

Z-1																				
Sample Number	Date	Flow gpm	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	FE/UG mg/L	MN/UG mg/L	AL/UG mg/L	Sp. Cond. Micromhos	TDS mg/L	Cl mg/L	F mg/L	TURB NTU	NH3 mg/L
4220 052	11/3/1982		4.1	0	491	840	121.0	10.35	140											
4220 889	4/21/1987		4.3	8	962	>300	98.9	7.67	2154		56.2									
4220 372	11/15/1988	80	4.7	14	920	445	100.0	9.06	2541	28	48.4									
4220 269	10/17/1990		4.9	20	880	>300	110.0	6.25	2304	18	47.9									
4220 699	8/1/1991		4.4	7	858	>300	97.2	4.08	2145	23	27.1									
4220 745	10/2/1991		5.3	24	794	>300	86.5	2.83	2255	11	39.8									
OPER	3/27/1992	65	4.4	0	894	544	47.3		2840	4					2850	1747				
4220 963	4/14/1992		3.7	0	954	>300	93.6	16.20	2475	<2	43.2									
OPER	4/24/1992	40	3.7	0	1042	20.2	9.0		1568	2					2480	1612				
4220 202	11/3/1992		4.3	2	554	243	57.3	4.98	1389	29	18.8									
OPER	12/22/1992	75	3.9	0	748	242	50.0		2103	4					3020					
4220 284	1/6/1993		4.5	12	766	295	79.2	16.00	1903	15	31.5									
OPER	1/12/1993		3.8	0	873	359	90.5		2280	8					3180					
OPER	2/11/1993		3.6	0	1011	379	89.5		2416	13					3370					
OPER	3/18/1993		3.4	0	868	345	82.0		2164	6					3020					
OPER	4/13/1993		3.1	0	774	177	41.2		2383	5					3100					
4220 463	5/12/1993		4.4	10	914	>300	81.1	8.29	2244	14	29.5									
OPER	5/19/1993		3.5	0	944	388	89.2		2296	5					3280					
OPER	6/15/1993		3.8	0	900	400	93.5		2358	16					3020					
OPER	7/9/1993		3.6	0	731	440	92.0		2284	14					3200					
4220 567	7/21/1993		4.6	14	954	>300	92.8	5.07	2266	30	24.6									
OPER	8/24/1993		4.0	0	855	412	95.0		2210	22					3180					
4233 705	9/8/1993		4.9	19	870	>300	84.3	4.05	1562	20	18.5									
OPER	9/9/1993		3.9	0	879	421	96.5		2197	28					3120					
OPER	10/6/1993		4.2	0	682	391	90.5		2337	21					3060					
4220 707	11/4/1993		4.8	18.2	690	282	71.3	5.17	274	18	26.7									
OPER	11/15/1993		3.8	0	637	20.4	64.9		2049	<1					2950					
OPER	12/9/1993		2.8	0	717	370	870.0		1699	49					3640					
4220 795	3/29/1994		3.7	0	926	>300	88.4	28.80	1826	12	22.0									
4249 125	7/7/1994		4.4	10	1098	>300	95.3	7.90	1423	<3	12.8									
4220 037	11/9/1994		4.9	24	868	391	83.2	4.38	1890		11.1						3	0.71		1.49
4220 121	2/22/1995		4.3	7.8	792	>300	79.4	6.85	1772	<3	10.6									
4233 504	5/28/1997	108	4.3	9.8	908				312	16					2880	3666	3	1.4	8.9	1.09
4211 034	6/3/1997		4.4	10.2	914	>300	76.8	9.25	1573	64	<10	>300000	76800	9250						

4233 604	8/27/1997	60	4.8	19	984	408	104.0	5.08	1740	8	8.1				2700	3648	3	0.55	9.5	1.09
4233 605	9/3/1997	60	4.8	22	894	277	70.0	3.67	1530	24	5.9				2640	3640	3	1.46	5.1	1.07
