	5175.593	139.605	5175.395
8/16/09	6:36:33	143700.001	29.376	10.511	139.408	5175.592	139.606	5175.394
8/16/09	6:41:33	144000.001	29.377	10.517	139.405	5175.595	139.603	5175.397
8/16/09	6:46:33	144300.001	29.375	10.519	139.411	5175.589	139.609	5175.391
8/16/09	6:51:33	144600.001	29.375	10.517	139.410	5175.590	139.609	5175.391
8/16/09	6:56:33	144900.001	29.375	10.511	139.409	5175.591	139.609	5175.391
8/16/09	7:01:33	145200.001	29.376	10.509	139.408	5175.592	139.607	5175.393
8/16/09	7:06:33	145500.001	29.375	10.513	139.410	5175.590	139.610	5175.390
8/16/09	7:11:33	145800.001	29.374	10.510	139.412	5175.588	139.613	5175.387
8/16/09	7:16:33	146100.001	29.375	10.514	139.410	5175.590	139.610	5175.390
8/16/09	7:21:33	146400.001	29.374	10.512	139.411	5175.589	139.612	5175.388
8/16/09	7:26:33	146700.001	29.374	10.508	139.412	5175.588	139.613	5175.387
8/16/09	7:31:33	147000.001	29.374	10.514	139.411	5175.589	139.613	5175.387
8/16/09	7:36:33	147300.001	29.372	10.513	139.415	5175.585	139.617	5175.383
8/16/09	7:41:33	147600.001	29.373	10.514	139.414	5175.586	139.616	5175.384
8/16/09	7:46:33	147900.001	29.367	10.512	139.429	5175.571	139.632	5175.368
8/16/09	7:51:33	148200.001	29.373	10.514	139.413	5175.587	139.616	5175.384
8/16/09	7:56:33	148500.001	29.372	10.508	139.417	5175.583	139.620	5175.380
8/16/09	8:01:33	148800.001	29.372	10.510	139.416	5175.584	139.620	5175.380
8/16/09	8:06:33	149100.001	29.373	10.513	139.415	5175.585	139.619	5175.381
8/16/09	8:11:33	149400.001	29.372	10.511	139.417	5175.583	139.621	5175.379
8/16/09	8:16:33	149700.001	29.372	10.508	139.416	5175.584	139.621	5175.379
8/16/09	8:21:33	150000.001	29.372	10.507	139.417	5175.583	139.622	5175.378
8/16/09	8:26:33	150300.001	29.373	10.505	139.415	5175.585	139.620	5175.380
8/16/09	8:31:33	150600.001	29.366	10.507	139.431	5175.569	139.637	5175.363
8/16/09	8:36:33	150900.001	29.363	10.510	139.437	5175.563	139.643	5175.357
8/16/09	8:41:33	151200.001	29.365	10.508	139.432	5175.568	139.639	5175.361
8/16/09	8:46:33	151500.001	29.371	10.508	139.418	5175.582	139.625	5175.375
8/16/09	8:51:33	151800.001	29.370	10.508	139.421	5175.579	139.628	5175.372
8/16/09	8:56:33	152100.001	29.365	10.506	139.433	5175.567	139.640	5175.360
8/16/09	9:01:33	152400.001	29.366	10.508	139.430	5175.570	139.638	5175.362
8/16/09	9:06:33	152700.001	29.371	10.509	139.420	5175.580	139.628	5175.372
8/16/09	9:11:33	153000.001	29.363	10.508	139.437	5175.563	139.645	5175.355
8/16/09	9:16:33	153300.001	29.372	10.511	139.417	5175.583	139.625	5175.375
8/16/09	9:21:33	153600.001	29.365	10.511	139.434	5175.566	139.643	5175.357
8/16/09	9:26:33	153900.001	29.363	10.508	139.438	5175.562	139.648	5175.352
8/16/09	9:31:33	154200.001	29.364	10.505	139.434	5175.566	139.644	5175.356
8/16/09	9:36:33	154500.001	29.370	10.507	139.422	5175.578	139.632	5175.368



