





\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8	
5	605	0	1 26542	10	1 26483	28	1 26466	53 2 26456	59 2 26418
5	606	65	2 26394	76	2 26354	87	2 26301	91 2 26297	96 2 26307
5	607	106	2 26318	113	2 26312	123	2 26303	130 2 26304	133 2 26336
5	608	139	2 26342	150	2 26378	163	2 26438	177 2 26490	198 2 26496
6	615	1 2 050	050 1 2 050	045					
3	700 BR-FG	2 19	1 2631	6805		15 26447	1 1		
5	705	0	1 26447	0	1 26377	10	1 26356	25 1 26346	29 1 26344
5	706	29	1 26333	32	1 26323	33	1 26311	40 1 26302	50 1 26303
5	708	64	1 26298	67	1 26298	67	1 26334	71 1 26341	74 1 26349
5	709	88	1 26352	92	1 26380	92	1 26447	0 -9 26447	
6	715	2 4 050	045						
3	800 RD-FG	4 8 3 30		2 3		2 1 1		2	
5	805	0	1 26515	23	1 26493	62	1 26471	124 2 26468	172 3 26468
5	806	219	3 26468	239	3 26480	262	3 26503		
3	900 APP-G	5 18 3 2631	7045	1 3					
5	905	0	1 26538	10	2 26437	15	2 26383	20 2 26369	28 2 26359
5	906	33	2 26327	35	2 26312	41	2 26309	47 2 26309	55 2 26303
5	907	63	2 26310	66	2 26334	78	2 26365	87 2 26374	102 3 26425
5	908	107	3 26442	118	3 26475	142	3 26505		
6	915	2 4 050	045 2 4 050	045 2 4 050	045				
3	1000 H	1 27 3 2634	7690	99 99					
4	1001	6390							
5	1005	0	1 26545	11	1 26497	20	1 26460	27 1 26438	27 1 26427
5	1006	96	2 26400	105	2 26393	110	2 26372	116 2 26356	118 2 26336
5	1007	123	2 26332	129	2 26332	139	2 26329	143 2 26333	144 2 26359
5	1008	153	3 26378	162	3 26399	207	3 26414	215 3 26450	219 3 26480
5	1009	220	3 26499	241	3 26499	300	3 26498	350 3 26511	400 3 26522
5	1010	433	3 26517	440	3 26552				
6	1015	1 2 055	045 1 2 050	045 1 2 045	050				
3	1100 I	0 19 2 2639	8710	99 99					
5	1105	0	1 26579	12	1 26507	23	1 26473	25 1 26466	46 1 26440
5	1106	100	1 26452	150	1 26451	200	1 26440	250 2 26427	262 2 26401
5	1107	264	2 26376	270	2 26372	278	2 26373	290 2 26371	295 2 26373
5	1108	296	2 26388	305	2 26429	316	2 26427	324 2 26518	
6	1115	1 3 060	045 1 2 055	045					



PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER FLOODWAY

A-1

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	



INPUT SUMMARY FOR: COVE CREEK LOWER FLOODWAY

A-I

11 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 11 TYPE 3 CARDS

KEPT 11 CROSS SECTIONS FOR EDITING

11 " " VALID FOR PROPERTY COMPUTATIONS

11 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=A AT DISTANCE= 1040

A-I  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2614.0	12	291	1.00	22	22	473	495	49
2623.9	2161	160785	1.32	748	753	146	894	16107
2633.8	10395	1788015	1.03	880	891	59	939	199982
2643.7	19366	4786272	1.02	941	959	4	945	494369
2644.5	20122	5081884	1.02	946	964	0	946	522322

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=B AT DISTANCE= 2650

A-I  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2619.0	11	195	1.00	22	22	634	556	42
2628.9	2527	247727	1.05	639	644	96	734	27756
2638.8	9459	1984891	1.05	762	772	10	771	184480
2648.7	17086	5232465	1.05	776	798	0	777	440641
2649.2	17475	5428248	1.07	777	799	0	777	455462

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=C AT DISTANCE= 3720

A-I  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2622.0	8	149	1.00	16	16	174	190	32
2631.9	1911	197704	1.01	451	456	42	520	22176
2641.8	6867	1513963	1.03	521	531	16	538	139305
2650.9	11742	3559521	1.03	550	565	0	550	302673

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=D AT DISTANCE= 5095

A-I  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2626.0	5	88	1.00	11	11	395	406	19
2635.9	2002	194286	1.03	494	500	82	576	22525
2645.8	7991	1566563	1.00	692	702	8	703	153845
2655.0	14915	3797791	1.02	910	925	0	910	338315



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=E AT DISTANCE= 6020 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2628.0	2	19	1.00	8	8	71	79	5
2637.9	1224	121669	1.01	299	305	48	347	13936
2647.8	4400	917711	1.07	357	368	7	375	84675
2654.4	7113	1810082	1.07	426	441	0	426	159122

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=F-TW AT DISTANCE= 6605 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2631.0	17	354	1.00	29	30	85	131	75
2640.9	699	84334	1.00	95	101	61	157	10734
2650.8	2138	335672	1.08	192	202	6	198	36257
2654.2	2701	507155	1.08	198	212	0	198	54457

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=BR-FG AT DISTANCE= 6805 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2631.0	27	681	1.00	33	34	34	67	138
2640.9	699	81968	1.00	92	105	0	92	10929
2644.7	1049	103253	1.00	0	204	0	92	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=APP-G AT DISTANCE= 7045 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2631.0	7	86	1.00	24	24	39	63	20
2640.9	541	59493	1.00	85	89	13	97	7758
2650.8	1604	298091	1.11	139	149	3	142	29380
2653.8	2026	415242	1.12	142	157	0	142	41062



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=H AT DISTANCE= 7690

A-I  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2634.0	21	542	1.00	26	26	118	143	109
2643.9	846	85146	1.32	186	191	27	213	8925
2653.8	3531	516992	1.43	436	446	2	437	47687
2655.2	4144	643562	1.36	440	451	0	440	61836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=I AT DISTANCE= 8710

A-I  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2639.0	56	2360	1.00	34	35	263	296	410
2648.9	1587	167017	1.15	299	304	18	317	19341
2657.9	4422	814840	1.01	324	338	0	324	92381











CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY

SECID=A AT DISTANCE= 1040

A-I  
PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2614.0	12	291	1.00	22	22	473	495	49
2623.9	1175	100941	1.23	319	328	450	769	11544
2633.8	4331	773549	1.01	319	348	450	769	90133
2643.7	7487	1849372	1.00	319	367	450	769	205787
2644.5	7742	1949839	1.00	319	369	450	769	216398

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY

SECID=B AT DISTANCE= 2650

A-I  
PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2619.0	11	195	1.00	22	22	634	656	42
2628.9	1369	153915	1.00	271	286	394	665	17443
2638.8	4054	919059	1.05	271	305	394	665	86732
2648.7	6740	2095147	1.08	271	325	394	665	183519
2649.2	6876	2163205	1.08	271	326	394	665	188996

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY

SECID=C AT DISTANCE= 3720

A-I  
PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2622.0	8	149	1.00	16	16	174	190	32
2631.9	1281	140803	1.00	259	272	135	394	16140
2641.8	3845	852420	1.03	259	292	135	394	82715
2650.9	6202	1839424	1.05	259	310	135	394	167963

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY

SECID=D AT DISTANCE= 5095

A-I  
PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2626.0	5	88	1.00	11	11	395	406	19
2635.9	1212	136486	1.03	225	238	280	505	15757
2645.8	3440	738486	1.03	225	258	280	505	75338
2655.0	5510	1550129	1.02	225	277	280	505	152932



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=E AT DISTANCE= 6020

A-I  
 PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2628.0	2	19	1.00	8	8	71	79	5
2637.9	905	89240	1.03	212	221	48	260	10457
2647.8	3063	632985	1.04	220	245	40	260	63495
2654.4	4515	1177375	1.06	220	258	40	260	112421

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=F-TW AT DISTANCE= 6805

A-I  
 PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	17	354	1.00	29	30	85	151	75
2640.9	699	84334	1.00	95	101	61	157	10734
2650.8	1650	312167	1.00	96	121	61	157	38785
2654.2	1976	406636	1.00	96	128	61	157	50849

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=APP-G AT DISTANCE= 7045

A-I  
 PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	7	86	1.00	24	24	39	63	20
2640.9	541	59493	1.00	85	89	13	97	7758
2650.8	1445	260536	1.00	92	114	10	102	32467
2653.8	1721	336919	1.00	92	120	10	102	42203

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY  
 SECID=H AT DISTANCE= 7690

A-I  
 PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2634.0	21	542	1.00	26	26	118	143	109
2643.9	589	67133	1.10	86	97	96	182	8360
2653.8	1437	252368	1.06	86	116	96	182	32395
2655.2	1557	283645	1.06	86	119	96	182	36545



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER FLOODWAY

SECID=I AT DISTANCE= 8710

A-I  
PART 1 OF 1

\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

WS	A	K	ALPHA	B	P	LEW	REW	QC
2639.0	56	2360	1.00	34	35	263	296	410
2648.9	1096	127086	1.10	170	178	147	317	15080
2657.9	2679	500061	1.01	177	201	147	324	58829



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 13, DATE= 2/ 6/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER FLOODWAY  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

A-I

SECTION: ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

1 : KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER FLOODWAY A-I  
 PAGE 1 OF 1. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY A-I 1ST

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / RE*
AS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
A AT 1030 / 0 / 6760. / 1322. / 119930. / 1.19 / 450. / 769.
2624.36 / 0.48 / / 2624.84 / 5.11 / 0.43/ *IS*
-----
B AT 2650 / 1610 / 6760. / 1314. / 143964. / 1.00 / 394. / 660.
2628.70 / 0.41 / 4.26 / 0.0 / 2629.11 / 5.14 / 0.44 / 0.004 *XS*
-----
C AT 3720 / 1070 / 6760. / 1164. / 120380. / 1.01 / 135. / 394.
2631.45 / 0.53 / 2.82 / 0.06 / 2631.97 / 5.81 / 0.52 / -0.014 *XS*
-----
D AT 5095 / 1375 / 6760. / 1148. / 124953. / 1.03 / 290. / 505.
2635.82 / 0.55 / 4.18 / 0.01 / 2636.17 / 5.99 / 0.52 / 0.004 *XS*
-----
E AT 6020 / 925 / 6760. / 1049. / 112451. / 1.01 / 47. / 260.
2638.58 / 0.65 / 3.01 / 0.05 / 2639.23 / 6.44 / 0.55 / 0.001 *XS*
-----
F-1W AT 6805 / 785 / 6760. / 764. / 96696. / 1.00 / 61. / 157.
2641.58 / 1.22 / 3.30 / 0.28 / 2642.79 / 8.85 / 0.55 / -0.016 *XS*
===== BEGIN BRIDGE ANALYSIS =====
R9-FG AT 6805 / / 6760. / 735. / 90173. / 1.00 / 0. / 92.
2641.58 / 1.31 / ...1... (-.001) / 9.19 / 0.56 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT / *RG*
-----
APP-G AT 7045 / 240 / 6760. / 706. / 87634. / 1.00 / 11. / 102.
2642.77 / 1.43 / 1.29 / 0.10 / 2644.19 / 9.58 / 0.61 / 0.000 *AS*
-----
M = 0.0 / F = 1.00 / K* = 0.01 / 707. / 87830. / 1.00 / 11. / 102.
2642.78 / 1.42 / / 2644.20 / 9.56 / 0.61 / *AS*
===== END BRIDGE ANALYSIS =====
H AT 7690 / 645 / 6390. / 784. / 102725. / 1.08 / 96. / 182.
2646.17 / 1.12 / 3.09 / 0.0 / 2647.29 / 8.15 / 0.48 / 0.000 *XS*
-----
I AT 8710 / 1020 / 6390. / 1212. / 147288. / 1.07 / 147. / 318.
2649.58 / 0.46 / 2.75 / 0.0 / 2650.04 / 5.27 / 6.35 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE



SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER FLOODWAY A-I  
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY A-I 1ST (PROFILE  
 NUMBER 1. UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE  
 BASE PROFILE (PROFILE NUMBER 1. UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH		
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY	
Loss Area 100-yr with BW	A	100	1	VHD	CONS	YES	1.00	1.00	*****	319
	B	201	0	VHD	YES	YES	1.00	1.00	*****	271
	C	301	0	HOR	YES	YES	*****	0.83	*****	259
	D	401	0	HOR	YES	YES	*****	0.67	*****	225
	E	501	0	HOR	YES	YES	*****	0.87	*****	213
No encroachment. Velocities > 7.5 ft/sec	F-TW	600	0	HOR	YES	YES	*****	0.50	*****	96
	BR-FG	700	2	N.A.	N.A.	N.A.	*****	0.60	*****	89
	RD-FG	800	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
	APP-G	900	5	HOR	YES	YES	*****	0.29	*****	91
	H	1000	1	VHD	YES	YES	1.00	0.30	*****	86
I	1100	0	VHD	YES	NO	1.00	1.42	*****	171	



























