

Appendix 4
2006 Ground Water Quality Data
Rose Creek Drainage

Table 1 Ground Water Routine Parameters

STATION	DATE	ALK-T mg/L	COND-L µS/cm	HARD mg/L	SO4-D mg/L	TEMP °C	PH-F	PH-L	WL (m below casing)
BH1	05-Jun-06	142	389	200	51.3	7.1	6.19	7.37	3.18
BH1	18-Sep-06	152	341	175	50.5	4.2	5.64	6.84	3.5
BH12A	18-Sep-06	188	917	565	307	3.6	7.51	7.62	2.65
BH12B	05-Jun-06	230	2490	1620	133	3.8	7.64	7.5	3.43
BH12B	18-Sep-06	187	871	506	285	4.3	7.27	7.67	2.62
BH13B	18-Sep-06	93.5	1330	819	584	4.3	7.28	7.45	3.21
BH14A	05-Jun-06	411	3700	2750	201	2.9	7.4	7.65	4
BH14A	18-Sep-06	422	3730	2430	1920	5.7	6.96	7.58	4.19
BH14B	05-Jun-06	393	3440	2170	182	3.7	7.6	7.77	4.17
BH14B	18-Sep-06	441	3510	2100	1760	7.8	7.12	7.7	4.48
BH2	05-Jun-06	91.8	767	415	23	2.2	5.88	6.83	4.62
BH2	18-Sep-06	117	399	189	94.6	4.9	5.81	6.81	4.93
BH4	05-Jun-06	130	432	222	261	1.4	5.52	7.04	2.35
BH4	18-Sep-06	103	387	226	108	4.8	5.63	6.68	2.54
P01-01A	08-Jun-06	250	1360	759	505	5.9	7.31	7.96	3.93
P01-01A	22-Sep-06	256	1510	850	617	3.4	7.86	7.84	3.88
P01-01B	08-Jun-06	242	1070	601	289	5	7.35	8.02	3.65
P01-01B	22-Sep-06	246	1110	588	367	3.2	7.93	8.02	3.78
P01-02A	09-Jun-06	215	621	324	124	4.9	7.7	8.14	0.85
P01-02A	22-Sep-06	234	628	333	124	4.7	7.4	8.17	2.28
P01-02B	09-Jun-06	185	495	263	94.6	4.8	7.64	8.15	2.43
P01-02B	22-Sep-06	180	507	262	94.4	4.1	7.4	8.17	0.72
P01-03	21-Sep-06	358	2620	1540	1570	6.8	6.73	7.43	4.32
P01-11	09-Jun-06	334	2010	1120	941	4.7	7.15	7.8	1.08
P01-11	21-Sep-06	305	2010	1000	983	6	6.56	7.69	1.12
P96-6	05-Jun-06	432	1210	698	298	1.5	6.78	6.72	9.82
P96-6	18-Sep-06	279	900	537	268	2.7	6.2	7.24	12.74
P96-9A	07-Jun-06	443	2550	1690	1400	7.2	6.86	7.74	5.35
P96-9A	19-Sep-06	509	3070	2250	1700	7.5	6.72	7.56	5.74
P96-7	05-Jun-06	256	2540	1600	1220	6.3	7.33	7.55	8.5
P96-7	20-Sep-06	198	2750	1740	1760	3	5.66	7.74	6.21
P96-8A	22-Sep-06	253	6410	4670	2980	8.8	< 6.5	6.79	2.87
P96-8B	22-Sep-06	126	6100	4280	3220	9.3	< 6.5	6.69	2.97
S1A	05-Jun-06	203	6030	4490	495	5.1	7.12	6.49	3.91
S1A	20-Sep-06	218	5930	4510	4990	2.8	6.02	6.85	4.3
S1B	05-Jun-06	161	1420	744	585	4.4	7.45	7.12	3.53
S1B	20-Sep-06	167	1360	818	471	3.3	6.62	7.18	3.86
S2A	06-Jun-06	210	5930	4430	4650	5.5	6.06	7.09	4.4
S2A	20-Sep-06	216	5840	4780	6280	4.1	6.01	6.77	4.64
S2B	06-Jun-06	150	4400	3420	3070	5.8	6.62	6.99	4.48
S2B	20-Sep-06	199	4330	3110	3230	3.2	6.38	6.72	4.89
S3	05-Jun-06	211	6620	4960	535	2.7	6.89	6.48	2.46