**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792; Temp - C	SN#: 137922; DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/16/09	9:41:33	154800.001	29.371	10.509	139.419	5175.581	139.630	5175.370
8/16/09	9:46:33	155100.001	29.363	10.509	139.438	5175.562	139.649	5175.351
8/16/09	9:51:33	155400.001	29.370	10.509	139.421	5175.579	139.632	5175.368
8/16/09	9:56:33	155700.001	29.363	10.516	139.437	5175.563	139.648	5175.352
8/16/09	10:01:33	156000.001	29.370	10.509	139.421	5175.579	139.633	5175.367
8/16/09	10:06:33	156300.001	29.370	10.509	139.420	5175.580	139.632	5175.368
8/16/09	10:11:33	156600.001	29.371	10.507	139.420	5175.580	139.632	5175.368
8/16/09	10:16:33	156900.001	29.371	10.503	139.418	5175.582	139.631	5175.369
8/16/09	10:21:33	157200.001	29.365	10.502	139.433	5175.567	139.646	5175.354
8/16/09	10:26:33	157500.001	29.365	10.506	139.433	5175.567	139.647	5175.353
8/16/09	10:31:33	157800.001	29.370	10.509	139.422	5175.578	139.636	5175.364
8/16/09	10:36:33	158100.001	29.371	10.504	139.419	5175.581	139.633	5175.367
8/16/09	10:41:33	158400.001	29.369	10.507	139.423	5175.577	139.638	5175.362
8/16/09	10:46:33	158700.001	29.365	10.502	139.432	5175.568	139.647	5175.353
8/16/09	10:51:33	159000.001	29.366	10.502	139.430	5175.570	139.645	5175.355
8/16/09	10:56:33	159300.001	29.371	10.499	139.419	5175.581	139.635	5175.365
8/16/09	11:01:33	159600.001	29.365	10.502	139.434	5175.566	139.650	5175.350
8/16/09	11:06:33	159900.001	29.366	10.503	139.430	5175.570	139.646	5175.354
8/16/09	11:11:33	160200.001	29.372	10.507	139.418	5175.582	139.634	5175.366
8/16/09	11:16:33	160500.001	29.373	10.508	139.415	5175.585	139.632	5175.368
8/16/09	11:21:33	160800.001	29.372	10.507	139.417	5175.583	139.634	5175.366
8/16/09	11:26:33	161100.001	29.365	10.509	139.432	5175.568	139.650	5175.350
8/16/09	11:31:33	161400.001	29.371	10.514	139.418	5175.582	139.637	5175.363
8/16/09	11:36:33	161700.001	29.372	10.513	139.416	5175.584	139.634	5175.366
8/16/09	11:41:33	162000.001	29.366	10.512	139.429	5175.571	139.648	5175.352
8/16/09	11:46:33	162300.001	29.368	10.511	139.426	5175.574	139.645	5175.355
8/16/09	11:51:33	162600.001	29.366	10.508	139.430	5175.570	139.650	5175.350
8/16/09	11:56:33	162900.001	29.369	10.508	139.424	5175.576	139.644	5175.356
8/16/09	12:01:33	163200.001	29.374	10.505	139.411	5175.589	139.631	5175.369
8/16/09	12:06:33	163500.001	29.375	10.506	139.409	5175.591	139.630	5175.370
8/16/09	12:11:33	163800.001	29.375	10.507	139.410	5175.590	139.631	5175.369
8/16/09	12:16:33	164100.001	29.377	10.506	139.406	5175.594	139.627	5175.373
8/16/09	12:21:33	164400.001	29.376	10.505	139.408	5175.592	139.630	5175.370
8/16/09	12:26:33	164700.001	29.371	10.504	139.420	5175.580	139.642	5175.358
8/16/09	12:31:33	165000.001	29.371	10.505	139.420	5175.580	139.642	5175.358
8/16/09	12:36:33	165300.001	29.370	10.507	139.422	5175.578	139.644	5175.356
8/16/09	12:41:33	165600.001	29.376	10.508	139.407	5175.593	139.630	5175.370
8/16/09	12:46:33	165900.001	29.376	10.508	139.408	5175.592	139.631	5175.369
8/16/09	12:51:33	166200.001	29.371	10.510	139.419	5175.581	139.642	5175.358
8/16/09	12:56:33	166500.001	29.371	10.503	139.418	5175.582	139.642	5175.358
8/16/09	13:01:33	166800.001	29.370	10.508	139.421	5175.579	139.645	5175.355
8/16/09	13:06:33	167100.001	29.379	10.512	139.400	5175.600	139.625	5175.375
8/16/09	13:11:33	167400.001	29.378	10.510	139.401	5175.599	139.627	5175.373
8/16/09	13:16:33	167700.001	29.371	10.507	139.418	5175.582	139.643	5175.357
8/16/09	13:21:33	168000.001	29.373	10.506	139.415	5175.585	139.640	5175.360
8/16/09	13:26:33	168300.001	29.380	10.510	139.399	5175.601	139.625	5175.375
8/16/09	13:31:33	168600.001	29.374	10.512	139.411	5175.589	139.638	5175.362
8/16/09	13:36:33	168900.001	29.380	10.512	139.398	5175.602	139.625	5175.375
8/16/09	13:41:33	169200.001	29.381	10.512	139.396	5175.604	139.623	5175.377
8/16/09	13:46:33	169500.001	29.381	10.515	139.396	5175.604	139.623	5175.377
8/16/09	13:51:33	169800.001	29.382	10.511	139.392	5175.608	139.620	5175.380
8/16/09	13:56:33	170100.001	29.381	10.508	139.395	5175.605	139.623	5175.377
8/16/09	14:01:33	170400.001	29.377	10.511	139.405	5175.595	139.634	5175.366
8/16/09	14:06:33	170700.001	29.383	10.512	139.392	5175.608	139.620	5175.380

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; SN#: 13792 SN#: 137922			TOC Elev		Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation			
8/16/09	14:11:33	171000.001	29.382	10.516	139.392	5175.608	139.622	5175.378	
8/16/09	14:16:33	171300.001	29.383	10.520	139.391	5175.609	139.620	5175.380	
8/16/09	14:21:33	171600.001	29.383	10.525	139.391	5175.609	139.621	5175.379	
8/16/09	14:26:33	171900.001	29.383	10.527	139.390	5175.610	139.620	5175.380	
8/16/09	14:31:33	172200.001	29.386	10.522	139.385	5175.615	139.616	5175.384	
8/16/09	14:36:33	172500.001	29.384	10.520	139.390	5175.610	139.621	5175.379	
8/16/09	14:41:33	172800.001	29.380	10.523	139.398	5175.602	139.629	5175.371	
8/16/09	14:46:33	173100.001	29.386	10.524	139.384	5175.616	139.616	5175.384	
8/16/09	14:51:33	173400.001	29.387	10.517	139.381	5175.619	139.613	5175.387	
8/16/09	14:56:33	173700.001	29.388	10.516	139.380	5175.620	139.612	5175.388	
8/16/09	15:01:33	174000.001	29.387	10.521	139.382	5175.618	139.614	5175.386	
8/16/09	15:06:33	174300.001	29.385	10.517	139.386	5175.614	139.619	5175.381	
8/16/09	15:11:33	174600.001	29.383	10.514	139.392	5175.608	139.625	5175.375	
8/16/09	15:16:33	174900.001	29.383	10.513	139.391	5175.609	139.624	5175.376	
8/16/09	15:21:33	175200.001	29.391	10.516	139.373	5175.627	139.607	5175.393	
8/16/09	15:26:33	175500.001	29.388	10.518	139.379	5175.621	139.613	5175.387	
8/16/09	15:31:33	175800.001	29.389	10.518	139.376	5175.624	139.611	5175.389	
8/16/09	15:36:33	176100.001	29.389	10.513	139.377	5175.623	139.612	5175.388	
8/16/09	15:41:33	176400.001	29.389	10.517	139.377	5175.623	139.612	5175.388	
8/16/09	15:46:33	176700.001	29.385	10.510	139.386	5175.614	139.621	5175.379	
8/16/09	15:51:33	177000.001	29.392	10.520	139.369	5175.631	139.605	5175.395	
8/16/09	15:56:33	177300.001	29.391	10.524	139.372	5175.628	139.608	5175.392	
8/16/09	16:01:33	177600.001	29.392	10.525	139.371	5175.629	139.608	5175.392	
8/16/09	16:06:33	177900.001	29.392	10.525	139.370	5175.630	139.607	5175.393	
8/16/09	16:11:33	178200.001	29.393	10.517	139.369	5175.631	139.606	5175.394	
8/16/09	16:16:33	178500.001	29.393	10.521	139.367	5175.633	139.605	5175.395	
8/16/09	16:21:33	178800.001	29.387	10.523	139.382	5175.618	139.620	5175.380	
8/16/09	16:26:33	179100.001	29.396	10.523	139.362	5175.638	139.600	5175.400	
8/16/09	16:31:33	179400.001	29.394	10.515	139.366	5175.634	139.604	5175.396	
8/16/09	16:36:33	179700.001	29.394	10.516	139.365	5175.635	139.604	5175.396	
8/16/09	16:41:33	180000.001	29.394	10.518	139.365	5175.635	139.605	5175.395	
8/16/09	16:46:33	180300.001	29.396	10.514	139.361	5175.639	139.601	5175.399	
8/16/09	16:51:33	180600.001	29.396	10.513	139.360	5175.640	139.600	5175.400	
8/16/09	16:56:33	180900.001	29.389	10.524	139.378	5175.622	139.619	5175.381	
8/16/09	17:01:33	181200.001	29.388	10.522	139.379	5175.621	139.620	5175.380	
8/16/09	17:06:33	181500.001	29.389	10.521	139.377	5175.623	139.618	5175.382	
8/16/09	17:11:33	181800.001	29.395	10.515	139.363	5175.637	139.604	5175.396	
8/16/09	17:16:33	182100.001	29.394	10.512	139.365	5175.635	139.607	5175.393	
8/16/09	17:21:33	182400.001	29.388	10.509	139.379	5175.621	139.622	5175.378	
8/16/09	17:26:33	182700.001	29.395	10.512	139.364	5175.636	139.606	5175.394	
8/16/09	17:31:33	183000.001	29.388	10.515	139.379	5175.621	139.622	5175.378	
8/16/09	17:36:33	183300.001	29.395	10.514	139.362	5175.638	139.606	5175.394	
8/16/09	17:41:33	183600.001	29.389	10.516	139.378	5175.622	139.622	5175.378	
8/16/09	17:46:33	183900.001	29.395	10.521	139.363	5175.637	139.607	5175.393	
8/16/09	17:51:33	184200.001	29.394	10.519	139.365	5175.635	139.609	5175.391	
8/16/09	17:56:33	184500.001	29.389	10.518	139.378	5175.622	139.622	5175.378	
8/16/09	18:01:33	184800.001	29.395	10.522	139.364	5175.636	139.609	5175.391	
8/16/09	18:06:33	185100.001	29.387	10.516	139.382	5175.618	139.627	5175.373	
8/16/09	18:11:33	185400.001	29.387	10.511	139.381	5175.619	139.627	5175.373	
8/16/09	18:16:33	185700.001	29.393	10.509	139.367	5175.633	139.613	5175.387	
8/16/09	18:21:33	186000.001	29.395	10.506	139.363	5175.637	139.610	5175.390	
8/16/09	18:26:33	186300.001	29.388	10.501	139.379	5175.621	139.626	5175.374	
8/16/09	18:31:33	186600.001	29.395	10.502	139.364	5175.636	139.611	5175.389	
8/16/09	18:36:33	186900.001	29.387	10.505	139.381	5175.619	139.628	5175.372	