\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
3 4500 RR-OP	2	11	1	2695	23915	15	27019	1 0
5 4505	0	1	27019	0	1	26955	2	1 26951 3 1 26943 4 1 26938
5 4506	16	1	26934	23	1	26931	27	1 26935 28 1 26955 28 1 27019
5 4507	0	-9	27019					
6 4515	1	2	045	045				
3 4550 ROAD	4	9	2	16	1	2	2	2
5 4555	0	1	27020	16	1	27025	70	1 27043 84 2 27043 96 2 27043
5 4556	120	2	27070	140	2	27093	160	2 27104 180 2 27112
3 4600 AJ-AP	5	19	6	2695	23963	3	5	
5 4605	-5	1	27128	0	1	27084	8	1 27010 11 1 27023 30 2 27028
5 4606	60	2	26982	71	3	26965	73	3 26958 74 3 26940 75 4 26938
5 4607	77	4	26934	84	4	26932	94	4 26933 103 5 26937 107 5 26939
5 4608	112	6	26980	140	6	27041	160	6 27084 170 6 27115
6 4615	1	2	035	035	1	2	050 050 1 2 050 040 1 2 050 040 1 2 050 040	
6 4616	1	2	045	035				
3 4700 AK	0	18	2	2698	24820	99	99	
5 4705	0	1	27120	6	1	27112	9	1 27104 18 1 26999 23 1 26986
5 4706	25	1	26974	30	1	26966	33	1 26964 37 1 26969 40 1 26977
5 4707	52	2	27028	80	2	27019	150	2 27036 200 2 27058 250 2 27064
5 4708	300	2	27078	350	2	27104	375	2 27126
6 4715	1	2	065	060	1	2	045 035	
3 4800 AL	0	20	3	2701	25430	99	99	
5 4805	0	1	27148	4	1	27128	25	1 27105 42 1 27064 52 1 27044
5 4806	74	2	27041	78	2	27004	82	2 26994 89 2 26999 95 2 27003
5 4807	99	2	27005	102	2	27015	112	2 27033 119 3 27057 150 3 27046
5 4808	200	3	27043	250	3	27044	300	3 27040 311 3 27051 357 3 27159
6 4815	1	2	075	055	1	2	055 050 1 2 045 035	
3 4900 AM	0	18	3	2703	25875	99	99	
5 4905	0	1	27170	36	1	27137	52	1 27129 100 1 27097 126 1 27069
5 4906	150	1	27061	188	2	27041	193	2 27023 207 2 27019 211 2 27010
5 4907	218	2	27011	220	2	27016	225	3 27057 250 3 27067 300 3 27080
5 4908	350	3	27107	375	3	27134	396	3 27168
6 4915	2	4	065	045	1	2	055 050 1 2 045 035	
3 4950 AM+	5	0	18	3	2704	25988	99	99
5 4955	0	1	27175	36	1	27142	52	1 27134 100 1 27102 126 1 27074
5 4956	150	1	27066	188	2	27046	193	2 27028 207 2 27024 211 2 27015
5 4957	218	2	27016	220	2	27021	225	3 27062 250 3 27072 300 3 27085
5 4958	350	3	27112	375	3	27139	396	3 27173
6 4965	2	4	065	045	1	2	055 050 1 2 045 035	
3 5000 BRIDG	2	15	1	2703	25988	15	27083	1 0
5 5005	0	1	27084	0	1	27043	5	1 27042 5 1 27031 7 1 27027
5 5006	11	1	27025	18	1	27016	26	1 27020 33 1 27027 35 1 27032
5 5007	38	1	27045	40	1	27047	40	1 27085 20 1 27081 0 -9 27084
6 5015	1	2	055	055				
3 5050 ROAD	4	14	2	16	1	2	2	2



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8							
5 5055	0	1	27178	50	1	27140	100	1	27114	150	1	27101	200	1	27099
5 5056	220	2	27098	241	2	27096	250	2	27089	300	2	27062	312	2	27066
5 5057	362	2	27072	412	2	27097	447	2	27145	462	2	27182			
3 5100 AN	5	22	4	2705	26048	1	3								
5 5105	0	1	27179	22	1	27150	50	1	27125	86	1	27088	91	1	27065
5 5106	92	2	27063	100	2	27048	101	2	27037	105	2	27031	109	2	27029
5 5107	114	2	27028	121	2	27038	125	2	27054	132	3	27062	133	3	27063
5 5108	140	4	27080	150	4	27069	200	4	27066	250	4	27072	300	4	27097
5 5109	335	4	27145	350	4	27182									
6 5115 1	2	055	045	1	2	055	045	1	2	045	030				
3 5200 AD	0	17	2	2707	26760	99	99								
5 5205	0	1	27205	127	1	27111	150	1	27103	165	2	27097	169	2	27062
5 5206	173	2	27058	181	2	27053	185	2	27053	189	2	27061	194	2	27093
5 5207	200	2	27118	209	2	27140	213	2	27147	214	2	27153	225	2	27170
5 5208	227	2	27185	247	2	27204									
6 5215 1	2	045	035	1	2	055	050								
3 5300 AP	0	22	4	2712	27865	99	99								
5 5305	0	1	27271	40	1	27261	88	1	27259	100	1	27257	150	1	27249
5 5306	200	1	27242	250	1	27237	300	1	27238	350	2	27235	400	2	27202
5 5307	450	3	27152	451	3	27142	456	3	27138	457	3	27119	465	3	27122
5 5308	471	3	27118	483	3	27109	486	4	27128	550	4	27162	556	4	27211
5 5309	557	4	27236	590	4	27270									
6 5315 1	2	035	035	1	2	050	040	1	2	055	045	1	2	055	050
3 5400 AQ-TW	0	22	4	2716	28514	99	99								
5 5405	0	1	27291	30	1	27263	44	1	27259	60	1	27246	78	1	27217
5 5406	94	1	27195	105	2	27184	111	2	27169	112	2	27149	118	2	27144
5 5407	125	2	27141	131	2	27142	135	2	27148	137	2	27162	140	2	27208
5 5408	147	3	27235	167	3	27233	173	3	27230	178	4	27268	200	4	27276
5 5409	250	4	27288	267	4	27291									
6 5415 1	2	065	045	1	2	055	045	1	2	035	035	1	2	050	050
3 5500 BRIDGE	2	20	1	2717	28514		15	27223	2	0					
5 5505	0	1	27224	0	1	27202	5	1	27197	8	1	27186	13	1	27160
5 5506	15	1	27152	18	1	27151	20	1	27152	20	1	27164	26	1	27158
5 5507	27	1	27153	31	1	27144	37	1	27134	44	1	27126	45	1	27142
5 5508	45	1	27207	47	1	27208	47	1	27221	23	1	27224	0	-9	27224
6 5515 1	2	050	050												
3 5520 PIER	3	2					3								
5 5525	1		27164	1		27224									
3 5550 ROAD	4	9	3	28	1	3		1	1	1			2		
5 5555	0	1	27288	27	1	27274	50	1	27260	92	2	27242	139	3	27239
5 5556	150	3	27242	200	3	27252	250	3	27273	296	3	27296			
3 5600 AR	5	20	3	2716	28602	1	3								
5 5605	0	1	27300	8	1	27279	27	1	27287	44	1	27285	50	1	27250
5 5606	56	1	27212	79	2	27202	94	2	27170	96	2	27152	99	2	27143
5 5607	107	2	27146	114	2	27148	118	2	27153	119	2	27174	126	3	27201



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
5	5608	137	3 27215	148	3 27230	162	3 27259	200 3 27283 216 3 27301
6	5615	1 2 050 040	1 2 050 055	1 2 045 040				
3	5700 AS-TW	0 16 3 2716	28785 99 99					
5	5705	0 1 27307	4 1 27294	27 1 27280	42 2 27267	46 2 27238		
5	5706	52 2 27190	58 2 27166	59 2 27161	62 2 27150	66 2 27147		
5	5707	71 2 27151	75 2 27165	78 3 27197	122 3 27217	144 3 27276		
5	5708	172 3 27307						
6	5715	1 2 035 035	1 2 055 050	1 2 045 045				
3	5800 BRIDG	2 15 1 2717	28785	30 27268 1 1				
5	5805	0 1 27265	0 1 27168	1 1 27165	1 1 27162	4 1 27159		
5	5806	12 1 27154	18 1 27157	23 1 27162	23 1 27169	25 1 27192		
5	5807	31 1 27194	43 1 27205	47 1 27202	47 1 27271	0 -9 27265		
6	5815	1 2 055 055						
3	5820 PIER	3 2		2				
5	5825	1 27175	1 27268					
3	5850 ROAD	4 7 3 28	1 3	1 1 1		2		
5	5855	0 1 27311	6 1 27295	50 2 27287	98 3 27289	150 3 27279		
5	5856	181 3 27279	200 3 27311					
3	5900 AT	5 23 4 2718	28890 1 3					
5	5905	0 1 27314	9 1 27304	16 1 27253	21 1 27216	22 2 27212		
5	5906	27 2 27193	31 2 27177	37 2 27166	43 2 27155	49 2 27169		
5	5907	54 2 27172	57 2 27180	64 2 27191	69 3 27212	71 4 27221		
5	5908	76 4 27212	97 4 27219	107 4 27240	134 4 27273	158 4 27280		
5	5909	163 4 27268	172 4 27295	185 4 27312				
6	5915	1 2 055 045	1 2 055 045	1 2 055 045	1 2 045 040			
3	6000 AV	0 17 1 2722	29625 99 99					
5	6005	0 1 27358	8 1 27297	19 1 27249	31 1 27214	36 1 27214		
5	6006	46 1 27211	54 1 27209	59 1 27215	61 1 27230	67 1 27248		
5	6007	85 1 27275	112 1 27307	127 1 27338	145 1 27335	150 1 27343		
5	6008	157 1 27346	160 1 27359					
6	6015	1 2 050 050						
3	6100 AV	1 18 4 2725	30015 99 99					
4	6101	4460						
5	6105	0 1 27392	19 1 27336	21 2 27303	28 2 27282	35 3 27306		
5	6106	57 4 27291	62 4 27261	66 4 27243	69 4 27238	75 4 27236		
5	6107	83 4 27237	88 4 27244	91 4 27262	96 4 27285	100 4 27304		
5	6108	106 4 27361	116 4 27389	128 4 27387				
6	6115	1 2 055 055	1 2 055 055	1 2 050 035	1 2 060 050			



PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
80-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
8R-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
80-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	
80-XY	WARNING	STATION	18	IS LESS THAN	STATION	17	
80-XY	WARNING	STATION	20	IS LESS THAN	STATION	19	
80-XY	WARNING	STATION	22	IS LESS THAN	STATION	21	
8R-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	
8R-OP	WARNING	STATION	11	IS LESS THAN	STATION	10	
BRIDG	WARNING	STATION	14	IS LESS THAN	STATION	13	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	
BRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 11. DATE= 3/ 1/78

INPUT SUMMARY FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV

67 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 67 TYPE 3 CARDS

KEPT 67 CROSS SECTIONS FOR EDITING

67 " " VALID FOR PROPERTY COMPUTATIONS

67 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=H AT DISTANCE= 7690 PART 1 OF 1

KS	A	K	ALPHA	B	P	LEW	RFW	QC
2634.0	21	542	1.00	26	26	118	143	109
2643.9	846	85146	1.32	185	191	27	213	8925
2653.8	3531	516992	1.43	436	445	2	437	47687
2655.2	4144	643562	1.36	440	451	0	440	61836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=I AT DISTANCE= 8710 PART 1 OF 1

KS	A	K	ALPHA	B	P	LEW	RFW	QC
2639.0	56	2360	1.00	34	35	253	296	410
2648.9	1587	167017	1.15	299	304	18	317	19341
2657.9	4422	814840	1.01	324	339	0	324	92381

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=J AT DISTANCE= 10335 PART 1 OF 1

KS	A	K	ALPHA	B	P	LEW	RFW	QC
2643.0	14	299	1.00	18	18	149	167	66
2652.9	2840	193790	1.06	527	532	42	569	22099
2662.8	8247	1690778	1.03	723	732	8	731	158413
2664.4	4514	2833650	1.04	736	745	0	746	190350

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=K AT DISTANCE= 11705 PART 1 OF 1

KS	A	K	ALPHA	B	P	LEW	RFW	QC
2649.0	14	434	1.00	24	24	295	319	87
2658.9	3147	369348	1.01	540	547	9	577	40885
2668.8	8711	2009822	1.01	587	600	0	583	190422
2669.2	8941	2098296	1.01	583	601	0	583	198003



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=L-TW AT DISTANCE= 12858 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2651.0	13	257	1.00	21	21	647	664	59
2660.9	1209	87498	2.08	525	530	189	714	7205
2670.8	7780	1184873	1.13	771	778	30	801	131934
2674.1	10391	1839950	1.10	802	813	0	802	202461

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=RO-LM AT DISTANCE= 12858 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2650.0	8	131	1.30	14	14	9	24	32
2657.0	211	11257	1.00	9	77	0	24	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=M-APP AT DISTANCE= 12906 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2652.0	37	1165	1.00	29	29	620	649	237
2661.9	1891	187096	1.29	555	559	125	680	17429
2671.8	8452	1751295	1.04	722	742	4	737	159340
2675.8	11435	2886261	1.04	760	755	6	740	248910

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=N AT DISTANCE= 13320 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2652.0	5	91	1.00	14	14	604	618	22
2661.9	1551	93733	1.38	676	682	26	702	11348
2671.8	8690	1541957	1.05	754	764	4	757	163594
2673.7	10131	175057	1.05	762	773	0	762	204511

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=O AT DISTANCE= 14370 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2656.0	10	156	1.00	22	22	121	143	41
2665.9	1875	94450	1.15	244	251	44	288	11936
2675.8	3872	667650	1.04	308	322	6	314	76484



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=0 AT DISTANCE= 14370 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2677.4	4369	779330	1.04	314	330	0	314	90794

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=0-TW AT DISTANCE= 14762 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2658.0	34	910	1.00	35	35	40	75	192
2667.9	1924	156152	1.21	528	532	15	596	17482
2673.1	5238	663271	1.19	739	746	0	739	73557

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=BR-QR AT DISTANCE= 14762 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2657.0	9	168	1.00	15	15	32	47	39
2666.9	643	85690	1.00	82	95	0	82	10215
2668.3	758	73651	1.00	0	180	0	82	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=R AT DISTANCE= 14815 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2660.0	38	1482	1.00	20	22	541	561	294
2669.9	3847	404670	1.03	798	803	238	1076	47220
2675.9	9589	1436565	1.00	1162	1167	64	1226	156091

