

Appendix F

Stream Flow Measurement Results Since 2000

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Collect Date	Surface ID	Calculated Flow (ft ³ /sec)	Comments
1/14/2000	CARB POND TRENCH OUT	0.25	Carb Pond trench outfall
1/14/2000	MNT CR E OF HWY CULV	0.22	MONTEZUMA CREEK 100 FT EAST OF HIGHWAY CULVERT
1/14/2000	MC>CUTOFF TRENCH CLAY	0.19	Montezuma Creek above ground water cutoff trench, clay bottom.
4/14/2000	MIDPOND OUTFALL PIPE	0.26	Middle Pond outfall pipe (groundwater impoundment in old Van Pile area)
4/14/2000	>VANPILE-STEEP/LINED	0.38	Montezuma Creek above old Vanadium Pile, where gradient steepens/lined.
4/14/2000	SW00-01	0.44	MONTEZUMA CREEK 100 FT EAST OF HIGHWAY CULVERT
4/14/2000	SW00-02	0.74	Pipe outfall at east end of millsite
4/17/2000	SW94-01	2.11	
4/17/2000	SW92-08	0.85	
4/17/2000	SW00-04	0.95	
4/18/2000	Sorenson	0.72	
4/18/2000	SW00-03	0.58	
6/21/2000	SW00-01	0.32	MONTEZUMA CREEK, culvert pair under road on millsite just east of highway.
6/21/2000	MC>CARBPOND/OLDVPILE	0.32	Montezuma Creek above Carb Pond/old Vanadium Pile, clay bottom.
6/21/2000	MIDPOND OUTFALL PIPE	0.23	Middle Pond outfall pipe (groundwater impoundment in old Van Pile area)
6/21/2000	MC E END OF MILLSITE	0.53	MONTEZUMA CREEK EAST END OF MILLSITE, clay bottom.
6/21/2000	MC PERT CLVRT W END	0.50	MONTEZUMA CREEK, PERT CULVERT, west end, top of corrugation.
7/17/2000	SW00-01	0.06	MONTEZUMA CREEK, culvert pair under road on millsite just east of highway.
7/17/2000	SW00-02	0.35	
7/17/2000	SW00-03	0.24	BELOW BOWRING POND
7/17/2000	SW00-04	0.26	BELOW CANYON POND
8/17/2000	SW00-01	0.02	culvert pair under road on millsite just east of highway. All flow in South culvert, measure w/ bucket & stopwatch
8/18/2000	MC>VPILE LAKE>LINER	0.0048	Montezuma Creek above Vanadium Pile LAKE, clay bottom, JUST ABOVE LINER AND STEEP GRADIENT.
8/18/2000	MIDPOND OUTFALL PIPE	0.17	Middle Pond outfall pipe (groundwater impoundment in old Van Pile area)
10/19/2000	Sorenson	0.43	
10/19/2000	SW94-01	0.44	
10/19/2000	SW92-09	0.37	
10/19/2000	SW92-08	0.46	
10/19/2000	SW00-04	0.38	BELOW CANYON POND
10/20/2000	SW00-01	0.10	in-pipe velocity/area method; Creek flows through temporary culvert just west of millsite road and east of highway
10/20/2000	SW00-02	0.25	Bucket/stopwatch at outflow from culvert from millsite to Somerville.
3/27/2001	PRB CULVERT-WEST END	0.45	PRB CULVERT, WEST END; in-stream velocity/area method
3/27/2001	SW00-02	0.42	TWIN PIPES AT ROCK DAM; in-pipe velocity area
3/27/2001	SW00-01	0.049	MONTEZUMA CREEK; just below highway culvert; in-stream velocity/area method
3/27/2001	WETLAND #1 OUTFALL	0.569	OUTFALL FROM WETLAND #1. in-stream velocity/area method

