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*Supplement of*

## **Groundwater surface mapping informs sources of catchment baseflow**

**J. F. Costelloe et al.**

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**Supplement A. Major ion and isotope data for streamflow and groundwater samples, Gelibrand River, 2013 (nm – not measured; nd – not detected);.**

Type	Meth.	Date - time	Latitude	Long.	Ca	K	Mg	Na	F	Cl	Br	NO <sub>3</sub>	PO <sub>4</sub>	SO <sub>4</sub>	Alk	d <sup>18</sup> O	dD
			degrees	degrees	mg/ L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	‰	‰
River	Auto	21/01/2013 17:15	-38.5242	143.4832	7.3	1.8	6.7	32	0.03	53	0.15	0.11	nd	4.7	60	-4.7	-25.1
River	Auto	22/01/2013 5:15	-38.5242	143.4832	8.2	1.9	6.7	32	0.03	53	0.15	0.47	nd	4.6	60	-4.6	-23.6
River	Auto	22/01/2013 17:15	-38.5242	143.4832	7.7	1.8	6.7	32	0.03	53	0.15	0.59	nd	4.7	60	-4.5	-23.7
River	Auto	23/01/2013 5:15	-38.5242	143.4832	7.4	1.8	6.8	32	0.04	53	0.15	0.97	nd	4.7	55	-4.8	-23.3
River	Auto	23/01/2013 17:15	-38.5242	143.4832	7.4	1.7	6.9	31	0.04	53	0.15	0.53	nd	4.7	60	-4.6	-23.6
River	Auto	24/01/2013 5:15	-38.5242	143.4832	8.0	1.8	6.8	32	0.06	54	0.16	0.84	nd	5.1	60	-4.6	-23.3
River	Auto	24/01/2013 17:15	-38.5242	143.4832	7.6	1.8	6.5	32	0.04	54	0.15	0.54	nd	4.8	60	-4.8	-24.0
River	Auto	25/01/2013 5:15	-38.5242	143.4832	13	1.9	7.2	33	0.03	55	0.16	0.60	nd	4.8	52.5	-4.8	-23.5
River	Auto	25/01/2013 17:15	-38.5242	143.4832	8.4	1.8	6.4	31	0.04	55	0.15	0.63	nd	4.7	65	-4.8	-23.4
River	Auto	26/01/2013 5:15	-38.5242	143.4832	8.1	1.8	6.5	32	0.05	54	0.15	0.62	nd	5.0	60	-4.8	-23.4
River	Auto	26/01/2013 17:15	-38.5242	143.4832	7.7	1.8	6.6	32	0.03	54	0.15	0.94	nd	4.7	57.5	-4.8	-23.6
River	Auto	27/01/2013 5:15	-38.5242	143.4832	7.4	1.8	6.5	32	0.05	54	0.16	0.73	nd	4.8	60	-4.8	-23.2
River	Auto	27/01/2013 17:15	-38.5242	143.4832	7.8	1.8	7.0	32	0.03	54	0.15	0.99	nd	4.7	55	-4.7	-23.6
River	Auto	28/01/2013 5:15	-38.5242	143.4832	7.3	1.8	6.7	31	0.04	55	0.16	0.64	nd	4.9	60	-4.7	-23.5
River	Auto	21/01/2013 16:18	-38.5566	143.6184	5.0	1.4	4.0	20	0.04	29	0.08	1.1	nd	2.9	45	-4.8	-21.1
River	Auto	22/01/2013 4:18	-38.5566	143.6184	5.2	1.3	3.7	19	0.04	29	0.07	0.79	nd	2.8	50	-4.6	-21.8
River	Auto	22/01/2013 16:18	-38.5566	143.6184	4.7	1.3	3.9	19	0.04	29	0.07	0.78	nd	2.9	45	-4.6	-21.7
River	Auto	23/01/2013 4:18	-38.5566	143.6184	4.9	1.4	3.7	20	0.04	29	0.07	1.2	nd	2.8	45	-4.6	-21.1
River	Auto	23/01/2013 16:18	-38.5566	143.6184	4.8	1.4	3.8	21	0.04	29	0.08	1.2	nd	2.8	45	-4.7	-21.5