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=S AT DISTANCE= 15615 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2661.0	19	395	1.00	24	24	54	78	94
2670.9	1673	149807	1.05	384	389	20	394	19363
2679.8	8551	935841	1.04	500	509	0	500	102993



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=T-TW AT DISTANCE= 16324 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2663.0	17	451	1.00	17	18	89	106	96
2672.9	674	60585	1.35	135	139	17	151	7357
2679.6	1810	224601	1.30	220	226	0	220	25848

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=RO-TU AT DISTANCE= 16324 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2663.0	19	421	1.00	22	23	55	77	100
2672.9	562	45021	1.00	92	97	11	103	7864
2678.3	1110	79683	1.00	0	226	0	108	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=APP-U AT DISTANCE= 16467 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2664.0	31	848	1.00	26	26	81	107	191
2673.9	1125	95364	1.20	220	226	19	239	13158
2682.0	3493	453214	1.19	373	383	0	373	55509

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=V AT DISTANCE= 17170 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2666.0	8	152	1.00	12	12	43	55	35
2675.9	988	89680	1.07	221	225	0	228	11438
2681.1	2285	313546	1.05	275	282	0	275	36478

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=W AT DISTANCE= 18375 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2673.0	33	869	1.00	28	29	222	250	203
2682.9	2278	249504	1.05	439	442	36	474	28802
2689.2	5987	954686	1.01	650	655	0	650	102557



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=X-TW AT DISTANCE= 19382 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2675.0	16	325	1.00	23	23	98	121	73
2684.9	900	93165	1.25	194	199	59	253	9851
2689.6	2024	270089	1.24	300	307	0	300	26798

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=BO-XY AT DISTANCE= 19382 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2676.0	26	772	1.00	22	23	24	46	164
2685.9	562	39977	1.00	38	132	0	77	12270
2686.1	570	34440	1.00	0	171	0	77	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=APP-Y AT DISTANCE= 19502 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2677.0	36	1254	1.00	24	25	74	98	250
2686.9	984	127957	1.12	149	154	33	182	13552
2690.5	1621	251735	1.18	200	206	0	200	24147

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=YPRIM AT DISTANCE= 19605 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2677.0	28	858	1.00	23	23	75	98	176
2686.9	939	118061	1.09	146	151	34	181	12919
2690.8	1621	244381	1.13	200	206	0	200	24672

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=Z-DAM AT DISTANCE= 19607 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2688.0	118	5236	1.00	111	111	141	252	691
2697.9	1968	312295	1.00	267	273	0	267	30286
2703.2	3436	743982	1.00	287	300	0	287	67436



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AA AT DISTANCE= 20320 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	43	1141	1.00	60	60	219	279	208
2696.9	1721	232445	1.21	259	264	110	369	22832
2701.6	3314	534678	1.31	381	387	0	381	48357

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AR-TW AT DISTANCE= 20881 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2686.0	9	120	1.00	29	29	210	239	31
2695.9	1699	178117	1.13	446	454	24	469	17670
2702.3	4798	868131	1.02	503	514	0	503	83094

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=BR-OP AT DISTANCE= 20881 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	40	1236	1.00	33	34	15	48	254
2692.4	248	11900	1.00	0	105	0	48	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AC-AP AT DISTANCE= 20965 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	37	1664	1.00	25	26	164	190	254
2696.9	1083	125798	1.04	214	221	13	227	13556
2701.3	2137	342052	1.03	253	264	0	253	34675

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AD AT DISTANCE= 21615 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	26	638	1.00	29	29	67	96	137
2696.9	824	98649	1.12	151	157	9	160	10327
2701.8	1670	267249	1.09	196	204	0	196	26453



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AE AT DISTANCE= 22180 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2688.0	6	72	1.00	21	21	273	294	20
2697.9	1313	139055	1.00	288	292	33	320	15891
2702.6	2780	444834	1.03	333	339	0	333	44801

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AF AT DISTANCE= 23325 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	30	1045	1.00	21	22	55	75	205
2702.9	1212	130432	1.01	275	282	4	302	14368
2706.5	2340	349645	1.01	330	338	0	330	35074

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=COMP AT DISTANCE= 23349 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	32	1099	1.00	20	22	50	70	228
2702.9	514	34099	1.18	163	186	50	217	4762
2705.5	1088	89994	1.05	250	276	0	250	12533

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AG-.] AT DISTANCE= 23369 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	28	904	1.00	22	23	88	110	179
2702.9	701	73404	1.29	158	165	39	197	7387
2706.8	1479	200480	1.11	224	233	0	224	20426

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AG AT DISTANCE= 23411 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	26	779	1.00	22	23	88	110	158
2702.9	685	71249	1.29	156	163	40	196	7154
2706.9	1479	200451	1.11	224	233	0	224	20422



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AH AT DISTANCE= 23710 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2894.0	37	1459	1.00	26	27	78	104	256
2703.9	778	92420	1.50	153	157	12	165	8121
2707.8	1456	206788	1.37	196	201	0	196	19238

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AI-TX AT DISTANCE= 23915 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	33	1297	1.00	21	22	91	112	234
2704.9	788	93140	2.05	122	128	5	128	10963
2708.6	1271	180483	1.01	147	155	0	147	21060

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AR-UP AT DISTANCE= 23915 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	38	1561	1.00	26	27	2	28	259
2701.9	230	16778	1.00	0	71	0	28	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AJ-AP AT DISTANCE= 23963 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	53	2356	1.00	35	36	73	108	357
2704.9	838	114853	1.30	140	146	4	144	9981
2712.8	2106	420244	1.16	175	186	-4	170	38501

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AK AT DISTANCE= 24820 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2698.0	17	405	1.00	17	17	24	41	101
2707.9	1154	108050	1.00	291	296	11	302	13037
2712.6	2733	391668	1.04	275	383	0	375	41081



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AL AT DISTANCE= 25430 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2701.0	22	579	1.00	23	24	77	101	124
2710.9	1972	256056	1.07	314	318	21	336	27068
2715.9	3676	661384	1.10	357	363	0	357	63836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AM AT DISTANCE= 25875 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	38	1174	1.00	31	31	191	222	237
2712.9	1689	190295	1.08	318	321	52	370	21259
2717.0	3171	469185	1.07	396	399	0	396	49202

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AM+.5 AT DISTANCE= 25988 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2704.0	53	2091	1.00	33	34	190	222	388
2713.9	1852	215578	1.08	333	336	42	375	23844
2717.5	3171	469185	1.07	396	399	0	396	49202

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=BRID6 AT DISTANCE= 25988 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	23	529	1.00	29	29	5	34	115
2708.5	222	10994	1.00	0	89	0	40	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AM AT DISTANCE= 26048 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2705.0	40	1601	1.00	25	26	99	124	284
2714.9	2021	319839	1.11	314	316	23	337	27684
2718.2	3120	605530	1.13	350	354	0	350	49669



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=A0 AT DISTANCE= 26760 PART 1 OF 1

WS	L	K	ALPHA	B	P	LEW	RFW	QC
2707.0	29	921	1.00	22	23	168	190	184
2716.9	875	92563	1.00	176	179	49	224	11069
2720.5	1624	210058	1.03	247	252	0	247	23311

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AP AT DISTANCE= 27865 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2712.0	9	149	1.00	19	20	457	485	36
2721.9	1076	121803	1.15	182	187	374	556	13865
2727.1	2996	380925	1.30	590	596	0	590	33590

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AQ-TW AT DISTANCE= 28514 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2716.0	39	1507	1.00	25	26	111	137	273
2725.9	687	76487	1.21	133	139	44	177	8075
2729.1	1289	159359	1.32	267	274	0	267	13993

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=BRIDG AT DISTANCE= 28514 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2717.0	79	3708	1.00	34	40	11	45	680
2722.4	298	17498	1.00	0	107	0	47	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AR AT DISTANCE= 28602 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2716.0	30	981	1.00	23	24	95	118	189
2725.9	689	72861	1.04	114	118	48	162	9433
2730.1	1378	166752	1.12	216	222	0	216	18652



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AS-TW AT DISTANCE= 28785 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	13	310	1.00	14	15	59	74	57
2725.9	544	54177	1.04	95	100	43	138	7269
2730.7	1170	145772	1.09	172	178	0	172	16599

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=BRIDG AT DISTANCE= 28785 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2717.0	28	830	1.00	23	24	0	23	175
2726.9	422	30516	1.00	16	97	0	47	12437
2727.1	424	27748	1.00	0	113	0	47	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AT AT DISTANCE= 28890 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2718.0	31	890	1.00	28	28	29	57	182
2727.9	800	96350	1.25	150	155	12	167	9366
2731.4	1380	209784	1.19	185	191	0	185	19632

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AU AT DISTANCE= 29625 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2722.0	23	575	1.00	31	31	29	60	115
2731.9	708	70439	1.00	113	116	5	118	10075
2735.9	1260	145388	1.00	160	166	0	160	20066

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AV AT DISTANCE= 30015 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2725.0	27	722	1.00	25	25	64	89	161
2734.9	616	70459	1.05	90	97	15	105	8903
2739.2	1062	139591	1.19	128	137	0	128	15918











CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=H AT DISTANCE= 7690 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2634.0	21	542	1.00	26	26	118	143	109
2643.9	641	73175	1.15	100	110	80	180	8585
2653.8	1631	305028	1.15	100	130	80	180	34767
2655.2	1771	346185	1.16	100	133	80	180	39209

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=I AT DISTANCE= 8710 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2639.0	56	2360	1.00	34	35	263	296	410
2648.9	1159	132668	1.11	185	194	130	315	15581
2657.9	2824	527551	1.01	185	212	130	315	62261

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=J AT DISTANCE= 10335 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2643.0	14	299	1.00	18	18	149	167	66
2652.9	1346	130474	1.10	340	353	100	440	14498
2662.8	4712	994188	1.03	340	373	100	440	97837
2664.4	5256	1189737	1.04	340	376	100	440	114927

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=K AT DISTANCE= 11705 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2649.0	18	434	1.00	24	25	295	319	87
2658.9	1760	212617	1.02	305	318	160	465	23697
2668.8	4780	1077368	1.02	305	338	160	465	106346
2669.2	4902	1121966	1.02	305	339	160	465	110440



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=L-TW AT DISTANCE= 12858 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2651.0	13	257	1.00	21	21	643	664	59
2660.9	1206	87724	2.06	518	523	192	710	7270
2670.8	6334	1073331	1.07	518	543	192	710	121704
2674.1	8044	1582482	1.05	518	550	192	710	175124

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=M-APP AT DISTANCE= 12906 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	37	1166	1.00	29	29	620	649	237
2661.9	1112	123831	1.27	259	266	420	679	11578
2671.8	3676	808514	1.05	259	286	420	679	76757
2675.8	4712	1205544	1.05	259	294	420	679	111170

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=N AT DISTANCE= 13320 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	6	91	1.00	14	14	604	618	22
2661.9	979	69206	1.25	320	329	340	660	8636
2671.8	4143	746879	1.04	320	349	340	660	82908
2673.7	4751	934329	1.04	320	353	340	660	101570

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=O AT DISTANCE= 14370 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2656.0	10	156	1.00	22	20	121	143	41
2665.9	772	73979	1.19	141	154	100	241	9785
2675.8	2168	375431	1.04	141	174	100	241	47287
2677.4	2393	438347	1.04	141	177	100	241	54796



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=Q-TW AT DISTANCE= 14762 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2658.0	34	910	1.00	35	35	40	75	192
2667.9	1819	156796	1.20	508	512	16	577	17808
2673.1	4699	640213	1.08	561	576	16	577	74320

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=R AT DISTANCE= 14815 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2660.0	38	1482	1.00	20	22	541	561	294
2669.9	1429	159528	1.01	240	254	500	740	19705
2675.9	2869	495823	1.01	240	266	500	740	56020

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=S AT DISTANCE= 15615 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2661.0	19	395	1.00	24	24	54	78	94
2670.9	1565	147972	1.04	320	327	10	330	19238
2679.8	4413	813736	1.07	320	345	10	330	89853

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=T-TW AT DISTANCE= 16324 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2663.0	17	451	1.00	17	18	89	106	96
2672.9	674	63644	1.35	134	138	17	151	7383
2679.6	1572	215871	1.15	134	152	17	151	28478

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=APP-U AT DISTANCE= 16467 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2664.0	31	848	1.00	26	26	81	107	191
2673.9	790	74182	1.12	125	138	60	185	10648
2682.0	1803	275157	1.13	125	154	60	185	36556



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=V AT DISTANCE= 17170 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2666.0	8	152	1.00	12	12	43	55	35
2675.9	764	74910	1.07	135	147	15	150	9975
2681.1	1466	214217	1.08	135	157	15	150	26352

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=W AT DISTANCE= 18375 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2673.0	33	869	1.00	28	29	222	250	203
2682.9	1169	139888	1.01	165	179	135	350	17546
2689.2	2208	388367	1.01	165	192	185	350	45586

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=X-TW AT DISTANCE= 19382 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2675.0	16	325	1.00	23	23	98	121	73
2684.9	800	86865	1.10	153	162	90	243	9880
2689.6	1519	233763	1.00	153	171	90	243	27105

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=APP-Y AT DISTANCE= 19502 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2677.0	36	1254	1.00	24	25	74	98	250
2686.9	902	123140	1.10	112	125	53	165	13824
2690.5	1305	221481	1.12	112	132	53	165	23853

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=YPRIM AT DISTANCE= 19605 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2677.0	28	858	1.00	23	23	75	98	176
2686.9	914	119569	1.09	126	135	45	171	13380
2690.8	1405	235987	1.10	126	143	45	171	25408



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=Z-DAM AT DISTANCE= 19607 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2688.0	118	5236	1.00	111	111	141	252	691
2697.9	1334	254810	1.00	125	140	132	257	24710
2703.2	1996	475373	1.00	125	151	132	257	45247

