

Appendix C. Background Water Chemistry--Whisky Run Subwatershed

Whisky Run #1 40 35' 23.7" N, 79 22' 51.4" W

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
1/31/2003	3.4	561	1130	0	2.92	0.32		150	16.7	9.17	usual
4/27/2003	3.3	417	1062	0	2.43	0.47		124	13.6	8.01	usual
5/27/2003	3.3	669	1160	0	2.86		156		18.5	9.25	usual
6/25/2003	3.5	555	1110	0	2.84		131		16.3	8.06	usual
8/3/2003	3.4	384	926	0	2.15	0.35		99	10.2	6.59	usual
8/28/2003	3.4	461	1070	0	3.04		62		14.8	9.04	usual
10/1/2003	3.5	457	1040	0			107		15.1	8.54	usual
10/26/2003	3.6	520	1135	0	2.67			154	16.3	9.5	usual

Whisky Run #2 40 35' 30.4" N, 79 22' 45.9" W

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
1/31/2003	3.3	1220	1980	0	1.24	0.18		167	15.7	15.3	usual
4/27/2003	3.6	921	1763	0	0.8	0.21		115	10.5	14.7	usual
5/27/2003	3.2	1072	1920	0	0.87		140		12.3	14.2	usual
6/25/2003	3.4	1066	1830	0	0.99		110		11.2	13	usual
8/3/2003	3.4	970	1710	0	0.89	0.08		106	9.52	13.5	usual
8/28/2003	3.4	964	1880	0	1		113		11.9	15.6	usual
10/1/2003	3.4	1039	1930	0	1		125		13.7	16.7	usual
10/26/2003	3.4	1146	1810	0	0.96	0.12		151	11.1	17.2	usual
1/13/2004	3.5	939	1920	0	0.91		155		13.2	17.1	usual

Whisky Run #3 40 35' 29.1" N, 79 22' 41.6" W

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
1/31/2003	3.5	1266	1925	0	0.93	0.17		105	5.11	16.5	19
4/27/2003	3.6	1007	1715	0	0.9	0.17		74	3.94	15.7	16.5
5/27/2003	3.4	1033	1850	0	0.8		86		4.85	14.6	26
6/25/2003	3.5	1084	1830	0	0.95		68		4.73	13.9	
8/3/2003	3.4	1049	1765	0	1.23	0.13		64	3.76	16.3	19.2
8/28/2003	3.5	1049	1880	0	1.81		66		4.97	17.4	19
10/1/2003	3.5	1004	1890	0	1.36		79		5.14	16.6	16.51
10/26/2003	3.5	1098	1790	0	1.2	0.14		96	4.54	17.1	14.1
1/13/2004	3.7	702	1620	0	0.55		75		5.15	12.9	

Whisky Run at beaver pond (Old #2)
40 32' 59.7" N, 79 24' 53.5" W

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
6/22/2001	8	>200	1052	25	0.6		20				normal
7/12/2000	6	562	1563	11.4	0.74	0.33		36	3.68	12.4	normal
10/30/2001	6.8	>800	1360	15	0.81	0.29	20		*.98	11.1	normal
12/6/2001	5.9	>200	910						0.63	10.7	normal
2/8/2002	6.2	467	1002	15	0.54	0.24		30	2.75	5.55	normal
4/21/2002	5.9	496	995	9	0.61	0.498		29	3.28	6.35	normal
7/14/2002	4.7	981	1720	2.8	1.07	0.29		90	6.29	13.2	low
10/27/2002	5.7	860	1351	36	0.79	0.32		0	1.85	10.4	low
1/31/2003	5.4	836	1304	3	1.29	0.36		56	9.63	10.6	normal
8/3/2003	6.1	582	937	26.8	0.37	0.12		18	1.9	6.46	high

Whisky Run #6

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
5/27/2003	3.6	1046	1780	0	26.4		164		5.96	19.7	
6/25/2003	3.3	1211	1970	0	29.8		151		9.07	23.3	
8/28/2003	3.4	1036	1840	0	42.8		137		8.66	28.3	
10/1/2003	3.7	934	1770	0	27.8		142		2.78	19.9	

Whisky Run #9 (Old #1)
40 35' 36.84" N, 79 22' 2.22W

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
7/12/2001	6.3	905	1216	78	2.33	2.15		0	2.44	11.7	
10/30/2001	5.9	>800	1785	45	1.3		80		2.3	11.6	
2/8/2002	6.3	1359	1582	66	1.17	0.77		0	3.71	7.53	
4/21/2002	5.8	1198	>2000	60	2.61	2.53		0	3.62	9.65	
7/14/2002	6.1	1366	1850	82	2.81	2.46		0	2.76	10.5	
10/27/2002	6.1	1528	>2000	72	2.09	1.59		0	2.25	9.78	usual
1/31/2003	5.3	1481	>2000	62.2	1.52	0.86		0	2.46	9.04	332
4/27/2003	5.8	1353	1900	82.4	2.13	1.65	0		2.85	8.48	395.4
5/27/2003	5.9	1343	2150	82	2.39		58		3.5	9	
6/25/2003	6.2	1333	2120	79	2.28		0		3.98	8.99	302
8/3/2003	5.6	1331	1875	79.2	1.63	0.85		0	3.19	7.12	362.6
8/28/2003	6	1333	2240	57	2.14		0		4.16	9.27	413
10/1/2003	6	1440	2290	65	2.65		0		4.62	9.11	
1/13/2004	5.7	1141	2180	32	2.39		11		6.16	11	