River	Auto	24/01/2013	-38.5566	143.6184	4.8	1.4	4.0	20	0.04	29	0.07	1.0	nd	2.8	45	-4.6	-21.4

		4:18															
River	Auto	24/01/2013 16:18	-38.5566	143.6184	5.0	1.4	3.7	20	0.04	29	0.07	0.76	nd	2.8	50	-4.7	-21.1
River	Auto	25/01/2013 4:18	-38.5566	143.6184	4.8	1.4	3.9	20	0.04	29	0.08	0.54	nd	2.8	50	-4.8	-23.0
River	Auto	25/01/2013 16:18	-38.5566	143.6184	4.8	1.3	3.8	19	0.04	29	0.07	1.2	nd	2.9	50	-4.6	-22.0
River	Auto	26/01/2013 4:18	-38.5566	143.6184	4.7	1.3	3.9	19	0.04	29	0.08	0.73	nd	2.8	55	-4.7	-21.5
River	Auto	26/01/2013 16:18	-38.5566	143.6184	5.0	1.4	3.8	20	0.04	33	0.08	0.96	nd	3.1	47.5	-4.6	-21.2
River	Auto	27/01/2013 4:18	-38.5566	143.6184	4.8	1.4	3.9	20	0.04	29	0.07	0.54	nd	2.9	50	-4.6	-21.3
River	Auto	27/01/2013 16:18	-38.5566	143.6184	4.8	1.4	3.7	19	0.04	29	0.07	0.70	nd	2.8	45	-4.7	-21.5
River	Auto	28/01/2013 4:18	-38.5566	143.6184	5.1	1.3	4.0	19	0.04	30	0.07	0.94	nd	2.9	45	-4.7	-21.1
River	Auto	28/01/2013 16:18	-38.5566	143.6184	4.8	1.3	3.9	19	0.04	31	0.07	0.76	nd	2.9	50	-4.5	-21.1
River	Auto	29/01/2013 4:18	-38.5566	143.6184	4.5	1.1	3.3	16	0.04	30	0.07	0.71	nd	3.2	50	-4.6	-21.2
River	Auto	29/01/2013 16:18	-38.5566	143.6184	4.8	1.3	4.0	20	0.05	30	0.07	1.2	nd	2.8	50	-4.5	-20.7
River	Auto	30/01/2013 4:18	-38.5566	143.6184	4.7	1.3	3.9	20	0.04	30	0.07	14	nd	2.8	50	-4.5	-20.7
River	Auto	30/01/2013 16:18	-38.5566	143.6184	4.8	1.3	4.1	20	0.04	30	0.07	0.85	nd	2.8	50	-4.7	-21.1
River	Auto	31/01/2013 4:18	-38.5566	143.6184	4.9	1.3	4.1	20	0.04	30	0.07	0.82	nd	3.3	50	-4.7	-21.4
River	Auto	31/01/2013 16:18	-38.5566	143.6184	5.1	1.4	4.2	20	0.04	30	0.06	0.61	nd	2.8	50	-4.6	-21.3
River	Auto	1/02/2013 4:18	-38.5566	143.6184	5.0	1.5	4.2	21	0.04	31	0.07	0.77	nd	2.9	55	-4.7	-22.2
River	Grab	21/01/2013 12:15	-38.5242	143.4832	7.2	1.7	6.4	31	0.03	54	0.15	0.28	nd	4.7	40	-4.5	-22.7
Ungau. Trib	Grab	21/01/2013 12:45	-38.5322	143.5080	1.0	0.69	4.9	33	nd	60	0.18	nd	nd	4.9	7.5	nm	nm
Ungau. Trib	Grab	21/01/2013 13:00	-38.5236	143.5292	3.9	1.6	4.2	20	0.03	31	0.08	1.1	nd	3.3	30	nm	nm
Gauged Trib	Grab	21/01/2013 14:10	-38.5348	143.5442	5.2	1.6	5.5	24	0.03	39	0.09	0.44	nd	2.6	32.5	-4.8	-21.9
River	Grab	21/01/2013 17:15	-38.5566	143.6184	4.7	1.3	3.9	19	0.04	29	0.07	0.30	nd	2.8	30	-4.8	-21.8
Ungau.	Grab	22/01/2013	-38.5361	143.5607	0.3	0.23	2.8	23	nd	40	0.11	0.10	nd	3.9	nm	-4.8	-24.9

Trib		7:45															
Ungau. Trib	Grab	22/01/2013 8:00	-38.5301	143.5651	0.9	0.46	4.6	25	nd	46	0.12	1.9	nd	2.9	nm	-3.5	-19.6