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AA AT DISTANCE= 20320 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	43	7141	1.00	60	60	219	279	208
2696.9	1006	156950	1.09	110	124	190	300	16506
2701.6	1523	303403	1.12	116	134	190	300	30401

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AB-TW AT DISTANCE= 20881 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2686.0	9	120	1.00	29	29	210	239	31
2695.9	1690	184082	1.15	425	434	44	469	17796
2702.3	4410	825454	1.03	425	447	44	469	79223

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AC-AP AT DISTANCE= 20965 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	37	1664	1.00	25	26	164	190	254
2696.9	827	103907	1.02	121	131	90	211	12136
2701.3	1359	228991	1.03	121	140	90	211	25451

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AD AT DISTANCE= 21615 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	26	638	1.00	29	29	67	96	137
2696.9	674	86368	1.06	98	110	30	128	9708
2701.8	1154	198302	1.04	98	120	30	128	21987



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AF AT DISTANCE= 22180 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2688.0	6	72	1.00	21	21	273	294	20
2697.9	1154	130479	1.01	218	227	100	318	14958
2702.6	2179	370862	1.05	218	236	100	318	38209

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AF AT DISTANCE= 23325 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	30	1045	1.00	21	22	55	75	205
2702.9	1066	131241	1.01	176	187	43	219	14836
2706.5	1700	281489	1.03	176	195	43	219	29450

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=COMP AT DISTANCE= 23349 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	32	1099	1.00	20	22	50	70	228
2702.9	514	34099	1.18	164	186	50	218	4762
2705.5	965	86934	1.01	175	204	44	219	12769

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AG-.1 AT DISTANCE= 23369 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	28	904	1.00	22	23	88	110	179
2702.9	648	72124	1.18	109	120	46	155	8265
2706.8	1073	152925	1.09	109	127	46	155	18279

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AG AT DISTANCE= 23411 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	26	779	1.00	22	23	88	110	158
2702.9	616	68973	1.17	100	112	50	150	8033
2706.9	1016	145386	1.10	100	120	50	150	17552



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AH AT DISTANCE= 23710 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2694.0	37	1459	1.00	26	27	78	104	256
2703.9	688	91784	1.26	96	106	44	140	9318
2707.8	1063	174697	1.20	96	114	44	140	18297

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AI-TW AT DISTANCE= 23915 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	33	1297	1.00	21	22	91	112	234
2704.9	780	93140	1.05	122	128	5	126	10963
2708.6	1235	188475	1.01	123	136	4	127	22103

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AJ-AP AT DISTANCE= 23963 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	53	2356	1.06	35	36	73	108	357
2704.9	725	106442	1.26	90	100	35	125	10394
2712.8	1436	293538	1.24	90	116	35	125	29229

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AK AT DISTANCE= 24820 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2698.0	17	405	1.00	17	17	24	41	101
2707.9	778	87587	1.06	120	130	11	131	10930
2712.6	1342	212907	1.12	120	140	11	131	24061

CROSS-SECTION PROPERTIES FOR: COVE CRLEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AL AT DISTANCE= 25430 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2701.0	22	579	1.00	23	24	77	101	124
2710.9	1411	184223	1.05	200	215	50	250	20720
2715.9	2411	441808	1.08	200	225	50	250	45760



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AM AT DISTANCE= 25875 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	38	1174	1.00	31	31	191	222	237
2712.9	1224	158345	1.02	160	173	120	280	19004
2717.0	1880	314454	1.02	160	181	120	280	36224

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AM+.5 AT DISTANCE= 25988 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2704.0	53	2091	1.00	33	34	190	222	388
2713.9	1658	217268	1.02	232	242	101	333	24877
2717.5	2493	420964	1.02	232	249	101	333	45888

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AN AT DISTANCE= 26048 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2705.0	40	1601	1.00	25	26	99	124	284
2714.9	1654	290297	1.05	199	213	86	285	26417
2718.2	2311	502545	1.06	199	220	86	285	43385

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=A0 AT DISTANCE= 26760 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2707.0	29	921	1.00	22	23	168	190	184
2716.9	814	98009	1.01	127	135	84	211	11649
2720.5	1271	201104	1.04	127	143	84	211	22413

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AP AT DISTANCE= 27865 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2712.0	9	149	1.00	19	20	457	485	36
2721.9	720	85509	1.03	83	99	450	533	11863
2727.1	1151	173934	1.01	83	109	450	533	24181



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AQ-TW AT DISTANCE= 28514 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2716.0	39	1507	1.00	25	26	111	137	273
2725.9	394	47427	1.00	42	57	105	147	6844
2729.1	528	72042	1.00	42	63	105	147	10629

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AR AT DISTANCE= 28602 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2716.0	30	981	1.00	23	24	95	118	189
2725.9	607	66303	1.02	64	92	55	135	9379
2730.1	943	132438	1.02	80	100	55	135	18161

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AS-TW AT DISTANCE= 28785 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2716.0	13	310	1.00	14	15	59	74	67
2725.9	544	54177	1.04	95	100	43	138	7269
2730.7	1047	145998	1.02	107	120	36	143	18410

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AT AT DISTANCE= 28890 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2718.0	31	890	1.00	28	28	29	57	182
2727.9	572	78952	1.09	68	78	12	80	9027
2731.4	815	134641	1.12	70	86	10	80	14922

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 SECID=AU AT DISTANCE= 29525 PART 1 OF 1  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2722.0	23	575	1.00	31	31	29	60	115
2731.9	679	72835	1.00	92	99	8	100	10460
2735.9	1047	142322	1.00	92	107	8	100	20030



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
SECID=AV AT DISTANCE= 30015 PART 1 OF 1  
\*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

WS	A	K	ALPHA	B	P	LEW	REW	QC
2725.0	27	722	1.00	25	25	64	89	161
2734.9	612	70583	1.05	84	93	19	103	9153
2739.2	973	146678	1.08	84	102	19	103	18083



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
M-APP	HIN TOO LOW	:	USED HIN = WSD+0.01 ✓
M-APP	MAX QRD < QT (3)	:	CHECKED QRD
Q-TW	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
R	HIN TOO LOW	:	USED HIN = WSD+0.01 ✓
R	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
R	WSU > BELMX (1)	:	CHECKED QRD (2)
R	YU/Z < 1.1 (1)	:	ASSUMED QRD (1)
T-TW	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
APP-U	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
APP-Y	WSU > BELMX (1)	:	CHECKED QRD (2)
Z-DAM	WS NOT FOUND BETWEEN	: WS = 2687.12 & WS = 2703.20:	USED DEL = 0.25
Z-DAM	WS NOT FOUND BETWEEN	: WS = 2687.12 & WS = 2703.20:	USED WSMIN = WSC
Z-DAM	WS NOT FOUND	:	ASSUMED WS = WSC
IA	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AB-TW	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP	HIN TOO LOW	:	USED HIN = WSD+0.01 ✓
AC-AP	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP	QRD > QT	:	ASSUMED WSU = HIN ✓
AE	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
COMP	WS NOT FOUND BETWEEN	: WS = 2700.85 & WS = 2705.50:	USED DEL = 0.25
COMP	WS NOT FOUND BETWEEN	: WS = 2700.85 & WS = 2705.50:	USED WSMIN = WSC
COMP	WS NOT FOUND	:	ASSUMED WS = WSC
AG-.1	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AJ-AP	HIN TOO LOW	:	USED HIN = WSD+0.01 ✓
AJ-AP	MAX QRD < QT (3)	:	



AK : KU/KD < 0.7 OR > 1.4  
AM : KU/KD < 0.7 OR > 1.4  
AN : MAX QBO < QT (3)  
AN : MIN QTC > QT (3)  
AO : KU/KD < 0.7 OR > 1.4  
AP : KU/KD < 0.7 OR > 1.4  
AQ-TW: KU/KD < 0.7 OR > 1.4  
AR : KU/KD < 0.7 OR > 1.4  
AR : MAX QBO < QT (3)  
AR : MIN QTC > QT (3)  
AU : KU/KD < 0.7 OR > 1.4

CHECKED QRD

ALERTED USER

ALERTED USER

CHECKED QRD

ASSUMED WSU = H1N ✓

ALERTED USER

ALERTED USER

ALERTED USER

ALERTED USER

CHECKED QRD

ASSUMED WSU = H1N ✓

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 PAGE 1 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
H	AT	7690 / 2646.03	0 / 0.99	6390. /	854. / 2647.02	112930. /	1.14 / 7.48	80. / 0.47	180. /		*IS*
I	AT	8710 / 2649.15	1020 / 0.48	6390. / 2.62	1206. / 2649.64	140944. /	1.11 / 5.30	130. / 0.36	315. / 0.001		*XS*
J	AT	10335 / 2652.88	1625 / 0.39	6390. / 3.63	1341. / 2653.27	129607. /	1.10 / 4.77	100. / 0.43	440. / 0.001		*XS*
K	AT	11705 / 2656.88	1370 / 0.51	6390. / 4.06	1145. / 2657.39	106276. /	1.05 / 5.58	160. / 0.46	465. / -0.000		*XS*
L-TW	AT	12858 / 2661.17	1153 / 0.66	6390. / 4.36	1347. / 2661.83	101687. /	1.89 / 4.74	192. / 0.50	710. / 0.007		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
RO-LM	AT	12858 / 2657.00	/ 0.66	1381. / ...3...	211. / (-.001)	11207. /	1.00 / 6.53	0. / 0.46	34. /		*R0*
===== END BRIDGE ANALYSIS =====											
EMBANKMENT OVERFLOW (CFS) / LEFT 4679. / RIGHT 448. / *RG*											
M-APP	AT	12906 / 2661.18	48 / 1.03	6390. / 0.20	926. / 2662.21	95800. /	1.38 / 6.90	420. / 0.55	678. / -0.011		*AS*
M	=	**** / 2661.18	E = **** / 1.03	K* = **** /	926. / 2662.21	95800. /	1.38 / 6.90	420. / 0.55	678. /		*AS*
===== END BRIDGE ANALYSIS =====											
N	AT	13320 / 2663.26	414 / 0.34	6390. / 1.39	1410. / 2663.60	126824. /	1.07 / 4.53	340. / 0.40	660. / 0.001		*XS*
O	AT	14370 / 2666.70	1050 / 0.87	6390. / 3.70	884. / 2667.57	91355. /	1.07 / 7.23	100. / 0.49	241. / 0.001		*XS*
Q-TW	AT	14762 / 2668.27	392 / 0.13	5370. / 0.84	2011. / 2668.40	177663. /	1.19 / 2.67	16. / 0.24	577. / 0.000		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BR-OR	AT	14762 / 2668.27	/ 0.57	3964. / ...1...	654. / (0.047)	93539. /	1.00 / 6.06	0. / 0.35	82. /		*R0*
===== END BRIDGE ANALYSIS =====											
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1333. / *RG*											
R	AT	14815 / 2668.28	53 / 0.43	5370. / 0.09	1041. / 2668.71	95682. /	1.04 / 5.16	500. / 0.45	740. / -0.011		*AS*
M	=	0.62 / 2669.03	E = 0.37 / 0.31	K* = 1.10 /	1221. / 2669.34	123597. /	1.02 / 4.40	500. / 0.36	740. /		*AS*
===== END BRIDGE ANALYSIS =====											
S	AT	15615 / 2670.53	800 / 0.22	5370. / 1.43	1448. / 2670.76	130368. /	1.05 / 3.71	11. / 0.34	330. / -0.014		*XS*

~~use 701~~

use 234 & 679

100-12  
 200-18  
 200-18

R

R

R

561



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 PAGE 2 OF 5. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	

=====

S  
100 Yr  
2672.67

T-TW	AT	16324	/	709	/	5370.	/	643.	/	56842.	/	1.36	/	17.	/	150.	
		2672.67	/	1.47	/	2.76	/	0.63	/	2674.14	/	8.35	/	0.67	/	0.001	*XS*

✓  
100-Yr  
✓

===== BEGIN BRIDGE ANALYSIS =====

BO-TU	AT	16324	/		/	5370.	/	522.	/	41009.	/	1.00	/	11.	/	102.
		2672.67	/	1.65	/	...	/	0.057	/	10.29	/	0.74	/		/	*R0*

-----

NO EMBANKMENT CROSS SECTION

T

APP-U	AT	16467	/	143	/	5370.	/	843.	/	82056.	/	1.11	/	60.	/	185.	
		2674.32	/	0.70	/	0.88	/	0.0	/	2675.02	/	6.37	/	0.40	/	-0.000	*AS*

M = 0.18 / E = 0.0 / K\* = 0.45 / 957. / 100124. / 1.11 / 60. / 185. / 2675.23 / 0.54 / / 2675.77 / 5.61 / 0.33 / \*AS\*

===== END BRIDGE ANALYSIS =====

U

V	AT	17170	/	703	/	5370.	/	936.	/	104001.	/	1.06	/	15.	/	150.	
		2677.18	/	0.54	/	1.95	/	0.00	/	2677.72	/	5.74	/	0.44	/	0.002	*XS*

V

W	AT	18375	/	1205	/	5200.	/	853.	/	84441.	/	1.03	/	185.	/	350.	
		2680.99	/	0.59	/	3.83	/	0.02	/	2681.58	/	6.09	/	0.44	/	0.002	*XS*

W

X-TW	AT	19382	/	1007	/	5200.	/	779.	/	83509.	/	1.11	/	90.	/	243.	
		2684.76	/	0.77	/	3.86	/	0.09	/	2685.53	/	6.68	/	0.47	/	0.001	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BO-XY	AT	19382	/		/	4849.	/	552.	/	34440.	/	1.00	/	0.	/	77.
		2686.10	/	1.20	/	...	/	0.032	/	8.79	/	0.58	/		/	*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 287. / \*RG\*

