

APPENDIX D

Potential Changes in Groundwater Levels at Wells with Water Supply Uses

Table D.1. Potential changes in groundwater levels at wells with water supply uses.

BDR Well ID	NAD 1983 UTM 13N		Well Location in Model			Depth of Well (ft)	Well Elevation (ft)	OSE File No.	Use	Aquifer	Scenario 2 Maximum Drawdown (ft)	Scenario 3 Maximum Drawdown (ft)	Scenario 4 Maximum Drawdown (ft)
	Easting (m)	Northing (m)	Row	Column	Layer								
73	260350	3913856	52	106	10	3535	7300	B-00516	MIN	Jmw	254.8	244.7	367.4
143	252142	3916113	77	74	10	940	7010	B-1778	DOM	Jmw	191.6	202.2	237.3
1	262362	3912136.2	50	108	10	4207	8209			Jmw	143.3	165.3	205.7
137	250527	3920058	71	65	10	1553	7133	B-00993-S	MIN	Jmw	110.1	349.9	375.8
136	249310.1	3920610.5	73	61	10	1398	7077	B-00993	MIN	Jmw	65.8	419.5	446.8
119	249502.1	3914856	84	72	10	280	6867			Jmw	51.2	125.2	139.3
109	249372	3915145	84	71	10	303	6890	B-01104	DOM	Jmw	47.1	125.7	138.4
106	248512	3916669	83	67	10	390	6900	B-01190	STK	Qal/Jmw	45.4	136.4	148.3
111	247479	3915109	87	68	10	478	6847	B-01115	DOM	Jmw	29.1	63.9	68.0
17	252103	3916155	77	74	8	715	7041	B 01544	DOM	Kd	12.4	53.3	64.9
129	258241.4	3925189.3	32	70	8	830	7201			Kd	5.2	19.3	24.4
128	258241.4	3925189.3	32	70	7	1320	7201			Km	2.1	326.0	326.0
130	257531.2	3924423.1	32	70	7	1320	7247			Km	2.1	326.0	326.0
67	260736	3913769.8	50	107	7	2000	7352			Km	0.8	8.8	9.6
72	260727.7	3913778.1	50	107	7	2000	7349			Km	0.8	8.8	9.6
107	250096.7	3916461.4	80	70	7	155	6942			Km	0.2	86.8	86.8
101	252287	3912456	84	90	7		7267	B-00997	MUL	Km	0.0	102.7	102.7
10	254510.3	3916097.2	71	81	6		7174			Kg	57.3	30.4	58.4
146	257834	3916765	48	99	6	1420	7170	B1786 Exp	EXP	Kg	53.7	48.3	54.0
16	254295	3915909	73	81	6	320	7152	B 01084	STK	Kg	32.6	31.5	37.6
32	258063	3913591	68	105	6	1150	7123	B 01442 EXP L-2	EXP	Kg	4.2	454.0	454.2
7	258514.1	3917001.6	42	101	5	192.3	7198			Kmf	8.6	62.9	63.1
19	255825	3913453	76	102	5		7037	B 00557	PUB	Qal	8.1	49.8	50.2
20	257901.8	3914231.9	66	104	5	157.3	7103			Kmf	6.9	229.3	229.6
22	257866	3914204	66	104	5	476	7103	B 01085	IRR	Kpl	6.9	229.3	229.6
33	258355	3913491	67	105	5	68	7152	B 00544	SAN	Qal	3.5	250.3	250.5
25	257845	3913200	70	105	5	620	7136	B 01442	EXP	Kpl	3.3	222.7	222.9
8	259531.5	3915409.5	46	105	5		7185			Kmf	2.5	97.0	97.2
9	259531.5	3915409.5	46	105	5	200	7185			Kmf	2.5	97.0	97.2
4	260080.1	3919137.6	35	99	5	400	7162			Kmf	1.7	25.2	25.3
99	256604	3912429	76	105	5	300	7080	RG-43456	STK	Kmf	1.6	112.1	112.4
5	260480.2	3918556.4	35	102	5	394	7231	RG 33107 EXPL	EXP/DOM	Kmf, Kpl	1.5	32.6	32.8
37	259448	3913362	62	106	5		7247	B 00736	DOM	Qal	1.4	234.9	235.0
38	259448	3913362	62	106	5	80	7247	B 00737	DOM	Qal	1.4	234.9	235.0
75	259881.5	3912990	61	106	5	150	7303			Kmf	1.4	239.2	239.3
29	259385.7	3913592	60	106	5	100	7224			Qal	1.4	248.4	248.6
56	259898.1	3913126.6	60	106	5	200	7297			Kmf	1.4	248.4	248.6
57	259898.1	3913128.6	60	106	5	140	7297			Kmf	1.4	248.4	248.6
61	259898.1	3913131	60	106	5	120	7297			Kmf	1.4	248.4	248.6
62	259898.1	3913131	60	106	5	200	7297			Kmf	1.4	248.4	248.6
35	259248	3913362	63	106	5	73	7224	B 00734	DOM	Qal	1.4	234.9	235.0
36	259248	3913362	63	106	5	65	7224	B 00735	DOM	Qal	1.4	234.9	235.0
79	259632.6	3912981.7	63	106	5	21	7287			Qal	1.4	234.9	235.0

Table D.1. Potential changes in groundwater levels at wells with water supply uses.