River	Grab	22/01/2013 8:45	-38.5294	143.6084	5.1	1.3	4.3	20	0.04	33	0.07	0.18	nd	3.1	nm	-4.3	-20.2
Ungau. Trib	Grab	22/01/2013 9:10	-38.5412	143.6054	1.9	0.65	5.8	41	nd	74	0.22	0.10	nd	5.2	nm	-5.1	-26.8
River	Grab	22/01/2013 11:00	-38.5160	143.5266	7.9	2.2	6.7	22	0.04	51	0.13	0.12	nd	4.9	nm	-4.7	-22.0
River	Grab	22/01/2013 13:40	-38.5299	143.5631	5.7	1.5	5.1	26	0.04	43	0.12	0.15	nd	4.3	nm	-4.2	-21.1
Gauged Trib	Grab	22/01/2013 16:20	-38.5032	143.5516	45	5.0	27	90	0.12	211	0.63	nd	nd	8.0	295	nm	nm
River	Grab	1/02/2013 8:00	-38.5242	143.4832	7.5	2.2	6.5	22	0.06	55	0.15	0.73	nd	5.3	60	-4.6	-22.8
Ungau. Trib	Grab	1/02/2013 8:30	-38.5236	143.5292	4.2	2.0	4.3	20	0.03	31	0.06	0.66	nd	3.0	42.5	-5.0	-24.2
Gauged Trib	Grab	1/02/2013 10:00	-38.5348	143.5442	5.6	1.8	5.4	23	0.03	39	0.08	0.51	nd	2.7	55	-4.8	-22.9
Gauged Trib	Grab	1/02/2013 11:00	-38.5032	143.5516	44	5.3	26	88	0.11	207	0.57	0.19	nd	9.2	280	-4.4	-24.8
River	Auto	7/06/2013 15:00	-38.5242	143.4832	7.3	2.5	6.4	29	0.03	53	0.11	5.5	nd	7.6	30	-5.6	-26.8
River	Auto	8/06/2013 3:00	-38.5242	143.4832	8.6	2.6	6.2	28	0.03	55	0.11	3.9	nd	7.5	40	-5.4	-27.4
River	Auto	8/06/2013 15:00	-38.5242	143.4832	7.5	2.5	6.2	28	0.03	57	0.11	5.1	nd	7.0	30	-5.6	-28.7
River	Auto	9/06/2013 3:00	-38.5242	143.4832	7.5	2.3	5.7	27	0.03	51	0.10	2.0	nd	7.1	35	-5.9	-28.3
River	Auto	9/06/2013 15:00	-38.5242	143.4832	7.2	2.2	5.6	27	0.03	50	0.10	1.7	nd	7.2	35	-5.5	-28.2
River	Auto	10/06/2013 3:00	-38.5242	143.4832	6.6	2.1	5.3	26	0.03	49	0.09	4.8	nd	6.9	35	nm	nm
River	Auto	10/06/2013 15:00	-38.5242	143.4832	6.5	2.1	5.4	27	0.03	50	0.11	nd	nd	7.0	35	-5.6	-27.2
River	Auto	11/06/2013 3:00	-38.5242	143.4832	6.9	2.2	5.5	26	0.03	51	0.10	2.3	nd	7.5	40	-5.4	-27.3
River	Auto	11/06/2013 15:00	-38.5242	143.4832	7.3	2.3	5.5	26	0.03	56	0.12	4.4	nd	8.0	35	-5.4	-27.6
River	Auto	12/06/2013 3:00	-38.5242	143.4832	7.1	2.2	5.7	27	0.04	50	0.09	5.0	nd	7.2	35	-5.6	-27.3
River	Auto	12/06/2013 15:00	-38.5242	143.4832	7.2	2.1	5.4	25	0.03	50	0.10	2.6	nd	6.9	40	-5.5	-27.0
River	Auto	13/06/2013	-38.5242	143.4832	7.0	2.2	5.6	25	0.03	50	0.10	2.2	nd	7.3	35	-5.5	-27.9

			3:00															
River	Auto	13/06/2013	-38.5242	143.4832	7.5	2.1	4.4	22	0.02	41	0.08	3.8	nd	5.8	30	-5.7	-27.7	
		15:00																
River	Auto	14/06/2013	-38.5242	143.4832	4.4	2.5	2.9	17	0.06	27	nd	2.9	nd	5.4	20	-6.5	-33.2	
		3:00																
River	Auto	18/06/2013	-38.5242	143.4832	4.8	1.9	4.2	22	0.03	43	0.09	6.7	nd	6.8	20	-5.9	-30.9	
		3:00																
River	Auto	18/06/2013	-38.5242	143.4832	4.9	1.9	4.3	23	0.03	43	0.10	5.9	nd	6.4	20	-5.8	-29.2	