X

APP-Y	AT	19502	/	120	/	5200.	/	706.	/	83439.	/	1.09	/	53.	/	165.	
		2685.16	/	0.92	/	0.47	/	0.07	/	2686.07	/	7.36	/	0.40	/	-0.000	*AS*

M = \*\*\*\* / E = \*\*\*\* / K\* = \*\*\*\* / 930. / 129398. / 1.10 / 53. / 165. / 2687.15 / 0.54 / / 2687.69 / 5.59 / 0.27 / \*AS\*

===== END BRIDGE ANALYSIS =====

Y

YPRIM	AT	19605	/	103	/	5200.	/	973.	/	132032.	/	1.09	/	45.	/	171.	
		2687.37	/	0.48	/	0.16	/	0.0	/	2687.85	/	5.34	/	0.40	/	-0.001	*XS*

Z-DAM	AT	19607	/	2	/	5200.	/	473.	/	48521.	/	1.00	/	132.	/	257.	
		2691.01	/	1.88	/	*****	/	*****	/	2692.89	/	11.00	/	0.99	/	*****	*XS*

✓  
100-Yr

AA	AT	20320	/	713	/	5200.	/	856.	/	121567.	/	1.09	/	190.	/	300.	
		2695.54	/	0.62	/	3.27	/	0.0	/	2696.16	/	6.08	/	0.40	/	0.000	*XS*

AB-TW	AT	20881	/	561	/	5200.	/	1978.	/	232564.	/	1.12	/	44.	/	469.	
		2696.58	/	0.12	/	0.54	/	0.0	/	2696.70	/	2.63	/	0.22	/	0.000	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BR-OP	AT	20881	/		/	0.	/	232.	/	11468.	/	1.00	/	0.	/	48.
		2692.40	/	0.0	/	...	/	0.030	/	0.0	/	0.0	/		/	*R0*

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WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 PAGE 3 OF 5. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID		
=====													
EMBANKMENT OVERFLOW (CFS) / LEFT			3387. / RIGHT			3049. /			*RG*				
-----													
AC-AP	AT	20965 /	84 /	5200. /	789. /	96534. /	1.02 /	90. /	211.				
		2696.59 /	0.69 /	0.10 /	0.49 /	2697.28 /	6.59 /	0.39 /	-0.011	*AS*			
-----													
M =	****	/	E =	****	/	K* =	****	/	789. /	96534. /	1.02 /	90. /	211.
		2696.59 /	0.69 /			2697.28 /	6.59 /	0.39 /		*AS*			
=====													
END BRIDGE ANALYSIS													
AD	AT	21615 /	650 /	5200. /	802. /	112893. /	1.05 /	30. /	128.				
		2698.21 /	0.69 /	1.61 /	0.00 /	2698.90 /	6.49 /	0.38 /	0.006	*XS*			
-----													
AE	AT	22180 /	565 /	5200. /	1478. /	196344. /	1.03 /	100. /	318.				
		2699.39 /	0.20 /	0.69 /	0.0 /	2699.58 /	3.52 /	0.26 /	-0.000	*XS*			
-----													
AF	AT	23325 /	1145 /	4640. /	749. /	73869. /	1.00 /	43. /	219.				
		2701.10 /	0.60 /	1.91 /	0.20 /	2701.70 /	6.19 /	0.58 /	0.001	*XS*			
-----													
COMP	AT	23349 /	24 /	4640. /	545. /	36852. /	1.14 /	44. /	219.				
		2703.09 /	1.29 /	***** /	***** /	2704.38 /	8.51 /	0.55 /	*****	*XS*			
-----													
AG-.1	AT	23369 /	20 /	4640. /	751. /	89334. /	1.15 /	46. /	155.				
		2703.84 /	0.68 /	0.13 /	0.0 /	2704.52 /	6.18 /	0.41 /	0.010	*XS*			
-----													
AG	AT	23411 /	42 /	4640. /	719. /	86443. /	1.14 /	50. /	150.				
100 yr		2703.93 /	0.74 /	0.12 /	0.03 /	2704.67 /	6.45 /	0.42 /	-0.000	*XS*			
-----													
AH	AT	23710 /	299 /	4640. /	761. /	106208. /	1.24 /	44. /	140.				
		2704.65 /	0.72 /	0.70 /	0.0 /	2705.37 /	6.10 /	0.41 /	0.001	*XS*			
-----													
AI-TW	AT	23915 /	205 /	4640. /	826. /	101019. /	1.04 /	4. /	127.				
		2705.27 /	0.51 /	0.41 /	0.0 /	2705.78 /	5.62 /	0.36 /	-0.000	*XS*			
=====													
BEGIN BRIDGE ANALYSIS													
BR-OP	AT	23915 /	/	2096. /	222. /	16123. /	1.00 /	0. /	28.				
		2701.90 /	1.38 /	...3... /	(-.001) /	9.43 /	0.58 /			*R0*			
-----													
EMBANKMENT OVERFLOW (CFS) / LEFT			2104. / RIGHT			358. /			*RG*				
-----													
AJ-AP	AT	23963 /	48 /	4640. /	759. /	113863. /	1.25 /	35. /	125.				
		2705.28 /	0.73 /	0.09 /	0.15 /	2706.01 /	6.11 /	0.40 /	-0.011	*AS*			
-----													
M =	****	/	E =	****	/	K* =	****	/	907. /	147921. /	1.24 /	35. /	125.
100 yr		2706.92 /	0.51 /			2707.43 /	5.12 /	0.32 /		*AS*			
=====													
END BRIDGE ANALYSIS													
AK	AT	24820 /	857 /	4640. /	816. /	94864. /	1.06 /	11. /	131.				
		2708.22 /	0.53 /	1.31 /	0.01 /	2708.76 /	5.68 /	0.47 /	0.000	*XS*			
-----													
AL	AT	25430 /	610 /	4640. /	1142. /	130123. /	1.05 /	50. /	250.				
		2709.55 /	0.27 /	1.06 /	0.0 /	2709.82 /	4.06 /	0.34 /	0.001	*XS*			
-----													

100 - Yr



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 PAGE 4 OF 5. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS FLEV	HV	HF	HE	EG	V	FN	ACC	ID	
AM	AT	25875	445	4640.	808.	81601.	1.05	120.	280.
2710.30		0.54	0.90	0.13	2710.84	5.74	0.41	-0.019	*XS*
AM+.5	AT	25988	113	4640.	929.	85489.	1.10	101.	333.
2710.76		0.43	0.35	0.0	2711.19	4.99	0.39	-0.001	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BRIDGE	AT	25988		1066.	214.	10592.	1.00	0.	40.
2708.50		0.39		...3...	(-0.001)	4.98	0.37		*R0*
=====									
EMBANKMENT OVERFLOW (CFS)		LEFT	359.	RIGHT	3497.				*RG*
AN	AT	26048	60	4640.	857.	98019.	1.03	86.	285.
2710.89		0.47	0.15	0.02	2711.36	5.41	0.51	-0.001	*AS*
=====									
M = ****	F = ****	K* = ****		857.	98019.	1.03	86.	285.	
2710.89		0.47		2711.36	5.41	0.51			*AS*
===== END BRIDGE ANALYSIS =====									
AO	AT	26760	712	4640.	469.	40836.	1.01	85.	210.
2714.19		1.54	3.83	0.04	2715.72	9.88	0.77	-0.003	*XS*
AP	AT	27865	1105	4640.	719.	85329.	1.03	450.	533.
2721.89		0.67	6.83	0.0	2722.55	6.45	0.40	0.001	*XS*
AO-TW	AT	28514	649	4640.	353.	40446.	1.00	105.	147.
2724.93		2.69	4.05	1.01	2727.61	13.14	0.80	-0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BRIDGE	AT	28514		3238.	232.	16845.	1.00	0.	47.
2722.40		2.06		...3...	(0.021)	11.50	0.81		*R0*
=====									
EMBANKMENT OVERFLOW (CFS)		LEFT	723.	RIGHT	1508.				*RG*
AP	AT	28602	88	4640.	735.	89663.	1.02	55.	135.
2727.50		0.63	0.52	0.0	2728.14	6.31	0.35	0.000	*AS*
=====									
M = ****	F = ****	K* = ****		735.	89663.	1.02	55.	135.	
2727.50		0.63		2728.14	6.31	0.35			*AS*
===== END BRIDGE ANALYSIS =====									
AS-TW	AT	28785	183	4640.	762.	88887.	1.03	36.	143.
2728.04		0.59	0.49	0.0	2728.63	6.09	0.37	-0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BRIDGE	AT	28785		3612.	358.	23606.	1.00	0.	47.
2727.10		1.59		...3...	(0.025)	10.10	0.60		*R0*
=====									
EMBANKMENT OVERFLOW (CFS)		LEFT	192.	RIGHT	866.				*RG*
AT	AT	28890	105	4640.	587.	81946.	1.10	12.	80.
2728.11		1.07	0.31	0.24	2729.18	7.91	0.48	-0.000	*AS*
=====									
M = ****	F = ****	K* = ****		700.	106860.	1.11	10.	80.	

100-Yr  
 ✓  
 ✓  
 ✓  
 Extend to 100-Yr  
 ✓  
 ✓  
 ✓



2729.75 / 0.76 / / 2730.51 / 6.63 / 0.37 / \*AS\*  
===== END BRIDGE ANALYSIS =====



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 PAGE 5 OF 5. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS  
 \*\*\* FLOODWAY ANALYSIS \*\*\* FLOODWAY H-AV

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AU   AT  29625 /  735 /  4640. /  673. /  71811. / 1.00 /   8. / 100.
      2731.84 /  0.74 /  2.06 /  0.0 /  2732.57 /  6.90 /  0.45 / 0.000 *XS*
-----
AV   AT  30015 /  390 /  4460. /  511. /  53271. / 1.05 /  19. / 103.
      2733.69 /  1.25 /  2.11 /  0.25 /  2734.94 /  8.74 /  0.58 / 0.001 *XS*
-----
    
