

## Monitoring Well Chemistry

This spreadsheet contains the results of chemical sampling of the monitoring wells

Well ID	Sample Number	Date	pH	Alk mg/L	Acidity mg/L	Fe mg/L	Mn mg/L	Al mg/L	S04 mg/L	TSS mg/L	Na mg/L	Spd. Cond. micromhos	TDS mg/L	Cl mg/L	F mg/L	TURB NTU	NH3 mg/L	NO3 mg/L	As mg/L	Ba mg/L
MW1	4007 601	12/11/1997	4.8	12	10.8	7.7(Fe2+)	0.852	1.57	<20	442		89	138	2.9	<.02	70	0.08	0.1	<.004	0.086
MW1	4233 680	6/15/1998	5	8.8	10.2	16.1	0.837	0.783	27.6	24	<10									
MW1	4233 700	7/30/1998	5.5	16.6	14	17	1.52	0.592	39.4	16	<10									
MW1	4233-723	8/27/1998	6	42	11	43.6	1.44	1.45	49	46	<10									
MW1	4211-341	9/23/1998	6.2	44	8.6	27.8	1.43	0.973	58	98	<10									
MW1	4211-357	10/26/1998	5.8	20	11.6	13	0.907	<.5	51.1	8	<10									
MW1	4211-389	11/23/1998	6	28	7.6	19.9	1.09	0.964	47	48.1	<10									
MW1	4215-609	1/28/1999	5.4	8.2	1.4	3.61	0.472	0.764	24	4	<10									
MW1	4211-405	3/24/1999	6.2	17.2	0	2.66	0.336	1.04	532	22	<10									
MW1	4211-426	4/13/1999	5.2	10.8	7	17.3	0.897	2.7	49.8	132.1	<10									
MW1	4211-522	6/7/1999	4.8	9	4	5.06	0.487	0.995	25	32	<10									
MW1	4211-581	7/8/1999	4.8	7.8	3.4	28.1	1.33	0.763	37.4	398	1.06	142.6		3	<.2	83.9	0.02	0.3	<.004	0.084
MW2	4007 602	12/11/1997	5.9	34	5.8	13.03(Fe2+)	1.19	0.289	38	166		129	72	4	<.2	52	0.06	<.04	<.004	0.063
MW2	4233 641	3/24/1998	6	38	0	25.9	1.81	0.635	53	58	1.19	215	170	7	<.02	58	0.12	<.04	<.004	0.061
MW2	4233 681	6/15/1998	6.2	34	0	36.4	1.17	<.5	30.3	<3	<10									
MW2	4233 699	7/30/1998	5.6	18.4	6.2	32.8	1.37	<.5	40.4	20	<10									
MW2	4233-722	8/27/1998	5.7	26	2.6	48.6	1.39	<.5	42.3	60	<10									
MW2	4211-340	9/23/1998	5.7	24	5.4	84.7	1.52	<.5	55	204	<10									
MW2	4211-356	10/26/1998	5.9	24	2.4	23.8	1.43	<.5	58.9	12	<10									
MW2	4211-388	11/23/1998	5.8	19.2	0	10.1	1.05	<.5	30	4	<10									
MW2	4215-608	1/28/1999	6.1	26	0	31.5	1.03	<.5	39	44	<10									
MW2	4211-404	3/24/1999	5.8	24	0	134	1.05	0.685	39	160	<10	109.3								
MW2	4211-425	4/13/1999	5.7	19	0	106	1.23	<.5	40.1	108	<10									
MW2	4211-521	6/7/1999	5.9	30	0	59.3	1.14	<.5	41	208	<10									
MW2	4211-580	7/8/1999	6.1	34	0	123	1.49	0.824	39.5	30	1.02	142.6	132	5	<.2	68.3	0.05	<.04	<.004	0.117
MW3	4007 603	12/11/1997	5.6	22	0	18.06(Fe2+)	1.42	<.2	35	34		136	166	6	<.2	14.4	0.09	<.04	<.004	0.054
MW3	4233 637	1/23/1998	5.6	19	14.8	3.49	1.75	2.06	52	48	1.19	153	104	4	<.2	14.3	0.03	<.04	<.004	0.139
MW3	4233 682	6/15/1998	6.1	30	0	4.04	1.58	<.5	31.1	<3	<10									
