0021

Attn: Dana Dean

Here are the Hiawatha Permit renewal. Table. 1
If you have any questions just call us at 435-687-2450
I am Sorry that there is So much info. to put in. If I could have done it I would of.

Sarah Strand
At: The Co-op mine

Pages Attacted. 21 pages.

C/015/025
INCOMING

Table A-1 Field parameters, water quality paramters, and major-ion solute data

co-op_all_data_printable.xls 03/09/00

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
16-7-12-6	06/08/94	1		7.76	320	5		228					343		102	32.5	3.5	0.72	345	4	2.5	8.1	13.7
16-7-12-6	10/27/94	2		8.17	364	6		237					294		75	21.8	5.5	1.75	290	N/D	4	N/D	8.9
16-7-12-6	07/10/95	2		7.96	630	5		274					241		66	22	3.1	0.56	300	N/D	3.1	10.6	0.1
16-7-12-6	10/18/95	12		7.54	380	6		246					261		50.8	16.6	3.1	0.3	294	N/D	3	10	-11.7
16-7-12-6	10/15/96	3		7.21	430	5																	
16-7-12-6	06/24/97	8		8.18	537	6.1		260					225		57	20	3	N/D	293	N/D	5	9	-6.2
16-7-12-6	09/11/97	12		7.71	433	6.7		290					216		57	18	3	N/D	289	N/D	3	9	-5.9
16-7-12-6	10/15/97	10		7.89	343	11.2		230					228		56	21	2	N/D	291	N/D	4	10	-4.9
16-7-12-6	07/19/98	4		6.95	403	6		246					242		64	20	3	N/D	292	N/D	6	9	-1.8
16-7-1-6	06/08/94	2		7.44	325	4.5		226					273		71.9	20.3	3.14	0.6	320	4	N/D	13.1	-2.0
16-7-1-6	10/28/94	3		7.69	456	6		291					380		96.2	24.8	3.6	0.98	367	N/D	3	14	5.5
16-7-1-6	07/09/95	26		7.81	614	4		298					258		72	22	2.9	0.57	328	N/D	3	15	-2.0
16-7-1-6	10/18/95	20		7.26	450	6		300					269		69	20	2.7	0.4	320	N/D	3	14	-6.6
16-7-1-6	10/15/96	3.4		8.16	468	4																	
16-7-1-6	06/24/97	35		7.85	632	4.7		290					268		71	22	3	N/D	340	N/D	5	14	-4.5
16-7-1-6	09/10/97	30		7.82	479	7.3		360					263		69	22	4	N/D	340	N/D	4	16	-5.2
16-7-1-6	10/20/97	20		7.86	420	8.8		300					284		74	24	3	N/D	362	N/D	4	16	-3.5
16-7-1-6	07/19/98	17		7.2	480	6		302					294		78	24	3	N/D	337	N/D	5	18	-0.3
16-7-24-3	03/17/99														80.38	202.2	23.6	21.58	234	0	5.54	895	-0.2
16-8-18-4	06/08/94	0.5		7.45	350	7		253					281		80.3	21.4	2.3	0.37	357	1	3	6.9	-1.8
16-8-18-4	10/28/94	DRY																					
16-8-18-4	07/09/95	2		7.69	720	8		309					301		82	19	2.8	0.39	341	N/D	3.6	10.1	-1.0
16-8-18-4	10/18/95	0.5		7.06	520	8		239					275		67.2	22.1	1.8	0.1	356	N/D	3	8	-7.3
16-8-18-4	07/18/96	2		6.9	475	13.3	7.9	322					299		82	23	2	N/D	336	5	6	7	0.6
16-8-18-4	10/15/96	DRY																					
16-8-18-4	06/24/97	5		8.01	589	9.9		310					261		73	19	3	N/D	355	N/D	2	8	-8.3
16-8-18-4	09/10/97	Seep only																					
16-8-18-4	10/20/97	1		8.35	430	8.9		280					235		61	20	2	N/D	336	N/D	3	7	-9.4
16-8-18-5	06/08/94	12		7.69	325	5		248					276		75.3	19.4	2.24	0.25	333	2	N/D	8.4	-2.1
16-8-18-5	10/28/94	SEEP																					
16-8-18-5	07/09/95	50		7.77	548	5		295					306		80	19	2.2	0.13	333	N/D	3.8	11.4	-1.4
16-8-18-5	10/18/95	8		7.01	450	6		304					289		70.4	20.1	2.1	N/D	351	N/D	3	10	-7.0
16-8-18-5	07/18/96	10		6.5	474	8		284					284		78	21	2	N/D	339	N/D	4	N/D	0.8
16-8-18-5	10/15/96	2.5		8.02	450	5																	
16-8-18-5	06/24/97	35		7.3	574	5.7		320					276		79	19	2	N/D	335	N/D	3	9	-1.5
16-8-18-5	09/10/97	10		7.64	435	11.4		390					318		68	36	5	N/D	371	N/D	4	54	-5.3
16-8-18-5	10/20/97	10		7.98	400	11.4		280					260		71	20	2	N/D	357	N/D	3	7	-7.0
16-8-20-1	06/08/94	4		7.95	650	8		540					291		59.7	29	60.6	1.36	93	N/D	7	372	-8.2
16-8-20-1	10/28/94	SEEP																					
16-8-20-1	07/10/95	2		7.88	718	7.5		331					303		87	20	2.8	0.35	360	N/D	4	12.8	-1.3
16-8-20-1	10/18/95	DRY																					
16-8-20-1	07/18/96	1		7.85	520	11.7	5.7	348					323		83	28	8	2	364	7	7	16	0.5
16-8-20-1	10/15/96	DRY																					
16-8-5-1	06/08/94	2		7.61	350	5		286					288		73.4	20.6	4.71	0.69	317	7	2.5	N/D	0.7
16-8-5-1	10/28/94	DRY																					
16-8-5-1	07/09/95	7		7.99	552	8		259					236		73	9.7	1.9	0.59	277	N/D	3.6	12	-3.7
16-8-5-1	10/18/95	6		7.82	370	8		316					320		73	21.8	5	0.5	356	N/D	5	29	-7.4
16-8-5-1	07/18/96	8		6.9	534	7		362					320		87	25	5	N/D	354	N/D	6	30	0.2

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
16-8-5-1	10/15/96	7		7.54	521	5																	
16-8-5-1	06/25/97	12		7.8	678	6.4		350					289		78	23	5	N/D	366	N/D	5	32	-6.3
16-8-5-1	09/10/97	4.3		7.37	530	9.2		450					292		79	23	6	N/D	344	N/D	5	38	-3.8
16-8-5-1	10/20/97	6		7.33	508	9.8		350					289		78	24	5	N/D	368	N/D	3	37	-7.0
16-8-6-1	06/08/94	5		7.79	300	6		234					248		77.4	14.7	1.99	0.36	302	5	3.5	9.5	-2.4
16-8-6-1	10/28/94	3		7.9	391	6							271		84.6	16.1	3.8	0.61			5.5	10	87.9
16-8-6-1	07/09/95	15		7.63	635	6		282					253		78	16	1.9	0.28	307	N/D	2.1	9	0.2
16-8-6-1	10/18/95	8		7.46	400	6		264					253		68.8	14.1	1.7	0.2	308	N/D	3	9	-6.5
16-8-6-1	07/17/96	9		7.6	432	8		278					271		82	16	2	N/D	292	6	4	7	1.7
16-8-6-1	10/15/96	6		8.05	450	6																	
16-8-6-1	06/26/97	25		7.74	630	5.9		290					237		70	15	2	N/D	313	N/D	2	8	-5.4
16-8-6-1	09/10/97	6.58		7.51	371	13.4		258					234		69	15	2	N/D	323	N/D	3	8	-7.6
16-8-6-1	10/20/97	6		7.58	396	8.2		258					225		67	14	2	N/D	309	N/D	3	8	-7.4
16-8-7-3	06/08/94	2		7.58	310	3		236					266		88.2	9.36	1.59	0.14	318	2	N/D	8.1	-2.0
16-8-7-3	10/28/94	SEEP																					
16-8-7-3	07/09/95	2		7.81	669	6		331					376		108	12	1.8	0.08	370	N/D	2	7	1.5
16-8-7-3	10/18/95	DRY																					
16-8-7-3	07/18/96	8		6.7	546	9		351					337		115	12	2	N/D	391	N/D	3	5	1.7
16-8-7-3	10/15/96	DRY																					
16-8-7-3	06/25/97	<0.25		8.09	496	10.1		310					241		80	10	2	N/D	309	N/D	3	8	-4.0
16-8-7-3	09/10/97	Dry																					
16-8-8-10	06/08/94	745		7.17	1050	13		1052					912		198	79.7	7.4	5.2	406	5	6.5	490	-0.9
16-8-8-10	10/28/94	706		6.97	1220	12		1110					872		205	81.4	8.1	5.53	427	N/D	5.5	559	-3.8
16-8-8-10	07/09/95	755		7.21	1174	13		1160					865		204	77	6.99	5.48	426	N/D	4.8	539	-3.9
16-8-8-10	10/18/95	672		7.27	1150	11		1030					788		164	64.7	6.3	4.5	478	N/D	5	464	-11.9
16-8-8-10	07/18/96	755		7.21	1174	12		852					728		176	70	8	5	436	N/D	8	352	1.0
16-8-8-10	10/15/96	67		7.16	1028	11																	
16-8-8-10	06/24/97	190		7.15	1081	12.4		800					585		137	60	7	4	461	N/D	5	349	-10.0
16-8-8-10	09/10/97	176		7	934	16.4		790					672		147	62	7	4	444	N/D	6	302	-3.4
16-8-8-10	10/20/97	320		6.93	951	8.9		700					558		128	59	6	4	448	N/D	6	287	-7.9
16-8-8-5	06/08/94	8		7.68	425	7		312					326		69.4	36	5.36	1.05	357	5	4	58.4	-4.8
16-8-8-5	10/02/94	8.5		7.75	538	5		377					347		74.1	40.2	5.3	1.24	373	N/D	3	60	-1.2
16-8-8-5	07/09/95	17		7.78	623	7		376					331		75	40	6.2	1.2	362	N/D	4.2	54.1	1.0
16-8-8-5	10/18/95	10		7.88	540	6		398					371		68.8	36.8	4.7	0.9	381	N/D	4	66	-8.0
16-8-8-5	07/17/96	5		6.9	564	9		372					343		73	39	5	1	350	4	6	47	0.6
16-8-8-5	10/15/96	3.3		8.03	503	4																	
16-8-8-5	06/25/97	0.5		8.12	622	10.1		350					297		63	34	5	N/D	355	N/D	5	45	-5.7
16-8-8-5	09/10/97	0.25		8.02	643	16.6		310					276		76	21	2	N/D	347	N/D	3	8	-8.0
16-8-8-5	10/20/97	1.5		7.63	496	7.2		370					322		68	37	5	N/D	381	N/D	3	61	-5.2
3rd West Bleeder	05/15/96			7.76	730	11		315			<2	285	323		71	30	4	0.8	347	<2	6	26.9	-1.7
3rd West Bleeder	11/13/96			7.37		11.5		309				299	298		69	30	4	1	365	<5	6	26	-4.5
3rd West South	05/15/96			7.85	1200	10		748			<2	359	606		113	69	12	2.9	438	<2	38	227	-4.3
3rd West South	11/13/96			7.85		10.1		730				364	573		109	73	15	3	445	<5	33	241	-4.2
BC-1	02/26/91	29		8	2640	1	9	1730		34	<5	277	1360	0	256	175	23.6	10.4	313	12.3	24.5	1120	-1.9
BC-1	05/29/91	18		8.1	910	8	8	494		1950		310	431	0	77	72.7	8.4	5.07	378	0	4.87	103	0.8
BC-1	06/17/91	29		7.9	700	8	8																
BC-1	07/29/91	13.7		8.1	790	8	9																
BC-1	08/08/91	30		7.9	580	12	9	404		500	<5	270	457	0	62.9	72.9	10.1	5.32	329	0	5.17	218	-1.8
BC-1	09/13/91	42		8.1	540	10	9																
BC-1	10/17/91	27.5		8.1	640	8	8	584		9	<5	189	376	0	55.4	58	9.3	4.8	230	0	3.42	188	6.4
BC-1	02/26/92	300		8.16	584	9	7.2	288	12	2442	12.4		1213	6	359.3	76.8	8.42	14.03	461	0	20	500	14.8
BC-1	05/07/92	36.5		8.36	836	8.6	6.9	507	0	584	1.3		632	1	118.5	81.6	11.74	3.05	389	0	15	230	8.5