Whisky Run #10

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
8/28/2003	5	487	1030	8	0.16		25		2.63	12	
10/1/2003	3.8	508	1080	0	34.2		56		4.57	12.8	
aving for part of year											

Whisky Run #11

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
5/27/2003	4.4	527	946	8	0.86		80		12.9	5.75	
6/25/2003	4.5	513	922	9	0.32		75		12.2	5.24	
8/28/2003	4.2	476	988	4	0.7		73		11.5	6.26	
10/1/2003	4.4	497	1020	6	3.84		81		17.8	6.38	
1/13/2004	4.5	457	1080	8	0.49		112		18.3	7.23	

Whisky Run #12

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
5/27/2003	3.4	564	1120	0	0.56		132		17.8	6.38	
6/25/2003	3.6	567	1120	0	0.56		111		17.2	5.79	
8/28/2003	3.4	504	1130	0	0.63		108		15.1	6.37	
10/1/2003	3.4	526	1180	0	0.61		117		15.6	6.46	
1/13/2004	3.3	613	1520	0	2.22		223		29.3	7.15	

Whisky Run #13

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
5/27/2003	3.2	649	1250	0	5.72		176		19.5	5.7	
6/25/2003	3.3	610	1250	0	6.07		166		22.1	6.31	
8/28/2003	3.3	448	1050	0	11.8		123		12.6	4.98	
10/1/2003	3.4	514	1150	0	3.74		129		16.7	5.78	
1/13/2004	3.3	611	1560	0	2.61		229		29.3	6.84	

Whisky Run #14

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
5/27/2003	3.3	545	1060	0	0.31		128		14.6	4.24	
6/25/2003	3.5	518	1050	0	0.5		109		12.3	3.68	
8/28/2003	3.4	475	1080	0	0.6		110		14	4.8	
10/1/2003	3.4	473	1080	0	0.31		110		14.2	4.52	

Whisky Run #19

Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
		mg/L	uS	mg/L					mg/L	mg/L	gpm
5/27/2003	3.7	402	824	0	0.1		122		15.8	4.69	
6/25/2003	6.7	241	596	77	0.22		0		0.11	0.15	
8/28/2003	7.8	303	874	157	10.4		0		5.53	0.6	
10/1/2003	6.9	286	849	151	0.86		0		0.42	0.11	
01/13/04											

Whisky Run Mouth (Old #3)

40 33 40"N, 79 21 42"W

		mg/L	uS	mg/L					mg/L	mg/L	gpm
Date	pH	SO4	Conduct.	Alkalinity	T. Fe	Fe +2	T.Acidity	Lab Acidity	Al	Mn	Water Flow
5/11/1999	4.9	487		2.6	0.45			13	3.1	4.79	
1/11/2000	6	547	864	5.8	0.54	0.24		7	2.92	4.12	medium
4/11/2000	5.1	426	706	2.8	0.49	0.19		17	4.21	4.22	medium
7/12/2000	5.9	955	1254	5	0.28	0.14		26	0.82	7.15	medium
10/12/2000	6.4	494	924	22	0.22	0.14		0	0.41	6.06	medium
2/7/2001	5.7	411	546	3.8	0.47			6	3.74	0.43	medium
7/12/2001	6.3	740	1216	11.8	0.45	0.16		30	1.55	6.99	med-low
10/30/2001	6	>800	1380	10	0.6		20		*0	7.2	med-low
4/21/2002	5.3	558	1126	3	1.06	0.83		38	5.03	6.09	med-low
7/14/2002	5.8	996	1640	5	0.55	0.11		45	2.23	9.14	med-low
10/27/2002	6.6	723	1315	24	0.13	0.09		0	<.2	6.22	med-low
1/31/2003	5.8	830	1302	2.6	0.83	0.41		46	6.2	8.04	med
5/19/2003	6.2	875	1057	10	0.46	0.22	20		0.6	6.6	3132
5/27/2003	5.9	656	1090	14	0.59		8		3.86	5.57	medium
6/25/2003	6.1	721	1240	14	0.67		4		4.17	5.57	medium
7/4/2003	6.3	1000	1313	10	0.42	0.16	20		2.2	8	1586
8/3/2003	6	560	1004	23	0.58	0.12		0	2.89	5.38	med-low
8/28/2003	6.4	567	1230	20	1.1			0	2.98	7.09	normal
10/1/2003	6.1	583	1230	23	0.95		0		4.15	6.72	normal
10/11/2003	6.4	1120	1211	20	0.49	0.12	20		0.5	7.5	2727

Whisky Run Mouth (Old #3) Continued

		mg/L	uS	mg/L					mg/L	mg/L	gpm
10/26/2003	6.3	621	1063	24.8	0.54	0.26		0	2.77	5.84	Med
1/13/2004	7.4	534	1250	8	1.16		72		10.7	7	
1/13/2004	4.7	1040	1090	0							8416
1/25/2004	4.9	831	1193	9.4	1.29	0.44		45	10	9.23	v.high