MW3	4233 698	7/30/1998	6.2	38	0	4.91	1.8	<.5	61.2	18	<10									
MW3	4233-721	8/27/1998	6	34	0	5.57	1.83	<.5	59.8	4	<10									
MW3	4211-339	9/23/1998	6.2	46	0	8.14	2.47	<.5	64.3	<3	<10									
MW3	4211-355	10/26/1998	6.1	40	0	6.33	2.66	0.585	70.6	10	<10									
MW3	4211-387	11/23/1998	6.2	42	0.6	22.1	2.53	0.779	65.9	60	<10									
MW3	4215-607	1/28/1999	6.1	34	1.4	8.07	2.73	0.773	71.7	24	<10									
MW3	4211-403	3/24/1999	5	10.6	4.8	24.6	3.48	2.7	95.4	34	<10	207								

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MW3	4211-424	4/13/1999	5.4	12.4	1.4	2.79	2.8	<.5	96.2	20	<10									
MW3	4211-520	6/7/1999	5.6	16.4	0	6	2.6	0.676	76.6	8	<10									
MW3	4211-579	7/8/1999	5.8	24	0	7.69	2.56	1.15	52.2	8	0.971	159.5	228	3	<.2	12.8	0.05	<.04	<.004	0.094
MW5	4007 604	12/11/1997	5.6	48	104	60.6(Fe2+)	12.5	<.2	214	932		609	586	6.6	<.2	87	0.62	<.04	<.004	0.013
MW5	4233 638	1/23/1998	5.6	42	98	74.8	19.8	5.07	377	206	21.1	811	646	7	<.02	71	0.73	<.04	<.004	0.069
MW5	4233 683	6/15/1998	2.8	0	2652	>300	84.8	8.66	5175.6	114	261									
MW5	4233 697	7/30/1998	2.9	0	2068	>300	89	14.1	4421.4	148	255									
MW5	4233-720	8/27/1998	3.1	0	1876	>300	93.6	19.8	4243.7	156	212									
MW5	4211-338	9/23/1998	3.2	0	1764	>300	103	23.7	3834.2	520	261									
MW5	4211-354	10/26/1998	3.6	0	904	>300	55.2	10.4	2349	14	119									
MW5	4211-386	11/23/1998	4	3	472	212	31.2	4.27	1191.1	52	49.2									
MW5	4215-606	1/28/1999	3.9	0	166	79.9	15.7	0.886	422	22	15.9									
MW5	4211-402	3/24/1999	2.7	0	1166	>300	74.1	23	2535.3	112	153	4190								
MW5	4211-423	4/13/1999	2.8	0	728	227	61.4	15.5	1452.3	10	107									
MW5	4211-519	6/7/1999	2.9	0	534	149	45.5	11.6	1279.6	<3	80.1									
MW5	4211-578	7/8/1999	2.7	0	1626	654	89	27.2	1487	92	159	4400	5270	12	<.2	50.3	0.78	<.04	0.0055	0.101
MW6	4007 605	12/11/1997	4.8	13.6		.98(Fe2+)	0.44	<.2	<20	254		39	42	2.5	<.2	77	0.06	0.12	<.004	0.054
MW6	4233 642	4/2/1998	6	26	5.6	15.4	1.25	7.89	43	400	0.416	51	60	2	<.2	12.8	0.04	<.04	<.004	0.24
MW6	4233 684	6/15/1998	5	9	5.4	6.17	0.456	3.21	<20	92	<10									
MW6	4233 702	7/30/1998	5.4	12.4	4.8	8.87	0.363	<.5	<20	36	<10									
MW6	4233-725	8/27/1998	5	11.2	2.4	10.3	0.252	1.96	<20	66	<10									
MW6	4211-343	9/23/1998	5.1	10.8	1.6	8.09	0.241	0.975	22	102	<10									
MW6	4211-359	10/26/1998	4.5	6.8	5.2	10.3	0.477	2.41	23	12	<10									
MW6	4211-391	11/23/1998	6.1	24	1	17.7	0.509	2.13	24.7	100	<10									
MW6	4215-611	1/28/1999	4.5	9.2	11.4	9.3	0.635	4.61	27.9	116	<10									