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
BC-1	06/30/92	56		8.52	740	19.8	4.8																
BC-1	07/31/92	32		8.54	724	23	4.5																
BC-1	08/10/92	36		8.45	752	19.6	4.8	512	0	221	0.3		444	1	66.7	67.4	9.16	3.75	258	0	10	190	5.1
BC-1	09/24/92	46		8.45	781	11.8	8																
BC-1	10/05/92	39.6		8.45	763	10.2	5.4	491	0	3	0		420	0	70.4	59.4	7.63	8.96	231	0	35	180	2.5
BC-1	02/15/93	Dry																					
BC-1	05/10/93	320		8.09	805	8.5	5.0	496	95.0	37,940	0.9		873	N/D	113	143.4	12.9	18.8	242	N/D	13.8	800	-6.4
BC-1	06/11/93	214		8.3	645	11.9	5.5																
BC-1	07/31/93	53		8.41	648	16.9	5.0																
BC-1	08/11/93	210		7.98	717	8.9	5.4	414	N/D	551	0.2		367	N/D	86	49	8.5	5	256	N/D	7.9	100	9.2
BC-1	09/24/93	72		7.33	770	7.8	5.2																
BC-1	10/20/93	32		7.9	785	8	5.5	419	0.8	197	N/D		598	N/D	120	70	16	N/D	376	N/D	5	210	7.7
BC-1	02/09/94	15		8.3	1340	-0.4	5.5	621	N/D	12	N/D		515		86	85	11	4	342	N/D	7	280	-3.5
BC-1	06/24/94	52		8.1	790	10.9	5.1	920	50.0	6,250	N/D		386		54	61	10	4	239	N/D	4	1000	-50.2
BC-1	06/22/94	52		8.6	669	21.2	5.2																
BC-1	07/19/94	47		8.6	636	16.8	5.4																
BC-1	08/17/94	47		8.4	670	24.7	5.3	430	N/D	237	N/D		306		32	55	6	5	228	N/D	2	190	-8.7
BC-1	09/12/94	35		8.35	615	15.9	5.3																
BC-1	10/18/94	47		8.77	657	6.9	6.6	380	N/D	1296	N/D		320		49	49	8	N/D	270	N/D	8	110	-0.9
BC-1	02/07/95	38		8.7	1181	1.06	4.6	560	2.0	1110	N/D		450		62	71	10	6.0	245	N/D	8	210	5.0
BC-1	05/09/95	54		8.61	929	9.2	5.3	560	69	11800	N/D		450		67	69	13	5.0	298	40	8.0	180	-2.4
BC-1	06/15/95	53		8.58	689	10.9	5.7																
BC-1	07/27/95	52		8.68	547	21.4	5.4																
BC-1	08/22/95	55		8.73	565	22.3	5.6	360	N/D	240	N/D		262		34	43	8	0.1	250	12	5.0	98	-8.9
BC-1	09/29/95	66		8.62	682	6.9	5.6																
BC-1	10/17/95	60		8.3	704	3.7	5.6	390	4.0	1320	N/D		327		50	49	8	0.3	600	15	6	102	-29.4
BC-1	02/26/96	60		8.4	630	6.7	5.4	540	N/D	81	N/D		395		64	57	14	3.0	297	N/D	16	241	-9.4
BC-1	05/22/96	58		8.58	906	14	5.5	664	0.5	152	N/D		447		59	73	13	6.0	370	15	9.0	283	-13.5
BC-1	06/20/96	60		8.7	767	13	5.5																
BC-1	07/10/96	55		8.76	720	12.6	5.6																
BC-1	08/27/96	56		8.73	593	17.6	5.4	351	N/D	658	N/D		589		30	47	7.0	3.0	347	N/D	7.0	131	-16.3
BC-1	09/02/96	58		8.73	601	19.0	5.5																
BC-1	10/30/96	45		8.55	647	4.4	5.5	254	N/D	2305	N/D		250		11.3	39	6	3	590	N/D	7	317	-80.1
BC-1	02/26/97	170		8.25	690	1.8	8.8	360	7	2336	N/D		270		44	41	8	2	408	N/D	5	149	-24.9
BC-1	05/22/97	461		8.08	684	7.4	7.8	400	0.7	1024	N/D		296		51	41	8	2	534	N/D	7	103	-27.5
BC-1	06/04/97	175		9	654	10.2	7.2																
BC-1	07/04/97	140		8.8	576	13.3	7.5																
BC-1	08/27/97	136		8.7	540	18.9	7.2	360	0.6	1068	N/D		278		37	45	8	3	232	N/D	5	98	0.0
BC-1	09/15/97	120		8.56	584	15.3	8.6																
BC-1	10/29/97	145		8.67	621	7.9	7.7	430	0.6	606	N/D		317		46	49	7	3	284	N/D	16	139	-8.7
BC-2	02/28/91	41		8.2	1940	1	9	1810		31	<5	287	1380	0	287	172	23.3	10.2	301	12.2	24.5	11.1	64.2
BC-2	05/28/91	37		8.1	910	9	9	442		622	<5	477	430	0	73	60.3	9.7	5.19	582	0	4.97	3.08	-3.1
BC-2	06/17/91	59.6		8	800	8	8																
BC-2	07/29/91	129		8	490	6	9																
BC-2	08/08/91	28		8	640	14	9	424		400	<5	280	400	0	81.9	59.8	7.2	3.68	342	0	5.17	130	-0.4
BC-2	09/13/91	190		8	610	10	9																
BC-2	10/17/91	216		7.9	460	6	9	494		5	<5	207	242	0	51	27.9	4.1	1.7	253	0	2.59	48.2	-1.6
BC-2	02/18/92	180		7.82	540	7.2	8.3	321	0	6	0.4		298	0	71.9	28.7	1.73	0	294	0	16	39	0.8
BC-2	05/07/92	133.8		8.27	805	13	8.3	391	0	132	1.5		389	2	75	49.1	6.67	0	275	0	15	140	1.4
BC-2	06/30/92	420		8.29	724	15.3	5																
BC-2	07/31/92	55		8.4	542	23.4	4.3																
BC-2	08/10/92	285		7.64	580	15.2	4.5	345	0.9	180	1		369	7	89.9	40	2.06	0	297	0	20	98	3.8

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
BC-2	09/24/92	52		8.31	561	14	6.2																
BC-2	10/05/92	310		8.32	569	10.5	5.8	328	0	21	0.4		409	0	80.3	45.2	4.93	2.09	362	0	15	110	-1.2
BC-2	02/15/93	305		7.35	588	6.28	5.6	284	0.0	7.0	0.5		289	2.0	63	32	4.2	0.0	301	0.0	0.6	40	1.4
BC-2	05/18/93	403		8.04	780	8.2	6.3	430	50	13,110	1.4		869	0.0	79.2	163.1	12.8	13.8	242	0.0	6.5	800	-6.5
BC-2	06/11/93	278		8.08	584	11.8	6.6																
BC-2	07/31/93	557		8.09	587	14.5	5.6																
BC-2	08/16/93	190		8.16	668	8.6	5.9	348	N/D	30	0.1		247	N/D	49.5	30	6.3	3	228	N/D	4.7	130	-10.9
BC-2	09/24/93	310		7.64	618	10.5	5.1																
BC-2	10/21/93	123		7.5	680	9.9	5.6	318	N/D	58	N/D		315	N/D	65	37	10	N/D	342	N/D	6	60	-2.3
BC-2	02/09/94	235		8.26	787	2.8	5.4	352	N/D	17.0	N/D		255		51	31	20	2.0	296	N/D	30	40	-4.1
BC-2	05/24/94	96		7.98	600	11.3	5.3	340	5	1,120	N/D		285		50	39	6	N/D	269	N/D	3	100	-4.8
BC-2	06/22/94	125		8.53	598	19.6	5.5																
BC-2	07/20/94	120		8.42	523	21	5.5																
BC-2	08/18/94	210		8.34	583	15.6	5.5	330	N/D	79	N/D		250		36	39	N/D	N/D	254	N/D	1	80	-7.8
BC-2	09/01/94	164		8.16	628	15.8	5.4																
BC-2	10/18/94	212		8.62	578	9	5.6	350	N/D	524	N/D		300		62	35	6	N/D	330	N/D	7	30	0.0
BC-2	02/07/95	215		8.62	702	4.7	5.4	310	N/D	90.0	N/D		280		53	35	4	2.0	300	N/D	5	46	-2.4
BC-2	05/09/95	240		8.56	651	14.8	5.5	440	10	3983	N/D		350		60	50	8	4.0	1385	25	9.0	140	-55.9
BC-2	06/15/95	185		8.63	627	12.3	5.9																
BC-2	07/27/95	110		8.64	543	20.7	5.4																
BC-2	08/22/95	125		8.42	515	19.8	5.7	290	N/D	185	N/D		236		40	33	6	2.0	263	6	6.0	52	-8.8
BC-2	09/29/95	120		8.3	650	8.2	5.8																
BC-2	10/17/95	220		8.14	610	5.4	5.7	310	N/D	555.0	N/D		274		52	35	5	2	475	N/D	6	52	-22.3
BC-2	02/26/96	45		8.25	655	0.8	5.8	685	N/D	214	N/D		489		69	77	12	5.0	320	N/D	9.0	299	-5.8
BC-2	05/22/96	130		8.42	693	12.4	5.5	415	N/D	5.0	N/D		294		48	42	7.0	2.0	265	25	7.0	35	0.9
BC-2	06/26/96	130		8.5	706	12.8	5.7																
BC-2	07/10/96	270		8.63	694	12.6	5.8																
BC-2	08/27/96	193		8.4	619	15.4	5.6	390	N/D	226	N/D		305		56	40	7.0	2.0	313	N/D	7.0	79	-4.0
BC-2	09/02/96	256		8.39	637	16.7	5.6																
DC-2	10/30/96	245		8.34	624	9	6	35	N/D	136	N/D		305		56	40	8.0	11	330	N/D	6.0	70	-3.1
BC-2	02/27/97	185		8.4	960	1.5	7.5	460	N/D	347	N/D		363		58	53	9	3	302	N/D	6	186	-7.5
BC-2	05/22/97	660		8.78	637	11.8	7.5	360	0.9	1079	N/D		276		51	36	7	2	609	N/D	6	60	-32.9
BC-2	06/30/97	743		8.52	615	12.9	7.4																
BC-2	07/30/97	380		8.66	773	13.2	7.9																
BC-2	08/27/97	460		8.36	825	15	6.9	320	3.1	2644	N/D		243		43	33	5	2	282	N/D	4	56	-6.9
BC-2	09/15/97	370		8.29	566	14.4	7.1																
BC-2	10/29/97	419		8.42	816	9.9	7.8	560	0.8	650	N/D		407		79	51	10	3	296	N/D	9	382	-20.2
BC-3	02/28/91	DRY																					
BC-3	05/28/91	DRY																					
BC-3	06/17/91	DRY																					
BC-3	07/29/91	DRY																					
BC-3	08/06/91	DRY																					
BC-3	09/13/91	DRY																					
BC-3	10/17/91	DRY																					
BC-3	02/19/92	Dry																					
BC-3	05/07/92	Dry																					
BC-3	06/08/92	Dry																					
BC-3	07/31/92	Dry																					
BC-3	08/19/92	Dry																					
BC-3	09/24/92	Dry																					
BC-3	10/05/92	Dry																					
BC-3	02/15/93	Dry																					

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
BS-6	04/18/85			8.2				310		62					64	28	2	1.5	214	0	4	35	8.1
BS-6	05/06/85			8				270		10					58	28	9	0.8	238	0	4	25	10.6
BS-6	06/17/85			7.9				270		4					62	26	4	1	243	0	3	17	10.4
BS-6	08/20/85			8.2				240		2					46	30	3	1	219	0	3	31	6.6
BS-6	09/24/85			8.5				664		26					82	46	111	5	184	6	135	150	7.7
BS-6	04/23/86		10	8.1	296	4																	
BS-6	01/05/87			8.1	497			294		18		256	285		58	34	4	1	312	0	4	30	0.4
CK-1	06/09/94	708		7.65	755	18		808					702		144	70.6	8.15	4.79	274	1	8	477	-4.3
CK-1	10/26/94	745		7.74	1040	8.5		890					794		175	82.6	8.6	5.34	274	N/D	6	534	0.8
CK-1	07/09/95	1104		8.26	1133	18		809					671		140	67	8.4	4.3	266	N/D	4.8	389	1.5
CK-1	10/19/95	985		8.06	1000	11		894					691		139	77	8.8	5.2	294	4	6	467	-3.7
CK-1	07/16/96	352		7.8	849	19		625					512		98	65	8	4	224	23	8	224	6.9
CK-1	10/15/96	103		8.29	849	3																	
CK-1	06/25/97	375		8.71	693	19.3	7.2	480					346		61	47	8	3	254	8	5	178	-8.0
CK-1	09/11/97	323		8.51	814	16.3	8.7	600					413		73	56	8	3	264	N/D	6	238	-4.3
CK-1	10/21/97	320		8.5	791	11.7	9.4	650					491		86	67	9	3	331	N/D	6	265	-4.0
CK-2	06/09/94	4		7.55	850	10		352					436		70.7	36.6	5.38	1.1	352	5	3.5	61	-9.6
CK-2	10/28/94	40		8.11	716	2		563					500		86.8	64.2	8.3	2.79	343	N/D	7	214	-1.2
CK-2	07/09/95	950		8.65	692	17		334					371		69	35	5.91	1.7	289	N/D	4.5	74.5	1.5
CK-2	10/19/95	376		8.27	650	4		482					428		70.5	48.7	6.6	1.7	358	1	5	142	-7.8
CK-2	07/16/96	26		8.15	648	13		354					380		63	42	6	1	272	13	7	69	-0.4
CK-2	10/15/96	50		8.26	648	0.5																	
CK-2	06/25/97	377		9.04	634	6.9	7.5	370					294		60	35	6	1	295	N/D	4	69	-1.8
CK-2	09/10/97	147		8.34	578	13.9	7	450					336		62	44	7	2	313	N/D	5	138	-7.1
CK-2	10/20/97	200		8.16	535	5.8	8.8	470					362		64	49	7	2	347	N/D	5	136	-6.7
CO-1	05/23/95	DRY																					
CS-1	05/28/91	15		8.1	410	9		342			N/A		309		83.2	24.6	5.1	2.58	316	0	5.47	65.8	-1.8
CS-1	10/17/91	17		7.6	602	6		418			N/A		309		75.5	29.5	4.6	2.4	323	0	3.73	60.5	-1.5
CS-1	05/14/92	15		7.34	726	10		385			0.0		405		89.9	43.9	3.9	0.0	326	0.0	30	100	0.0
CS-1	10/12/92	28		7.45	773	54.1		400			0.0		477		127.7	38.3	1.99	1.91	430	0.0	15	50	0.3
CS-1	05/06/93	5		7.25	824	11.2		413					388		82.8	38.7	4.6	2.8	387	N/D	8.7	100	-0.7
CS-1	10/24/93	15		7.36	756	10.6		440					423		97	44	N/D	N/D	413	N/D	15	60	0.1
CS-1	05/31/94	18		7.16	780	11.1		410	N/D	N/D	N/D		387		89	40	5	3	428	N/D	5	60	-2.3
CS-1	10/18/94	15		7.42	708	12.5		400	N/D	18	N/D		360		91	38	5	N/D	420	N/D	9	60	-3.0
CS-1	05/23/95	8		7.5	720	13.1		400					370		85	38	4	3	400	10	7	50	-3.2
CS-1	10/18/95	10		7.24	719	11.5		400					367		86	37	5	2	410	N/D	9	58	-3.7
CS-1	05/22/96	8		7.47	728	12.4		426					361		81	36	5	2	410	N/D	7	52	-4.8
CS-1	10/31/96	7		8	726	11.5		406					318		68	36	4	2.0	421	N/D	9	55	-11.8
CS-1	05/23/97	15		7.49	715	12.8		420					337		79	34	3	1	410	N/D	7	56	-7.9
CS-1	10/29/97	9		7.59	683	11.8		420					332		72	37	3	2	422	N/D	5	54	-9.1
Data #1	01/06/99	7		8.3	690	5.8		656		<5		384	469		84	63	9	4	371	<5	6	261	-8.4
Data #2	01/06/99	10.7		7.6	620	10.4		474		9		288	403		84	47	6	2	327	<5	5	132	0.7
DH-1A	01/27/88		115.83																				
DH-1A	02/18/88		112.17	7.48	620	10.9		352					224		41.9	29	13.4	30.3	207	N/D	0.1	120	1.5
DH-1A	03/23/88		113																				
DH-1A	04/30/88		113.67																				
DH-1A	05/26/88		113.67	7.67	986	10.8		587					381		68.6	54.6	32.5	24.0	352	N/D	24.9	220.0	-5.8
DH-1A	06/15/88		113.67																				
DH-1A	07/31/88		114.15																				
DH-1A	08/31/88		114.12	7.08	681	11		614					381.6		82.9	43	19	1.4	341	N/D	7.4	130.0	-0.1
DH-1A	09/14/88		113.59																				
DH-1A	10/26/88		114	7.21	763	11.2		395					338		66	42	11	20.0	276	N/D	7.0	70.0	11.2