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; SN#: 13792 SN#: 137922			TOC Elev	Corrected DTW	Corrected Elev
			PSI	Temp - C	DTW (ft btoc)	5315.000 GW Elevation		
8/16/09	18:41:33	187200.001	29.388	10.509	139.380	5175.620	139.628	5175.372
8/16/09	18:46:33	187500.001	29.387	10.513	139.381	5175.619	139.630	5175.370
8/16/09	18:51:33	187800.001	29.387	10.510	139.382	5175.618	139.630	5175.370
8/16/09	18:56:33	188100.001	29.387	10.509	139.382	5175.618	139.631	5175.369
8/16/09	19:01:33	188400.001	29.394	10.505	139.366	5175.634	139.615	5175.385
8/16/09	19:06:33	188700.001	29.394	10.511	139.366	5175.634	139.616	5175.384
8/16/09	19:11:33	189000.001	29.387	10.508	139.382	5175.618	139.632	5175.368
8/16/09	19:16:33	189300.001	29.388	10.501	139.380	5175.620	139.630	5175.370
8/16/09	19:21:33	189600.001	29.393	10.500	139.368	5175.632	139.619	5175.381
8/16/09	19:26:33	189900.001	29.386	10.497	139.385	5175.615	139.636	5175.364
8/16/09	19:31:33	190200.001	29.386	10.490	139.385	5175.615	139.636	5175.364
8/16/09	19:36:33	190500.001	29.386	10.490	139.385	5175.615	139.637	5175.363
8/16/09	19:41:33	190800.001	29.385	10.492	139.387	5175.613	139.639	5175.361
8/16/09	19:46:33	191100.001	29.384	10.495	139.389	5175.611	139.641	5175.359
8/16/09	19:51:33	191400.001	29.383	10.497	139.390	5175.610	139.643	5175.357
8/16/09	19:56:33	191700.001	29.382	10.499	139.394	5175.606	139.647	5175.353
8/16/09	20:01:33	192000.001	29.382	10.498	139.394	5175.606	139.647	5175.353
8/16/09	20:06:33	192300.001	29.382	10.495	139.394	5175.606	139.647	5175.353
8/16/09	20:11:33	192600.001	29.380	10.496	139.399	5175.601	139.653	5175.347
8/16/09	20:16:33	192900.001	29.388	10.502	139.381	5175.619	139.635	5175.365
8/16/09	20:21:33	193200.001	29.380	10.502	139.398	5175.602	139.652	5175.348
8/16/09	20:26:33	193500.001	29.386	10.504	139.384	5175.616	139.639	5175.361
8/16/09	20:31:33	193800.001	29.381	10.505	139.396	5175.604	139.651	5175.349
8/16/09	20:36:33	194100.001	29.380	10.506	139.398	5175.602	139.654	5175.346
8/16/09	20:41:33	194400.001	29.385	10.514	139.386	5175.614	139.642	5175.358
8/16/09	20:46:33	194700.001	29.384	10.513	139.389	5175.611	139.646	5175.354
8/16/09	20:51:33	195000.001	29.384	10.517	139.389	5175.611	139.646	5175.354
8/16/09	20:56:33	195300.001	29.383	10.514	139.391	5175.609	139.648	5175.352
8/16/09	21:01:33	195600.001	29.377	10.516	139.406	5175.594	139.663	5175.337
8/16/09	21:06:33	195900.001	29.377	10.512	139.405	5175.595	139.663	5175.337
8/16/09	21:11:33	196200.001	29.383	10.514	139.391	5175.609	139.649	5175.351
8/16/09	21:16:33	196500.001	29.382	10.516	139.393	5175.607	139.652	5175.348
8/16/09	21:21:33	196800.001	29.381	10.516	139.396	5175.604	139.655	5175.345
8/16/09	21:26:33	197100.001	29.381	10.517	139.395	5175.605	139.654	5175.346
8/16/09	21:31:33	197400.001	29.380	10.520	139.398	5175.602	139.658	5175.342
8/16/09	21:36:33	197700.001	29.381	10.520	139.396	5175.604	139.656	5175.344
8/16/09	21:41:33	198000.001	29.380	10.510	139.398	5175.602	139.659	5175.341
8/16/09	21:46:33	198300.001	29.379	10.512	139.401	5175.599	139.661	5175.339
8/16/09	21:51:33	198600.001	29.379	10.513	139.400	5175.600	139.661	5175.339
8/16/09	21:56:33	198900.001	29.378	10.518	139.402	5175.598	139.663	5175.337
8/16/09	22:01:33	199200.001	29.378	10.524	139.403	5175.597	139.665	5175.335
8/16/09	22:06:33	199500.001	29.377	10.518	139.406	5175.594	139.668	5175.332
8/16/09	22:11:33	199800.001	29.371	10.510	139.420	5175.580	139.682	5175.318
8/16/09	22:16:33	200100.001	29.377	10.508	139.405	5175.595	139.668	5175.332
8/16/09	22:21:33	200400.001	29.377	10.508	139.404	5175.596	139.667	5175.333
8/16/09	22:26:33	200700.001	29.377	10.503	139.406	5175.594	139.669	5175.331
8/16/09	22:31:33	201000.001	29.377	10.503	139.405	5175.595	139.669	5175.331
8/16/09	22:36:33	201300.001	29.377	10.503	139.405	5175.595	139.669	5175.331
8/16/09	22:41:33	201600.001	29.375	10.514	139.409	5175.591	139.673	5175.327
8/16/09	22:46:33	201900.001	29.375	10.502	139.410	5175.590	139.675	5175.325
8/16/09	22:51:33	202200.001	29.376	10.501	139.406	5175.594	139.672	5175.328
8/16/09	22:56:33	202500.001	29.374	10.507	139.412	5175.588	139.677	5175.323
8/16/09	23:01:33	202800.001	29.373	10.505	139.413	5175.587	139.679	5175.321
8/16/09	23:06:33	203100.001	29.375	10.501	139.410	5175.590	139.676	5175.324