MW6	4211-407	3/24/1999	4.7	7.8	5.6	13.2	0.485	5.41	<20	292	<10									
MW6	4211-428	4/13/1999	4.6	6.8	5	3.03	0.28	1.78	<20	16	<10									
MW6	4211-524	6/7/1999	4.6	7.6	1.8	1.55	0.367	0.866	28.3	30	<10									
MW6	4211-583	7/8/1999	4.9	8.4	5.6	6.16	0.522	2.94	<20	66	0.983	55.2	92	2	<.2	31.6	<.02	0.12	<.004	0.098
MW7	4007 606	12/11/1997	4.7	14.8	222	65.65(Fe2+)	14.1	1.84	341	134		855	844	6.5	0.28	38	0.31	<0.04	<.004	0.013
MW7	4233 685	6/15/1998	5.3	24	166	123	15	5.44	408	52	<10									
MW7	4233 701	7/30/1998	4.5	10.2	134	54	13.2	2.74	363	76	<10									
MW7	4233-724	8/27/1998	5	20	210	91.5	14.8	13.9	471.5	216	<10									
MW7	4211-342	9/23/1998	5.1	19.2	188	88	15.8	3.07	394	412	<10									

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MW7	4211-358	10/26/1998	5.4	30	268	147	15	12	602.8	20	<10									
MW7	4211-390	11/23/1998	5.5	28	236	105	14.2	4.14	542.2	92	<10									
MW7	4215-610	1/28/1999	5.2	22	202	72.2	12.5	6.41	411.8	1448	<10									
MW7	4211-406	3/24/1999	4.7	11.2	86	39.2	11.8	4.05	204.9	92	<10									
MW7	4211-427	4/13/1999	5.2	20	202	50.4	12.1	3.22	383.9	32	<10									
MW7	4211-523	6/7/1999	4.9	16.4	156	47.3	12.4	3.99	391.8	68	<10									
MW7	4211-582	7/8/1999	4.8	13.8	132	157	20.4	9.38	184.3	98	4.57	652	708	9	0.55	35.1	0.22	<.04	0.00759	0.331
MW8	4007 607	12/11/1997	4.9	20	306	142(Fe2+)	43.2	1.14	536	6710		1423	70	4.9	0.71	113	0.47	<.04	<.004	<.01
MW8	4233 686	6/15/1998	5.4	32	304	111	40.6	6.16	1207	44	<10									
MW8	4233 696	7/30/1998	5.3	22	288	126	32.8	8.05	42.7	43.9	<10									
MW8	4233-719	8/27/1998	5.5	38	280	115	26.4	6.66	828.1	220	<10									
MW8	4211-337	9/23/1998	5.6	42	260	138	30.7	3.75	704	484	<10									
MW8	4211-353	10/26/1998	5.7	48	266	120	26.3	3.56	733.7	24	<10									
MW8	4211-385	11/23/1998	5.6	42	266	122	26.4	3.73	696.5	824	<10									
MW8	4215-605	1/28/1999	4.9	19	290	118	33	17.7	857.8	152	<10									
MW8	4211-401	3/24/1999	5	24	204	103	42.6	12.4	429	156	<10	1765								
MW8	4211-422	4/13/1999	4.5	13.6	246	76.5	37.7	20.8	991.7	98	<10									
MW8	4211-518	6/7/1999	5.2	28	284	111	40.4	10.4	969.9	52	<10									
MW8	4211-577	7/8/1999	5.3	32	258	164	49.2	19.7	602.4	752	4.18	1559	1394	6	1.1	137	0.37	<.04	0.0286	0.433
MW9	4007 608	12/11/1997	5.3	36	544	276(Fe2+)	48.9	0.882	790	100		1750	2078	6.7	0.39	38	0.59	<.04	0.0047	<.01
MW9	4233 687	6/15/1998	5.5	36	434	202	39.9	1.25	1105	<3	<10									
MW9	4233 695	7/30/1998	4.6	11	408	204	38.7	1.94	948.6	48.1	<10									
MW9	4233-718	8/27/1998	5.4	38	430	204	39	9.3	993.9	90	<10									