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
DH-1A	11/23/93		113.67																				
DH-1A	12/15/93		113.33																				
DH-1A	01/20/94		114.1																				
DH-1A	02/09/94		113.25	7.4	644	10.7		302					314		63	38	7	13	355	N/D	3	40	1.2
DH-1A	03/21/94		113.25																				
DH-1A	04/29/94		113.8																				
DH-1A	05/31/94		113	7.24	668	10.2		320					305		66.0	34	6	10.0	390	N/D	5.0	40.0	-5.4
DH-1A	06/27/94		113.5																				
DH-1A	07/19/94		113.1																				
DH-1A	08/28/94		116.5	7.6	653	10.7		400					321		74.0	33	7	9.0	361	N/D	3.0	22.0	3.6
DH-1A	09/30/94		113.3																				
DH-1A	10/30/94		113.7	7.33	581	11.2		340					300		66	32	N/D	8.0	350	N/D	7.0	40.0	-5.0
DH-1A	11/26/94		113.5																				
DH-1A	12/22/94		113.5																				
DH-1A	01/04/95		113.1																				
DH-1A	02/07/95		113.2	7.62	1656	10.6		1630					1090		83	215	145.0	30.0	610	N/D	36.0	700	6.1
DH-1A	03/25/95		111.2																				
DH-1A	04/29/95		111.65																				
DH-1A	05/09/95		111.75	7.78	767	11.5		450					340		57.0	48	34	8	260.0	10	10	150	2.9
DH-1A	06/29/95		110.3																				
DH-1A	07/13/95		110.1																				
DH-1A	08/31/95		110.9	7.94	811	12.67		450					316		49	47	28	8	300	N/D	10	157	-4.5
DH-1A	09/29/95		111.33																				
DH-1A	10/17/95		112.2	7.35	657	11.7		450					301		53	41	20	6	355	N/D	9	96	-6.9
DH-1A	11/21/95		112.25																				
DH-1A	12/26/95		112.9																				
DH-1A	02/27/96		112.2	7.4	512	9.3		388					258		46	36	26	5.0	252	N/D	9.0	125	-4.4
DH-1A	05/22/96		112.8	7.4	733	11.7		486					317		53	45	23	6.0	365	N/D	10	105	-8.0
DH-1A	08/28/96		112.9	7.5	680	11.8		383					312		59	40	12	6.0	373	N/D	7.0	52	-3.4
DH-1A	10/29/96		112.2	7.25	675	9.9		354					271		49	36	9.0	4.0	373	N/D	6	44	-9.9
DH-1A	02/27/97		111.3	7.27	771	10.3		520					371		58	55	24	7	409	N/D	10	112	-3.7
DH-1A	05/28/97		112.1	7.82	751	11.6		470					311		47	47	24	6	307	N/D	9	138	-4.8
DH-1A	08/31/97		111	7.86	544	11.9		410					323		60	42	13	6	390	N/D	6	71	-5.7
DH-1A	10/30/97		110.7	7.68	620	10.6		570					298		55	39	8	5	379	N/D	6	45	-6.5
DH-2	01/27/93		22																				
DH-2	02/22/93		22.13	6.9	626	11.3		356					310		70.4	34	8.1	N/D	344	N/D	0.8	30	2.9
DH-2	03/23/93		22.4																				
DH-2	04/30/93		23.83																				
DH-2	05/25/93		23.1	8.63	623	11.2		346					293		68.3	29.8	5.4	2.0	340	N/D	3.9	30.0	-1.3
DH-2	06/16/93		24.06																				
DH-2	07/31/93		24.35																				
DH-2	08/31/93		24.25	7.02	625	11.2		353					311		65.0	36.0	22.9	2.0	330	N/D	4.2	28.0	8.9
DH-2	09/14/93		26.25																				
DH-2	10/29/93		25.7	7.34	749	11.4		290					237		75	34	N/D	N/D	350	N/D	5.0	28.0	0.6
DH-2	11/23/93		24.25																				
DH-2	12/15/93		23.75																				
DH-2	01/20/94		24.1																				
DH-2	02/16/94		23.33	7.27	538	28.8		312					300		69	31	5	N/D	342	N/D	5	29	-1.1
DH-2	03/21/94		23.75																				
DH-2	04/29/94		24.5																				
DH-2	05/31/94		24.5	7.02	603	10.7		309					295		67.0	31	5	N/D	373	N/D	4.0	30	-5.6
DH-2	06/27/94		24.5																				

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
DH-2	07/19/94		24.6																				
DH-2	08/29/94		24.75	7.39	628	11.3		630					307		72.0	31.0	N/D	N/D	355	N/D	4.0	23	-2.2
DH-2	09/30/94		24.7																				
DH-2	10/26/94		24.75	7.24	578	12.6		330					300		66	32	N/D	N/D	350	N/D	6.0	28	-4.6
DH-2	11/26/94		24.8																				
DH-2	12/22/94		24.8																				
DH-2	01/04/95		25.2																				
DH-2	02/07/95		24.65	7.49	605	11.9		330					300		69		5	2	330	N/D	6	20	-23.6
DH-2	03/25/95		22.5																				
DH-2	04/29/95		26																				
DH-2	05/23/95		25.1	7.09	586	11.8		370					270		65.0		4	2	360.0	N/D	6	25	-31.1
DH-2	06/29/95		17.8																				
DH-2	07/13/95		14.9																				
DH-2	08/31/95		23	7.25	630	11.7		330					278		62		2	2	350	N/D	6	30	-33.8
DH-2	09/28/95		24.56																				
DH-2	10/17/95		24.03	7.18	568	11.8		320					283		67		5	2	365	N/D	6	24	-29.6
DH-2	11/21/95		24.9																				
DH-2	12/26/95		26.7																				
DH-2	02/29/96		27.4	7.42	587	12		302					288		67	30	6.0	2.0	354	N/D	6.0	30	-3.7
DH-2	05/22/96		28	7.36	588	10.7		335					286		65	30	5.0	2.0	355	N/D	6.0	29	-4.9
DH-2	08/20/96		27.3	7.2	622	12.4		311					302		70	31	4.0	2.0	357	N/D	6.0	28	-2.6
DH-2	10/30/96		27.3	7.2	590	11.8		320					259		56	29	4.0	1.0	363	N/D	6.0	25	-10.5
DH-2	11/15/96			7.32		10		313				293	291		67	30	4	2	358	<5	7	27	-4.7
DH-2	02/27/97		27.75	7.09	564	11.4		330					293		68	30	4	2	358	N/D	6	28	-4.3
DH-2	05/29/97		28.8	7.22	589	11.4		310					305		71	31	4	2	355	N/D	6	28	-2.0
DH-2	08/27/97		30.8	7.32	569	11.7		310					278		65	28	5	2	359	N/D	5	27	-6.2
DH-2	10/29/97		32.6	7.5	562	11.2		340					270		62	28	3	2	362	N/D	3	26	-8.1
DH-3	01/27/93		125.92																				
DH-3	02/19/93		125.42	7.29	608	10.6		342					301		67.8	32	4.3	N/D	258	N/D	4.4	44	8.4
DH-3	03/23/93		125.4																				
DH-3	04/30/93		125.83																				
DH-3	05/28/93		125.8	7.04	591	11.2		349					283		64.6	29.6	3.3	0.5	340	N/D	4.6	29.0	-4.0
DH-3	06/15/93		125.75																				
DH-3	07/31/93		126.2																				
DH-3	08/31/93		125.8	7.08	611	10.6		317					230.9		52.0	26	3.3	1.9	320	N/D	5.3	24	-10.2
DH-3	09/14/93		125.42																				
DH-3	10/21/93		125.1	7.25	607	12		317					306		84	38	N/D	N/D	355	N/D	5	24	6.2
DH-4	02/15/94		58.75	723	669	10.6		342					314		73	32	4	2	346	N/D	3	30	1.1
DH-4	03/21/94		60																				
DH-4	04/29/94		60.25																				
DH-4	05/31/94		60.6	7.14	630	10.9		350					293		68	30	3	N/D	395	N/D	3	30	-9.0
DH-4	06/27/94		60.7																				
DH-4	07/19/94		60.5																				
DH-4	08/31/94		60.7	7.2	623	10.7		400					314		73	32	N/D	N/D	361	N/D	5	26	-2.6
DH-4	09/30/94		61.25																				
DH-4	10/27/94		61.3	7.12	546	12.3		350					302		70	31.0	6	N/D	354	N/D	7.0	28	-2.2
DH-4	11/26/94		62																				
DH-4	12/22/94		62.3																				
DH-4	01/04/95		62.4																				
DH-4	02/07/95		62.4	7.46	622	11.7		330					320		72		3	1	330.0	N/D	6	30	-24.6
DH-4	03/25/95		62.4																				
DH-4	04/29/95		63																				

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
DH-4	05/23/95		62.85	7.23	701	11.9		360					280		67.0		3	2	360.0	N/D	5	25	-30.2
DH-4	06/29/95		62.8																				
DH-4	07/13/95		62.9																				
DH-4	08/31/95		62.92	7.2	621	12.4		290					286		65		3	1	350	N/D	6	54	-34.6
DH-4	09/29/95		62.84																				
DH-4	10/18/95		62.4	7.17	574	11.6		350					294		70		4	1	360	N/D	10	20	-28.3
DH-4	11/21/95		62.45																				
DH-4	12/26/95		62.7																				
DH-4	02/27/96		62.17	7.04	494	11.8		334					307		72	31	4.0	1.0	345	N/D	5.0	46	-3.1
DH-4	05/22/96		62.1	7.05	618	11.8		356					323		75	33	5.0	1.0	355	N/D	6.0	45	-1.6
DH-4	06/23/96		61.2	7.22	650	12.3		338					328		77	33	3.0	1.0	352	N/D	6.0	46	-1.3
DH-4	10/31/96		61.2	7.68	586	11.5		354					284		61	32	3.0	1.0	372	N/D	6.0	50	-11.3
DH-4	02/27/97		61.15	7.1	619	11.4		370					337		79	34	4	1	356	N/D	6	58	-1.9
DH-4	05/29/97		60.9	7.56	601	11.9		350					338		80	33	4	1	353	N/D	6	59	-2.0
DH-4	08/30/97		60.8	7.47	620	11.7		380					317		74	32	4	1	345	N/D	4	34	0.4
DH-4	10/30/97		60.9	7.37	621	11.9		370					318		73	33	3	1	305	N/D	4	06	0.3
FBC-10	07/30/91	9		7.8	450			244					244		60	22.9	5.40	0.40	294	0.00	8.01	9.05	-1.3
FBC-10	10/12/92	Dry																					
FBC-10	06/21/93	1		7.46	760	9.4	6.2																
FBC-10	08/29/93	Dry																					
FBC-10	06/16/94	Dry																					
FBC-10	08/30/94	Dry																					
FBC-10	10/31/94	Dry																					
FBC-10	06/24/97			9.52	435.00	13.40	6.50	230.00					204.00		42.00	24.00	5.00	N/D	228.00	N/D	6.00	12.00	1.5
FBC-11	08/08/91	15		8.4	300			182					169		52.3	9.39	3.20	0.82	194	5.10	3.35	9.88	-1.5
FBC-11	10/12/92	Dry																					
FBC-12	06/29/93	100		8.14	420	13.6		220					345		75.7	37.9	5.6	3.8	286	N/D	4.3	70	7.2
FBC-12	08/29/93	58		7.82	472	10		245					564		140	52	3	1.9	461	N/D	3.7	40	14.8
FBC-12	10/15/93	21		7.72	546	4.7		261					311		65	36	N/D	N/D	292	N/D	4.5	14	8.7
FBC-12	06/15/94	26		7.65	564	4.4		270					243		51	28	3	N/D	301	N/D	1	15	-2.9
FBC-12	08/29/94	32		7.78	393	11.1		220					178		45	16	N/D	N/D	255	N/D	2	2	-8.0
FBC-12	10/30/94	43		7.87	484	8.3		260					240		49	28	5	N/D	311	N/D	8	7	-4.9
FBC-12	06/25/97	3		8.51	510	10.1																	
FBC-12	*6/29/93 sample taken in Bear Creek where sources converge.																						
FBC-14	08/08/91	120		8	500			250					257		53.7	29.9	4.60	1.58	284	N/D	4.06	31.3	-0.3
FBC-14	08/29/95							320					280		62	30	6	N/D	315	5.00	10	17	-1.2
FBC-2	08/01/91	12		8.06	550			352					305		77.8	26.9	4.90	0.89	379	N/D	2.33	5.76	-0.6
FBC-3	08/01/91	1.5		8.00	450			274					258		72.4	18.8	3.50	0.84	307	N/D	2.43	12.3	-0.3
FBC-6B	10/13/92	1.5		7.8	820	11.6		277					280		60.4	31.3	3.83	2.64	368	N/D	15	28	-8.3
FBC-6B	06/21/93	7		7.98	642	9.8		379					312		75.3	30.1	6.1	3.2	313	N/D	7.6	25	5.9
FBC-6B	10/15/93	3		7.9	680	5.8		323					347		83	34	N/D	N/D	306	N/D	10	28	8.3
FBC-6B	06/16/94	4		7.75	635	6.2		323					291		72	27	6	N/D	359	N/D	2	20	-2.3
FBC-6B	08/30/94	18		7.6	593	6.2		350					309		76	29	6	N/D	327	N/D	7	14	4.8
FBC-6B	10/31/94	25		7.51	589	7.4		340					288		68	28	8	N/D	350	N/D	7	19	-2.0
FBC-7	07/30/91	2.1		8.2	760			440					368		53.4	57.1	10.1	5.04	333	0.00	5.07	96.3	2.1
FBC-7	10/12/92	0.7		7.28	563	7.78		301					266		83.6	18.7	2.21	0.00	295	0.00	45	17	-5.3
FBC-7	06/21/93	27		6.63	630	5.2		340					301		70.6	30.2	6.4	2	311	N/D	7.6	16	5.8
FBC-7	08/29/93	25		7.83	590	9.8		301					284.7		62	43	16	20	298	N/D	5.3	14	18.8
FBC-7	10/15/93	13		7.4	588	5		284					256		63	24	N/D	N/D	297	N/D	9	15	-3.0
FBC-7	06/15/94	15		7.38	580	5		250					256		63	24	5	N/D	305	N/D	6	12	-0.6
FBC-7	08/30/94	8		7.8	542	8.7		260					244		58	24	8	N/D	283	N/D	7	10	1.6
FBC-7	10/31/94	3		7.81	590	7.6		260					290		57	24	9	N/D	280	N/D	8	16	0.5