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/16/09	23:11:33	203400.001	29.374	10.508	139.412	5175.588		139.678	5175.322
8/16/09	23:16:33	203700.001	29.374	10.505	139.413	5175.587		139.680	5175.320
8/16/09	23:21:33	204000.001	29.366	10.504	139.429	5175.571		139.697	5175.303
8/16/09	23:26:33	204300.001	29.367	10.504	139.427	5175.573		139.695	5175.305
8/16/09	23:31:33	204600.001	29.372	10.508	139.417	5175.583		139.685	5175.315
8/16/09	23:36:33	204900.001	29.371	10.516	139.418	5175.582		139.686	5175.314
8/16/09	23:41:33	205200.001	29.373	10.507	139.415	5175.585		139.683	5175.317
8/16/09	23:46:33	205500.001	29.372	10.514	139.418	5175.582		139.686	5175.314
8/16/09	23:51:33	205800.001	29.372	10.509	139.417	5175.583		139.686	5175.314
8/16/09	23:56:33	206100.001	29.366	10.503	139.430	5175.570		139.700	5175.300
8/17/09	0:01:33	206400.001	29.371	10.503	139.419	5175.581		139.689	5175.311
8/17/09	0:06:33	206700.001	29.371	10.512	139.419	5175.581		139.689	5175.311
8/17/09	0:11:33	207000.001	29.370	10.510	139.421	5175.579		139.692	5175.308
8/17/09	0:16:33	207300.001	29.369	10.510	139.423	5175.577		139.694	5175.306
8/17/09	0:21:33	207600.001	29.371	10.514	139.420	5175.580		139.691	5175.309
8/17/09	0:26:33	207900.001	29.371	10.510	139.420	5175.580		139.691	5175.309
8/17/09	0:31:33	208200.001	29.369	10.514	139.424	5175.576		139.696	5175.304
8/17/09	0:36:33	208500.001	29.369	10.518	139.424	5175.576		139.696	5175.304
8/17/09	0:41:33	208800.001	29.370	10.514	139.421	5175.579		139.694	5175.306
8/17/09	0:46:33	209100.001	29.368	10.520	139.425	5175.575		139.698	5175.302
8/17/09	0:51:33	209400.001	29.363	10.515	139.437	5175.563		139.710	5175.290
8/17/09	0:56:33	209700.001	29.368	10.517	139.425	5175.575		139.699	5175.301
8/17/09	1:01:33	210000.001	29.367	10.527	139.428	5175.572		139.702	5175.298
8/17/09	1:06:33	210300.001	29.368	10.524	139.427	5175.573		139.701	5175.299
8/17/09	1:11:33	210600.001	29.368	10.519	139.425	5175.575		139.699	5175.301
8/17/09	1:16:33	210900.001	29.367	10.516	139.427	5175.573		139.702	5175.298
8/17/09	1:21:33	211200.001	29.369	10.511	139.424	5175.576		139.700	5175.300
8/17/09	1:26:33	211500.001	29.369	10.511	139.423	5175.577		139.698	5175.302
8/17/09	1:31:33	211800.001	29.368	10.509	139.427	5175.573		139.703	5175.297
8/17/09	1:36:33	212100.001	29.369	10.512	139.423	5175.577		139.699	5175.301
8/17/09	1:41:33	212400.001	29.369	10.508	139.423	5175.577		139.700	5175.300
8/17/09	1:46:33	212700.001	29.369	10.508	139.423	5175.577		139.700	5175.300
8/17/09	1:51:33	213000.001	29.370	10.514	139.421	5175.579		139.699	5175.301
8/17/09	1:56:33	213300.001	29.370	10.509	139.420	5175.580		139.698	5175.302
8/17/09	2:01:33	213600.001	29.365	10.508	139.432	5175.568		139.710	5175.290
8/17/09	2:06:33	213900.001	29.371	10.503	139.419	5175.581		139.697	5175.303
8/17/09	2:11:33	214200.001	29.371	10.502	139.419	5175.581		139.698	5175.302
8/17/09	2:16:33	214500.001	29.370	10.507	139.422	5175.578		139.701	5175.299
8/17/09	2:21:33	214800.001	29.370	10.511	139.420	5175.580		139.700	5175.300
8/17/09	2:26:33	215100.001	29.370	10.514	139.420	5175.580		139.700	5175.300
8/17/09	2:31:33	215400.001	29.372	10.506	139.417	5175.583		139.698	5175.302
8/17/09	2:36:33	215700.001	29.371	10.506	139.419	5175.581		139.699	5175.301
8/17/09	2:41:33	216000.001	29.371	10.506	139.418	5175.582		139.699	5175.301
8/17/09	2:46:33	216300.001	29.369	10.508	139.423	5175.577		139.705	5175.295
8/17/09	2:51:33	216600.001	29.371	10.510	139.418	5175.582		139.700	5175.300
8/17/09	2:56:33	216900.001	29.371	10.514	139.419	5175.581		139.701	5175.299
8/17/09	3:01:33	217200.001	29.370	10.514	139.420	5175.580		139.703	5175.297
8/17/09	3:06:33	217500.001	29.369	10.513	139.424	5175.576		139.707	5175.293
8/17/09	3:11:33	217800.001	29.371	10.509	139.419	5175.581		139.702	5175.298
8/17/09	3:16:33	218100.001	29.372	10.509	139.417	5175.583		139.701	5175.299
8/17/09	3:21:33	218400.001	29.370	10.508	139.420	5175.580		139.704	5175.296
8/17/09	3:26:33	218700.001	29.370	10.512	139.421	5175.579		139.705	5175.295
8/17/09	3:31:33	219000.001	29.370	10.509	139.422	5175.578		139.706	5175.294
8/17/09	3:36:33	219300.001	29.370	10.508	139.421	5175.579		139.705	5175.295