```

✓ 100-Yr.

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 41,DATE= 3/ 1/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	Z-DAM	COMP
WSC	2691.01	2703.09



SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-AV (PROFILE  
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE  
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 2

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	0.99	*****	185
J	1200	0	HOR	YES	YES	*****	0.84	*****	340
K	1300	0	HOR	YES	YES	*****	0.99	*****	305
L-TW	1400	0	HOR	YES	YES	*****	0.40	*****	518
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	-0.62	*****	<del>258</del> 445
N	1700	0	HOR	YES	YES	*****	0.71	*****	320
O	1800	0	HOR	YES	YES	*****	0.94	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.90	*****	561
BR-QR	2200	2	N.A.	N.A.	N.A.	*****	0.90	*****	71
PR-QR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.22	*****	240
S	2400	0	HOR	YES	YES	*****	0.94	*****	319
T-TW	2500	0	HOR	YES	YES	*****	-0.21	*****	133
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.21	*****	88
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-0.35	*****	125
V	2800	0	HOR	YES	YES	*****	0.45	*****	135
W	2900	1	HOR	YES	YES	*****	0.93	*****	165
X-TW	3000	0	HOR	YES	YES	*****	0.67	*****	153
BO-XY	3100	2	N.A.	N.A.	N.A.	*****	2.01	*****	77
PR-XY	3120	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
RD-XY	3150	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-Y	3200	5	HOR	YES	YES	*****	-0.16	*****	112
YPRIM	3280	0	HOR	YES	YES	*****	-0.09	*****	126
Z-DAM	3300	0	HOR	YES	YES	*****	0.00	*****	125
AA	3400	0	HOR	YES	YES	*****	0.37	*****	110
AB-TW	3500	0	HOR	YES	YES	*****	0.70	*****	425
BR-OP	3600	2	N.A.	N.A.	N.A.	*****	-3.48	*****	46
PIER	3620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	3650	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AC-AP	3700	5	HOR	YES	YES	*****	0.66	*****	121
AD	3800	0	HOR	YES	YES	*****	0.53	*****	98
AF	3900	0	HOR	YES	YES	*****	0.71	*****	218
AF	4000	1	HOR	YES	YES	*****	0.26	*****	176
COMP	4100	0	HOR	YES	YES	*****	0.05	*****	175
AG-.1	4150	0	HOR	YES	YES	*****	-0.12	*****	109



SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV  
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-AV (PROFILE  
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE  
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 2 OF 2

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
AG	4200	0	HOR	YES	YES	*****	-0.13	*****	100
AH	4300	0	HOR	YES	YES	*****	0.03	*****	96
AI-TW	4400	0	HOR	YES	YES	*****	0.15	*****	123
BP-OP	4500	2	N.A.	N.A.	N.A.	*****	-3.22	*****	27
ROAD	4550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AJ-AP	4600	5	HOR	YES	YES	*****	-0.16	*****	90
AK	4700	0	HOR	YES	YES	*****	0.14	*****	120
AL	4800	0	HOR	YES	YES	*****	0.64	*****	200
AM	4900	0	HOR	YES	YES	*****	0.62	*****	160
AM+.5	4950	0	HOR	YES	YES	*****	0.49	*****	232
BRIDG	5000	2	N.A.	N.A.	N.A.	*****	-1.77	*****	39
ROAD	5050	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AN	5100	5	HOR	YES	YES	*****	0.30	*****	199
AO	5200	0	HOR	YES	YES	*****	-0.11	*****	125
AP	5300	0	HOR	YES	YES	*****	0.89	*****	83
AQ-TW	5400	0	HOR	YES	YES	*****	1.35	*****	42
BRIDG	5500	2	N.A.	N.A.	N.A.	*****	-1.18	*****	45
PIER	5520	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	5550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AR	5600	5	HOR	YES	YES	*****	0.82	*****	80
AS-TW	5700	0	HOR	YES	YES	*****	0.83	*****	107
BRIDG	5800	2	N.A.	N.A.	N.A.	*****	-0.11	*****	41
PIER	5820	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	5850	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AT	5900	5	HOR	YES	YES	*****	0.07	*****	70
AU	6000	0	HOR	YES	YES	*****	0.59	*****	92
AV	6100	1	HOR	YES	YES	*****	0.10	*****	84







\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
5	605	0 1 26542	10 1 26483	28 1 26466	53 2 26456	59 2 26418		
5	606	65 2 26394	76 2 26354	87 2 26301	91 2 26297	96 2 26307		
5	607	106 2 26318	113 2 26312	123 2 26303	130 2 26304	133 2 26336		
5	608	139 2 26342	150 2 26378	163 2 26438	177 2 26490	198 2 26496		
6	615	1 2 050 050	1 2 050 045					
3	700	PR-FG 2 19 1 2631	6805	15 26447	1 1			
5	705	0 1 26447	0 1 26377	10 1 26356	25 1 26346	29 1 26344		
5	706	29 1 26333	32 1 26323	33 1 26311	40 1 26302	50 1 26303		
5	708	64 1 26298	67 1 26298	67 1 26334	71 1 26341	74 1 26349		
5	709	88 1 26352	92 1 26380	92 1 26447	0 -9 26447			
6	715	2 4 050 045						
3	800	PD-FG 4 8 3 30	2 3	2 1 1	2			
5	805	0 1 26515	23 1 26493	62 1 26471	120 2 26468	172 3 26468		
5	806	219 3 26468	239 3 26480	262 3 26503				
3	900	APP-G 5 18 3 2631	7045 1 3					
5	905	0 1 26538	10 2 26437	15 2 26383	20 2 26369	28 2 26359		
5	906	33 2 26327	35 2 26312	41 2 26309	47 2 26309	55 2 26303		
5	907	63 2 26310	66 2 26334	78 2 26365	87 2 26374	102 3 26425		
5	908	107 3 26442	118 3 26475	142 3 26505				
6	915	2 4 050 045	2 4 050 045	2 4 050 045				
3	1000	H 1 27 3 2634	7690 99 99					
4	1001	3170 5350 6390 9100						
5	1005	0 1 26545	11 1 26497	20 1 26460	27 1 26438	27 1 26427		
5	1006	96 2 26400	105 2 26393	110 2 26372	116 2 26356	118 2 26336		
5	1007	123 2 26332	129 2 26332	139 2 26329	143 2 26333	144 2 26359		
5	1008	153 3 26378	162 3 26399	207 3 26414	215 3 26450	219 3 26480		
5	1009	220 3 26499	241 3 26499	300 3 26498	350 3 26511	400 3 26522		
5	1010	433 3 26517	440 3 26552					
6	1015	1 2 055 045	1 2 050 045	1 2 045 050				
3	1100	I 0 19 2 2639	8710 99 99					
5	1105	0 1 26579	12 1 26507	23 1 26473	25 1 26466	46 1 26440		
5	1106	100 1 26452	150 1 26451	200 1 26440	250 2 26427	262 2 26401		
5	1107	264 2 26376	270 2 26372	278 2 26373	290 2 26371	295 2 26373		
5	1108	296 2 26388	305 2 26429	316 2 26487	324 2 26518			
6	1115	1 3 060 045	1 2 055 045					
3	1200	J 0 29 3 2643	10335 99 99					
5	1205	0 1 26644	23 1 26599	31 1 26595	42 1 26528	57 1 26485		
5	1206	100 1 26474	108 1 26448	120 1 26464	130 2 26452	141 2 26442		
5	1207	148 2 26432	156 2 26420	165 2 26420	170 2 26441	171 2 26462		
5	1208	175 3 26499	200 3 26499	300 3 26510	400 3 26494	500 3 26492		
5	1209	555 3 26492	572 3 26538	582 3 26561	606 3 26566	616 3 26550		
5	1210	669 3 26568	709 3 26582	726 3 26609	736 3 26644			
6	1215	2 4 065 050	1 2 055 050	1 2 045 035				
3	1300	K 0 30 3 2649	11705 99 99					
5	1305	0 1 26692	14 1 26539	22 1 26519	27 1 26495	35 1 26518		

Errors



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8			
5	1306	50	1 26528	100	1 26531	150	1 26539	200	1 26543	250	2 26541
5	1307	290	2 26513	294	2 26495	295	2 26490	299	2 26482	307	2 26479
5	1308	315	2 26483	320	2 26491	321	2 26514	326	3 26532	350	3 26540
5	1309	400	3 26535	450	3 26535	500	3 26534	534	3 26539	553	3 26610
5	1310	573	3 26596	576	3 26584	579	3 25603	580	3 26620	583	3 26692
6	1315	1 2 045	040	1 2 050	045	1 2 045	035				
3	1400	L-TW	0 30	3 2651	12858	99	99				
5	1405	0	1 26728	18	1 26718	48	1 26693	100	1 26656	150	1 26626
5	1406	200	1 26604	250	1 26597	300	1 26595	350	1 26597	400	1 26588
5	1407	450	1 26596	500	1 26600	550	1 26584	600	1 26577	630	2 26578
5	1408	636	2 26533	639	2 26522	644	2 26506	649	2 26503	661	2 26502
5	1409	667	2 26521	669	2 26539	677	3 26579	705	3 26583	722	3 26632
5	1410	746	3 26633	750	3 26625	757	3 26654	800	3 26685	802	3 26741
6	1415	1 2 050	045	2 4 055	045	1 2 065	065				
3	1500	RD-LM	2 11	1 2650	12858	0	26569	1 0			
5	1505	0	1 26567	0	1 26530	3	1 26530	6	1 26507	12	1 26495
5	1506	16	1 26495	18	1 26488	26	1 26505	33	1 26519	34	1 26570
5	1507	0	-9 26567								
6	1515	1 2 055	055								
3	1550	RD-LM	4 19	2 16	1 2	2 2	2 2	2			
5	1555	0	1 26724	38	1 26703	88	1 26675	140	1 26639	150	1 26633
5	1556	200	1 26609	250	1 26599	300	1 26595	350	1 26596	400	1 26600
5	1557	450	1 26606	500	1 26608	550	1 26598	600	1 26587	647	1 26589
5	1558	665	2 26591	683	2 26590	735	2 26630	757	2 26634		
3	1600	M-APP	5 29	5 2652	12908	2 4					
5	1605	0	1 26721	50	1 26684	100	1 26635	150	1 26603	200	1 26586
5	1606	250	1 26580	300	1 26596	350	1 26592	400	1 26594	450	1 26602
5	1607	500	1 26596	550	1 26577	600	1 26572	614	2 26568	618	3 26536
5	1608	620	3 26520	626	3 26508	634	3 26503	645	3 26504	648	3 26514
5	1609	652	4 26542	656	5 26569	670	5 26582	680	5 26620	701	5 26634
5	1610	725	5 26634	729	5 26624	733	5 26666	740	5 26758		
6	1615	1 2 045	035	2 4 055	045	2 4 055	045	2 4 055	045	1 2 070	050
3	1700	N	0 34	3 2652	13320	99	99				
5	1705	0	1 26737	13	1 26673	27	1 26614	42	1 26591	56	1 26601
5	1706	100	1 26596	150	1 26602	200	1 26605	250	1 26613	300	1 26612
5	1707	352	1 26603	400	1 26604	450	1 26610	500	1 26598	523	1 26573
5	1708	550	1 26577	585	2 26589	597	2 26564	601	2 26529	605	2 26518
5	1709	611	2 26512	619	2 26521	624	2 26531	625	2 26543	631	3 26598
5	1710	650	3 26589	694	3 26584	703	3 26625	713	3 26639	733	3 26652
5	1711	740	3 26645	747	3 26698	757	3 26716	762	3 26736		
6	1715	2 4 045	040	1 2 055	055	1 2 070	055				



PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	



PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 5,DATE= 1/24/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N

18 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 18 TYPE 3 CARDS

KEPT 18 CROSS SECTIONS FOR EDITING

18 " " VALID FOR PROPERTY COMPUTATIONS

18 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER  
 SECID=A AT DISTANCE= 1040 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2614.0	12	291	1.00	22	22	473	495	49
2614.5	24	831	1.00	27	27	471	498	130
2615.0	38	1678	1.00	29	30	470	499	247
2615.5	53	2795	1.00	31	32	469	500	396
2616.0	69	4112	1.00	32	34	469	502	571
2616.5	86	5539	1.00	34	36	469	503	770
2617.0	103	7115	1.00	36	38	468	504	993
2617.5	123	8400	1.00	43	46	468	512	1170
2618.0	146	10089	1.00	51	54	468	519	1403
2618.5	174	12272	1.00	58	61	467	526	1706
2619.0	204	15107	1.00	61	64	467	528	2107
2619.5	235	18190	1.00	65	68	467	531	2548
2620.0	278	21606	1.06	117	121	466	884	2359
2620.5	343	26258	1.17	146	151	466	886	2753
2621.0	452	31262	1.42	282	286	462	887	2727
2621.5	617	39527	1.57	385	390	204	888	3531
2622.0	830	51293	1.60	468	473	189	889	4954
2622.5	1133	68697	1.67	693	698	165	891	6350
2623.0	1495	96662	1.54	734	739	158	892	9755
2623.5	1863	129860	1.41	742	747	151	893	14089
2624.0	2236	169124	1.30	750	755	144	894	19181
2624.5	2614	212926	1.23	759	764	138	896	24772
2625.0	2995	260939	1.19	767	772	131	898	30796
2625.5	3381	313150	1.16	776	782	124	933	37228
2626.0	3771	369260	1.13	787	793	117	933	44029
2626.5	4168	429498	1.11	797	804	110	934	51218
2627.0	4570	491621	1.10	813	820	106	934	58598
2627.5	4981	556298	1.09	833	840	102	934	66180
2628.0	5399	631527	1.08	837	845	98	935	74893
2628.5	5819	710777	1.07	842	849	94	935	83949
2629.0	6240	793966	1.06	846	854	90	936	93336
2629.5	6665	881020	1.05	850	859	85	936	103047
2630.0	7091	971872	1.05	855	863	81	936	113074
2630.5	7519	1066461	1.05	859	868	77	937	123409
2631.0	7950	1164734	1.04	864	873	73	937	134047
2631.5	8383	1266639	1.04	868	878	69	937	144982
2632.0	8818	1372132	1.04	873	882	65	938	156210
2632.5	9255	1483115	1.03	875	886	63	938	168007
2633.0	9693	1597628	1.03	877	887	62	938	180087
2633.5	10132	1715620	1.03	879	889	60	939	192443
2634.0	10571	1837044	1.03	881	892	58	939	205070
2634.5	11012	1961855	1.02	883	894	57	939	217964
2635.0	11454	2090015	1.02	885	897	55	940	231121
2635.5	11897	2221481	1.02	887	899	53	940	244536
2636.0	12341	2356215	1.02	889	901	51	940	258206



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=A AT DISTANCE= 1040 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2636.5	12786	2494186	1.02	891	904	50	941	272127
2637.0	13232	2635360	1.02	893	906	46	941	286297