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
FBC-7	06/24/97			7.89	604	6.7																	
FBC-8	08/07/91	5		7.6	450			250					231		61.7	18.8	5.60	4.40	289	N/D	6.18	11.9	-1.8
FBC-8	10/12/92	Dry																					
FBC-9	08/07/91	22.4		7.8	490			252					257		68.1	21.2	5.00	0.45	307	0.00	5.17	14	-0.9
FBC-9	10/12/92	Dry																					
FBC-9	06/21/93	1		7.46	760	9.4		441					342		84.1	32	15.5	3.1	376	N/D	7.2	34	3.5
FBC-9	08/29/93	Dry																					
FBC-9	06/16/94	Dry																					
FBC-9	08/30/94	Dry																					
FBC-9	10/31/94	Dry																					
FC-1	06/09/94	45		7.46	1250	12		570					454		52.5	70.1	29.9	3.08	325	9	10.5	236	-5.2
FC-1	10/27/94	30		8.06	1180	9.5		1030					736		82.2	124	67.9	4.71	485	N/D	18	484	-3.3
FC-1	07/10/95	80		8.81	629	20		386					398		64	50	13	1.6	333	N/D	6.2	98.8	1.4
FC-1	10/18/95	15		8.34	910	10		778					584		64.5	100	47.3	4.6	419	9	13	318	-1.9
FC-1	07/16/96	220		8.3	550	18.9	7.2	360					327		48	52	15	2	286	6	8	97	1.7
FC-1	10/15/96	15		8.24	556	6																	
FC-1	06/29/97	483		8.52	629	11.5	7.2	360					284		41	44	11	N/D	310	N/D	5	N/D	8.2
FC-1	09/17/97	75		8.54	856	18.4	6.1	620					415		46	73	28	3	356	N/D	10	229	-6.2
FC-1	10/28/97	120		8.55	1212	5.8	6.8	750					518		59	90	37	3	449	N/D	11	271	-5.0
FC-2	07/31/91	80		7.6	500			270					270		69.7	23.4	3.90	0.73	310	0.00	2.23	19.3	0.5
FC-2	06/09/94	50		7.4	1200	12		790					637		85.3	88.9	32.6	2.89	326	7	16	415	-5.7
FC-2	10/27/94	25		8.36	1110	9		1020					751		101	119	45.6	3.18	390	N/D	22	509	-2.1
FC-2	07/10/95	100		8.82	780	19		360					286		47	40	12	1.3	260	N/D	6	92.7	-1.4
FC-2	10/18/95	15		8.52	450	12		620					476		74.8	80.9	29.5	2.7	326	11	10	238	2.4
FC-2	07/16/96	191		8	594	21.1	6.3	403					344		52	52	13	1	219	47	9	118	-2.6
FC-2	10/15/96	18		8.49	594	6																	
FC-2	06/25/97	316		8.5	626	10.5	7	370					274		47	38	11	1	257	N/D	6	93	-6.4
FC-2	09/17/97	125		8.35	773	18.6	6	600					389		55	61	19	2	397	N/D	9	241	-8.8
FC-2	10/28/97	150		8.37	7.2	7.2	8.4	630					471		70	72	22	2	360	N/D	11	207	-0.5
FC-3	07/31/91	2.5		7.9	800			272					283		72.6	24.8	2.80	0.33	333	0.00	2.13	9.05	0.7
FC-3	10/28/92	40		8.8	946	7.61		614	N/D	668	2.10		547		108.1	67.2	18.4	3.21	281	0.00	20	250	6.4
FC-3	06/24/93	380		8.35	663	7.6		433	N/D	7	0.1		354		55.7	52.1	19.6	0.3	274	N/D	7.9	150	0.6
FC-3	08/15/93	65		8.15	890	23.1		648		17	N/D		549.7		75	86	36	3.1	311	N/D	10	29	36.0
FC-3	10/26/93	122		8.04	1415	7.5		548					642		74	111	53	N/D	302	N/D	15	330	10.6
FC-3	03/23/94	210		8.6	1671	8.1		1000	N/D	10	N/D		712		89	119	69	4	349	N/D	65	600	-7.3
FC-3	06/01/94	120		8.6	1268	11		820	N/D	9	N/D		578		70	98	47	3	374	N/D	15	330	0.9
FC-3	08/29/94	Dry																					
FC-3	10/30/94	105		8.5	1637	8.6		1240	N/D	N/D	N/D		760		87	132	81	N/D	380	N/D	24	500	3.4
FC-3	06/29/97			8.49	648	10.9																	
LT-1	05/28/91	9		8.2	910	8	9	478	N/R	<1	<5.0		401	N/R	66	57.4	18.1	4.42	367	0	22	92.2	2.0
LT-1	10/17/91	84		7.8	980	2	9	474	N/R	1	<5.0		395	N/R	73.6	51.5	19.8	4.87	434	0	18.2	77	-2.0
LT-1	05/14/92	25		8.08	890	10.6	4.8	471	0.0	4	0.2		445	2	73.3	83.5	21.26	0.0	416	0.0	35	110	-1.5
LT-1	10/05/92	18		7.94	938	9.1	5.8	505	0.0	3	0.0		514	0	112.2	56.9	10.25	5.35	452	0.0	30	50	7.8
LT-1	06/06/93	30		7.82	1027	9.9	6	552	N/D	5	1.1		464		75.3	66.9	21.4	4.9	420	N/D	31.5	140	-1.7
LT-1	08/26/93	153		8.08	1000	9.4	6.2	605	N/D	90	0.2		535		94.5	72.8	29.8	9.0	407	N/D	28.1	170	3.6
LT-1	10/24/93	38		8.04	975	8.7	5.8	535	N/D	3	N/D		487		88	65	21	N/D	463	N/D	25	90	2.3
LT-1	05/24/94	35		8.07	882	10.8	5.4	480	N/D	4	N/D		415		72	57	21	4	433	N/D	26	90	-2.2
LT-1	10/18/94	23		8.51	919	8.3	5.1	520	N/D	N/D	N/D		470		86	62	20	N/D	470	N/D	26	80	0.5
LT-1	06/23/95	25		8.44	957	8.7	5.5	540	N/D	105	N/D		430		75	59	20	5	450	10	31	90	-4.2
LT-1	10/17/95	70		8.12	884	11.3	5.5	480	N/D	10	N/D		370		60	48	14	3	405	20	21	64	-6.6
LT-1	06/20/96	120		8.43	842	10.9	5.6	502	N/D	15	N/D		410		80	51	15	3	380	20	23	77	0.6
LT-1	10/31/96	35		8.01	952	5.7	5.7	517	N/D	N/D	N/D		365		57	54	18	4.0	460	N/D	25	80	-11.4

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
LT-1	05/29/97	210		8.84	550	10.3	7.4	320	N/D	174	N/D		288		58	30	7	2	338	N/D	11	32	-6.6
LT-1	10/29/97	110		8.39	809	9.2	7.9	15	N/D	N/D	N/D		355		53	54	15	4	377	N/D	24	100	-6.6
MH-1	07/31/91	1.5		7.9	800			468					445		85.9	56.1	13.8	1.53	464	N/D	15.9	72.8	0.0
MH-1	10/04/92	Dry																					
MH-1	08/21/93	120		7.94	384	14.8	6	259					203		46.9	20.9	3	2.3	209	N/D	4.3	10	0.1
MH-1	08/25/93	48		7.75	435	12.4	5.4	248					241		52	27	4	1.2	253	N/D	3.2	10	5.9
MH-1	10/15/93	37		7.45	695	9.6	4.9	280					293		68	30	N/D	N/D	313	N/D	10	15	1.2
MH-1	06/16/94	0.7		8.52	484	14.2	5.5	276					235		48	28	7	N/D	294	N/D	4	31	-5.5
MH-1	08/30/94	Dry																					
MH-1	10/31/94	Dry																					
MH-1	06/25/97			8.53	565	17.8	7.5																
NPDES	04/18/91	60		7.81	842	N/R		464	N/A	46	3.4												
NPDES	05/28/91	62		8	600	9		360	N/A	39	<5.0												
NPDES	06/17/91	61.5		8	540	9		364	N/A	16	<5.0												
NPDES	07/29/91	62		8.1	640	6		300	N/A	3	<5.0												
NPDES	08/08/91	61.2		8	440	11		362	N/A	<1	<5.0												
NPDES	09/13/91	63.2		8	410	9		482	N/A	<1	<5.0												
NPDES	10/17/91	60		7.9	463	7		336	N/A	1	<5.0												
NPDES	11/29/91	79.5		7.9	450	7		LOST	N/A	LOST	LOST												
NPDES	12/27/91	194		7.3	510	6		298	N/A	2	1.1												
NPDES	01/17/92			7.8	742	7																	
NPDES	01/31/92	305		6.4	890	6.5		678	N/A	20	0.4												
NPDES	02/18/92	318		7.92	595	8.2		340	N/A	0.5	0												
NPDES	02/29/92			7.79	647	7.5																	
NPDES	03/12/92			7.8	725	7.5																	
NPDES	03/27/92	304		7.8	1110	7		782	N/A	1	0												
NPDES	04/09/92	310		7.68	N/A	8		278	N/A	0	0												
NPDES	04/30/92			7.72	N/A	8.3																	
NPDES	05/14/92	305		7.82	694	8.1		409	N/A	6	9.3												
NPDES	05/29/92			7.06	N/A	10.4																	
NPDES	06/08/92	305		7.88	586	8.3		337	N/A	1	1.8												
NPDES	06/30/92			7.84	N/A	10.2																	
NPDES	07/07/92	203		7.84	584	10.9		335	N/A	1	0												
NPDES	07/31/92			7.8	597	8.6																	
NPDES	08/10/92	214		7.75	640	16		362	N/A	2	0.8												
NPDES	08/21/92			7.8	643	10.5																	
NPDES	09/10/92	124		7.57	717	10.8		366	N/A	2	2.6												
NPDES	09/24/92			7.79	680	9.8																	
NPDES	10/05/92	90.52		7.63	508	10		276	N/A	3	0.4												
NPDES	10/30/92			7.72	632	9.6																	
NPDES	11/23/92	99.1		7.65	685	10.2		436	N/A	6	4.1												
NPDES	11/30/92			7.42	748	49.5																	
NPDES	12/16/92	180.3		7.11	640	7.72		376	N/A	9	2.2												
NPDES	12/31/92			7.33	610	9.7																	
NPDES	01/19/93	168		7.32	651	15.6		353	N/A	0	0												
NPDES	01/26/93			7.29	667	8.5																	
NPDES	02/15/93	225		7.33	691	18		420	N/A	15	0												
NPDES	02/26/93			7.2	693	14.4																	
NPDES	03/10/93	68		7.28	665	11.9		376	N/A	2	0												
NPDES	03/24/93			7.44	632	14.8																	
NPDES	04/08/93	39.5		7.22	683	11		361	N/A	3	N/D												
NPDES	04/21/93			7.25	658	10.6																	