4233 606	9/8/1997	60	4.9	20	882	446	91.6	4.70	1500	12	7.5				2640	3806	5	0.66	9.2	1.38
4233 614	9/17/1997	60	4.9	26	914	390	105.0	4.28	1170	16	7.4				2680	3666	3	0.51	2.4	1.17
4233 622	11/8/1997	60	4.4	9.2	406	146	41.3	4.18	585	22	3.0				1252	1282	1	0.73	16.5	0.51
4233 629	1/20/1998	120	4.1	6.8	780	351	85.0	14.90	1490	10	8.6				2720	3492	3	0.9	9.5	0.94
4233 635	1/23/1998	135	4.0	5	650	375	94.5	16.30	1810	16	9.0				2760	3290	3	0.88	13.3	0.97
4233 650	4/14/1998	130	4.1	6.2	724	394	104.0	14.10	1400	20	391.0				2840	3526	3	1.19	16.8	1.05
4233 655	4/19/1998	135	4.0	4.4	860	371	87.2	13.40	1800	38	7.3				2760	3320	3	1.18	18.2	0.87
4233 676	6/11/1998	150	4.3	9.6	886	>300	89.9	12.10	2038	<3	<10									
4233 703	7/31/1998	68	4.6	13.6	818	>300	83.1	6.63	1890.8	8	<10									
4233-711	8/27/1998		4.7	17.8	702	>300	78.6	5.14	2165	<3	<10									
4211-333	9/23/1998		4.8	17.8	670	>300	85.4	4.77	2110	<3	<10									
4211-362	10/26/1998		4.6	12.4	672	269	66.8	3.11	2053.9	10	<10									
4211-394	11/23/1998		4.7	17	602	279	69.7	3.14	1815.9	<3	<10									
4233-775	12/21/1998		4.7	10.6	584	264	66.4	4.64	1317.8	6	<10									
4233-782	12/22/1998		4.5	10.4	236	92.9	28.4	6.11	783	<3	<10									
4233-847	1/13/1999		4.9	17.4	620	>300	78.6	3.61	2053	16	<10									
4233-867	1/25/1999		3.9	0	218	56.1	29.5	12.40	717.7	8	<10									
4215-616	1/28/1999		4.2	8	516	190	68.8	14.60	1417.9	<3	<10									
4233-895	2/2/1999		4.1	6.2	624	239	77.8	13.20	1773.6	<3	<10									
4215-719	2/26/1999		4.2	7.6	636	297	85.5	13.00	1597	<3	<10									
4211-411	3/24/1999		4.1	5	726	300	85.7	14.80	2485.8	<3	<10									
4211-433	4/13/1999		4.1	8.8	652	250	72.7	14.70	1869.1	4	<10									
4211-526	6/7/1999		4.2	7.2	720	>300	81.5	13.50	2355.8	<3	<10									
4211-584	7/8/1999		4.3	9.2	886	430	99.4	9.44	1312.3	10	6.6	3050	3256	4	0.8	5.68	1.17	<.04	<.004	<.01

Z-1A																				
Sample Number	Date	Flow gpm	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	FE/UG mg/L	MN/UG mg/L	AL/UG mg/L	Sp. Cond. Micromhos	TDS mg/L	Cl mg/L	F mg/L	TURB NTU	NH3 mg/L
4233-625	11/8/1997		3.2	0	124	246	81.0	14.70	759	36	5.3	2240	2326	2	0.59	1.4	0.8	0.15	<.004	<.01
4233-630	1/20/1998		3.3	0	756	256	80.4	12.40	1650	6	7.6	2690	2948	3	0.55	<1	0.96	<.04	<.004	<.01
4233-636	1/23/1998		3.4	0	542	243	77.9	12.50	1070	24	6.5	2380	2674	2	0.55	7	0.87	0.06	<.004	<.01
4233-648	4/14/1998	30	3.2	0	398	145	52.5	9.57	872	48	5.0	1878	1796	2	0.63	10.7	0.66	0.09	<.004	0.014
4233-677	6/11/1998		3.1	0	812	269	92.2	17.10	2078.9	<3	<10									