2637.5	13679	2779703	1.02	895	908	46	941	300710
2638.0	14127	2926548	1.02	897	911	44	942	315288
2638.5	14576	3073917	1.02	901	915	41	942	329791
2639.0	15028	3224364	1.02	905	919	37	942	344532
2639.5	15481	3377872	1.02	909	924	34	943	359507
2640.0	15937	3534429	1.02	913	928	30	943	374717
2640.5	16394	3694014	1.02	917	932	27	943	390158
2641.0	16853	3856618	1.02	920	936	23	944	405830
2641.5	17314	4022226	1.02	924	940	20	944	421730
2642.0	17778	4190824	1.02	928	944	16	944	437857
2642.5	18243	4362410	1.02	932	949	13	945	454211
2643.0	18710	4536961	1.02	936	953	9	945	470788
2643.5	19178	4714470	1.02	940	957	6	945	487589
2644.0	19649	4894929	1.02	944	961	2	946	504612
2644.5	20122	5081884	1.02	946	964	0	946	522322

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=B AT DISTANCE= 2650 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2619.0	11	195	1.00	22	22	634	656	42
2619.5	25	600	1.00	33	33	631	664	120
2620.0	41	1389	1.00	34	34	631	664	259
2620.5	58	2410	1.00	34	35	631	665	431
2621.0	75	3632	1.00	35	37	630	665	630
2621.5	94	5078	1.03	47	49	630	677	751
2622.0	123	6865	1.15	66	69	630	696	881
2622.5	160	9147	1.27	80	83	630	710	1141
2623.0	202	11984	1.30	85	89	629	715	1544
2623.5	246	15367	1.29	90	94	629	719	2027
2624.0	308	19635	1.36	162	165	562	724	2071
2624.5	418	25977	1.49	239	243	488	727	2570
2625.0	541	34807	1.43	255	259	474	728	3742
2625.5	673	46163	1.32	270	274	459	729	5243
2626.0	820	56303	1.39	355	359	375	730	6005
2626.5	1052	68386	1.59	564	568	167	731	6470
2627.0	1345	94623	1.37	595	599	137	731	9804
2627.5	1646	129077	1.19	612	617	120	732	14013
2628.0	1956	166372	1.12	629	634	104	733	18465
2628.5	2272	209691	1.08	634	639	99	734	23503
2629.0	2591	257705	1.05	640	645	95	735	28849



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=B AT DISTANCE= 2650 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2629.5	2912	310216	1.04	645	651	90	735	34482
2630.0	3234	367064	1.03	651	656	86	736	40391
2630.5	3563	428116	1.02	656	662	81	737	46571
2631.0	3892	493260	1.02	661	667	76	738	53017
2631.5	4224	562400	1.02	667	673	72	739	59726
2632.0	4559	635801	1.02	671	678	69	740	66704
2632.5	4896	713023	1.02	676	683	65	742	73913
2633.0	5235	793513	1.02	682	688	62	768	81286
2633.5	5578	875735	1.03	690	697	59	768	88578
2634.0	5927	958005	1.04	705	713	56	769	95350
2634.5	6283	1047793	1.05	716	723	53	769	102939
2635.0	6641	1145441	1.05	719	727	50	769	111618
2635.5	7002	1246699	1.05	722	731	47	769	120539
2636.0	7364	1351521	1.05	726	734	44	770	129697
2636.5	7727	1459872	1.05	729	738	41	770	139090
2637.0	8096	1555912	1.05	744	753	26	770	147790
2637.5	8471	1656235	1.05	759	768	12	771	156811
2638.0	8851	1779806	1.05	760	770	11	771	167277
2638.5	9231	1906958	1.05	761	771	10	771	177966
2639.0	9612	2037640	1.05	762	773	9	771	188874
2639.5	9993	2171809	1.05	763	775	8	772	199997
2640.0	10375	2309421	1.05	764	776	7	772	211333
2640.5	10758	2450432	1.05	766	778	7	772	222877
2641.0	11141	2594802	1.05	767	780	6	772	234626
2641.5	11524	2742496	1.05	768	781	5	773	246577
2642.0	11909	2893722	1.06	769	783	4	773	258747
2642.5	12293	3049147	1.06	770	784	4	773	271187
2643.0	12678	3207781	1.06	770	785	3	774	283820
2643.5	13064	3369587	1.06	771	786	3	774	296642
2644.0	13449	3534525	1.06	771	787	3	774	309651
2644.5	13835	3702564	1.06	772	788	3	774	322845
2645.0	14221	3873679	1.06	772	789	2	775	336221
2645.5	14607	4047831	1.06	773	791	2	775	349776
2646.0	14994	4224992	1.06	773	792	2	775	363509
2646.5	15381	4405138	1.06	774	793	1	776	377417
2647.0	15768	4588234	1.06	775	794	1	776	391498
2647.5	16155	4774257	1.06	775	795	1	776	405750
2648.0	16542	4963176	1.06	776	796	1	776	420172
2648.5	16931	5154971	1.06	776	797	0	777	434761
2649.0	17319	5349617	1.06	777	799	0	777	449515
2649.2	17475	5428248	1.07	777	799	0	777	455462



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=C AT DISTANCE= 3720 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2622.0	8	149	1.00	16	16	174	190	32
2622.5	16	451	1.00	17	18	174	190	90
2623.0	25	872	1.00	18	19	173	191	165
2623.5	34	1399	1.00	19	21	171	191	257
2624.0	44	2034	1.00	21	23	170	191	366
2624.5	55	2731	1.00	23	25	169	192	483
2625.0	67	3505	1.00	26	29	168	194	610
2625.5	81	4444	1.00	29	32	167	196	762
2626.0	96	5562	1.00	33	36	166	198	940
2626.5	118	6988	1.06	67	71	133	201	860
2627.0	155	9074	1.17	79	83	123	203	1137
2627.5	211	12133	1.31	157	160	114	317	1216
2628.0	312	17385	1.46	229	233	104	333	1712
2628.5	459	24929	1.57	355	359	95	450	2356
2629.0	649	37142	1.44	407	410	85	492	3878
2629.5	859	55530	1.23	425	428	82	507	6254
2630.0	1074	79507	1.10	433	437	81	514	9153
2630.5	1291	106677	1.05	436	440	80	516	12319
2631.0	1509	136874	1.02	438	442	79	517	15703
2631.5	1731	168888	1.02	448	452	43	519	19156
2632.0	1958	199810	1.03	478	483	42	520	22094
2632.5	2197	240608	1.03	481	486	41	522	26281
2633.0	2439	284587	1.02	484	489	39	523	30689
2633.5	2681	331648	1.02	486	492	38	524	35314
2634.0	2925	381875	1.02	489	494	37	525	40160
2634.5	3170	435138	1.02	491	497	35	526	45215
2635.0	3416	491258	1.02	493	499	34	527	50467
2635.5	3663	550173	1.02	495	502	33	528	55910
2636.0	3911	611826	1.02	497	504	31	529	61539
2636.5	4160	676164	1.02	499	506	30	530	67350
2637.0	4411	743142	1.02	502	509	29	530	73339
2637.5	4662	812715	1.02	504	511	28	531	79502
2638.0	4914	884846	1.02	506	513	26	532	85836
2638.5	5168	959498	1.03	508	516	25	533	92338
2639.0	5422	1036636	1.03	510	518	24	534	99004
2639.5	5678	1116231	1.03	512	520	22	535	105833
2640.0	5934	1198337	1.03	514	523	21	535	112826
2640.5	6192	1282952	1.03	516	525	20	536	119983
2641.0	6451	1369941	1.03	518	527	18	537	127295
2641.5	6710	1459280	1.03	520	529	17	537	134758
2642.0	6971	1551066	1.03	522	532	16	538	142389
2642.5	7232	1645593	1.03	524	534	15	539	150229
2643.0	7495	1742397	1.03	525	535	14	539	158217
2643.5	7758	1841459	1.03	527	537	13	540	166349
2644.0	8022	1942754	1.03	528	539	12	541	174625



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500 BACKWATER A-N  
 SECID=C AT DISTANCE= 3720 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2644.5	8286	2046266	1.03	530	541	11	541	183042
2645.0	8552	2151972	1.03	532	543	10	542	191599
2645.5	8818	2259859	1.03	533	545	10	543	200295
2646.0	9085	2369901	1.03	535	547	9	543	209127
2646.5	9352	2482092	1.03	536	548	8	544	218095
2647.0	9621	2596408	1.03	538	550	7	545	227198
2647.5	9890	2712838	1.03	539	552	6	545	236433
2648.0	10160	2831368	1.03	541	554	5	546	245800
2648.5	10431	2951981	1.03	542	556	4	547	255298
2649.0	10703	3074666	1.03	544	558	3	547	264925
2649.5	10975	3199411	1.03	546	560	2	548	274681
2650.0	11248	3326197	1.03	547	561	2	549	284565
2650.5	11522	3455026	1.03	549	563	1	549	294575
2650.9	11742	3559521	1.03	550	565	0	550	302673

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500 BACKWATER A-N  
 SECID=D AT DISTANCE= 5095 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2626.0	5	88	1.00	11	11	395	406	19
2626.5	13	299	1.00	18	19	389	407	61
2627.0	22	695	1.00	20	21	387	407	135
2627.5	33	1248	1.00	20	22	387	407	233
2628.0	43	1914	1.00	21	23	387	408	348
2628.5	53	2682	1.00	21	25	386	408	479
2629.0	64	3542	1.00	22	26	386	408	624
2629.5	76	4393	1.00	24	28	385	408	767
2630.0	93	5302	1.07	46	51	382	461	724
2630.5	122	6800	1.20	75	80	372	472	812
2631.0	170	9227	1.35	113	118	354	483	1014
2631.5	238	12685	1.47	165	171	321	493	1343
2632.0	335	18061	1.45	218	224	286	504	1951
2632.5	472	25510	1.56	375	380	140	515	2407
2633.0	668	38970	1.43	410	416	115	525	4048
2633.5	881	56454	1.28	437	443	99	535	6275
2634.0	1103	78999	1.15	451	457	95	546	9134
2634.5	1332	104757	1.09	463	469	91	555	12272
2635.0	1566	133762	1.06	474	480	88	562	15688
2635.5	1806	166087	1.04	485	491	84	570	19381
2636.0	2051	201667	1.03	496	502	81	577	23339
2636.5	2304	237322	1.03	520	526	65	585	27155
2637.0	2566	280305	1.02	529	535	63	592	31780
2637.5	2833	326568	1.01	538	544	62	600	36657



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER  
 SECID=D AT DISTANCE= 5095 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2638.0	3105	375294	1.01	549	555	60	610	41726
2638.5	3382	427305	1.00	560	567	59	619	47040
2639.0	3665	482595	1.00	571	578	58	629	52597
2639.5	3953	541167	1.00	582	589	56	638	58397
2640.0	4247	603023	1.00	593	600	55	648	64440
2640.5	4546	668891	1.00	603	610	53	656	70794
2641.0	4850	738169	1.00	612	619	52	665	77404
2641.5	5159	810692	1.00	622	629	51	673	84253
2642.0	5472	886462	1.00	631	639	49	681	91342
2642.5	5790	965484	1.00	641	648	48	689	98668
2643.0	6113	1046271	1.00	651	658	11	693	106266
2643.5	6440	1132329	1.00	658	666	10	695	114295
2644.0	6771	1221540	1.00	665	673	10	697	122541
2644.5	7105	1313890	1.00	672	681	9	698	131003
2645.0	7443	1409370	1.00	679	689	9	700	139679
2645.5	7785	1507158	1.00	687	697	8	702	148507
2646.0	8130	1606875	1.00	696	706	8	703	157453
2646.5	8479	1719718	1.00	698	708	7	705	167399
2647.0	8828	1835701	1.00	700	711	7	707	177557
2647.5	9178	1954790	1.00	702	713	7	709	187924
2648.0	9530	2076956	1.00	704	716	6	710	198497
2648.5	9883	2202164	1.00	706	718	6	712	209273
2649.0	10236	2330388	1.00	709	720	5	714	220251
2649.5	10591	2461598	1.00	711	723	5	716	231427
2650.0	10947	2595769	1.00	713	725	4	717	242800
2650.5	11305	2724911	1.00	719	731	4	723	253857
2651.0	11666	2851897	1.00	726	739	4	730	264766
2651.5	12031	2974064	1.00	738	751	3	741	275297
2652.0	12406	3070303	1.00	762	776	3	765	283651
2652.5	12794	3174370	1.00	787	801	2	789	292126
2653.0	13193	3285745	1.01	812	826	2	813	300793
2653.5	13605	3404029	1.01	836	850	1	838	309708
2654.0	14030	3528928	1.01	861	875	1	862	318913
2654.5	14466	3660223	1.02	885	900	0	886	328439
2655.0	14915	3797791	1.02	910	925	0	910	338315

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER  
 SECID=E AT DISTANCE= 6020 PART 1 OF 3

WS	A	K	ALPHA	B	P	LEW	REW	QC
2628.0	2	19	1.00	8	8	71	79	5
2628.5	8	110	1.00	19	19	67	85	29
2629.0	22	412	1.00	33	34	62	95	102



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER  
 SECID=E AT DISTANCE= 6020 PART 2 OF 3

WS	A	K	ALPHA	B	P	LEW	REW	QC
2629.5	39	1058	1.00	34	35	62	96	235
2630.0	56	2057	1.00	35	36	61	96	401
2630.5	74	3419	1.00	36	38	61	97	596
2631.0	92	4821	1.00	37	39	60	97	819
2631.5	111	6418	1.00	38	41	59	98	1067
2632.0	130	8204	1.00	40	42	59	98	1341
2632.5	150	10174	1.00	41	44	58	99	1638
2633.0	171	12326	1.00	42	46	57	100	1960
2633.5	193	14688	1.00	46	50	57	103	2241
2634.0	229	17542	1.11	105	110	56	336	1820
2634.5	292	21432	1.28	146	150	56	337	2068
2635.0	382	26250	1.53	238	243	55	339	2219
2635.5	518	33397	1.59	288	293	52	340	3119
2636.0	663	46103	1.34	291	296	50	342	4898
2636.5	809	64258	1.13	293	298	50	343	7186
2637.0	956	82927	1.06	295	301	49	344	9474
2637.5	1104	103580	1.03	297	303	48	346	11899
2638.0	1254	126409	1.01	300	306	48	347	14459
2638.5	1404	151317	1.00	302	308	47	349	17145
2639.0	1555	178228	1.00	304	310	46	350	19955
2639.5	1708	207077	1.00	306	313	45	351	22885
2640.0	1862	237810	1.00	308	315	45	353	25934
2640.5	2016	270378	1.00	310	318	44	354	29101
2641.0	2172	304741	1.01	312	320	43	356	32384
2641.5	2329	340861	1.01	315	322	43	357	35780
2642.0	2486	378707	1.01	317	325	42	359	39290
2642.5	2645	418251	1.01	319	327	41	360	42910
2643.0	2805	459464	1.02	321	329	40	361	46640
2643.5	2966	502325	1.02	323	332	40	363	50478
2644.0	3128	546812	1.02	325	334	39	364	54422
2644.5	3291	592904	1.02	327	337	38	366	58471
2645.0	3456	640586	1.03	329	339	38	367	62624
2645.5	3621	689840	1.03	332	341	37	368	66880
2646.0	3787	740650	1.03	334	344	36	370	71237
2646.5	3955	793005	1.03	336	346	35	371	75695