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
NPDES	05/06/93			7.3	648	10.4																	
NPDES	05/18/93	150		7.39	707	10.2		299	N/A	2	1.8												
NPDES	06/11/93	166.5		7.38	604	10.4		615	N/A	14	N/D												
NPDES	06/24/93			7.4	642	10.4																	
NPDES	07/09/93	166.5		7.43	669	10.8		319	N/A	N/D	N/D												
NPDES	07/28/93			7.48	650	10.7																	
NPDES	08/11/93	180		7.54	769	10.5		309	N/A	5	0.8												
NPDES	08/25/93			7.39	652	11																	
NPDES	09/14/93			7.23	666	11.1																	
NPDES	09/24/93	166		7.6	607	10.2		329	N/A	2	N/D												
NPDES	10/05/93	144		7.6	643	9.6		318	N/A	3	1												
NPDES	10/21/93			7.34	589	12.6																	
NPDES	11/12/93			7.36	645	10.1																	
NPDES	11/29/93	123		7.28	651	9.8		332	N/A	3	N/D												
NPDES	12/15/93	123		7.41	634	8.6		328	N/A	N/D	N/D												
NPDES	12/27/93			7.34	620	9.2																	
NPDES	01/19/94	159.1		7.71	359	7.5		301	N/A	6	N/D												
NPDES	01/26/94			7.57	432	7.6																	
NPDES	02/09/94	196		7.85	670	6.5		317	N/A	N/D	N/D												
NPDES	02/28/94			7.6	590	8.5																	
NPDES	03/21/94	165.67		7.94	683	7.9		340	N/A	N/D	N/D												
NPDES	03/28/94			7.91	740	7.1																	
NPDES	04/20/94	142		7.88	643	7.9		320	N/A	9	N/D												
NPDES	04/27/94			7.92	650	8.2																	
NPDES	05/24/94	195		7.75	630	9.1		330	N/A	N/D	N/D												
NPDES	05/31/94			7.7	664	8.8																	
NPDES	06/01/94	182		8.1	740	9.7		350	N/A	N/D	N/D												
NPDES	06/20/94			7.88	622	10.2																	
NPDES	07/11/94	178		7.58	641	10.6		380	N/A	N/D	N/D												
NPDES	07/20/94			7.79	630	11.3																	
NPDES	08/17/94	178		7.78	636	11.9		330	N/A	N/D	N/D												
NPDES	08/23/94			7.79	637	10.5																	
NPDES	09/01/94	192		7.5	616	14.5		350	N/A	N/D	N/D												
NPDES	09/12/94			7.48	640	11.6																	
NPDES	10/18/94	114.4		7.88	594	10.5		330	N/A	N/D	N/D												
NPDES	10/31/94			7.13	649	9.1																	
NPDES	11/05/94			7.28	665	8.6																	
NPDES	11/22/94	131		7.62	648	9.7		320	N/A	N/D	N/D												
NPDES	12/22/94	156.5		7.9	594	9.2		320	N/A	N/D	N/D												
NPDES	12/30/94			7.8	648	9.1																	
NPDES	01/14/95	160		7.87	602	9.2		330	N/A	4	N/D												
NPDES	01/27/95			7.86	624	9.4																	
NPDES	02/07/95	169		8	656	8.9		330	N/A	N/D	N/D												
NPDES	02/28/95			8.02	659	9.2																	
NPDES	03/22/95	215		7.5	670	8.3		360	N/A	N/D	N/D												
NPDES	03/27/95			7.88	672	9.3																	
NPDES	04/20/95	122		7.45	945	9.8		370	N/A	N/D	N/D												
NPDES	04/29/95			7.31	981	8																	
NPDES	05/09/95	139		7.99	641	9.7		360	N/A	N/D	N/D												
NPDES	06/14/95	169		7.79	609	11.1		360	N/A	14	N/D												
NPDES	06/28/95			7.93	653	10.7																	
NPDES	06/30/95			8.02	648	11.5																	

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
NPDES	07/20/95			7.76	642	11.5																	
NPDES	07/27/95	81		7.6	629	11.7		320	N/A	N/D	N/D												
NPDES	08/22/95	95		7.97	608	12.3		310	N/A	20	N/D												
NPDES	08/31/95			7.85	621	12.4																	
NPDES	09/15/95			7.92	628	11.9																	
NPDES	09/28/95	98		8.1	597	11.5		350	N/A	5	N/D												
NPDES	10/16/95	97		7.81	571	10.9		310	N/A	5	N/D												
NPDES	10/31/95			7.5	574	10.5																	
NPDES	11/07/95			7.48	599	10.7																	
NPDES	11/21/95	116		7.6	591	9.9		290	N/A	N/D	N/D												
NPDES	12/28/95	110.7		7.53	601	7.3		340	N/A	N/D	N/D												
NPDES	12/29/95			7.71	612	8.6																	
NPDES	01/22/96	89		7.75	589	7.3		399	N/A	N/D	N/D												
NPDES	01/31/96			7.61	599	9.4																	
NPDES	02/12/96			7.7	560	5.1																	
NPDES	02/28/96	49		7.4	594	3.6		399	N/A	N/D	N/D												
NPDES	03/15/96			7.49	582	9.2																	
NPDES	03/28/96	123		7.46	441	11.3		304	N/A	N/D	N/D												
NPDES	04/16/96	99		7.6	605	9.9		308	N/A	N/D	N/D												
NPDES	04/30/96			7.54	580	10.2																	
NPDES	05/06/96			7.52	635	10.8																	
NPDES	05/22/96	93		7.72	943	10		364	N/A	N/D	N/D												
NPDES	06/20/96			7.78	1085	10.4																	
NPDES	06/26/96	99.7		8.05	608	10.6		324	N/A	N/D	N/D												
NPDES	07/10/96			7.95	1038	10.8																	
NPDES	07/30/96	89		8.35	774	11.4		457	N/A	N/D	2												
NPDES	08/27/96	90		7.87	730	11.4		437	N/A	N/D	N/D												
NPDES	08/30/96			7.64	710	12.2																	
NPDES	09/02/96			7.86	730	12.7																	
NPDES	09/23/96	90		7.81	616	11.2		348	N/A	N/D	N/D												
NPDES	10/17/96			7.88	680	10.2																	
NPDES	10/30/96	118		8.09	665	9.8		392	N/A	13	N/D												
NPDES	11/20/96			7.95	693	8.4																	
NPDES	11/25/96	120		7.8	693	7.2		368	N/A	N/D	N/D												
NPDES	12/26/96	123		8.41	636	8.9		310	N/A	N/D	N/D												
NPDES	12/29/96			7.95	650	9.2																	
NPDES	01/17/97	124		8.05	610	9.1		350	N/A	N/D	N/D												
NPDES	01/31/97			8.1	647	9.5																	
NPDES	02/26/97	105		7.94	591	9		340	N/A	N/D	N/D												
NPDES	02/28/97			8.02	607	9.8																	
NPDES	03/13/97	98		7.9	588	8.9		340	N/A	N/D	N/D												
NPDES	03/31/97			7.86	489	9.3																	
NPDES	04/17/97			7.95	532	9.8																	
NPDES	04/30/97	126		7.82	570	8.7		330	N/A	N/D	N/D												
NPDES	05/21/97	94		8.03	583	10.3		310	N/A	N/D	N/D												
NPDES	05/29/97			7.95	580	10.6																	
NPDES	06/23/97	91		7.96	591	10.4		340	N/A	N/D	N/D												
NPDES	06/30/97			7.98	584	10.7																	
NPDES	07/14/97	146		8.32	589	11.4		310	N/A	N/D	N/D												
NPDES	07/30/97			8.05	610	10.4																	
NPDES	08/18/97	125		8.2	589	11.2		340	N/A	N/D	N/D												
NPDES	08/31/97			8.16	544	11.2																	

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
NPDES	08/18/97	110		7.85	663	11.6		440	N/A	N/D	N/D												
NPDES	09/29/97			7.92	624	11																	
NPDES	10/14/97	110		7.92	595	10.6		350	N/A	N/D	N/D												
NPDES	11/07/97	93		7.58	646	10.1		310	N/A	N/D	N/D												
NPDES	11/29/97			8.26	609	4.2																	
NPDES	12/17/97	130		7.8	615	8.9		360	N/A	N/D	N/D												
NPDES	12/31/97			7.75	691	9.7																	
NPDES-004	05/15/98			7.55	775	10		364			<2	267	342		77	34	5	1.9	351	<2	6	51.4	-0.6
PS-1	06/28/91	Dry																					
PS-1	10/17/91	Dry																					
PS-1	05/13/92	Dry																					
PS-1	10/26/92	Dry																					
PS-1	05/06/93	4		7.14	940	9.3		529			1.9		444		81.8	58.2	25.6	2.4	409	N/D	19.5	100	3.7
PS-1	10/24/93	Dry		N/A	N/A	N/A																	
PS-1	05/25/94	11		7.29	835	9.7		470	N/D	N/D	N/D		403		84	47	10	2	425	N/D	11	90	-3.4
PS-1	10/18/94	DRY		N/A	N/A	N/A																	
PS-1	05/23/95	DRY		N/A	N/A	N/A																	
PS-1	10/17/95	10		7.43	677	11.3		380	N/D	10	N/D		321		66	38	8	2	390	N/D	14	55	-7.5
PS-1	05/23/96	Seep		N/A	N/A	N/A																	
PS-1	10/30/96	2.5		7.44	751	11		427					324		67	38	5	2.0	412	N/D	5	55	-8.8
PS-1	05/21/97	Dry		N/A	N/A	N/A																	
PS-1	10/29/97	3		7.67	709	10.3		370					298		50	42	9	2	403	N/D	15	84	-15.7
SBC-10	01/31/92	248		6.8	510	N/R		313			0.0		320		76.8	31.2	3.88	0.0	312	0.0	10.0	58	-0.3
SBC-10	02/18/92	250		7.8	720	8.6		345			0.0		321		89.7	27.3	1.3	0.0	339	0.0	5.0	36	0.3
SBC-10	09/26/92	240		7.76	628	7.9		332			0.0		355		91.7	30.8	5.01	0.0	373	0.0	15.0	70	-4.4
SBC-10	05/14/92	240		7.83	638	8		322					321		77.9	30.8	2.57	0.0	363	0.0	20.0	33	-3.8
SBC-10	08/10/92	240		7.53	670	11.4		389			1.3		361		86.1	33.6	1.21	0.0	331	0.0	20.0	100	-0.7
SBC-10	10/01/92	185		7.49	660	8.2		451			0.0		350		97.6	25.83	1.19	0.0	322	0.0	5	60	2.8
SBC-10	02/18/93	185		7.09	689	9.8		356					319		73.2	33.9	4.1	0.00	318	N/D	1.3	40.0	3.6
SBC-10	05/19/93	46		7.3	636	10		360					323		77.5	31.4	3.8	1.2	320	N/D	3.0	60.0	0.5
SBC-10	08/11/93	35		7.18	637	9.9		335					230		52.7	24.0	5.1	2.0	308	N/D	11.5	5.0	-5.6
SBC-10	10/20/93	28		7.7	670	11.2		367					248		48	31.0	2	N/D	152	N/D	8.0	70.0	9.3
SBC-10	02/09/94	28		8.05	611	7.6		338					318		72	33.0	4	N/D	412	N/D	N/D	70.0	-11.8
SBC-10	05/30/94	25		7.7	620	8.8		330					304		69	32.0	4	N/D	346	N/D	4.0	6.0	2.8
SBC-10	08/18/94	25		7.85	625	9.7		340					282		65	29	N/D	N/D	316	N/D	1.0	50.0	-5.2
SBC-10	10/19/94	21		7.56	651	10.4		360					290		68	30.0	N/D	N/D	303	N/D	8	70.0	-6.4
SBC-10	02/07/95	24		8.03	645	8.9		340					310		66	34	4.0	2.0	300	5	8.0	43	0.7
SBC-10	05/08/95	22		7.81	682	10.2		370					340		78	35	4.0	3.0	330	10	6.0	54	-0.1
SBC-12	06/08/94	3		8.08	250	7		190					213		51.7	17.7	1.91	0.42	255	2	N/D	7.5	-3.3
SBC-12	10/28/94	10		8	365	5		195					240		62.5	20.6	2.5	0.55	268	N/D	N/D	6.4	4.4
SBC-12	07/10/95	12		8.03	605	6		255					241		57	24	2.7	0.42	284	N/D	3	9.1	0.2
SBC-12	10/18/95	6		7.99	360	6		228					217		49.8	18	1.8	0.2	271	N/D	3	8	-7.3
SBC-12	07/18/96	4		7.7	353	14.4	5.6	220					215		53	20	2	N/D	230	6	5	7	1.4
SBC-12	10/15/96	4		8.21	406	5																	
SBC-12	06/25/97	3		6.08	410	9.1		230					200		47	20	3	N/D	262	N/D	3	8	-4.7
SBC-12	09/10/97	16		8.29	457	12.2		230					198		46	19	3	N/D	251	N/D	3	7	-3.0
SBC-12	10/15/97	6		8.27	329	7.2		190					191		46	19	2	N/D	259	N/D	3	11	-7.8
SBC-13	02/07/95	0.9		7.3	1441	11.3		1010					740		179	71	14	4	289	N/D	12	500	0.5
SBC-13	05/08/95	Dry																					
SBC-13	08/28/96	10		7.51	1840	11.8		1538			N/D		1057		245	108	34	6	330	N/D	12	967	-4.0
SBC-13	10/30/96	35		7.59	1716	9.3		1355			N/D		906		203	97	29	5	360	N/D	11	730	-4.7
SBC-13	02/27/97	18		7.56	1563	8.9		1170			N/D		796		185	81	26	5	345	N/D	9	699	-8.8