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3/28/2001	SW00-01	0.06	MONTEZUMA CREEK; just below highway culvert; in-stream velocity/area method
3/28/2001	WETLAND #1 OUTFALL	0.49	OUTFALL FROM WETLAND #1; WATER FROM BRIDGE FOOTER EXCAVATION PUMPED TO WETLAND #1. PUMP IS SURGING IN 1 MINUTE CYCLES
3/28/2001	WETLAND #2 OUTFALL	0.711	OUTFALL FROM WETLAND #2; in-stream velocity/area method
3/28/2001	SW00-02	0.6	TWIN PIPES AT ROCK DAM; in-pipe velocity area
3/28/2001	PRB CULVERT-WEST END	0.66	in-stream velocity/area method
4/18/2001	SW00-01	0.07	MONTEZUMA CREEK; just below highway culvert; in-stream velocity/area method
4/18/2001	SW00-02	0.46	TWIN PIPES AT ROCK DAM; bucket & stopwatch method
4/18/2001	PRB CULVERT-WEST END	0.52	stagnant between 0 & 0.6 ft; in-stream velocity/area method
8/1/2001	SW94-01	0.36	in-stream velocity/area method
8/1/2001	SW95-01	0	Vega Creek above confluence with Montezuma Creek. Dry
8/1/2001	MC<CABIN	0.54	Montezuma Creek several hundred ft below Cabin; in-stream velocity/area method
8/1/2001	SW92-08	0.49	in-stream velocity/area method
8/1/2001	Sorenson	0.66	measured near shack east of microbus; below steep gradient; in-stream velocity/area method
8/1/2001	MIDWAY SOREN&SEDPOND	0.63	Montezuma Creek at meander approx midway between Sorenson and Sediment Pond; west of City's gate valve
8/1/2001	SW01-01	0.49	Montezuma Creek at 1st culvert east of PRB culvert; in-stream velocity/area method
8/1/2001	SOMMER DIVERS OUTFLL	0.32	Outfall to creek from Sommerville diversion on millsite: 6-in solid pipe from diversion to outfall on north bank 50 ft below PRB culvert.
8/1/2001	PRB CULVERT-WEST END	0.04	in-stream velocity/area method
8/1/2001	SW00-02	0.09	approx 100 ft west near midpoint of Wetland #3. No outflow from wetland to creek, Seeps 1-3 are flowing
8/1/2001	MC, 10FT>STLs. DITCH	0.42	Montezuma Creek 10 ft above Steele's ditch & Sommerville diversion; in-stream velocity/area method
8/1/2001	SW01-03	0.44	in creek just below Wetland #2 outflow; in-stream velocity/area method
8/1/2001	MC,50FT BLW REEMERGE	0.19	Montezuma Creek 50 ft below point of re-emergence from dry reach between T01-27 and T01-25.
8/1/2001	MC BTWN T01-27&-25	0	Montezuma Creek between approx. T01-27 AND T01-25. Creek bed is dry in this reach.
8/1/2001	MC,25FT>T01-27	0.05	Montezuma Creek 25 ft above point where dry reach begins at T01-27.
8/1/2001	SW01-02	0.34	in creek just below outflow from Wetland #1.
8/1/2001	MC>SEEP#4	0.25	Montezuma Creek just above Seep #4; in-stream velocity/area method
8/1/2001	SW00-01	0.06	MONTEZUMA CREEK; just below highway culvert; in-stream velocity/area method
10/10/2001	300 FT ABV CABIN	0.29	300 ft above cabin
10/10/2001	MC<CABIN	0.47	
10/10/2001	MIDWAY SOREN&SEDPOND	0.28	sor/95-01
10/10/2001	SW00-01	0	
10/10/2001	SW00-02	0.16	
10/10/2001	SW00-04	0.38	
10/10/2001	SW01-01	0.15	

Collect Date	Surface ID	Calculated Flow (ft ³ /sec)	Comments
10/10/2001	SW92-08	0.37	
10/10/2001	SW94-01	0.45	
10/10/2001	Sorenson	0.36	
3/6/2002	PRB CULVERT-WEST END	0.36	
3/6/2002	SW00-01	0.1	
3/6/2002	SW00-02	0.36	
3/6/2002	SW00-04	0.42	
3/6/2002	SW01-03	0.24	
3/6/2002	SW92-06	0.24	
3/6/2002	Sorenson	0.39	
4/9/2002	300 FT ABV CABIN	0.53	300 ft above cabin
4/9/2002	PRB CULVERT-WEST END	0.24	
4/9/2002	SW00-01	0	
4/9/2002	SW00-02	0.44	
4/9/2002	SW00-04	0.41	
4/9/2002	SW01-01	0.23	
4/9/2002	SW92-06	0.09	
4/9/2002	SW92-08	0.43	
4/9/2002	SW94-01	0.42	
4/9/2002	Sorenson	0.28	
8/5/2002	MIDWAY SOREN&SEDPOND	0.07	sor/95-01
8/5/2002	SW00-01	0	
8/5/2002	SW00-02	0.06	
8/5/2002	SW00-04	0.13	
8/5/2002	SW01-01	0	
8/5/2002	SW92-06	0	
8/5/2002	SW92-08	0.05	
8/5/2002	Sorenson	0.05	
10/10/2002	300 FT ABV CABIN	0	300 ft above cabin
10/10/2002	MC<CABIN	0	
10/10/2002	SW00-01	0	
10/10/2002	SW00-02	0.02	
10/10/2002	SW00-04	0.1	
10/10/2002	SW01-01	0	
10/10/2002	SW01-02	0	
10/10/2002	SW01-03	0	
10/10/2002	SW92-06	0	
10/10/2002	SW92-08	0.03	
10/10/2002	SW92-09	0	
10/10/2002	SW94-01	0	
10/10/2002	Sorenson	0.05	
12/11/2002	300 FT ABV CABIN	0.15	300 ft above cabin
12/11/2002	MC<CABIN	0.15	
12/11/2002	SW00-01	0	
12/11/2002	SW00-02	0.03	
12/11/2002	SW00-04	0.1	
12/11/2002	SW01-02	0	
12/11/2002	SW01-03	0.07	
12/11/2002	SW92-06	0	
12/11/2002	SW92-08	0.21	
4/8/2003	0.25 MILE W SW92-08	0.38	0.25 MILE WEST OF SW92-08
4/8/2003	MC,150yd_DS CABIN	0.45	Montezuma Creek 150 yards downstream of Cabin
4/8/2003	MC,150yd_DS CABIN	0.43	Montezuma Creek 150 yards downstream of Cabin