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792 PSI	SN#: 13792 Temp - C	SN#: 13792 DTW (ft btoc)	TOC Elev	Corrected DTW	Corrected Elev
						5315.000 GW Elevation		
8/17/09	3:41:33	219600.001	29.370	10.510	139.421	5175.579	139.706	5175.294
8/17/09	3:46:33	219900.001	29.370	10.502	139.421	5175.579	139.707	5175.293
8/17/09	3:51:33	220200.001	29.370	10.506	139.422	5175.578	139.708	5175.292
8/17/09	3:56:33	220500.001	29.370	10.502	139.421	5175.579	139.707	5175.293
8/17/09	4:01:33	220800.001	29.369	10.509	139.423	5175.577	139.709	5175.291
8/17/09	4:06:33	221100.001	29.367	10.514	139.427	5175.573	139.714	5175.286
8/17/09	4:11:33	221400.001	29.368	10.514	139.425	5175.575	139.712	5175.288
8/17/09	4:16:33	221700.001	29.368	10.514	139.426	5175.574	139.714	5175.286
8/17/09	4:21:33	222000.001	29.368	10.510	139.425	5175.575	139.713	5175.287
8/17/09	4:26:33	222300.001	29.368	10.511	139.427	5175.573	139.715	5175.285
8/17/09	4:31:33	222600.001	29.369	10.511	139.424	5175.576	139.713	5175.287
8/17/09	4:36:33	222900.001	29.368	10.513	139.426	5175.574	139.715	5175.285
8/17/09	4:41:33	223200.001	29.368	10.512	139.426	5175.574	139.716	5175.284
8/17/09	4:46:33	223500.001	29.368	10.514	139.426	5175.574	139.715	5175.285
8/17/09	4:51:33	223800.001	29.367	10.512	139.429	5175.571	139.719	5175.281
8/17/09	4:56:33	224100.001	29.367	10.510	139.428	5175.572	139.719	5175.281
8/17/09	5:01:33	224400.001	29.366	10.505	139.429	5175.571	139.720	5175.280
8/17/09	5:06:33	224700.001	29.366	10.507	139.431	5175.569	139.722	5175.278
8/17/09	5:11:33	225000.001	29.366	10.512	139.430	5175.570	139.721	5175.279
8/17/09	5:16:33	225300.001	29.366	10.508	139.430	5175.570	139.721	5175.279
8/17/09	5:21:33	225600.001	29.364	10.507	139.435	5175.565	139.727	5175.273
8/17/09	5:26:33	225900.001	29.365	10.512	139.433	5175.567	139.726	5175.274
8/17/09	5:31:33	226200.001	29.366	10.510	139.430	5175.570	139.722	5175.278
8/17/09	5:36:33	226500.001	29.365	10.511	139.432	5175.568	139.725	5175.275
8/17/09	5:41:33	226800.001	29.364	10.511	139.435	5175.565	139.728	5175.272
8/17/09	5:46:33	227100.001	29.364	10.504	139.434	5175.566	139.728	5175.272
8/17/09	5:51:33	227400.001	29.364	10.512	139.434	5175.566	139.729	5175.271
8/17/09	5:56:33	227700.001	29.363	10.505	139.437	5175.563	139.732	5175.268
8/17/09	6:01:33	228000.001	29.363	10.504	139.437	5175.563	139.732	5175.268
8/17/09	6:06:33	228300.001	29.364	10.500	139.436	5175.564	139.731	5175.269
8/17/09	6:11:33	228600.001	29.363	10.496	139.437	5175.563	139.732	5175.268
8/17/09	6:16:33	228900.001	29.363	10.500	139.438	5175.562	139.734	5175.266
8/17/09	6:21:33	229200.001	29.362	10.497	139.441	5175.559	139.737	5175.263
8/17/09	6:26:33	229500.001	29.361	10.498	139.442	5175.558	139.739	5175.261
8/17/09	6:31:33	229800.001	29.362	10.490	139.440	5175.560	139.737	5175.263
8/17/09	6:36:33	230100.001	29.361	10.496	139.441	5175.559	139.738	5175.262
8/17/09	6:41:33	230400.001	29.361	10.495	139.442	5175.558	139.740	5175.260
8/17/09	6:46:33	230700.001	29.354	10.494	139.459	5175.541	139.757	5175.243
8/17/09	6:51:33	231000.001	29.362	10.499	139.441	5175.559	139.739	5175.261
8/17/09	6:56:33	231300.001	29.358	10.509	139.448	5175.552	139.747	5175.253
8/17/09	7:01:33	231600.001	29.358	10.504	139.448	5175.552	139.747	5175.253
8/17/09	7:06:33	231900.001	29.352	10.499	139.463	5175.537	139.763	5175.237
8/17/09	7:11:33	232200.001	29.358	10.496	139.448	5175.552	139.748	5175.252
8/17/09	7:16:33	232500.001	29.358	10.500	139.448	5175.552	139.748	5175.252
8/17/09	7:21:33	232800.001	29.358	10.497	139.449	5175.551	139.750	5175.250
8/17/09	7:26:33	233100.001	29.351	10.492	139.465	5175.535	139.766	5175.234
8/17/09	7:31:33	233400.001	29.359	10.497	139.446	5175.554	139.747	5175.253
8/17/09	7:36:33	233700.001	29.357	10.503	139.451	5175.549	139.752	5175.248
8/17/09	7:41:33	234000.001	29.358	10.506	139.449	5175.551	139.751	5175.249
8/17/09	7:46:33	234300.001	29.355	10.504	139.455	5175.545	139.757	5175.243
8/17/09	7:51:33	234600.001	29.354	10.508	139.457	5175.543	139.759	5175.241
8/17/09	7:56:33	234900.001	29.354	10.511	139.458	5175.542	139.761	5175.239
8/17/09	8:01:33	235200.001	29.353	10.514	139.460	5175.540	139.763	5175.237
8/17/09	8:06:33	235500.001	29.355	10.508	139.455	5175.545	139.758	5175.242