		15:00																
River	Auto	19/06/2013	-38.5242	143.4832	7.8	1.9	4.5	23	0.04	44	0.10	3.7	nd	6.8	25	nm	nm	
		3:00																
River	Grab	7/06/2013	-38.5630	143.6559	7.4	1.7	3.5	17	0.07	27	nd	2.3	nd	5.8	35.0	-5.3	-26.7	
		11:00																
Rainfall	Rain coll.	7/06/2013	-38.5566	143.6184	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	-5.9	-29.8
		12:00																
Gauged Trib	Grab	7/06/2013	-38.5348	143.5442	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	-5.6	-27.7
		13:00																
River	Grab	7/06/2013	-38.5242	143.4832	25	2.5	33	65	0.27	109	0.16	nd	nd	212	40	-5.1	-26.1	
		13:30																
Ungau. Trib	Grab	7/06/2013	-38.5251	143.4839	4.4	2.2	4.5	22	0.05	43	0.10	2.8	nd	5.9	0	-5.5	-28.1	
		15:00																
Ungau. Trib	Grab	7/06/2013	-38.5236	143.5292	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	-5.5	-28.2
		16:00																
Gauged Trib	Grab	7/06/2013	-38.5032	143.5516	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	-5.4	-28.0
		17:00																
Gauged Trib	Auto	7/06/2013	-38.5348	143.5442	5.7	2.1	5.3	22	0.03	46	0.09	2.4	nd	5.4	30	-5.6	-26.9	
		13:09																
Gauged Trib	Auto	8/06/2013	-38.5348	143.5442	4.6	2.0	4.2	21	0.02	39	0.07	2.9	nd	5.5	25	-6.1	-29.4	
		13:09																
Gauged Trib	Auto	9/06/2013	-38.5348	143.5442	5.6	2.0	4.4	21	0.02	38	0.07	3.5	nd	5.5	25	-5.8	-28.4	
		13:09																
Gauged Trib	Auto	10/06/2013	-38.5348	143.5442	4.7	1.9	4.1	20	0.03	37	0.08	3.7	nd	5.4	25	-5.5	-27.1	
		13:09																
Gauged Trib	Auto	11/06/2013	-38.5348	143.5442	5.6	1.8	4.0	19	0.03	35	0.07	3.6	nd	4.8	25	-5.7	-26.8	
		13:09																
Gauged Trib	Auto	12/06/2013	-38.5348	143.5442	4.6	1.9	4.0	19	0.04	34	0.07	3.7	nd	4.4	25	-5.6	-27.3	
		13:09																
Gauged Trib	Auto	13/06/2013	-38.5348	143.5442	3.9	2.0	2.4	17	0.02	28	0.05	4.9	nd	4.8	10	-6.4	-34.0	
		13:09																
Gauged Trib	Auto	14/06/2013	-38.5348	143.5442	3.4	2.0	2.9	19	0.03	35	0.06	5.0	nd	5.1	15	-6.2	-31.4	
		13:09																
Gauged Trib	Auto	15/06/2013	-38.5348	143.5442	5.9	1.9	3.3	20	0.02	34	0.08	4.4	nd	4.8	15	-5.7	-29.9	
		13:09																
Gauged Trib	Auto	16/06/2013	-38.5348	143.5442	4.2	1.7	3.3	19	0.02	34	0.08	4.1	nd	4.5	15	-5.7	-28.4	

Trib		13:09															
Gauged Trib	Auto	17/06/2013 13:09	-38.5348	143.5442	4.8	1.8	3.3	18	0.05	34	0.08	3.5	nd	4.3	20	-5.7	-28.0
Gauged Trib	Auto	18/06/2013 13:09	-38.5348	143.5442	4.3	1.8	3.3	18	0.04	33	0.07	2.8	nd	4.5	20	-5.8	-27.9