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S3	20-Sep-06	206	6280	5200	5080	4.7	5.85	6.65	1.96
TH86-17	06-Jun-06	73.8	166	85.6	13.6	2.5	7.23	7.82	7
TH86-17	20-Sep-06	86.4	170	86.3	14.7	6.3	7.08	7.69	8.24
V34	07-Jun-06	483	844	504	61.4	812	7.7	8.06	6.46
V34	19-Sep-06	460	863	534	71.6	4.4	7.3	8.05	6.31
V35	07-Jun-06	643	2800	1910	1480	6.4	7.35	7.84	8.88
V35	18-Sep-06	655	2940	2230	1480	3.3	7.01	7.72	8.42
V36	07-Jun-06	443	1520	960	558	4.7	7.18	7.84	8.81
V36	19-Sep-06	425	1520	1020	530	3.1	7.42	7.72	9.31
V37	07-Jun-06	450	785	427	71.7	3.8	7.78	8.19	9.05
V37	19-Sep-06	402	770	469	66.2	3.8	7.62	8.05	8.72
X16A	08-Jun-06	151	322	184	25.3	3.2	7.58	8.09	3.5
X16A	21-Sep-06	165	326	179	26.2	3.6	6.98	8.08	3.66
X16B	08-Jun-06	208	402	236	22.1	4.4	7.8	8.2	3.86
X16B	21-Sep-06	204	397	239	28.7	6	7.5	8.12	3.72
X17A	08-Jun-06	289	557	329	43	2.8	7.46	8.15	2.21
X17A	22-Sep-06	233	446	237	30	4.1	8.43	8.2	2.24
X17B	08-Jun-06	454	894	474	111	4.2	6.98	7.96	2.75
X17B	22-Sep-06	274	537	278	41.6	4	8.33	8.15	2.79
X18A	08-Jun-06	252	1390	817	521	6.7	7.25	7.99	4.53
X18A	22-Sep-06	251	1380	734	592	3.6	8.55	7.99	4.64
X18B	08-Jun-06	250	1400	820	539	4.5	7.05	8	4.29
X18B	22-Sep-06	253	1410	710	604	3.3	8.2	8.02	4.41
X21A-96	23-Sep-06	12.8	12500	4930	13800	4.4	6.5	3.87	4.9
X21B-96	13-Jun-06	165	1360	650	590	4.3	6.97	7.37	5.04
X21B-96	23-Sep-06	28	1830	777	1100	3.5	6.8	6.47	4.96
X21C-96	13-Jun-06	195	335	201	10.7	5.4	7.89	8.23	5.09
X21C-96	23-Sep-06	189	337	169	11.9	3.9	7.1	7.97	5.01
X24A-96	09-Jun-06	347	2258	2290	1140	4.6	6.62	7.58	5.21
X24A-96	21-Sep-06	355	2570	2510	1400	7	6.79	7.56	5.48
X24A-96	01-Nov-06	363	2500	2430	1400	0	6.54	7.09	4.71
	average	355	2443	2410	1313	3.9	6.65	7.41	5.13
	minimum	347	2258	2290	1140	0	6.54	7.09	4.71
	maximum	363	2570	2510	1400	7	6.79	7.58	5.48
	N > DL	3	3	3	3	3	3	3	3
	median	355	2500	2430	1400	4.6	6.62	7.56	5.21
X24D-96	09-Jun-06	399	2825	2710	1410	5.5	6.56	7.58	5.01
X24D-96	02-Aug-06	356	2758	2780	1650	3.9	6.42	7.44	5.04
X24D-96	21-Sep-06	394	2900	2800	1710	6.6	6.29	7.37	5.27
X24D-96	01-Nov-06	396	170	2850	1700	0	6.57	7.13	4.52
	average	386	2163	2785	1618	4.0	6.46	7.38	4.96
	minimum	356	170	2710	1410	0	6.29	7.13	4.52

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	maximum	399	2900	2850	1710	6.6	6.57	7.58	5.27
	N > DL	4	4	4	4	4	4	4	4
	median	395	2791.5	2790	1675	4.7	6.49	7.41	5.03
X25A-96	09-Jun-06	246	593	977	260	3.9	7.2	7.92	4.47
X25A-96	02-Aug-06	250	983	983	289	5.4	7.33	7.91	4.52
X25A-96	21-Sep-06	258	1073	967	326	3.3	7.75	7.86	4.76
X25A-96	01-Nov-06	271	600	967	296	0	7.32	7.6	3.84
	average	256	812	974	293	3.2	7.40	7.82	4.40
	minimum	246	593	967	260	0	7.2	7.6	3.84
	maximum	271	1073	983	326	5.4	7.75	7.92	4.76
	N > DL	4	4	4	4	4	4	4	4
	median	254	791.5	972	292.5	3.6	7.3	7.89	4.50
X25B-96	09-Jun-06	269	1110	1080	274	4.6	7.5	8.03	4.29
X25B-96	02-Aug-06	257	1080	1110	359	4.2	7.41	8.03	4.33
X25B-96	21-Sep-06	269	895	1090	388	4.1	7.35	8.02	4.54
X25B-96	01-Nov-06	278	910	1080	363	0.6	7.56	7.9	3.74
	average	268	999	1090	346	3.4	7.46	8.00	4.23
	minimum	257	895	1080	274	0.6	7.35	7.9	3.74
	maximum	278	1110	1110	388	4.6	7.56	8.03	4.54
	N > DL	4	4	4	4	4	4	4	4
	median	269	995	1085	361	4.2	7.46	8.03	4.31
Statistics only generated where there are more than 2 values in a data set									
average	average of values, including values less than detection limit as set to DL value if it is the DL value will be shown without the < symbol								
minimum	lowest value and will be least DL value if these are present in the data set								
maximum	highest value								
N > DL	number of values measured that are above detection limits								
median	the median value of the data set - if it is a DL value will be shown without the < symbol								
NOTE:									
Detection Limit values used as the DL value in statistics contrasts with conversion to 0 for charts									
STATION	DATE	ALK-T mg/L	COND-L µS/cm	HARD-CA mg	SO4-D mg/l	TEMP-F °	PH-F pH uni	PH-L pH u	WL-M m
P96-9A	07-Jun-06	443	2550	1690	1400	7.2	6.86	7.74	5.35
P96-9A	19-Sep-06	509	3070	2250	1700	7.5	6.72	7.56	5.74
V34	07-Jun-06	483	844	504	61.4	812	7.7	8.06	6.46
V34	19-Sep-06	460	863	534	71.6	4.4	7.3	8.05	6.31
V35	07-Jun-06	643	2800	1910	1480	6.4	7.35	7.84	8.88
V35	18-Sep-06	655	2940	2230	1480	3.3	7.01	7.72	8.42

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STATION	DATE	ALK-T mg/L	COND-L µS/cm	HARD mg/L	SO4-D mg/L	TEMP °C	PH-F	PH-L	WL (m below casing)
V36	07-Jun-06	443	1520	960	558	4.7	7.18	7.84	8.81
V36	19-Sep-06	425	1520	1020	530	3.1	7.42	7.72	9.31