MW9	4211-336	9/23/1998	5.4	34	388	186	42.5	3.43	1017	70	<10									
MW9	4211-352	10/26/1998	5.3	36	336	165	36.4	2.54	957.4	18	<10									
MW9	4211-384	11/23/1998	5.6	44	376	181	35	2.15	879.2	38	<10									
MW9	4215-604	1/28/1999	5.4	32	464	188	44.2	3.9	1037.7	42	<10									
MW9	4211-400	3/24/1999	5.2	32	340	215	47.7	3.18	865	12	<10	1753								
MW9	4211-421	4/13/1999	5.3	34	408	220	46	2.04	957.2	28	<10									
MW9	4211-517	6/7/1999	5.5	38	400	201	39.1	1.73	978.7	20	<10									
MW9	4211-576	7/8/1999	5.2	30	388	256	49.4	1.65	755.2	128	4.92	1646	1904	7	0.38	41.5	0.53	<.04	0.00675	0.012

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MW1	4007 601	12/11/1997	<.01	6.89	<.05	0.01	0.0904	3.67	<.001	<.05	<.007	0.056
MW1	4233 680	6/15/1998										
MW1	4233 700	7/30/1998										
MW1	4233-723	8/27/1998										
MW1	4211-341	9/23/1998										
MW1	4211-357	10/26/1998										
MW1	4211-389	11/23/1998										
MW1	4215-609	1/28/1999										
MW1	4211-405	3/24/1999										
MW1	4211-426	4/13/1999										
MW1	4211-522	6/7/1999										
MW1	4211-581	7/8/1999	<.01	13.4	<.05	<.01	0.002	6.79	<.001	<.05	<.007	0.033
MW2	4007 602	12/11/1997	<.01	9.1	<.05	<.01	0.0168	5.35	<.001	<.05	<.007	<.01
MW2	4233 641	3/24/1998	<.01	17	<.05	<.01	<.001	8.71	<.001	<.05	<.007	0.048
MW2	4233 681	6/15/1998										
MW2	4233 699	7/30/1998										
MW2	4233-722	8/27/1998										
MW2	4211-340	9/23/1998										
MW2	4211-356	10/26/1998										
MW2	4211-388	11/23/1998										
MW2	4215-608	1/28/1999										
MW2	4211-404	3/24/1999										0.048
MW2	4211-425	4/13/1999										
MW2	4211-521	6/7/1999										
MW2	4211-580	7/8/1999	<.01	13.8	<.05	<.01	0.0056	6.17	<.001	<.05	<.007	0.026
MW3	4007 603	12/11/1997	<.01	14.1	<.05	<.01	0.0073	7.17	<.001	<.05	<.007	<.01
MW3	4233 637	1/23/1998	<.01	11.1	<.05	<.01	<.001	6.61	<.001	0.098	<.007	0.121
MW3	4233 682	6/15/1998										
MW3	4233 698	7/30/1998										
MW3	4233-721	8/27/1998										
MW3	4211-339	9/23/1998										
MW3	4211-355	10/26/1998										
MW3	4211-387	11/23/1998										
MW3	4215-607	1/28/1999										
MW3	4211-403	3/24/1999										0.277

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MW3	4211-424	4/13/1999										
MW3	4211-520	6/7/1999										
MW3	4211-579	7/8/1999	<.01	13.1	<.05	0.021	0.004	6.79	<.001	0.07	<.007	0.097
MW5	4007 604	12/11/1997	0.01	32.6	<.05	<.01	0.0073	26.8	<.001	0.232	<.007	0.25
MW5	4233 638	1/23/1998	0.011	44.2	<.05	<.01	<.001	39.3	<.001	0.308	<.007	0.467