4233-704	7/31/1998	10	3.1	0	846	288	87.1	15.10	2329.9	6	<10									
4233-712	8/27/1998		3.0	0	568	276	83.4	14.90	2142	<3	<10									
4211-334	9/23/1998		3.1	0	772	283	85.7	15.10	2051	<3	<10									
4211-363	10/26/1998		3.0	0	736	218	68.3	11.50	1909.3	8	<10									
4211-395	11/23/1998		3.3	0	652	200	62.0	11.20	1820.5	6	<10									
4233-776	12/21/1998		3.1	0	422	121	46.0	11.60	1154.4	16	<10									
4233-781	12/22/1998		3.2	0	470	160	54.2	11.80	1539	8	<10									
4233-848	1/13/1999		3.2	0	416	143	51.7	11.80	1260.8	6	<10									
4233-868	1/25/1999		3.2	0	466	161	57.3	10.78	1417.8	8	<10									
4215-617	1/28/1999		3.2	0	510	172	65.4	12.50	1418.4	<3	<10									
4215-720	2/26/1999		3.2	0	570	203	77.8	13.40	1780.9	<3	<10									
4211-412	3/24/1999		3.1	0	622	204	80.0	14.60	1924.2	<3	<10									
4211-434	4/13/1999		3.2	0	552	166	63.5	13.00	1481.9	<3	<10									
4211-527	6/7/1999		3.1	0	708	242	83.8	15.40	2358.4	<3	<10									
4211-585	7/8/1999		2.9	0	868	313	101.0	15.70	1771.1	10	6.8	3450	3852	4	1.01	1.29	1.27	<.04	<.004	<.01

																			Z-6	
Sample Number	Date	Flow gpm	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	FE/UG mg/L	MN/UG mg/L	AL/UG mg/L	Sp. Cond. Micromhos	TDS mg/L	Cl mg/L	F mg/L	TURB NTU	NH3 mg/L
4220 796	3/29/1994		3.3	0	744	222	81.9	34.10	1946	22	27.6									
4220 831	4/19/1994		3.1	0	960	>300	96.5	22.40	1776	26	51.5									
4249 131	7/7/1994		2.7	0	1032	251	91.9	10.40	1108	14	15.7									
4220 903	7/13/1994		2.7	0	952	270	102.0	10.90	1561	<2										
4249 269	8/1/1994		2.7	0	992	255	97.6	8.92	2100		14.3								<.004	
4220 075	12/7/1994	80	3.0	0	656	182	63.1	7.15	1376	<3	16.0									
4220 122	2/22/1995		3.1	0	700	248	76.5	9.28	1728	<3	12.2									
4211 671	8/8/1996	100	3.1	0	932	321	139.0	12.70	1870	<2	9.6			3				<.04	<.004	0.013
4211 753	10/7/1996	300	3.2	0	918	290	88.3	14.30	1760	<2	8.8	2890	3770	3	1.14	<1	1.14	<.04	<.004	<.01
4211 829	12/5/1996	120	3.3	0	790	215	60.0	12.50	1430	<2	7.1	2700	2970	3	1.1	1.3	0.98	<.04	<.004	<.01
4211 872	1/8/1997	120	3.3	0	870	306	76.3	13.10	1480	14	8.9	2980	3196	3	1.1	1.1	1.14	<.04	<.004	0.012
4211 951	4/10/1997		3.2	0	910	262	82.5	15.30	2157.8	<3	<10									
4233 505	5/28/1997	139	2.9	0	926	2.99	3.7	<.50	1470	10		2990	3706	3	1.2	1.8	0.9	<.04	<.004	
4211 035	6/3/1997		3.0	0	780	212	71.1	9.60	1353	<3	<10									
4233 603	8/25/1997	65	4.8	15.2	918	354	83.8	5.06	1330	16	7.6	2710	3940	4	0.65	15.7	1.02	<.04	<.004	<.01
4233 607	9/8/1997	70	2.7	0	894	218	95.3	8.60	1230	<2	8.8	3210	4138	3	0.61	<1	1.53	<.04	<.004	<.01
4233 615	9/17/1997	70	2.7	0	888	202	113.0	8.06	1070	14	8.2	3180	3502	3	0.59	<1	1.5	<.04	<.004	<.01