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O & G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
SBC-13	05/22/97	16		7.62	1416	10.8		1080			N/D		703		158	75	24	5	345	N/D	10	482	-2.4
SBC-13	06/26/97	28		7.98	1190	11.3		960			N/D		634		140	69	17	3	327	N/D	7	390	-0.7
SBC-13	10/29/97	23		7.84	1319	8.1		1020			N/D		690		151	76	17	4	426	N/D	8	701	-10.7
SBC-14	10/26/93	2		7.46	2690	7.5		1908					1367		160	235	68	22	496	N/D	42	760	10.6
SBC-14	03/23/94	3.5		7.34	2370	4.7		1500					1061		120	185	44	13	506	N/D	68	850	-8.8
SBC-14	06/01/94	1.5		7.58	2480	6.3		1530					1210		135	212	50	14	561	N/D	31	800	0.0
SBC-14	08/28/94	0.5		7.89	2670	10.8		2050					1397		172	236	61	21	533	N/D	37	990	1.2
SBC-14	10/26/94	15		7.22	2320	9.8		1840					1280		146	223	56	18	630	N/D	37	1000	-6.0
SBC-14	05/24/95	6		7.71	2280	7.8		1720					1280		132	230	47	14	520	10	40	850	0.4
SBC-14	08/22/96	4		7.56	2570	11		1640					1321		138	237	56	14	573	5	40	1046	-5.3
SBC-14	06/24/97	2		8.07	2110	16.1		1880					1245		149	212	52	15	558	N/D	27.5	873	-1.0
SBC-15	07/31/91	<0.2		8	1450			1140					891		114	148	37.8	6.86	503	N/D	19.8	541	-0.9
SBC-15	10/27/92	2.8		7.72	563	5.61		328					295		67.2	31	4.86	0.01	303	N/D	5.00	50	-0.3
SBC-15	06/24/93	10		7.8	589	8.1		295					310		71	32.2	4.6	N/D	330	N/D	5.3	12	4.8
SBC 15	08/15/93	13		7.29	600	9.4		332					452		120.00	37	4.70	0.50	337	N/D	4.70	140	3.8
SBC-15	10/13/93	17		7.73	602	5.5		267					316		64	38	N/D	N/D	306	N/D	9	12	6.6
SBC-15	05/30/94	6		7.96	620	8.1		300					289		63	32	5	N/D	380	N/D	3	15	-5.0
SBC-15	08/29/94	3		8.42	534	12.4		300					289		63	32	N/D	N/D	346	N/D	2	20	-3.2
SBC-15	10/30/94	2		8.45	525	2.6		270					240		44	32	9	N/D	290	N/D	5	19	-0.7
SBC-15	06/24/97			7.67	601	7.3																	
SBC-16	07/30/91	31		8.2	600			342					326		43.3	53.1	19.8	1.93	312	N/D	4.87	98.8	-1.8
SBC-16	10/28/92	4		8.41	626	5.39		280					337		81.9	32.1	6.06	N/D	284	N/D	15	36	9.1
SBC-16	06/24/93	65		7.24	663	9.5		335					358		79.9	38.6	9.9	N/D	367	N/D	5.9	25	6.1
SBC-16	08/15/93	6		7.31	579	10.6		314					313.3		76	30	3.8	0.3	346	N/D	4.7	10	3.5
SBC-16	10/13/93	0.4		7.6	628	7.9		332					345		59	48	N/D	N/D	348	N/D	9	17	4.5
SBC-16	05/30/94	45		7.45	575	7.7		280					258		66	25	3	N/D	352	N/D	2	10	-4.9
SBC-16	08/29/94	<0.1		7.39	545	13.4		320					287		51	34	10	N/D	338	N/D	4	20	-2.4
SBC-16	10/31/94	15		8	613	2.8		330					280		64	30	11	N/D	330	N/D	7	25	0.1
SBC-16	06/24/97			7.8	538	11.2																	
SBC-16	06/24/95							311					325		81.5	29.6	3.8	0.1	342	N/D	5.9	13	4.9
SBC-17	03/17/98														116.1	176.2	23.04	19.31	460	0	8.41	690	1.4
SBC-18	07/31/91	10		8	500			262					272		76.3	19.8	3.20	0.40	328	N/D	2.23	8.23	-0.2
SBC-18	10/28/92	0.4		7.98	510	7.76		221					251		51.4	29.9	4.78	0.56	245	N/D	16	25	2.7
SBC-18	06/24/93	20		7.34	490	32.2		257					271		58.1	30.7	3.6	N/D	279	N/D	N/D	15	6.8
SBC-18	08/15/93	10		6.56	472	14.7		253					349.6		79	37	4.4	0.4	353	N/D	N/D	31	5.4
SBC-18	10/13/93	12		7.44	516	7.8		267					269		50	35	N/D	N/D	275	N/D	7	21	2.2
SBC-18	05/30/94	3		8.14	480	8.5		240					271		42	30	5	N/D	271	N/D	2	28	-2.9
SBC-18	08/30/94	0.2		7.56	421	15.4		300					225		39	31	7	N/D	237	N/D	5	18	4.5
SBC-18	10/31/94	Dry																					
SBC-18	06/25/97	18		8.18	489	7.2																	
SBC-19	07/30/91	20		8.3	1050			822					585		68	101	24.8	6.52	269	N/D	13.5	413	-1.1
SBC-19	10/27/92	4		7.64	434	5.39		258					236		55.9	23.3	2.49	N/D	262	N/D	10	9.00	0.6
SBC-19	06/24/93	70		6.44	626	22.7		292					343		101.00	21.4	2.90	N/D	344.00	N/D	3.5	9.00	8.1
SBC-19	08/15/93	22		6.88	658	5.7		319					291.1		77	24	2.5	N/D	347	N/D	4.7	8	-0.6
SBC-19	10/13/93	16		7.27	522	7.7		254					257		60	26	N/D	N/D	276	N/D	32	7	-4.5
SBC-19	05/30/94	27		7.36	572	6.3		280					277		78	28	2	N/D	378	N/D	2	6	-8.2
SBC-19	08/30/94	0.5		7.89	390	13.4		360					204		47	21	N/D	N/D	234	N/D	4	6	0.1
SBC-19	10/31/94	1		8.14	536	5.8		280					260		68	22	6	N/D	320	N/D	5	7	0.2
SBC-19	06/25/97	16		7.85	539	43.2																	
SBC-8	02/28/91		18.4	7.9	27000	3		2120		704	5.6	410	1590	0	221	252	65.7	16.4	501	0	49	1276	-1.4
SBC-9	05/28/91		23	8.3	3300	8		2360		290	LOST	466	1890	0	237	295	71.2	16.1	569	0	53.2	1400	-8.5
SBC-3	08/28/91		22.8	8.6	3000	5		2580		338	N/R	472	1950	0	260	315	83.5	18	575	0	51.9	1570	-0.7

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
SBC-3	10/17/91		23.5	7.7	3100	7		2700		140	N/R	461	1970	0	61.2	443	79	17.6	563	0	52.4	1600	-0.7
SBC-3	02/28/92		29.33	6.9	3760	8		2778					2391		542.9	251.5	106.5	25.71	509	0	55	2000	1.5
SBC-3	05/29/92		Dry																				
SBC-3	08/10/92		Dry																				
SBC-3	10/22/92		Dry																				
SBC-3	02/05/93		Dry																				
SBC-3	05/27/93		18.75	6.86	2980	12.5		2691					839		273	38.1	83.8	20.1	458	0.0	52.9	1700	-35.9
SBC-3	08/16/93		28	7.18	4000	7.9		2750					1538.9		204	250	60	1	488	N/D	53	1500	-9.9
SBC-3	10/25/93		35	7.23	3967	9.3		3267					2623		300	455	74	16	527	N/D	57	2200	0.0
SBC-3	02/09/94		Dry																				
SBC-3	05/30/94		26.1	7.2	4720	9.2		4140					2898		347	486	96	23	541	N/D	67	2500	-0.5
SBC-3	08/29/94		29.33	7.29	4610	9.2		4180					2938		362	494	108	24	533	N/D	64	2000	10.2
SBC-3	10/19/94		32.7	7.3	4290	8.8		4090					2920		364	489	105	21	537	N/D	67	3000	-7.1
SBC-3	02/28/95		Dry																				
SBC-3	05/23/95		22.8	7.2	4710	8.2		480					410		83	48	9.0	3.0	330	10.0	8.0	140	-1.8
SBC-3	08/22/95		23.67	7.52	2640	11.6		1880					1224		134	216	55.0	13.0	492	N/D	33.0	970	-3.8
SBC-3	10/18/95		26.5	7.16	4610	8.4		4330					2889		367	485	102	21	565	N/D	60	2800	-5.1
SBC-3	02/27/96		22.5	7.16	2,880	8.5		3,288					2,288		266	401	83	20	495	N/D	52	2,113	-3.6
SBC-3	05/22/96		25.55	7.09	2370	8.3		1730					1162		137	199	47	13	500	N/D	30.0	810	-0.6
SBC-3	08/27/96		26.75	7.51	1840	12.4		2552					1672		203	283	62	17	494	N/D	41	1356	-1.3
SBC-3	10/30/96		31.4	6.71	3980	8.8		3594					2334		265	406	90	19	630	N/D	54	2278	-7.5
SBC-3	02/27/97		23.15	6.98	3960	7.4		3150					2040		238	351	75	23	391	N/D	47	1810	-1.1
SBC-3	05/22/97		20.8	7.47	2350	9.7		1860					1179		144	199	42	9	503	N/D	32	990	-7.4
SBC-3	08/26/97		28.25	7.07	3580	10.1		2440					1458		190	245	75	13	518	N/D	38	932	6.1
SBC-3	10/29/97		30.8	7.08	384	9.6		3720					2294		269	394	81	18	349	N/D	5	2199	-1.8
SBC-4	10/01/86			8	527			262				258	287		53	38	4	1	315	0	4	27	0.9
SBC-4	10/28/86			8.2	529			300				264	293		58	36	5	1	323	0	5	25	1.3
SBC-4	01/05/87			8.1	500	4	NT	294		18		256	285		58	34	4	1	312	0	4	30	0.5
SBC-4	04/07/87	4		8.1	540	2	NT	272		19		262	286		35	48	5	1	319	0	4	33	0.8
SBC-4	08/26/87			8.1	520	12	NT	284		11		278	303		72	30	4	1	337	0	4	26	0.6
SBC-4	10/06/87			8	500	9	NT	296					304		67	33	4	1	338	0	4	30	0.2
SBC-4	02/28/91	130		8.3	800	2		612		11		291	442	N/S	94.5	59.1	6.3	2.63	338	8.1	12.3	160	-1.7
SBC-4	05/28/91	119		7.9	360	8		396		<1.0		304	364	N/S	86.3	36.2	4.9	1.46	371	0	4.46	75.3	-1.6
SBC-4	07/29/91	119		7.9	460	9		382		24	5.7	300	347	N/S	82.7	34.2	5	1.55	365	0	3.85	58	-0.7
SBC-4	08/06/91	113		8	300	10		366		<1	<5.0	300	346	N/S	87.3	31.2	5.3	1.43	360	2.7	4.06	57	-0.6
SBC-4	09/13/91	114		7.9	340	8		378		<1	<5.0	288	340	N/S	85.8	30.5	5.06	0.78	351	0	3	50.4	1.1
SBC-4	10/25/91	114		7.7	N/S	10		326		<1	3.6	265	291	N/S	74.3	25.6	3.88	N/D	323	0	10	39	-3.2
SBC-4	11/26/91	121		7	510	8		349		N/S	1.8	307	347	N/S	90.1	28.6	3.75	3.45	378	0	15	44	-2.4
SBC-4	12/27/91	122		6.7	610	9.5		343		1	1.7	269	301	N/S	67.1	32.4	4.68	4.52	328	0	10	38	-0.9
SBC-4	01/31/92	126		6.1	500	9		314			0		348		85.1	32.8	4.55	0	348	0	10	50	0.9
SBC-4	02/28/92	128		7.7	470	9		312			0.4		374		102.6	28.7	4.55	2.35	398	0	5	40	0.4
SBC-4	03/26/92	121		7.8	1500	11		357			0		477		123.5	40.9	2.19	0	337	0	10	50	16.9
SBC-4	04/24/92	125		7.12	450	9		320			0.2		338		97.4	23	3.68	0	263	0	20	70	1.8
SBC-4	05/29/92	124		7.69	500	9.8		369			0.8		326		78.0	31.9	2.13	0.0	345	0.0	15.0	70.0	-6.5
SBC-4	07/23/92	123		6.6	480	12		289			0.1		363		78.4	40.88	5.02	0.0	352	0.0	15.0	30.0	3.5
SBC-4	08/28/92	112		7.15	360	11.5		344			1.5		348		80.9	35.4	3.97	0.0	344	0.0	25.0	30.0	1.1
SBC-4	09/24/92	107		6.7	700	10		350			0.2		391		106.3	30.5	1.15	0.0	330	0.0	20.0	32.0	8.4
SBC-4	10/30/92	107		7.3	625	9.5		314			0.0		360		85.8	29.4	4.67	0.0	336	0.0	10.0	37.0	6.0
SBC-4	11/18/92	104		6.9	600	11		330			0.0		318		78.9	29.4	3.88	0.0	319	0.0	10.0	50.0	-0.2
SBC-4	12/16/92	100		7.06	588	12.3		348			1.9		393		95.9	37.2	3.9	0.0	322	0.0	10.0	50.0	9.8
SBC-4	01/01/93	98																					
SBC-4	02/08/93	97.5		7.7	570	18.7		355			N/D		322		97.7	19	5.84	1.5	328	N/D	12.5	37	1.7