Gauged Trib	Auto	7/06/2013 16:43	-38.5032	143.5516	42	7.5	28	99	nd	236	0.47	4.9	nd	23	160	-5.2	-28.2
Gauged Trib	Auto	8/06/2013 16:43	-38.5032	143.5516	33	6.7	21	90	nd	194	0.39	1.2	nd	22	160	-5.4	-29.2
Gauged Trib	Auto	9/06/2013 16:43	-38.5032	143.5516	38	12	24	98	nd	218	0.41	5.7	nd	30	180	-5.5	-30.0
Gauged Trib	Auto	10/06/2013 16:43	-38.5032	143.5516	38	10	24	98	nd	218	0.43	3.3	nd	29	160	-5.3	-28.1
Gauged Trib	Auto	11/06/2013 16:43	-38.5032	143.5516	37	8.3	24	96	nd	219	0.43	2.6	nd	27	180	-5.3	-27.6
Gauged Trib	Auto	12/06/2013 16:43	-38.5032	143.5516	37	7.6	24	95	nd	217	0.44	2.5	nd	25	160	-5.2	-27.1
Gauged Trib	Auto	13/06/2013 16:43	-38.5032	143.5516	35	7.8	25	94	nd	223	0.43	3.5	nd	23	160	-5.5	-29.2
Gauged Trib	Auto	14/06/2013 16:43	-38.5032	143.5516	34	13	22	95	0.08	201	0.32	1.5	nd	34	140	-5.7	-30.0
Gauged Trib	Auto	15/06/2013 16:43	-38.5032	143.5516	34	9.6	21	93	nd	206	0.32	2.0	nd	32	140	-5.4	-28.6
Gauged Trib	Auto	16/06/2013 16:43	-38.5032	143.5516	31	7.1	20	89	nd	201	0.34	3.4	nd	28	140	-5.8	-28.8
Gauged Trib	Auto	17/06/2013 16:43	-38.5032	143.5516	32	6.4	20	87	nd	192	0.32	11	nd	25	140	-5.3	-27.5
Gauged Trib	Auto	18/06/2013 16:43	-38.5032	143.5516	34	6.1	21	89	nd	194	0.36	3.8	nd	25	95	-5.3	-27.7
River	Grab	19/06/2013 14:00	-38.5630	143.6559	3.5	1.5	2.4	15	0.03	23	nd	3.4	nd	3.8	25	-6.0	-29.2
Rainfall	Rain coll.	19/06/2013 15:00	-38.5566	143.6184	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	-8.1	-52.0
River	Grab	19/06/2013 15:15	-38.5566	143.6184	5.5	1.5	2.7	16	0.03	25	nd	3.1	nd	3.9	23	-5.9	-29.3
Ungau. Trib	Grab	19/06/2013 15:30	-38.5556	143.6114	32	4.5	31	93	nd	259	0.42	nd	nd	22	30	-5.8	-30.7
Ungau. Trib	Grab	19/06/2013 15:45	-38.5412	143.6054	2.9	1.2	9.0	50	0.02	93	0.20	nd	nd	11	15	-5.5	-27.8
Ungau. Trib	Grab	20/06/2013 7:50	-38.5301	143.5651	3.2	1.5	9.5	40	0.02	92	0.20	nd	nd	11	5	-5.3	-28.0
Ungau. Trib	Grab	20/06/2013 8:30	-38.5361	143.5607	0.8	0.73	3.4	29	0.02	47	0.09	0.26	nd	5.9	5	-5.2	-26.6
Ungau. Trib	Grab	20/06/2013	-38.5252	143.4839	17	2.0	23	62	0.14	98	0.19	nd	nd	119	5	-5.4	-27.4

Trib		10:00															
Ungau. Trib	Grab	20/06/2013 10:20	-38.5322	143.5080	2.4	1.1	9.2	45	nd	83	0.18	nd	nd	24	10	-5.2	-26.5
Ungau. Trib	Grab	20/06/2013 11:10	-38.5236	143.5292	3.5	1.7	3.0	18	0.02	30	0.09	3.5	nd	4.1	20	-5.7	-26.6
Ungau. Trib	Grab	20/06/2013 12:00	-38.5224	143.5825	1.5	2.6	4.6	36	0.04	68	0.16	nd	nd	4.0	15	-5.3	-28.8