BDR Well ID	NAD 1983 UTM 13N		Well Location in Model			Depth of Well (ft)	Well Elevation (ft)	OSE File No.	Use	Aquifer	Scenario 2 Maximum Drawdown (ft)	Scenario 3 Maximum Drawdown (ft)	Scenario 4 Maximum Drawdown (ft)
	Easting (m)	Northing (m)	Row	Column	Layer								
85	259733	3912847	63	106	5	230	7300	B-00906	DOM	Kmf,Qal	1.4	234.9	235.0
28	258857.4	3913552.2	64	106	5	79	7178			Qal	1.4	238.9	239.0
92	259508.2	3912990	64	106	5	57.5	7277			Kmf	1.4	238.9	239.0
63	260039.1	3913371.6	58	106	5	500	7280			Kmf	1.4	198.7	198.8
31	259048.8	3913331.9	65	106	5	92	7205			Kmf	1.4	247.9	248.1
96	259431	3912957	65	106	5	80	7274	B-00738	DOM	Qal	1.4	247.9	248.1
58	260321.2	3913363.3	56	106	5	250	7316			Kmf	1.3	165.6	165.8
64	260312.9	3913363.3	56	106	5	250	7316			Kmf	1.3	165.6	165.8
65	260312.9	3913363.3	56	106	5		7316			Kmf	1.3	165.6	165.8
26	258686.9	3913537.5	66	106	5		7172			Kmf	1.3	268.8	268.9
27	258686.9	3913396.5	66	106	5	305	7175			Kmf	1.3	268.8	268.9
30	258867.2	3913340.1	66	106	5		7185			Qal	1.3	268.8	268.9
90	259251	3913006.6	66	106	5	336	7254			Kpl	1.3	268.8	268.9
91	259251	3913006.6	66	106	5	200	7254			Kmf	1.3	268.8	268.9
93	259231	3912957	66	106	5	703	7251	B-00428 S	MDW	Kpl	1.3	268.8	268.9
94	259332	3912858	66	106	5	185	7270	B-01185	DOM	Kmf	1.3	268.8	268.9
95	259231	3912957	66	106	5	707	7251	B-00385	EXP	Kpl	1.3	268.8	268.9
54	260321.2	3913496	55	106	5	prob.60	7310			Qal	1.3	154.6	154.7
34	258652	3913380	67	106	5	300	7175	B 00815	DOM	Kmf	1.3	269.9	270.1
53	260321.2	3913786.4	53	106	5	44	7303			Qal	1.3	136.8	137.0
55	260321.2	3913786.4	53	106	5	prob.60	7303			Qal	1.3	136.8	137.0
88	258846.4	3912971	68	106	5	40	7215			Kmf,Qal	1.3	221.0	221.2
89	258848.9	3912971	68	106	5	180	7215			Kmf	1.3	221.0	221.2
45	260329.5	3913919.1	52	106	5	160	7290			Kmf	1.3	129.9	130.0
46	260329.5	3913919.1	52	106	5	160	7290			Kmf	1.3	129.9	130.0
69	260478.8	3913769.8	52	106	5	32.5	7326			Qal	1.3	129.9	130.0
41	260055.7	3914201.1	51	106	5	285	7257			Kmf	1.3	124.2	124.3
42	260055.7	3914201.1	51	106	5	250	7257			Kmf	1.3	124.2	124.3
43	260329.5	3914201.1	50	106	5	60	7277			Qal	1.3	119.5	119.6
44	260329.5	3914201.1	50	106	5	65	7277			Qal	1.3	119.5	119.6
39	260072.3	3914591.1	49	106	5	63	7257			Kmf	1.2	115.7	115.8
40	260329.5	3914333.9	49	106	5	65	7274			Qal	1.2	115.7	115.8
97	258812	3912368	70	106	5		7261		STK	Kmf	1.2	157.9	158.1
48	260877	3914317.3	45	106	5		7323			Kmf	1.2	96.7	96.8
23	256194	3912240	77	105	5	32	7070	B 00415 O-3	DOM	Qal	1.1	65.3	65.6
24	256194	3912240	77	105	5	32	7070	B 00415 O-3	DOM	Qal	1.1	65.3	65.6
98	256355.8	3912417.6	77	105	5		7070			Kmf	1.1	65.3	65.6
47	261109.5	3914516.1	42	106	5	245	7425	B 01429	DOM	Kmf	1.1	76.7	76.8
66	260736	3913769.8	50	107	5	800	7352			Kpl	0.4	64.1	64.1
68	260736	3913769.8	50	107	5		7352			Kpl	0.4	64.1	64.1
70	260453.9	3913496	54	107	5	47.5	7326			Qal	0.4	75.1	75.2
59	260304.6	3913122.7	57	107	5	46	7362			Qal	0.4	87.2	87.2
60	260304.6	3913122.7	57	107	5		7362			Qal	0.4	87.2	87.2