**Appendix B-9. UMW-10 Water Level Data, Moore Ranch Supplemental Pump Testing**

Date	Time	Elapsed Time Minutes	SN#: 13792; PSI	SN#: 13792; Temp - C	SN#: 13792; DTW (ft btoc)	TOC Elev		Corrected DTW	Corrected Elev
						5315.000 GW Elevation			
8/17/09	8:11:33	235800.001	29.355	10.505	139.456	5175.544		139.759	5175.241
8/17/09	8:16:33	236100.001	29.346	10.505	139.476	5175.524		139.780	5175.220
8/17/09	8:21:33	236400.001	29.353	10.508	139.461	5175.539		139.765	5175.235
8/17/09	8:26:33	236700.001	29.352	10.513	139.463	5175.537		139.768	5175.232
8/17/09	8:31:33	237000.001	29.351	10.516	139.464	5175.536		139.769	5175.231
8/17/09	8:36:33	237300.001	29.350	10.518	139.466	5175.534		139.772	5175.228
8/17/09	8:41:33	237600.001	29.350	10.515	139.468	5175.532		139.774	5175.226
8/17/09	8:46:33	237900.001	29.351	10.507	139.465	5175.535		139.771	5175.229
8/17/09	8:51:33	238200.001	29.350	10.508	139.468	5175.532		139.774	5175.226
8/17/09	8:56:33	238500.001	29.349	10.509	139.469	5175.531		139.775	5175.225
8/17/09	9:01:33	238800.001	29.348	10.507	139.473	5175.527		139.780	5175.220
8/17/09	9:06:33	239100.001	29.349	10.504	139.470	5175.530		139.777	5175.223
8/17/09	9:11:33	239400.001	29.349	10.507	139.469	5175.531		139.777	5175.223
8/17/09	9:16:33	239700.001	29.349	10.505	139.470	5175.530		139.778	5175.222
8/17/09	9:21:33	240000.001	29.348	10.503	139.471	5175.529		139.780	5175.220
8/17/09	9:26:33	240300.001	29.348	10.503	139.472	5175.528		139.781	5175.219
8/17/09	9:31:33	240600.001	29.352	10.501	139.462	5175.538		139.771	5175.229
8/17/09	9:36:33	240900.001	29.352	10.509	139.462	5175.538		139.772	5175.228
8/17/09	9:41:33	241200.001	29.353	10.506	139.461	5175.539		139.771	5175.229
									5089.990

APPENDIX B-10  
OMW-7B WATER LEVEL DATA

**Appendix B-10. OMW-7B Water Level Data, Moore Ranch Supplemental Pump Testing**

6/2/2009

**OMW-7B**

TD 0:00:00

Scr Int 33-42

SWL 17:02:24

Pump at 44'

	Time	WL (ft btoc)		Time	DTW	OMW-7B Drawdown
	8:50:00	30.46				
	9:01:00	31.18 ?				
rate	9:02:00	31.23 Pump on??		0	31.23	0
<b>1.6 gpm</b>	9:04:00	36.12		2	36.12	4.89
	9:05:00	36.18		3	36.18	4.95
	9:06:00	36.24		4	36.24	5.01
	9:07:00	36.53		5	36.53	5.3
	9:08:00	36.97		6	36.97	5.74
	9:09:00	37.23		7	37.23	6
	9:10:00	37.63		8	37.63	6.4
	9:11:00	37.97		9	37.97	6.74
	9:12:00	38.33		10	38.33	7.1
	9:13:00	38.65		11	38.65	7.42
	9:14:00	38.98		12	38.98	7.75
	9:15:00	39.28		13	39.28	8.05
	9:16:00	39.6		14	39.6	8.37
	9:17:00	39.93		15	39.93	8.7
	9:18:00	40.3		16	40.3	9.07
	9:19:00	40.62		17	40.62	9.39
	9:20:00	40.98		18	40.98	9.75
	9:21:00	41.39		19	41.39	10.16
	9:22:00	41.7		20	41.7	10.47
	9:23:00	42.02		21	42.02	10.79
	9:24:00	42.41		22	42.41	11.18
	9:25:00	42.72		23	42.72	11.49
	9:26:00	43.09		23	43.09	11.86
	9:27:00	43.41		25	43.41	12.18
	9:28:00	43.77		26	43.77	12.54
	9:29:00	44.08		27	44.08	12.85
	9:30:00	44.4		28	44.4	13.17
	9:31:00	44.67		29	44.67	13.44
	9:32:00	44.64 Pump off		30	44.64	13.41
	9:32:30	44.6		30.5	44.6	13.37
	9:33:00	44.6		31	44.6	13.37
	9:33:30	44.59		31.5	44.59	13.36
	9:34:00	44.58		32	44.58	13.35
	9:34:30	44.56		32.5	44.56	13.33
	9:35:00	44.53		33	44.53	13.3
	9:35:30	44.51		33.5	44.51	13.28
	9:36:00	44.5		34	44.5	13.27
	9:36:30	44.5		34.5	44.5	13.27
	9:37:00	44.48		35	44.48	13.25
	9:37:30	44.47		35.5	44.47	13.24
	9:38:00	44.45		36	44.45	13.22
	9:38:30	44.43		36.5	44.43	13.2



**Appendix B-10. OMW-7B Water Level Data, Moore Ranch Supplemental Pump Testing**

9:39:00	44.41	37	44.41	13.18
9:39:30	44.39	37.5	44.39	13.16
9:40:00	44.37	38	44.37	13.14
9:40:30	44.36	38.5	44.36	13.13
9:41:00	44.34	39	44.34	13.11
9:42:00	44.31	40	44.31	13.08
9:43:00	44.29	41	44.29	13.06
9:44:00	44.25	42	44.25	13.02
9:45:00	44.22	43	44.22	12.99
9:46:00	44.2	44	44.2	12.97
9:47:00	44.16	45	44.16	12.93
9:48:00	44.14	46	44.14	12.91
9:49:00	44.11	47	44.11	12.88
9:50:00	44.08	48	44.08	12.85
9:51:00	44.06	49	44.06	12.83
9:52:00	44.03	50	44.03	12.8
9:53:00	43.99	51	43.99	12.76
9:54:00	43.96	52	43.96	12.73
9:55:00	43.93	53	43.93	12.7
9:56:00	43.9	54	43.9	12.67
9:57:00	43.88	55	43.88	12.65
9:58:00	43.85	56	43.85	12.62
9:59:00	43.81	57	43.81	12.58
10:00:00	43.78	58	43.78	12.55
10:01:00	43.76	59	43.76	12.53
10:06:00	43.61	64	43.61	12.38
10:11:00	43.47	69	43.47	12.24
10:16:00	43.32	74	43.32	12.09
10:21:00	43.17	79	43.17	11.94
10:26:00	43.02	84	43.02	11.79
10:31:00	42.88	89	42.88	11.65
10:41:00	42.59	99	42.59	11.36
10:51:00	42.27	109	42.27	11.04
11:01:00	42.02	119	42.02	10.79
11:31:00	41.21	149	41.21	9.98
11:46:00	40.85	164	40.85	9.62
12:01:00	40.45	179	40.45	9.22
12:31:00	39.7	209	39.7	8.47
13:01:00 P	39.04	239	39.04	7.81
14:01:00 P	37.69	299	37.69	6.46
14:31:00 P	36.89	329	36.89	5.66
15:01:00 P	36.37	359	36.37	5.14
15:31:00 P	35.73	389	35.73	4.5