Ungau. Trib	Grab	20/06/2013 12:15	-38.5201	143.5824	3.8	3.6	6.8	33	0.04	66	0.09	0.94	nd	11	15	-5.3	-28.9
Rainfall	Rain collect.	21/11/2013 12:15	-38.5566	143.6184	4.8	1.2	1.6	6.0	nd	9.5	nd	nd	nd	1.2	37.5	-3.1	-9.6
Ground water	Bore	21/11/2013 13:40	-38.5307	143.5062	0.86	0.87	1.9	17	nd	30	0.22	nd	nd	5.8	5	-5.6	-29.2
Ground water	Bore	21/11/2013 16:10	-38.5317	143.4937	nd	0.73	2.4	17	nd	32	nd	3.0	nd	3.1	7.5	-5.2	-25.6
Ground water	Bore	22/11/2013 8:00	-38.5299	143.5653	30	7.1	15	216	nd	351	nd	nd	nd	nd	400	-4.7	-22.7
Ground water	Bore	22/11/2013 11:00	-38.4615	143.5989	16	2.0	6.1	38	nd	85	nd	nd	nd	28	50	-5.8	-30.8
Ground water	Bore	22/11/2013 13:00	-38.4819	143.5902	5.5	6.5	2.0	50	nd	99	nd	nd	nd	nd	45	-5.8	-29.6
Ground water	Bore	22/11/2013 15:30	-38.4914	143.5921	15	3.5	7.2	58	0.41	70	nd	nd	nd	nd	230	-5.5	-29.6
Ungau. Trib	Grab	16/12/2013 10:30	-38.4600	143.5969	4.1	1.7	8.2	62	nd	131	nd	nd	nd	15	20	-5.1	-26.8
Ungau. Trib	Grab	16/12/2013 11:00	-38.4761	143.5841	8.9	1.7	10	61	nd	122	nd	0.35	nd	7.5	75	-4.9	-24.2
Ungau. Trib	Grab	16/12/2013 11:25	-38.4789	143.6066	17	3.0	7.8	39	nd	75	nd	0.76	nd	3.6	115	-4.6	-21.2
Ungau. Trib	Grab	16/12/2013 11:45	-38.4819	143.5926	22	3.4	15	71	nd	143	nd	nd	nd	3.1	130	-4.0	-19.5
Gauged Trib	Grab	16/12/2013 12:20	-38.5032	143.5516	25	4.5	17	67	nd	159	0.25	2.5	nd	9.9	160	-4.6	-22.0
Gauged Trib	Grab	16/12/2013 13:20	-38.5348	143.5442	3.9	1.8	3.5	19	nd	34	nd	0.44	nd	3.7	35	-5.4	-24.2
Ungau. Trib	Grab	16/12/2013 14:15	-38.5512	143.5698	3.2	1.5	3.3	18	nd	33	nd	nd	nd	3.2	40	-5.5	-24.5
Ungau. Trib	Grab	16/12/2013 14:30	-38.5521	143.5677	4.0	1.6	3.3	19	nd	31	nd	2.1	nd	4.2	30	-5.5	-25.0
Ungau. Trib	Grab	16/12/2013 15:10	-38.5301	143.5651	1.4	1.2	4.3	24	nd	48	0.29	0.66	nd	3.0	15	-4.5	-22.1
Ungau. Trib	Grab	16/12/2013 15:30	-38.5224	143.5825	1.8	1.0	3.0	20	nd	39	nd	nd	nd	2.1	15	-4.9	-24.3
River	Grab	16/12/2013	-38.5294	143.6084	4.3	1.7	3.2	18	0.26	28	0.24	0.45	nd	4.1	50	-5.2	-23.2





**Supplement B. Details of bores used in the groundwater surface mapping for the Gellibrand River catchment. Highlighted bores (top of screens <40 m depth) were used in the sub-set of ‘water table’ groundwater surface mapping.**

Bore ID	Latitude	Longitude	Date completed	Total depth (m)	Elev. TOC (m AHD)	Elev. GL (m AHD)	Screen top (m)	Screen bottom (m)
47986	-38.4757	143.5941	22/09/82	296.0	174.2	173.6	182.0	187.0
48003	-38.4735	143.6199	12/07/87	381.4	207.0	206.1	275.0	278.0
56831	-38.4697	143.3411	30/03/77	377.0	86.0	85.3	272.0	278.5
64227	-38.4838	143.6525	14/08/72	459.0	157.3	156.5	421.2	445.0