Collect Date	Surface ID	Calculated Flow (ft ³ /sec)	Comments
4/8/2003	MC,25FT_B LW_WIER	0.25	MC, 25 ft below weir on Millsite
4/8/2003	MC,W_OF_WELL_92-09	0.14	MONTEZUMA CREEK WEST OF WELL 92-09
4/8/2003	SW00-02	0.28	
4/8/2003	SW00-04	0.46	
4/8/2003	SW92-08	0.28	
4/8/2003	SW94-01	0.49	
4/8/2003	Sorenson	0.26	
4/9/2003	SW01-02	0.09	
7/16/2003	100YD_B LW_BOWR_PND	0	dry below Bowring pond for 100 yards, All surface water stations had insufficient flow for measurement.
7/16/2003	B LW_PRB_CULVERT	0	dry to drop below PRB culvert, All surface water stations had insufficient flow for measurement.
7/16/2003	BOWRING_POND	0	dry to Bowring pond, All surface water stations had insufficient flow for measurement.
7/16/2003	MILLSITE	0	Millsite, All surface water stations had insufficient flow for measurement.
7/16/2003	OUTLET_WL2	0	creek was dry to outlet of wetland 2,All surface water stations had insufficient flow for measurement
7/16/2003	SW01-01	0	small amount of flow to just past SW01-01,All surface water stations had insufficient flow for measurement
7/16/2003	SW92-08	0	small amount of flow to SW92-08, dries, All surface water stations had insufficient flow for measurement
7/16/2003	SW92-08_TO_SW94-01	0	no flow from SW92-08 to last station SW94-01,All surface water stations had insufficient flow for measurement
7/16/2003	WL2_TO_WL3	0	small amount of flow from WL 2 to WL 3, All surface water stations had insufficient flow for measurement
7/16/2003	WL3_OUTLET	0	damp/wet at WL 3 outlet, All surface water stations had insufficient flow for measurement.
10/15/2003	MC, 100YD_W_OF_CBIN	0.05	Montezuma Creek 100 yards west of Cabin
10/15/2003	MC, DUE E_OF_CABIN	0.04	Montezuma Creek due east of Cabin
10/15/2003	SW00-04	0.19	
10/15/2003	SW92-08	0.05	
10/15/2003	SW94-01	0.02	
4/14/2004	SW01-01	0.18	
4/14/2004	SW01-02	0.16	
4/14/2004	SW01-03	0.2	
4/14/2004	SW92-08	0.27	
10/6/2004	MC_AT_CABIN	0.42	Montezuma Creek at Cabin
10/6/2004	MC_AT_VEGA_CREEK	0.28	Montezuma Creek at Vega Creek (Vega Creek is dry)
10/6/2004	MC_AT_WELL_92-09	0.38	MONTEZUMA CREEK AT WELL 92-09
10/6/2004	MC_CLV_SW01-01_92-08	0.13	MONTEZUMA CREEK AT CULVERT BETWEEN SW01-01 AND WELL 92-08
10/6/2004	SW00-01	0	
10/6/2004	SW00-02	0.18	
10/6/2004	SW00-04	0.49	
10/6/2004	SW92-08	0.39	
10/6/2004	Sorenson	0.24	
4/5/2005	SW00-01	4	
4/5/2005	SW00-02	5	
10/5/2005	MC_AT_CABIN	0.66	MONTEZUMA CREEK AT CABIN
10/5/2005	SW92-08	0.79	
10/5/2005	SW00-04	0.72	
10/5/2005	Sorenson	0.91	SORENSEN AT NEW CULVERT

Collect Date	Surface ID	Calculated Flow (ft³/sec)	Comments
10/5/2005	WEIR_NEAR_WELL_92-09	0.77	ADAMS' NEW WEIR NEAR WELL 92-09
10/5/2005	SW01-01	0.46	
4/4/2006	SW92-08	1.13	
4/4/2006	SW01-01	1.38	
4/30/2007	MC_AT_CABIN	1.08	Cabin
4/30/2007	MIDWAY SOREN&SEDPOND	0.85	between Sorenson and Sed Pond
4/30/2007	SOMMER EAST CULVERT	0.88	Sommerville east culvert; partially filled pipe method
4/30/2007	SW00-01	0.48	
4/30/2007	SW00-02	0.75	
4/30/2007	SW92-08	0.91	