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
SBC-4	03/01/93	98.4																					
SBC-4	04/01/93	95.5																					
SBC-4	05/20/93	111		7.3	520	14		328			1.0		318		78.4	29.8	3.0	N/D	318	N/D	6.2	50.0	1.0
SBC-4	06/01/93	121																					
SBC-4	07/01/93	116																					
SBC-4	08/16/93	131		7.4	580	11		328			N/D		300		69.0	31	4.1	0.9	328	N/D	4.2	40.0	-1.1
SBC-4	09/01/93	136																					
SBC-4	10/01/93	140		7.01	585	10		329			N/D		322		76	32	N/D	N/D	334	N/D	5.0	31.0	1.3
SBC-4	11/01/93	140																					
SBC-4	12/01/93	136																					
SBC-4	02/01/94	126		7.6	544	9		298					288		69	28	4	N/D	309	N/D	4	34	0.3
SBC-4	05/16/94	118		7.5	400	20		310					284		68	29	4	N/D	341	N/D	5	60	-8.8
SBC-4	08/10/94	116		6.7	400	16		310					286		70	27.0	N/D	N/D	321	N/D	6	60	-7.8
SBC-4	10/19/94	118		7.7	270	12		330					310		74	30.0	5	N/D	320.0	N/D	7.0	40	0.9
SBC 4	02/16/95	106		6.65	580	8		350			N/D		310		71	32	4.0	1.0	310	N/D	6.0	40	2.3
SBC-4	05/31/95	73		6.7	290	12		430			N/D		310		72	32	5.0	1.0	340	N/D	6.0	49	-2.2
SBC-4	08/23/95	124		7.45	610	14		360			N/D		315		70	34.0	6.0	2.0	336	N/D	7.0	58	-2.5
SBC-4	10/18/95	140		7.2	190	14		430			N/D		332		77	34	5.0	2.0	340	N/D	6.0	98	-5.9
SBC-4	02/27/96	142		6.95	548	7		369			N/D		338		76	36	7.0	2.0	338	N/D	6.0	88	-3.0
SBC-4	05/10/96	136		7.63	795	11		361			N/D		338		79	34.0	5.0	1.4	333	N/D	7.0	68	-0.6
SBC-4	08/13/96	148		7.38	763	12		466			N/D		406		90	44.0	6.0	2.0	367.0	N/D	9.0	95	-0.9
SBC-4	10/24/96	150		7.36	425	N/D		346			N/D		304		69	32	5.0	1.0	338	N/D	6.0	56	-4.2
SBC-4	02/26/97	133		7.35	560	11		370			N/D		318		73	33	5	1	340	N/D	7	55	-2.3
SBC-4	05/20/97	128		6.15	415	12		330			N/D		300		69	31	4	1	342	N/D	7	61	-6.7
SBC-4	08/14/97	146		7.15	480	14		360			N/D		317		74	32	5	1	341	N/D	5	54	-2.1
SBC-4	10/29/97	150		6.96	440	11		360			N/D		313		71	33	4	1	350	N/D	4	56	-4.2
SBC-4	05/26/98			6.7	480	11		337			<2	265	298		70	30	4	1	348	<5	6	45	-5.0
SBC-4	10/29/98			6.5	580	10		373			<2	288	311		70	33	5	1	352	<5	4	51	-3.8
SBC-5	03/01/91	33		7.9	680	2		484		1	<5.0	308	426		101	42.5	6.1	2.09	376	0	8.17	129	-1.2
SBC-5	06/17/91	33		7.9	640	6		500		3		328	442		101	46.5	7	2.64	400	0	6.64	123	-0.4
SBC-5	07/29/91	36		7.8	690	6		508		<1	<5.0	325	436		99	46	7.1	2.28	397	0	6.59	124	-1.0
SBC-5	08/06/91	33		7.8	690	10		480		1	<5.0	325	441		101	45.8	7	2.2	397	0	5.78	121	-0.1
SBC-5	09/27/91	29		7.7	700			473		<1	1.6	<1	462	<1	106.3	47.8	6.34	0.3	366		15	140	1.8
SBC-5	10/29/91	29		6.9		11		465		<1		330	499		117.8	49.8	6.96	0.95	402		10	140	2.6
SBC-5	11/26/91	29		6.9	610	11		487			0.6	290	447		108.5	42.7	5.59	4.37	353		20	140	0.1
SBC-5	12/27/91	29		6.8	700	10		492		1	0.8	302	366		82	39.26	5.68	4.19	368	N/D	25	90	-5.7
SBC-5	01/31/92	29		7.7	730	10.5		436			0.6		435		95	48	6.12	0.0	353	0.0	10	150	-1.3
SBC-5	02/28/92	29		7.3	600	8.8		437			0.4		424		99.2	42.9	8.13	4.8	356	0.0	5	110	4.0
SBC-5	03/26/92	29		7.7	1100	10.0		448			0.0		391		86.8	25.2	0.94	0.0	320	0.0	10	150	-13.1
SBC-5	04/27/92	29.9		7.15	550	10.8		541			0.4		475		130.5	36.4	5.88	0.0	397	0.0	20	180	-0.3
SBC-5	05/29/92	28		7.71	800	11.5		490			0.1		420		92.2	46.1	5.87	0.0	340	0.0	10	140	-0.6
SBC-5	07/23/92	28		7.8	610	12.0		455			0.5		342		82.9	33.2	2.1	0.0	267	0.0	15	130	-4.0
SBC-5	08/28/92	28		6.9	550	13.3		495			0.3		471		105.8	50.2	6.93	1.36	384	0.0	25	150	-1.9
SBC-5	09/24/92	28		7.4	500	14.8		487			0.3		466		99.1	53	3.07	0.0	370	0.0	20	140	-0.5
SBC-5	10/30/92	28.2		6.9	680	11		463			0.0		493		110.2	43.3	6.2	0.07	377	0.0	10	120	2.1
SBC-5	11/19/92	27.4		6.7	600	12		468			0.1		388		91.3	38.8	6.95	1.90	405	0.0	10	140	-9.8
SBC-5	12/16/92	27.5		7.25	740	12.6		467			0.0		533		135.0	47.8	10.30	4.10	372	0.0	25	140	7.1
SBC-5	02/08/93	27		7.7	740	18		468			N/D		308		83.1	24	3.92	0.49	242	N/D	25	115	-5.8
SBC-5	03/01/93	27																					
SBC-5	04/01/93	27																					
SBC-5	05/20/93	26		7.0	640	15		444			1.0		376		88.6	42.5	6.1	3.5	322	N/D	6.5	120	-0.5
SBC-5	06/01/93	26																					

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
SBC-5	07/01/93	25																					
SBC-5	08/16/93	24.5		6.8	732	12.5		473			N/D		468		100	53	7.2	1.0	366	N/D	6.8	120	5.4
SBC-5	09/01/93	25																					
SBC-5	10/21/93	24.5		6.73	762	10.5		475			N/D		485		105	54	N/D	N/D	392	N/D	10	100	4.9
SBC-5	11/01/93	25																					
SBC-5	12/01/93	24																					
SBC-5	02/01/94	24		6.95	718	8		422					385		95	42	7	N/D	384	N/D	7	110	-2.8
SBC-5	02/01/94	22		6.55	720	10		460			N/D		400		88	45	6.0	2.0	355	N/D	7.0	90	2.5
SBC-5	05/16/94	23		7.2	640	21		450					378		82	42	6	N/D	374	N/D	7	90	-2.4
SBC-5	08/16/94	22		7.06	800	16		460					388		85	42	N/D	N/D	378	N/D	7	90	-2.0
SBC-5	10/06/94	22		6.4	382	12.5		430					390		90	40	N/D	N/D	366.00	N/D	7.0	100	-0.6
SBC-5	05/31/95	21.5		7.1	300	9.6		519			N/D		400		88	43	7.0	2.0	390	N/D	8.0	100	-2.6
SBC-5	08/23/95	20		7.25	320	13		440			N/D		373		80	42.0	8.0	2.0	390	N/D	8.0	96	-3.7
SBC-5	10/18/95	20		7.35	290	16		510			N/D		394		87	43	7.0	3.0	395	N/D	6.0	97	-2.7
SBC-5	02/27/96	20.5		6.9	750	7		461			N/D		377		84	41	7.0	2.0	385	N/D	3.0	105	-4.1
SBC-5	05/16/96	21.5		7.45	1100	11		462			N/D		401		90	43	7.0	1.9	384	N/D	8.0	104	-1.8
SBC-5	08/13/96	21.5		7.6	624	13		377			N/D		319		75	32	5.0	2.0	337	N/D	6.0	57	-1.6
SBC-5	10/24/96	20		7.4	540	11		468			N/D		387		84	43	6.0	2.0	395	N/D	11	95	-4.3
SBC-5	02/26/97	19		6.35	670	12		460			N/D		388		88	42	7	2	395	N/D	7	38	4.1
SBC-5	05/20/97	16		5.9	538	11		460			N/D		379		84	41	5	1	384	N/D	7	121	-8.1
SBC-5	08/14/97	17		7.1	660	14		520			N/D		418		93	45	7	3	401	N/D	7	113	-2.2
SBC-5	10/29/97	21		6.8	740	13		540			N/D		443		100	47	6	3	415	6	6	127	-3.2
SBC-5	05/26/98			6.75	620	12		459			<2	321	385		85	42	6	2	392	<5	6	85	-2.1
SBC-5 Overflow	10/29/98			6.25	920	11		701			<2	360	559		125	60	8	3	439	<5	7	260	0.2
SBC-6	02/28/91	Dry																					
SBC-6	05/28/91	Dry																					
SBC-6	08/26/91	Dry																					
SBC-6	10/28/91	Dry																					
SBC-6	02/18/92	Dry																					
SBC-6	05/07/92	Dry																					
SBC-6	08/10/92	Dry																					
SBC-6	10/23/92	Dry																					
SBC-6	02/15/93	Dry																					
SBC-6	05/28/93	Dry																					
SBC-6	08/16/93	Dry																					
SBC-6	10/21/93	Dry																					
SBC-6	02/09/94	Dry																					
SBC-6	05/18/94	Dry																					
SBC-6	08/10/94	Dry																					
SBC-6	10/19/94	Dry																					
SBC-6	02/07/95	Dry																					
SBC-6	05/31/95	Dry																					
SBC-6	08/22/95	Dry																					
SBC-6	10/17/95	Dry																					
SBC-6	02/27/96	Dry																					
SBC-6	05/22/96	Dry																					
SBC-6	08/27/96	Dry																					
SBC-6	10/31/96	Dry																					
SBC-6	02/21/97	Dry																					
SBC-6	05/22/97	Dry																					
SBC-6	08/14/97	Dry																					
SBC-6	10/23/97	Dry																					

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
SBC-9	02/28/91	81		8	800	3		478		N/S	N/S	282	426	N/S	94.5	46.3	6.1	2.36	344	0	10.2	151	-1.2
SBC-9	05/28/91	118		7.9	400	6		334		2	N/S	289	321	N/S	76.2	31.8	3.9	1.45	353	0	3.35	38.3	-0.4
SBC-9	07/29/91	140		7.9	410	6		312		N/D	N/S	290	315	N/S	74.1	31.5	4	1.64	354	0	1.62	31.5	-0.1
SBC-9	08/08/91	112		7.8	300	7		340		N/D	LOST	292	311	N/S	78	28.3	3.7	1.61	356	0	4.16	30.5	-1.3
SBC-9	10/17/91	120		7.9	511	7		338		N/D	N/S	221	251	N/S	64.1	22.2	3.4	1.4	270	0	2.59	33.4	0.2
SBC-9	02/18/92	132		7.77	613	10.8		321					308		78.8	27	1.3	0	325	0	5	33	0.4
SBC-9	06/14/92	130		8.7	588	8.7		293					398		74.7	36.8	2.38	0	360	0	10	28	0.7
SBC-9	08/10/92	105		7.4	659	11.4		330					318		75.2	31.7	0.73	0	346	0	15	20	-0.9
SBC-9	10/05/92	82		7.22	619	8.7		349					346		78.2	36.7	4.09	3.11	358	0	25	27	0.3
SBC-9	02/18/93	140		8.62	530	9.8		321					294		68.2	30	3.4	0.00	341	N/D	0.5	20	0.0
SBC-9	06/19/93	177		7.35	616	10.1		328					330		77.8	33	3.4	N/D	348	N/D	4.0	28	2.7
SBC-9	08/11/93	165		6.77	725	9.9		384					278		61.7	30	3.6	1	369	N/D	6.4	40	-10.3
SBC-9	10/20/93	152		7.81	640	11.2		341					326		71	36	2	N/D	356	N/D	5	31	-0.2
SBC-9	02/09/94	175		7.96	608	8.9		349					307		70	32	3	N/D	336	N/D	N/D	70	-5.4
SBC-9	05/30/94	178		7.64	605	8.2		300					302		70	31	4	N/D	356	N/D	4	31	-3.0
SBC-9	08/18/94	175		7.09	770	9.9		420					327		78	32	N/D	N/D	395	N/D	N/D	30	-4.2
SBC-9	10/19/94	160		8.08	551	10		330					320		78	31	N/D	N/D	350	N/D	6	36	-2.5
SBC-9	02/07/95	158		7.93	626	9.5		340					310		67	34	4.0	2.0	295	N/D	5.0	28	6.7
SBC-9	05/08/95	169		7.83	686	11.1		350					358		86	35	4.0	2.0	360	N/D	6.0	33	4.5
SBC-9	08/24/95	150		7.82	590	11.55		290					307		72	31.0	5.0	1.0	357	N/D	4.0	31	-1.7
SBC-9	10/17/95	135		7.54	581	11.1		340					292		69	29	4.0	1.0	355	N/D	6.0	39	-6.0
SBC-9	02/27/96	130		7.35	485	10.7		336					287		67	29	4.0	1.0	351	N/D	11	34	-6.6
SBC-9	05/21/96	130		7.9	598	10.7		484					420		102	40	6.0	2.0	440	N/D	8.0	64	-0.5
SBC-9	08/28/96	130		7.54	650	10.4		365					312		69	34	4.0	1.0	357	N/D	6.0	46	-4.3
SBC-9	10/30/96	133		7.85	577	9.8		350					335		49	29	4.0	1.0	362	N/D	6.0	43	-16.3
SBC-9	02/27/97	125		7.85	602	9.8		340					316		73	33	4	2	357	N/D	6	43	-2.5
SBC-9	05/23/97	126		8.09	658	9.9		350					273		63	28	3	N/D	356	N/D	5	39	-9.6
SBC-9	08/26/97	126		7.89	601	11.1		320					287		64	31	4	1	356	N/D	4	54	-8.6
SBC-9	10/29/97	122		7.7	568	11.6		290					289		63	32	3	1	392	N/D	4	36	-10.2
SBC-9 Source	05/15/96			7.05	730	10		341			<2	298	339		75	33	3	0.8	364	<2	6	29.3	-1.0
SBC-9 Source	11/13/96			7.28		11.1		301				306	319		75	32	3	1	373	<5	3	28	-1.8
SBC-9 Source	01/06/99			7.5	490	9.8		363		<5		319	330		81	31	3	1	389	<5	3	44	-4.5
SDH-1	08/29/94		1786	10.2	720	11.1		269					180		59	8	44	9	32	24	61	160	-5.2
SDH-2	06/22/95		1522.3																				
SDH-2	06/30/96			9.97	325	13.8	0	280				72	131		49	2	13	3	87	<5	31	63	-5.1
SDH-3	06/26/95		1519.9																				
SDH-3	06/30/96			8.39	540	16.9	0	358				325	308		64	36	12	3	396	<5	28	1	-3.9
SMH-1	08/02/91	9.8		8.4	500			272					281		69.2	21.5	5.10	0.61	303	3.30	6.27	16	-0.7
SMH-1	03/22/93	Dry																					
SMH-1	06/21/93	10		6.39	713	7.11		378					355		81.3	37	7.9	2.5	366	N/D	13.1	27	4.0
SMH-1	08/29/93	30		7.3	648	8.4		324					263.6		71	38	7.4	1.6	361	N/D	6.3	22	11.6
SMH-1	10/15/93	8		7.4	678	6.3		324					357		50	32	N/D	N/D	328	N/D	9	25	-9.0
SMH-1	06/16/94	15		7.69	632	8.1		306					290		70	28	7	N/D	348	N/D	6	19	-1.5
SMH-1	08/30/94	13		7.9	627	7.8		370					311		75	30	7	N/D	334	N/D	1	21	4.6
SMH-1	10/31/94	32		8.02	594	9.3		348					300		69	30	12	N/D	370	N/D	6	20	-2.1
SMH-1	06/29/97	20		7.45	676	7.8																	
SMH-2	08/02/91	8.5		8	560			328					302		81.7	23.9	5.80	2.91	367	0.00	7.20	13	-0.9
SMH-2	10/13/92	6.6		7.68	540	9.72		149					318		103.8	14.6	1.81	0.00	328	0.00	26	9.00	1.4
SMH-2	06/21/93	1.5		7.38	496	10.9		321					286		75.9	26.6	4.5	2.1	306	N/D	4.2	10	7.0
SMH-2	08/29/93	3		6.8	568	7.9		294					224.3		54	21	3.9	0.4	294	N/D	4.6	7	-5.2
SMH-2	10/15/93	6.8		7.34	572	5.9		278					260		66	23	N/D	N/D	231	N/D	13	8	8.9
SMH-2	06/15/94	12		7.7	527	7.4		260					249		65	21	4	N/D	329	N/D	3	10	-5.0