64228	-38.4842	143.6526	10/12/72	378.0	159.0	158.1	362.7	378.0
67810	-38.4514	143.436	26/03/76	347.3	167.9	167.2	206.0	212.0
67827	-38.4354	143.4625	30/08/90	52.0	153.3	152.7	39.9	46.2
80229	-38.5839	143.397	1/07/85	161.0	107.2	106.4	90.6	96.9
80730	-38.5455	143.4578	31/12/79	217.0	122.3	122.2		
80732	-38.5359	143.5361	14/10/81	32.0	91.9	91.7	18.0	24.0
80733	-38.5317	143.4937	8/12/81	78.0	95.6	95.3	41.5	47.5
80734	-38.5444	143.4775	3/03/82	168.0	180.1	179.3	153.0	158.0
80735	-38.5361	143.5233	12/03/82	166.7	86.9	86.4	18.0	24.0
80737	-38.5535	143.4772	15/05/85	135.0	191.0	190.4	53.1	56.6
80739	-38.5606	143.4588	25/03/86	136.5	211.5	211.0	94.5	97.6
84749	-38.5137	143.4102	25/06/76	45.5	56.0	55.7	24.2	29.8
84751	-38.5236	143.4509	7/11/85	49.0	229.3	229.0	22.0	28.0
85785	-38.556	143.37	29/09/76	98.6	27.4	26.9		
85786	-38.5522	143.4096	22/04/82	227.0	71.3	70.9	58.0	64.0
85788	-38.5433	143.4222	18/05/82	54.0	56.3	56.0	24.0	36.0
85789	-38.5686	143.4226	5/06/85	165.5	107.3	106.7	76.4	79.6
85790	-38.5364	143.3948	18/07/85	117.5	52.2	51.5	51.2	56.3
85791	-38.5613	143.4401	26/02/86	192.5	167.2	166.2	130.8	133.9
85793	-38.5632	143.3923	7/05/86	173.5	54.9	54.8	19.8	37.8
85794	-38.5414	143.4421	10/04/86	168.0	74.4	73.1	62.8	65.8
108897	-38.5211	143.5766	2/03/81	86.0	99.1	98.7	22.0	34.0

108898	-38.5161	143.5772	15/10/81	272.0	82.8	82.5	46.0	52.0
108899	-38.5163	143.5774	6/05/81	34.0	83.6	82.5	26.0	32.0
108900	-38.5151	143.5392	21/07/81	100.0	64.6	64.3	73.0	91.0
108901	-38.5151	143.539	24/08/81	41.0	65.9	65.3	35.0	41.0
108902	-38.5155	143.5391	17/08/81	265.0	65.6	65.3	71.8	94.1
108903	-38.5164	143.539	7/09/81	101.0	64.6	64.3	76.0	81.3
108904	-38.5233	143.514	16/11/81	143.0	77.9	77.3	107.9	111.0
108905	-38.5307	143.5062	16/11/81	135.5	88.8	88.5	94.5	106.5
108906	-38.5233	143.5143	26/02/82	151.0	80.7	79.6	131.0	136.0
108907	-38.5116	143.5597	1/07/82	362.5	194.8	194.6	313.5	318.6
108909	-38.4914	143.5922	4/08/82	261.0	124.8	123.9	196.9	202.0
108910	-38.489	143.5705	20/09/82	271.0	101.3	100.2	134.9	140.1
108911	-38.4819	143.5901	1/09/83	243.5	119.1	118.7	100.5	202.9
108913	-38.4915	143.5921	11/10/84	152.0	124.4	124.0	139.6	144.8
108914	-38.5033	143.6141	13/02/85	238.5	191.4	190.5	207.5	213.8
108916	-38.5164	143.5771	1/01/81	14.9	82.0	81.8	13.9	14.9
108917	-38.5163	143.5772	1/01/81	15.0	82.4	82.2	14.0	15.0
108918	-38.5165	143.5775	1/01/81	15.3	82.4	82.0	14.3	15.3
108919	-38.5158	143.5756	1/01/81	16.6	82.2	82.0	15.6	16.6