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	Easting (m)	Northing (m)	Row	Column	Layer								
74	260251	3913154	58	107	5	520	7349	B-00524	DOM	Kpl?	0.4	91.2	91.3
83	260006	3912990	60	107	5		7313			Kpl	0.3	94.5	94.6
76	259889.8	3912699.6	63	107	5	120	7339			Kmf,Qal	0.3	101.0	101.0
77	259889.8	3912699.6	63	107	5	250	7339			Kmf	0.3	101.0	101.0
78	259889.8	3912699.6	63	107	5		7339			Kpl	0.3	101.0	101.0
80	259881.5	3912699.6	63	107	5	35	7339			Kmf	0.3	101.0	101.0
81	259881.5	3912699.6	63	107	5		7339			Kmf	0.3	101.0	101.0
82	259997.7	3912716.2	63	107	5	325	7392	B-00428	MDW	Kpl,Kmf	0.3	101.0	101.0
131	260782.9	3922629.1	32	82	5	50	7021			Qal	0.3	7.4	7.5
132	260782.9	3922629.1	32	82	5	230	7021			Kpl	0.3	7.4	7.5
133	260782.9	3922629.1	32	82	5	260	7021			Kmf	0.3	7.4	7.5
84	259920	3912641	64	107	5	420	7349	B-00839	STK	Kmf	0.3	103.7	103.7
87	259818	3912539	65	107	5	210	7402	B-00829	DOM	Kmf,Qal	0.3	98.4	98.5
100	255202	3911899	80	104	5	210	7070	B-01086	STK	Kmf	0.2	23.1	23.4
86	259618	3912339	67	107	5		7333	B-00729	STK	Kmf	0.2	85.0	85.1
102	255740.2	3910867.1	81	105	5	600	7169			Kpl	0.2	16.8	17.0
103	255791.7	3910857.9	81	105	5	500	7169			Kpl	0.2	16.8	17.0
104	255750	3910641	81	105	5	320	7192	RG-43457	DOM	Kmf	0.2	16.8	17.0
123	263316.3	3924150	31	88	5		6913			Kpl	0.1	8.6	8.6
105	255937	3910028	82	106	5		7402	B-01046	PUB	Tb	0.1	6.4	6.4
120	251266.1	3914846.1	81	75	5	80	6913		STK	Qal	0.1	0.2	0.3
121	251266.1	3914846.1	81	75	5	80	6913		EXP	Qal	0.1	0.2	0.3
2	262181	3911688.6	55	108	5	>1980	8304				0.1	22.6	22.7
127	260941.7	3926787.1	30	72	5		6972			Kmf,Kpu	0.0	4.7	4.7
3	265362.3	3910526.5	42	109	5	~1500	8520				0.0	1.4	1.4
124	255438.2	3927730.8	32	60	5		7133			Kcda	0.0	0.1	0.1
126	255438.2	3927730.8	32	60	5		7133			Kcda	0.0	0.1	0.1

Note:

Use: DOM-Domestic; EXP-Exploration; IRR-Irrigation; MDW-Community type use; MIN-Mining; MUL-Multiple domestic households; PUB-Public supply; SAN-Sanitary in conjunction with a commercial use; STK-Livestock watering. Aquifer: Jmw-Westwater Canyon Member; Kcda-Dalton Sandstone Member of the Crevasse Canyon Formation; Kd-Dakota aquifer; Kg-Gallup aquifer; Km-Mancos Shale; Kmf-Menefee Formation; Kpl-Point Lookout Sandstone; Kpu-Upper Point Lookout Sandstone; Qal-Quaternary alluvium; Tb-Basalt and andesite flows. Depth of Well: "prob.60" indicates probably 60 ft; ">1980" indicates deeper than 1980 ft; "~1500" indicates about 1500 ft.