4233 623	11/8/1997	74.2	3.1	0	706	106	49.1	6.05	621	36	4.2	1678	1360	2	0.48	24	0.64	0.06	<.004	<.01
4233 631	1/20/1998	130	3.2	0	750	230	83.0	17.50	1660	<2	8.3	2800	2956	2	0.95	3.8	0.88	<.04	<.004	<.01
4233 639	1/23/1998	182	3.2	0	616	240	82.9	16.10	1470	8	8.8	2860	3276	3	0.98	7.1	0.94	<.04	<.004	<.01
4233 644	4/9/1998	395	3.2	0	774	251	88.1	15.60	2000	40	6.6	2900	3544	3	1.16	3.1	0.91	0.04	<.004	0.012
4233 649	4/14/1998	450	3.1	0	616	258	90.0	16.60	1050	38	6.3	2680	3172	3	1.03	14	0.84	0.04	0.004	<.01
4233 656	4/19/1998	340	3.0	0	738	221	81.1	15.40	1100	42	6.8	2720	2906	2	1.09	5.7	0.9	<.04	<.004	<.01
4233 678	6/11/1998	165	3.0	0	888	269	92.5	15.80	2073	<3	<10									
4233 705	7/31/1998	75	2.7	0	832	198	91.3	10.10	2057.5	14	<10									
4233-713	8/27/1998		2.6	0	708	138	79.9	9.30	1987	4	<10									
4211-335	9/23/1998		2.6	0	746	140	91.9	11.20	2042	<3	<10									
4211-364	10/26/1998		2.7	0	572	114	67.6	8.94	1591.8	6	<10									
4236-830	11/5/1998		2.8	0	664	126	72.5	9.40	1905.9	<3	<10									
4236-834	11/10/1998		2.8	0	650	143	80.7	11.20	1719.1	6	<10									
4233-750	11/12/1998		2.8	0	672	141	77.3	10.60	1806.8	<3	<10									
4233-751	11/15/1998		2.8	0	618	166	90.6	11.30	1630	6	8.0	3110	2869	3						
4233-767	11/18/1998		2.8	0	682	172	92.9	11.80	1440	34	7.9	3110	3401	3						
4211-396	11/23/1998		2.9	0	598	117	62.0	8.59	1694.9	<3	<10									

4233-768	12/7/1998		2.8	0	566	165	92.6	12.80	1180	30	8.6	3040	3056	4						
4233-777	12/21/1998		2.8	0	616	139	75.1	11.04	1489.9	8	<10									
4233-780	12/22/1998		2.9	0	410	97.1	52.2	8.39	1276	8	<10									
4233-849	1/13/1999		3.1	0	532	173	76.4	14.10	1882.8	<3	<10									
4233-851	1/22/1999		3.1	0	400	94.7	44.5	8.32	1220	12	<10									
4233-894	1/29/1999		3.2	0	332	94.7	53.9	15.10	1030	4	<10									
4233-896	2/2/1999		3.2	0	422	1198	53.6	10.40	1228.7	<3	<10									
4211-415	3/24/1999		3.1	0	582	181	71.1	13.40	1561	<3	<10									
4211-435	4/13/1999		3.2	0	492	129	57.5	14.00	1299.6	<3	<10									
4211-502	5/25/1999		3.1	0	602	176	74.7	16.00	1471.5	<3	<10									
4211-530	6/7/1999		2.9	0	736	207	83.8	16.40	1826	<3	<10									
4211-588	7/8/1999		2.6	0	728	196	103.0	13.10	1743.1	<2	7.8	3640	3746	3	0.88	1.13	1.39	<.04	<.004	<.01

Sample Number	Date	NO3 mg/L	As mg/L	Ba mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Cu mg/L	Pb mg/L	Mg mg/L	Hg mg/L
4220 052	11/3/1982										
4220 889	4/21/1987										
4220 372	11/15/1988		<.004	0.018	0.001175		<.05	0.033	<.02		
4220 269	10/17/1990										
4220 699	8/1/1991										