15:46:00 PM

16:13:00 PM

Pump on  
Pump off

First day

13:05:00

29.71

13:35:00

44.67 Pump On

1.6 gpm

16:00:00

39.92 Pump Off

**APPENDIX B8**

Technical Memorandum

Evaluation of Potential Impacts to the 68 Sand from ISR Production in Wellfield 2  
Moore Ranch Uranium Project, Wyoming

## Technical Memorandum

**To: Donna Wichers, Mike Griffin, Jon Winter, Uranium One**

**From: Errol Lawrence, Petrotek Engineering Corporation**

**Date: 10/01/09**

**Subject: Evaluation of Potential Impacts to the 68 Sand from ISR  
Production in Wellfield 2, Moore Ranch Uranium Project, Wyoming**

### Introduction

Petrotek Engineering Corporation (PEC) has completed an evaluation of potential impacts to the underlying aquifer from insitu recovery (ISR) mining in proposed Wellfield 2 of the Moore Ranch Uranium Project in Campbell County, Wyoming. The production zone aquifer is referred to as the 70 Sand and the underlying aquifer is referred to as the 68 Sand. Delineation drilling has indicated the absence of a confining unit between the 70 and 68 Sands over the east central portion of Wellfield 2, as shown on Figure 1. A pump test was conducted in the 68 Sand near the area where confinement is absent to assess aquifer properties of that hydrostratigraphic unit. Results of the pump test indicate that the transmissivity of the 68 Sand is two to three orders of magnitude lower than the transmissivity of the overlying 70 Sand. The large difference in transmissivity (and hydraulic conductivity) implies that groundwater flow patterns within the 70 Sand during ISR operations will be dominated by horizontal flow, with minimal exchange between the 68 and 70 Sands. Numerical modeling was performed to simulate hydraulic stresses and responses that will occur during ISR operations in the area where the confining unit is absent. The numerical modeling confirms that minimal flow will occur into or out of the 68 Sand during ISR production and restoration operations. Additional discussion follows.

### Pump Test Results for the 68 and 70 Sands

EMC and PEC conducted short-term pump tests in the 68 Sand in August 2009 at two locations within Moore Ranch. One location was in Wellfield 1 (at monitor well UMW3) and the other was in Wellfield 2 (at monitor well UMW2). The location of the pump tests are shown on Figure 2. The aquifer properties of the 68 Sand at Wellfield 2 are of particular interest because there is no confining unit present between the production zone (70 Sand) and the underlying aquifer (68 Sand) over the east central portion of that wellfield.

Well UMW2 is located in the area of Wellfield 2 where the 68 and 70 Sands coalesce. The pump test at UMW-2 was run for 113 minutes at 1.1 gpm. Wells completed in the overlying and underlying aquifers were monitored during the

test. Total drawdown in UMW2 was 63.5 feet at the end of the test. No response was observed in either the overlying 70 Sand monitor well (MW-2) or the underlying 60 Sand monitor well (UMW10). The 68 Sand is approximately 61 feet thick in at UMW2. Estimated transmissivity of the 68 Sand from the UMW-2 test was from 0.53 to 0.71 ft<sup>2</sup>/d. This range is more than three orders of magnitude lower than the transmissivity determined for the 70 Sand in this area. The hydraulic conductivity of the 68 Sand (determined by dividing the transmissivity by the saturated thickness of the aquifer) is from 0.0086 ft/d to 0.012 ft/d.

Well UMW-3 was pumped for 20 minutes at 0.8 gpm. Total drawdown in the well was 21.3 feet at the end of the test. The test was terminated because the water level in the pumped well dropped below the level of the pressure transducer. No response was observed in either the overlying 70 Sand monitor well (MW-3) or the underlying 60 Sand monitor well (UMW11) during the UMW-3 test. The test at UMW-3 was not run long enough to exceed the casing storage in the well. Therefore, transmissivity could not be estimated from this pump test. However, the initial response was similar to that seen during the UMW-2 test. It can be reasonably assumed that the transmissivity and hydraulic conductivity of the 68 Sand in the vicinity of UMW-3 are of similar magnitude as that estimated at UMW-2.

Previous pump tests had been conducted on the 70 Sand at multiple locations within Moore Ranch and were reported in the "Moore Ranch Hydrologic Testing Report" (PEC, revised July 2009) and the "Moore Ranch, 5-Spot Hydrologic Test Report, Volume 1, Test Design, Results and Analysis" (PEC August 2008). One of those tests was conducted at monitor well MW2 which is located approximately 10 feet from monitor well UMW2.

The MW2 pump test conducted in March 2007 was run for 1 full day at 26 gpm with a total drawdown at the end of the test of only 19.3 ft. Transmissivity calculated for the 70 Sand from the MW2 test was 724 ft<sup>2</sup>/d. Although the total thickness of the 70 Sand at MW2 is approximately 100 feet, the saturated thickness is only 78 feet because of unconfined conditions in the 70 Sand aquifer in that area.

Additional hydrologic testing of a 5-Spot Pattern within Wellfield 2, conducted in July 2008, provided a lower transmissivity estimate of the 70 Sand, averaging around 400 ft<sup>2</sup>/d. This transmissivity value is considered a more reliable value for the 70 Sand as the test included analyses from 7 observation wells. Numerical modeling of the test results provided a best fit to the pump test data using a transmissivity of 300 ft<sup>2</sup>/d and an hydraulic conductivity of 4.0 ft/d as described in the "Moore Ranch, 5-Spot Hydrologic Test Report, Volume 2, Model Development and Simulations," (PEC August 2008).