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
SMH-2	08/30/94	6		7.85	505	11.8		270					255		64	23	6	N/D	293	N/D	6	7	2.1
SMH-2	10/31/94	10		8.14	469	8.6		270					246		64	21	7	N/D	311	N/D	6	8	-1.8
SMH-2	05/28/97	15		8.05	546	9.4																	
SMH-3	08/28/93	35		6.99	607	7.2		332					313.2		71	33	6	1.1	313	N/D	4.2	23	6.7
SMH-3	10/15/93	21		7.85	597	6.4		287					308		69	33	N/D	N/D	311	N/D	9	20	3.3
SMH-3	06/15/94	46		7.4	617	5.6		290					275		64	28	5	N/D	325	N/D	4	21	-1.5
SMH-3	08/30/94	22		7.72	462	13		370					240		50	28	N/m	N/D	267	N/D	7	27	-3.4
SMH-3	10/31/94	45		7.6	502	8.6		308					273		63	28	7	N/D	325	N/D	7	26	-2.8
SMH-3	06/28/95	60		7.55	542	7.8		320					280		62	30	6	N/D	315	5	10	17	-1.2
SMH-3	05/29/97	35		7.32	590	7																	
SMH-4	08/01/91	8.7		7.5	500			390					326		86.3	27	4.00	3.40	391	N/D	5.27	8.64	0.6
SMH-4	10/13/92	0.5		7.20	642	8.44		318					342		88.1	42.9	6.83	0.27	314	N/D	10	98	-1.1
SMH-4	06/24/93	0.2		7.24	667	5.7		325					337		71.6	38.4	8.4	N/D	317	N/D	8.3	35	7.1
SMH-4	08/29/93	0.5		6.95	780	6.6		354					327.2		70	37	16	1.1	297	N/D	12.6	58	7.3
SMH-4	10/15/93	1.2		7.42	662	4.6		333					338		53	50	11	N/D	302	N/D	16	41	7.3
SMH-4	06/15/94	2		7.8	618	5.3		320					290		47	42	10	N/D	321	N/D	8	40	-0.6
SMH-4	08/30/94	2		7.8	558	10.9		330					297		46	43	11	N/D	311	N/D	10	32	3.0
SMH-4	10/31/94	4		7.8	643	8.2		330					280		43	43	15	N/D	310	N/D	11	38	1.3
SMH-4	06/25/97	1-2		7.76	646	6.7																	
SP-1	05/28/91	Dry																					
SP-1	10/27/91	Dry																					
SP-1	05/14/92	Dry																					
SP-1	10/28/92	Dry																					
SP-1	05/06/93	Dry																					
SP-1	10/26/93	Dry																					
SP-1	05/31/94	Dry																					
SP-1	10/18/94	Dry																					
SP-1	05/23/95	DRY																					
SP-1	10/18/95	DRY																					
T.S. North Bleeder	05/28/98							356				301	369		68	34	4	2	368	<5	24	44	-8.7
TS-1	05/28/91	3.2		7.9	740	8		414			N/A		362		68.3	46.6	15.3	3.26	360	0	15	88.5	-1.1
TS-1	10/17/91	22		8.1	800	7		480			N/A		416		96.9	42.5	11	2.71	438	0	11.8	78.7	-1.4
TS-1	05/13/92	4		7.21	843	7.8		463			0.3		440		85.7	54.9	12.16	0.0	425	0.0	25	60	2.2
TS-1	10/10/92	2.3		2.3	904	50.2		480			0.0		545		135.5	50.3	5.76	2.56	424	0.0	25	90	8.1
TS-1	05/06/93	20		7.22	980	9.4		534					426		75.1	58	13.1	2.0	430	N/D	21.7	100	-3.2
TS-1	10/24/93	11		7.48	863	9.7		379					435		85	64	12	N/D	422	N/D	16	80	0.9
TS-1	05/25/94	15		7.1	900	9.6		470	N/D	N/D	N/D		417		83	51	12	2	447	N/D	15	70	-1.7
TS-1	10/18/94	8		7.47	829	10.1		490	N/D	N/D	N/D		430		88	52	13	N/D	440	N/D	16	120	-5.0
TS-1	05/23/95	45		7.49	671	10		510					420		84	52	12	3	430	N/D	23	7	7.2
TS-1	10/18/95	15		7.34	702	10.5		380					328		67	39	9	2	380	N/D	14	57	-5.5
TS-1	05/23/96	35		7.4	856	9.9		489					5		78	51	12	3	430	N/D	20	68	-1.9
TS-1	10/30/96	12		7.36	845	10.6		490					354		66	2	11	2.0	467	N/D	18	88	-41.3
TS-1	05/21/97	65		7.53	756	9.7		400					343		68	42	9	3	381	N/D	15	58	-3.6
TS-1	10/29/97	26		7.23	756	10.8		480					338		61	45	10	3	434	N/D	23	55	-10.2
UT-1	05/28/91	Dry																					
UT-1	10/17/91	Dry																					
UT-1	05/14/92	Dry																					
UT-1	10/28/92	Dry																					
UT-1	05/06/93	Dry		N/A	N/A	N/A	N/A																
UT-1	05/26/93	122		8.17	492	8.7	8.1	262	N/D	63	0.3		239	N/D	61.4	20.9	3.0	N/D	258	N/D	3.8	20	1.6
UT-1	10/24/93	<0.05		N/A	N/A	N/A	N/A																
UT-1	05/25/94	Dry																					

Table A-1

Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O&G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
UT-1	10/18/94	Dry																					
UT-1	05/23/95	64		8.8	497	7.8	5.4	270	0.6	565	N/D		240		65	19	3	2	350	30	7	2	-10.7
UT-1	10/17/95	40		8.37	464	11.8	5.5	256	N/D	15	N/D		232		45	20	7	1	245	25	9	24	-6.0
UT-1	05/23/96	75		8.65	451	6.4	5.4	265	N/D	148	N/D		214		46	24	5	N/D	255	15	7	46	-12.9
UT-1	10/30/96	Dry		N/A	N/A	N/A	N/A																
UT-1	05/21/97	200		8.79	442	10.9	8.2	240	0.7	N/D	N/D		198		46	19	3	N/D	274	N/D	5	28	-12.0
UT-1	10/29/97	18		8.63	545	6.6	7.5	360	N/D	8	N/D		246		39	36	7	1	210	N/D	9	25	9.4
WHR-7	07/30/91	40		8.2	450			214					224		51.6	23.2	4.60	0.88	250	0.00	2.63	28	-0.5
WHR-8	07/31/91	5		8.1	500			294					297		83.3	21.7	3.90	0.46	360	0.00	2.94	10.3	-0.5
WHR-8	10/28/92																						
WHR-8	04/09/91	4		8.1	450			270					268		70.1	16.6	2.40	0.22	320	0.00	3.04	6.58	-1.8

Table A-1

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Site	Date	Flow gpm	DTW ft bgs	pH	Cond µS/cm	T °C	D.O. mg/l	TDS (mg/l)	T Set Sol (mg/l)	TSS (mg/l)	O &G (mg/l)	T. Alk (mg/l)	T. Hard (mg/l)	T. Acid (mg/l)	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	HCO3 mg/l	CO3 mg/l	Cl mg/l	SO4 mg/l	Bal %
BC-3	05/19/93	Dry																					
BC-3	06/11/93	Dry																					
BC-3	07/31/93	Dry																					
BC-3	08/16/93	Dry																					
BC-3	09/24/93	Dry																					
BC-3	10/20/93	Dry																					
BC-3	02/09/94	Dry																					
BC-3	05/24/94	Dry																					
BC-3	06/22/94	Dry																					
BC-3	07/19/94	Dry																					
BC-3	08/10/94	Dry																					
BC-3	09/01/94	Dry																					
BC-3	10/18/94	Dry																					
BC-3	02/07/95	Dry																					
BC-3	05/23/95	Dry																					
BC-3	06/15/95	Dry																					
BC-3	07/27/95	Dry																					
BC-3	08/22/95	Dry																					
BC-3	09/29/95	Dry																					
BC-3	10/17/95	Dry																					
BC-3	02/27/96	Dry																					
BC-3	05/22/96	Dry																					
BC-3	06/20/96	Dry																					
BC-3	07/10/96	Dry																					
BC-3	08/30/96	Dry																					
BC-3	09/02/96	Dry																					
BC-3	10/31/96	Dry																					
BC-3	02/27/97	Dry																					
BC-3	05/22/97	Dry																					
BC-3	06/30/97	Dry																					
BC-3	07/30/97	Dry																					
BC-3	08/26/97	Dry																					
BC-3	09/15/97	Dry																					
BC-3	10/29/97	Dry																					
Birch #1 Source	10/29/96			6.45	700	10		476			<2	335	395		89	42	6	2	409	<5	6	91	-3.2
Birch #2 Source	10/29/96			6.55	720	10		476			<2	330	296		51	41	6	2	402	<5	7	21	-7.5
BP-1	05/28/91	<0.1		8	790	10		406			N/A		370		72.8	45.8	10.8	2.76	398	0	10.8	67.5	-1.8
BP-1	10/17/91	0.75		7.9	797	8		406			N/A		428		92.7	47.9	11.2	4.85	475	0	11.2	55.6	-0.5
BP-1	05/14/92	0.2		7.57	802	12.2		443			0.2		450		92.7	55.2	9.47	0	348	0	25	53	12.1
BP-1	10/28/92	0.2		7.92	825	48.1		436			1.3		335		54.7	48.2	16.88	1.74	460	0	15	36	-8.0
BP-1	05/06/93	0.2		7.13	965	9.2		615					507		77.4	76.1	15.3	2.6	403	N/D	22.8	210	-3.4
BP-1	10/26/93	<0.1		8.06	1009	10.7		475					453		89	56	12	N/D	474	N/D	16	80	-1.6
BP-1	05/31/94	0.5		7.9	757	11.1		410	N/D	N/D	N/D		379		76	46	9	N/D	449	N/D	9	60	-5.3
BP-1	10/18/94	<0.1		7.75	730	9.1		420	N/D	N/D	N/D		400		83	46	9	N/D	450	N/D	12	70	-4.9
BP-1	05/23/95	0.3		8.42	821	14		510					420		75	57	11	3	410	20	16	100	-4.9
BP-1	10/17/95	Seep		N/A	N/A	N/A																	
BP-1	05/22/96	Seep																					
BP-1	10/31/96	Seep																					
BP-1	05/21/97	Seep		7.66	794	15.1																	
BP-1	10/29/97	Seep		7.28	811	5.9																	
BS-6	02/25/95			8.2				320		45					68	29	5	1.2	269	0	3	27	8.8
BS-6	03/20/95			8				390		54					67	27	2	0.8	281	0	4	29	6.4

Table A-1