4220 745	10/2/1991										
OPER	3/27/1992										
4220 963	4/14/1992										
OPER	4/24/1992										
4220 202	11/3/1992										
OPER	12/22/1992										
4220 284	1/6/1993										
OPER	1/12/1993										
OPER	2/11/1993										
OPER	3/18/1993										
OPER	4/13/1993										
4220 463	5/12/1993										
OPER	5/19/1993										
OPER	6/15/1993										
OPER	7/9/1993										
4220 567	7/21/1993										
OPER	8/24/1993										
4233 705	9/8/1993										
OPER	9/9/1993										
OPER	10/6/1993										
4220 707	11/4/1993										
OPER	11/15/1993										
OPER	12/9/1993										
4220 795	3/29/1994										
4249 125	7/7/1994										
4220 037	11/9/1994	<.04	<.02	0.011	<.001	135	<.02	<.01	<.005		<.001
4220 121	2/22/1995										
4233 504	5/28/1997	<.04	<.004						0.0		<.001
4211 034	6/3/1997										

4233 604	8/27/1997	<.04	<.004	<.01	0.05	144	<.05	<.01	3.5	218	<.001
4233 605	9/3/1997	<.04	<.004	<.01	<.01	109	<.05	<.01	<.001	184	<.001
4233 606	9/8/1997	<.04	<.004	<.01	0.02	135	<.05	<.01	2.5	244	<.001
4233 614	9/17/1997	<.04	<.004	<.01	0.015	154	<.05	<.01	<.001	211	<.001
4233 622	11/8/1997	<.04	<.004	0.011	0.01	69.4	<.05	<.01	0.0	96.3	
4233 629	1/20/1998	<.04	<.004	<.01	0.015	135	<.05	<.01	<.001	223	<.001
4233 635	1/23/1998	<.04	<.004	<.01	0.013	146	<.05	<.01	<.001	243	<.001
4233 650	4/14/1998	<.04	<.004	<.01	0.036	151	<.05	<.01	<.001	250	<.001
4233 655	4/19/1998	<.04	<.004	<.01	<.01	129	<.05	<.01	<.001	237	<.001
4233 676	6/11/1998										
4233 703	7/31/1998										
4233-711	8/27/1998										
4211-333	9/23/1998										
4211-362	10/26/1998										
4211-394	11/23/1998										
4233-775	12/21/1998										
4233-782	12/22/1998										
4233-847	1/13/1999										
4233-867	1/25/1999										
4215-616	1/28/1999										
4233-895	2/2/1999										
4215-719	2/26/1999										
4211-411	3/24/1999										
4211-433	4/13/1999										
4211-526	6/7/1999										
4211-584	7/8/1999	0.047	154.000	<.05	<.01	0.00231	262	<.001	1.5	<.007	2.28

Sample Number	Date	NO3 mg/L	As mg/L	Ba mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Cu mg/L	Pb mg/L	Mg mg/L	Hg mg/L
4233-625	11/8/1997	0.011	122.000	<.05	0.027	0.0017	188		1.0	<.007	1.36
4233-630	1/20/1998	0.012	125.000	<.05	<.01	<.001	215	<.001	1.3	<.007	1.85
4233-636	1/23/1998	<.01	118.000	<.05	0.011	<.001	207	<.001	1.0	<.007	1.51
4233-648	4/14/1998	<.01	81.900	<.05	<.01	<.001	143	<.001	0.8	<.007	1.26
4233-677	6/11/1998										
4233-704	7/31/1998										
4233-712	8/27/1998										
4211-334	9/23/1998										