108920	-38.5166	143.5735	1/01/81	18.0	83.2	83.0	17.0	18.0
108921	-38.5189	143.573	1/01/81	19.7	85.3	85.0	18.7	19.7
108922	-38.5191	143.5714	1/01/81	20.2	83.7	83.5	19.2	20.2
108924	-38.5285	143.6025	1/01/81	16.7	108.3	108.1	15.7	16.7
108925	-38.5299	143.5653	1/01/81	19.5	78.3	77.5	18.5	19.5
108927	-38.5161	143.5391	1/01/81	14.5	64.3	64.1	13.5	14.5
108928	-38.5158	143.5392	1/01/81	17.7	65.0	64.8	16.7	17.7
108929	-38.5249	143.5392	1/01/81	15.5	75.1	75.0	14.5	15.5
108931	-38.5239	143.5302	1/01/81	18.4	69.9	69.1	17.4	18.4
108932	-38.5235	143.5156	1/01/81	28.0	80.6	80.4	27.0	28.0
108933	-38.5171	143.5683	1/01/82	11.7	80.5	80.3	11.2	11.7
108934	-38.5182	143.5645	1/01/82	12.0	80.5	80.2	11.5	12.0
108935	-38.5217	143.5625	1/01/82	11.8	79.6	78.9	11.3	11.8

108936	-38.5096	143.5311	1/01/82	11.6	61.5	61.4	11.1	11.6
108937	-38.5137	143.5287	1/01/82	12.6	62.2	62.0	12.1	12.6
108938	-38.5156	143.5291	1/01/82	12.8	59.4	59.3	12.3	12.8
108939	-38.5149	143.527	1/01/82	12.4	61.0	61.0	11.9	12.4
108940	-38.5157	143.5267	1/01/82	11.8	60.4	60.2	11.3	11.8
108941	-38.5164	143.5255	1/01/82	11.8	60.2	59.1	11.3	11.8
108942	-38.5178	143.5236	1/01/82	11.7	59.9	59.6	11.2	11.7
108943	-38.5183	143.5195	1/01/82	15.5	59.8	59.7	15.0	15.5
108944	-38.5188	143.5166	1/01/82	8.4	59.5	59.3	7.9	8.4
108945	-38.519	143.5771	1/01/79	88.7	86.9	86.7		
108946	-38.5187	143.577	1/01/79	40.0	85.1	84.7	30.0	33.0
108947	-38.5199	143.5768	1/01/79	64.0	88.0	87.4	52.0	58.8
108949	-38.519	143.578	1/01/79	79.0	87.5	86.8	73.0	79.0
109552	-38.4515	143.4762	17/07/90	70.0	185.0	184.1	25.2	30.0
109553	-38.4515	143.4762	17/07/90	70.0	185.0	184.1	25.2	30.0
110737	-38.523	143.5897	1/01/79	42.6	101.5	101.1		
113468	-38.4971	143.4008	15/12/92	71.0	189.4	188.5	40.5	47.5
113706	-38.433	143.5923	20/01/93	90.0	244.3	243.5	83.5	88.0
113707	-38.4453	143.6126	26/01/93	61.5	251.3	250.2	35.0	47.0
114151	-38.5029	143.6614	10/03/93	212.0	173.4	172.8	144.0	147.0
114169	-38.4616	143.599	7/04/93	82.0	141.3	139.9	55.5	79.5
116489	-38.5089	143.5831	12/10/92	210.0	210.6	210.0	199.8	203.0
117591	-38.5249	143.34	1/04/88	5.0	165.6	165.4	3.0	5.0
117597	-38.5152	143.3258	1/04/88	5.0	152.1	151.1	3.0	5.0
117599	-38.5108	143.3257	1/04/88	5.0	126.3	125.6	3.0	5.0
117602	-38.5098	143.3283	1/04/88	5.0	104.9	104.0	3.0	5.0
117608	-38.5062	143.3455	1/04/88	5.0	171.7	171.6	3.0	5.0
117638	-38.4517	143.3298	1/04/88	5.0	148.3	147.4	3.0	5.0
117641	-38.4492	143.332	1/04/88	5.0	168.4	167.4	3.0	5.0
117644	-38.4412	143.3273	1/04/88	5.0	178.6	177.7	3.0	5.0