Based on the hydrologic testing performed to date, the transmissivity of the 70 Sand is more than three orders of magnitude greater than the transmissivity of the 68 Sand within the Wellfield 2. Evaluation of the electric log for UMW2

indicates an apparent increase in finer-grained sediments within the 68 Sand compared to the 70 Sand (Figure 3). Personal communication with EMC geologists confirm that the 68 Sand has a much higher percentage of fine-grained materials than the 70 Sand. These analyses corroborate the lower transmissivity values derived from the 68 sand aquifer tests.

### **Numerical Modeling of ISR Operations**

Numerical models have been developed to simulate ISR impacts to groundwater at Moore Ranch, as described in the "Moore Ranch, 5-Spot Hydrologic Test Report, Volume 2, Model Development and Simulations" (PEC August 2008 ) and the "Numerical Modeling of Groundwater Conditions Related to Insitu Recovery at the Moore Ranch Uranium Project, Wyoming" (PEC 2008). A model that was developed to evaluate potential dewatering of the 70 Sand during ISR operations in Wellfield 2 was modified to address the issue of potential impacts to the 68 Sand.

The original model simulated a wellfield consisting of 9 recovery wells and sixteen injection wells configured in 5-spot well patterns. The model contained a single layer representing the 70 Sand. The model simulated unsaturated conditions within the 70 Sand and was run for a period of 18 months to represent the full production cycle. The model code was MODFLOW SURFACT (HydroGeologic 2008). Details of the model are described in the "Moore Ranch, 5-Spot Hydrologic Test Report, Volume 2, Model Development and Simulations" (PEC August 2008 ).

That single layer model was expanded to include a second layer representing the 68 Sand. Model thickness of the 70 Sand is 100 feet and thickness of the 68 Sand is 60 feet. The model extends for 1,980 feet in the north-south and east-west directions. In the central portion of the model, the cell dimensions are 1 foot by 1 foot. Out toward the perimeter of the model the cell size increases to 5 feet by feet. The model consists of 629 rows, 629 columns, 2 layers and 842,402 cells. The model domain is shown on Figure 4. The model grid is centered over the area where the 68 and 70 Sands coalesce in Wellfield 2. General head boundaries are placed along the south and north edges of the model domain (with head values of 5195.15 and 5188.75 ft respectively) to simulate a baseline (non-pumping) hydraulic gradient of 0.00323 ft/ft to the north, consistent with water level data collected prior to the 5-Spot hydrologic test.

The hydraulic conductivity of the 70 Sand is simulated as 4 ft/d and the hydraulic conductivity of the 68 Sand is simulated as 0.01 ft/d. No confining unit is simulated. The pumping rate of each of the recovery wells is 20 gpm (3,850 ft<sup>3</sup>/d ) for a total extraction rate of 180 gpm (34,652 ft<sup>3</sup>/d). Injection was simulated as 178.2 gpm (34,306 ft<sup>3</sup>/d) to represent a one percent bleed during production. The configuration of the wellfield is illustrated in Figure 5. The model simulation was run for a period of 18 months (548 days) to represent the full production cycle.

The simulated head distribution in the 70 Sand at the end of production is presented in Figure 6. As expected, production operations have resulted in a cone of depression around each extraction well and a recharge mound at each injection well. Changes within the 68 Sand as a result of ISR production are significantly less. Figure 7 shows a comparison of the head distribution at the start (baseline pre-production) and end of production in the 68 Sand. Results of the model simulation indicate that changes in head within the 68 Sand will be negligible (less than 1 foot) at the end of the production cycle. Figure 8 shows the drawdown at observation points in the 70 and 68 Sands at the center of the wellfield (identified as OB1 on the previous figures). The maximum drawdown within the 70 Sand is over 12 feet whereas in the 68 Sand, drawdown is approximately two orders of magnitude lower (at less than 0.13 feet). Figure 9 shows drawdown at observation point 2 (OP2) in the 70 and 68 Sands at the northwest edge of the wellfield. There is a net rise in the 70 Sand water level because of the injection at this location. The 68 Sand shows a very slight decrease of approximately 0.05 ft by the end of production

A second simulation was run to evaluate potential impacts during aquifer restoration. The total projected rate of production for Wellfield 2 is 3,000 gpm (577,540 ft<sup>3</sup>/d). This model represents only a portion of the total wellfield, with a production rate of 180 gpm (34,652 ft<sup>3</sup>/d), or 6 percent of the total projected rate. RO is to be applied to the entire wellfield at a rate of 250 gpm (48,130 ft<sup>3</sup>/d). To keep the proportions consistent, for this simulation 6 percent of 250 gpm (15 gpm or 2,888 ft<sup>3</sup>/d) will be extracted for RO during restoration. Approximately 80 percent of the RO will be reinjected into the aquifer after treatment. The remaining 20 percent (3 gpm) is the net loss to the aquifer during restoration. The model simulates the net loss of 3 gpm evenly divided between the 9 recovery wells (at 0.33 gpm or 64 ft<sup>3</sup>/d per well). The well configuration for this simulation is shown on Figure 10.

The simulated head distribution in the 70 Sand at the end of restoration is presented in Figure 11. Figure 12 shows a comparison of the head distribution in the 68 Sand at the start (baseline pre-restoration) and end of restoration. Results of the model simulation indicate that changes in head within the 68 Sand will be negligible (less than 1 foot) at the end of the restoration cycle. Figure 13 shows the drawdown at observation points in the 70 and 68 Sands at the center of the wellfield (identified as OB1 on the previous figures). Figure 14 shows drawdown at observation point 2 (OP2) in the 70 and 68 Sands at the northwest edge of the wellfield. The maximum drawdown within the 68 Sand is approximately 0.3 feet throughout restoration.

## **Summary**

Uranium One and PEC conducted pump tests in the 68 Sand in August 2009 within the Moore Ranch Uranium Project. Results of the pump tests indicate that the transmissivity of the 68 Sand is several orders of magnitude lower than that

of the 70 Sand. Log data and core data confirm that the 68 sand has a much higher percentage of finer grained materials than the 70 Sand.

Numerical modeling was performed to estimate potential impacts to the 68 Sand during ISR operations. Input values for transmissivity and hydraulic conductivity were derived from the pump test results and analyses. A portion of Wellfield 2 was modeled, simulating the area where there is a lack of confinement between the 68 and 70 Sand. Production and restoration phases were both simulated. Results of the modeling indicate minimal impacts on the 68 Sand during ISR operations. Less than 1 foot of drawdown occurred within the 68 Sand at any location within the model domain throughout the production and restoration simulations.

Based on the pump test results and numerical model simulations, impacts to the 68 Sand are anticipated to be minimal during ISR production and restoration operations at the rates projected in the WDEQ Permit to Mine Application and the NRC License Application. However, EMC intends to increase the density of monitor wells within the 68 Sand and the underlying 60 Sand in the area where the confining unit between the 70 and 68 Sand appears absent as described in the revised applications.