4211-363	10/26/1998										
4211-395	11/23/1998										
4233-776	12/21/1998										
4233-781	12/22/1998										
4233-848	1/13/1999										
4233-868	1/25/1999										
4215-617	1/28/1999										
4215-720	2/26/1999										
4211-412	3/24/1999										
4211-434	4/13/1999										
4211-527	6/7/1999										
4211-585	7/8/1999	0.037	162.000	<.05	<.01	0.00255	274	<.001	1.5	<.007	2.23



Sample Number	Date	NO3 mg/L	As mg/L	Ba mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Cu mg/L	Pb mg/L	Mg mg/L	Hg mg/L
4220 796	3/29/1994										
4220 831	4/19/1994										
4249 131	7/7/1994										
4220 903	7/13/1994										
4249 269	8/1/1994	0.00086		<.004	<.01	0.00169			1.8	<.007	2.61
4220 075	12/7/1994										
4220 122	2/22/1995										
4211 671	8/8/1996	0.055		<.05		0.0016		<.001		<.007	
4211 753	10/7/1996	<.01	139.000	0.067	<.01	0.0018	186	<.001	1.5	<.007	2.35
4211 829	12/5/1996	0.012	109.000	<.05	<.01	0.0016	145	<.001	1.3	<.007	2.1
4211 872	1/8/1997	0.047	126.000	<.05	<.01	0.0034	193	<.001	1.6	<.007	2.56
4211 951	4/10/1997										
4233 505	5/28/1997					0.0014		<.001		<.007	
4211 035	6/3/1997										
4233 603	8/25/1997	0.015	130.000	<.05	<.01	0.0018	186	<.001	1.6	<.007	2.33
4233 607	9/8/1997	0.011	143.000	<.05	<.01	0.00218	255	<.001	1.5	<.007	2.21
4233 615	9/17/1997	0.013	166.000	<.05	<.01	0.0011	210	<1	1.4	<.007	2.02
4233 623	11/8/1997	0.016	85.200	<.05	0.016	0.0016	119		0.6	<.007	0.896
4233 631	1/20/1998	0.012	132.000	<.05	<.01	<0.001	216	<.001	1.3	<.007	2.04
4233 639	1/23/1998	0.014	231.000	<.05	<.01	<.001	209	<.001	1.3	<.007	2.11
4233 644	4/9/1998	<.01	133.000	<.05	<.01	<.001	226	<.001	1.2	<.007	2.03
4233 649	4/14/1998	0.021	135.000	<.05	<.01	<.001	222	<.001	1.3	<.007	2.1
4233 656	4/19/1998	<.01	123.000	<.05	<.01	<.001	208	<.001	1.3	<.007	2.03
4233 678	6/11/1998										
4233 705	7/31/1998										
4233-713	8/27/1998										
4211-335	9/23/1998										
4211-364	10/26/1998										
4236-830	11/5/1998										
4236-834	11/10/1998										
4233-750	11/12/1998										
4233-751	11/15/1998		140 MG/L				234				1.97
4233-767	11/18/1998		148 MG/L				232				1.95
4211-396	11/23/1998										

4233-768	12/7/1998		144 MG/L				258				1.9
4233-777	12/21/1998										
4233-780	12/22/1998										
4233-849	1/13/1999										
4233-851	1/22/1999										
4233-894	1/29/1999										
4233-896	2/2/1999										
4211-415	3/24/1999										
4211-435	4/13/1999										
4211-502	5/25/1999										
4211-530	6/7/1999										
4211-588	7/8/1999	<.01	157.000	<.05	<.01	0.00198	231	<.001	1.5	<.007	2.34