MW5	4233 683	6/15/1998										
MW5	4233 697	7/30/1998										
MW5	4233-720	8/27/1998										
MW5	4211-338	9/23/1998										
MW5	4211-354	10/26/1998										
MW5	4211-386	11/23/1998										
MW5	4215-606	1/28/1999										
MW5	4211-402	3/24/1999										4.9
MW5	4211-423	4/13/1999										
MW5	4211-519	6/7/1999										
MW5	4211-578	7/8/1999	0.019	190	<.05	0.069	0.0249	213	<.001	1.44	<.007	4.5
MW6	4007 605	12/11/1997	<.01	2.14	<.05	<.01	0.0081	1.42	<.001	<.05	<.007	<.01
MW6	4233 642	4/2/1998	<.01	3.39	<.05	0.016	<.001	2.82	<.001	<.05	<.007	0.162
MW6	4233 684	6/15/1998										
MW6	4233 702	7/30/1998										
MW6	4233-725	8/27/1998										
MW6	4211-343	9/23/1998										
MW6	4211-359	10/26/1998										
MW6	4211-391	11/23/1998										
MW6	4215-611	1/28/1999										
MW6	4211-407	3/24/1999										
MW6	4211-428	4/13/1999										
MW6	4211-524	6/7/1999										
MW6	4211-583	7/8/1999	<.01	2.47	<.05	<.01	0.00408	2.01	<.001	<.05	<.007	0.028
MW7	4007 606	12/11/1997	<.01	28.1	<.05	<.01	0.0138	30	<.001	0.325	<.007	0.568
MW7	4233 685	6/15/1998										
MW7	4233 701	7/30/1998										
MW7	4233-724	8/27/1998										
MW7	4211-342	9/23/1998										

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MW7	4211-358	10/26/1998										
MW7	4211-390	11/23/1998										
MW7	4215-610	1/28/1999										
MW7	4211-406	3/24/1999										
MW7	4211-427	4/13/1999										
MW7	4211-523	6/7/1999										
MW7	4211-582	7/8/1999	0.02	64.6	<.05	<.01	0.0416	52.5	<.001	0.481	<.007	0.913
MW8	4007 607	12/11/1997	<.01	101	<.05	<.01	0.0095	105	<.001	0.752	<.007	0.903
MW8	4233 686	6/15/1998										
MW8	4233 696	7/30/1998										
MW8	4233-719	8/27/1998										
MW8	4211-337	9/23/1998										
MW8	4211-353	10/26/1998										
MW8	4211-385	11/23/1998										
MW8	4215-605	1/28/1999										
MW8	4211-401	3/24/1999										1.19
MW8	4211-422	4/13/1999										
MW8	4211-518	6/7/1999										
MW8	4211-577	7/8/1999	<.01	148	<.05	0.067	0.0347	110	<.001	0.699	<.007	1.02
MW9	4007 608	12/11/1997	<.01	72	<.05	<.01	0.0099	118	<.001	1	<.007	1.56
MW9	4233 687	6/15/1998										
MW9	4233 695	7/30/1998										
MW9	4233-718	8/27/1998										
MW9	4211-336	9/23/1998										
MW9	4211-352	10/26/1998										
MW9	4211-384	11/23/1998										
MW9	4215-604	1/28/1999										
MW9	4211-400	3/24/1999										1.57
MW9	4211-421	4/13/1999										
MW9	4211-517	6/7/1999										
MW9	4211-576	7/8/1999	<.01	74	<.05	<.01	0.00414	98.9	<.001	0.791	<.007	12.5