2647.0	4123	845722	1.04	339	349	34	373	80080
2647.5	4294	892179	1.05	348	359	8	374	93340
2648.0	4473	930607	1.08	366	377	7	378	85367
2648.5	4660	971934	1.08	381	392	7	417	88792
2649.0	4854	1009614	1.08	397	408	6	418	92896
2649.5	5057	1049175	1.07	413	425	5	419	97159
2650.0	5264	1119042	1.07	415	427	5	419	102984
2650.5	5472	1190722	1.07	416	428	4	420	108926
2651.0	5680	1264199	1.07	417	430	4	421	114983
2651.5	5889	1339452	1.07	418	432	3	422	121155



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=E AT DISTANCE= 6020 PART 3 OF 3

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	6098	1416464	1.07	420	433	3	422	127439
2652.5	6309	1495218	1.07	421	435	2	423	133834
2653.0	6519	1575698	1.07	422	437	2	424	140338
2653.5	6731	1657889	1.07	424	438	1	425	146951
2654.0	6943	1741773	1.07	425	440	0	425	153671
2654.4	7113	1810082	1.07	426	441	0	426	159122

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=F-TW AT DISTANCE= 6805 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	17	354	1.00	29	30	85	131	75
2631.5	35	907	1.00	41	42	84	131	180
2632.0	57	1919	1.00	48	50	83	132	355
2632.5	82	3558	1.00	50	52	82	132	597
2633.0	107	5661	1.00	51	53	81	132	880
2633.5	134	7954	1.00	53	55	80	133	1202
2634.0	161	10237	1.00	58	61	79	137	1522
2634.5	191	13047	1.00	62	65	78	140	1906
2635.0	223	16378	1.00	65	68	77	141	2350
2635.5	256	20055	1.00	67	70	76	143	2833
2636.0	290	24042	1.00	70	73	74	145	3350
2636.5	326	28397	1.00	73	76	73	146	3909
2637.0	363	33126	1.00	76	80	72	148	4508
2637.5	402	38234	1.00	79	83	70	149	5150
2638.0	442	43788	1.00	82	86	69	150	5840
2638.5	484	49806	1.00	84	88	67	152	6581
2639.0	526	56213	1.00	87	91	66	153	7363
2639.5	570	63027	1.00	89	93	65	154	8189
2640.0	615	70276	1.00	91	96	63	155	9060
2640.5	661	77925	1.00	94	99	62	156	9973
2641.0	709	85979	1.00	96	101	61	157	10928
2641.5	757	94441	1.00	98	104	60	158	11926
2642.0	807	103421	1.00	100	106	59	159	12978
2642.5	858	112962	1.00	102	108	58	160	14088
2643.0	909	122909	1.00	104	110	57	161	15240
2643.5	962	133265	1.00	106	112	56	162	16433
2644.0	1015	143954	1.00	108	115	56	164	17659
2644.5	1070	154941	1.00	110	117	55	165	18915
2645.0	1126	166354	1.00	112	119	54	166	20213
2645.5	1182	178195	1.00	114	122	53	168	21555
2646.0	1242	191229	1.00	126	133	43	169	22088
2646.5	1308	205017	1.01	140	147	30	170	22556



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=F-TW AT DISTANCE= 6805 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2647.0	1381	219505	1.03	148	155	24	172	23617
2647.5	1456	234682	1.04	154	162	18	173	24870
2648.0	1535	250554	1.05	161	169	13	174	26198
2648.5	1617	267218	1.06	166	174	10	176	27761
2649.0	1701	284717	1.07	168	176	9	177	29636
2649.5	1789	282415	1.07	187	195	8	195	30365
2650.0	1884	299789	1.07	191	200	7	198	32409
2650.5	1980	322012	1.08	192	201	6	198	34794
2651.0	2076	344931	1.08	193	203	5	198	37248
2651.5	2173	368530	1.08	193	204	5	198	39768
2652.0	2270	392794	1.08	194	206	4	198	42353
2652.5	2367	417710	1.08	195	207	3	198	45001
2653.0	2465	443268	1.08	196	209	2	198	47710
2653.5	2563	469454	1.08	197	210	1	198	50480
2654.0	2661	496260	1.08	198	212	0	198	53309
2654.2	2701	507155	1.08	198	212	0	198	54457

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=BR-FG AT DISTANCE= 6805 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	27	681	1.00	33	34	34	67	138
2631.5	44	1489	1.00	34	36	33	67	282
2632.0	61	2533	1.00	35	37	32	67	461
2632.5	79	3793	1.00	36	39	31	67	664
2633.0	97	5285	1.00	37	41	30	67	889
2633.5	116	7017	1.00	39	43	29	68	1139
2634.0	136	8827	1.00	41	47	29	70	1395
2634.5	157	10686	1.00	46	51	27	73	1657
2635.0	183	11418	1.00	60	65	19	79	1814
2635.5	218	12964	1.00	77	83	11	88	2085
2636.0	258	16861	1.00	81	97	8	89	2611
2636.5	299	21492	1.00	84	90	6	90	3201
2637.0	342	26755	1.00	87	94	3	91	3849
2637.5	387	32178	1.00	90	97	1	91	4535
2638.0	432	38210	1.00	92	99	0	92	5314
2638.5	478	44923	1.00	92	100	0	92	6185
2639.0	524	52007	1.00	92	101	0	92	7098
2639.5	570	59441	1.00	92	102	0	92	8053
2640.0	616	67207	1.00	92	103	0	92	9047
2640.5	662	75288	1.00	92	104	0	92	10078
2641.0	708	83669	1.00	92	105	0	92	11146
2641.5	754	92336	1.00	92	106	0	92	12249



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=BR-FG AT DISTANCE= 6805 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2642.0	800	101276	1.00	92	107	0	92	13387
2642.5	846	110476	1.00	92	108	0	92	14558
2643.0	892	119927	1.00	92	109	0	92	15761
2643.5	938	129616	1.00	92	110	0	92	16995
2644.0	984	139536	1.00	92	111	0	92	18260
2644.5	1030	149676	1.00	92	112	0	92	19555
2644.7	1049	103253	1.00	0	204	0	92	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=APP-G AT DISTANCE= 7045 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	7	86	1.00	24	24	59	63	20
2631.5	21	483	1.00	29	29	35	64	98
2632.0	35	1152	1.00	30	31	34	64	217
2632.5	51	2038	1.00	32	33	33	65	366
2633.0	67	3124	1.00	33	34	33	66	542
2633.5	84	4462	1.00	35	36	32	67	748
2634.0	102	5952	1.00	37	39	31	68	954
2634.5	121	7700	1.00	40	42	30	70	1196
2635.0	142	9727	1.00	43	45	29	72	1466
2635.5	164	12354	1.00	46	48	29	74	1766
2636.0	187	14548	1.00	49	52	27	76	2083
2636.5	213	16824	1.00	55	58	23	78	2388
2637.0	243	18979	1.00	63	66	20	83	2708
2637.5	276	22333	1.00	69	72	18	87	3127
2638.0	312	26524	1.00	73	76	16	89	3665
2638.5	349	31188	1.00	75	79	15	90	4258
2639.0	387	36396	1.00	77	81	14	92	4914
2639.5	426	41967	1.00	79	83	14	93	5608
2640.0	467	47900	1.00	81	85	13	95	6341
2640.5	508	54196	1.00	83	88	13	96	7113
2641.0	550	60856	1.00	85	90	12	98	7924
2641.5	593	67880	1.00	87	92	12	99	8773
2642.0	637	75272	1.00	89	94	12	101	9661
2642.5	682	83035	1.00	91	97	11	102	10588
2643.0	728	92061	1.00	93	99	11	103	11549
2643.5	774	101473	1.00	95	101	10	105	12539
2644.0	822	111576	1.01	97	103	10	106	13560
2644.5	871	122301	1.01	99	106	9	108	14608
2645.0	921	133465	1.02	101	108	9	110	15663
2645.5	972	145074	1.02	103	111	8	111	16758
2646.0	1024	157134	1.03	105	113	8	113	17883



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=APP-G AT DISTANCE= 7045 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2646.5	1077	169647	1.03	107	115	7	115	19041
2647.0	1132	182633	1.04	110	118	7	116	20233
2647.5	116	196097	1.05	112	120	6	118	21461
2648.0	1244	209858	1.05	116	125	6	122	22475
2648.5	1303	224182	1.06	121	130	5	126	23537
2649.0	1365	239077	1.07	125	135	5	130	24649
2649.5	1429	254561	1.09	130	139	4	134	25811
2650.0	1495	270656	1.10	134	144	4	138	27027
2650.5	1563	287385	1.11	139	149	3	142	28298
2651.0	1632	305380	1.11	139	150	3	142	30116
2651.5	1702	324021	1.11	140	151	2	142	31995
2652.0	1772	342939	1.11	140	152	2	142	33888
2652.5	1842	362369	1.11	141	154	1	142	35826
2653.0	1913	382309	1.12	141	155	1	142	37806
2653.5	1983	402748	1.12	142	156	0	142	39829
2653.5	2026	415242	1.12	142	157	0	142	41062

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=H AT DISTANCE= 7690 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2634.0	21	542	1.00	26	26	118	143	109
2634.5	34	1206	1.00	26	28	117	143	220
2635.0	47	2132	1.00	27	29	117	144	357
2635.5	61	3250	1.00	28	30	116	144	515
2636.0	75	4383	1.00	30	33	114	144	679
2636.5	91	5535	1.00	34	37	113	147	849
2637.0	110	6950	1.00	38	41	111	149	1050
2637.5	130	8671	1.00	42	45	109	152	1291
2638.0	152	10817	1.00	46	49	108	154	1569
2638.5	176	13422	1.01	49	53	107	156	1877
2639.0	201	16320	1.02	52	56	106	158	2213
2639.5	228	19044	1.03	58	62	102	160	2537
2640.0	260	21487	1.04	69	73	96	165	2798
2640.5	301	25948	1.10	97	101	83	180	2869
2641.0	356	31217	1.19	125	128	70	195	3133
2641.5	425	37483	1.29	160	153	58	207	3589
2642.0	504	44876	1.35	163	167	45	208	4311
2642.5	589	53316	1.40	177	181	32	209	5148
2643.0	680	63511	1.39	184	188	27	211	6305
2643.5	772	75200	1.34	185	190	27	212	7738
2644.0	865	87694	1.31	186	192	26	213	9226
2644.5	959	101009	1.29	189	195	23	214	10795



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500 BACKWATER A-N  
 SECID=H AT DISTANCE= 7690 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2645.0	1054	115284	1.26	192	198	23	215	12465
2645.5	1150	130581	1.24	194	200	22	216	14254
2646.0	1248	146796	1.22	196	203	20	216	16135
2646.5	1346	163996	1.21	198	205	19	217	18127
2647.0	1446	182079	1.19	200	207	18	218	20204
2647.5	1547	201031	1.18	202	209	16	218	22363
2648.0	1648	220837	1.17	204	211	15	219	24601
2648.5	1750	241609	1.16	205	213	14	219	26950
2649.0	1853	263202	1.15	207	215	13	220	29374
2649.5	1957	285604	1.14	208	217	11	220	31872
2650.0	2073	279921	1.37	297	306	10	308	26551
2650.5	2227	303755	1.39	318	327	9	327	28396
2651.0	2391	329351	1.40	338	347	8	346	30435
2651.5	2566	356252	1.42	361	371	7	368	32492
2652.0	2756	381377	1.48	406	415	6	434	33480
2652.5	2968	413574	1.50	430	440	5	435	36163
2653.0	3184	451824	1.47	432	442	3	436	40414
2653.5	3400	491999	1.44	434	444	2	437	44895
2654.0	3618	534053	1.42	436	447	1	438	49594
2654.5	3837	577946	1.39	439	449	0	439	54503
2655.0	4056	624473	1.37	440	451	0	440	59704
2655.2	4144	643562	1.36	440	451	0	440	61836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500 BACKWATER A-N  
 SECID=I AT DISTANCE= 8710 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2639.0	56	2360	1.00	34	35	263	296	410
2639.5	73	3821	1.00	35	37	262	298	600
2640.0	91	5327	1.00	37	39	262	299	815
2640.5	110	6922	1.00	40	42	260	300	1041
2641.0	131	8732	1.00	43	46	258	301	1292
2641.5	153	10803	1.00	46	49	256	302	1576
2642.0	177	13149	1.00	50	53	253	303	1894
2642.5	203	15784	1.00	53	56	251	304	2246
2643.0	232	19013	1.01	67	70	238	305	2434
2643.5	270	22873	1.07	87	90	219	306	2607
2644.0	319	27297	1.16	107	111	200	307	2895
2644.5	385	32320	1.31	157	161	42	308	2980
2645.0	476	38496	1.50	208	211	38	309	3336
2645.5	604	46286	1.73	276	280	34	310	3851
2646.0	744	57389	1.71	281	285	30	311	5243
2646.5	885	71026	1.59	286	290	26	312	6997



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=I AT DISTANCE= 8710 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2647.0	1029	87790	1.44	289	293	24	313	9191
2647.5	1174	108133	1.29	291	296	22	314	11790
2648.0	1321	127889	1.23	294	299	21	315	14343
2648.5	1468	149051	1.18	297	302	19	316	17054
2649.0	1617	171645	1.14	299	305	17	317	19930
2649.5	1768	195675	1.12	302	308	16	318	22956
2650.0	1919	221200	1.09	305	311	14	319	26122
2650.5	2073	248191	1.07	308	314	13	321	29418
2651.0	2227	276813	1.06	310	316	11	322	32871
2651.5	2383	306981	1.05	313	318	11	323	36464
2652.0	2540	338910	1.04	314	321	10	324	40184
2652.5	2697	372705	1.03	315	322	9	324	44038
2653.0	2855	407784	1.03	316	324	8	324	48004
2653.5	3013	444123	1.02	317	325	7	324	52081
2654.0	3171	481697	1.02	318	327	6	324	56266
2654.5	3330	520483	1.02	318	328	6	324	60557
2655.0	3490	560459	1.02	319	330	5	324	64951
2655.5	3650	601605	1.01	320	331	4	324	69447
2656.0	3810	643903	1.01	321	333	3	324	74042
2656.5	3970	687336	1.01	322	334	2	324	78735
2657.0	4131	731887	1.01	323	335	1	324	83524
2657.5	4293	777539	1.01	323	337	1	324	88407
2657.9	4422	814840	1.01	324	338	0	324	92381

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=J AT DISTANCE= 10335 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2643.0	14	299	1.00	18	18	149	167	66
2643.5	24	656	1.00	23	23	146	169	137
2644.0	36	1202	1.00	27	28	142	170	236
2644.5	51	1941	1.00	32	33	138	170	363
2645.0	69	2913	1.01	40	42	107	170	510
2645.5	92	4244	1.04	51	52	106	171	689
2646.0	120	5870	1.07	60	62	104	171	922
2646.5	152	7942	1.10	69	71	103	171	1225
2647.0	187	10726	1.11	71	73	101	172	1637
2647.5	223	13776	1.13	76	79	96	172	2029
2648.0	266	17061	1.22	96	100	77	173	2269
2648.5	319	21023	1.50	116	120	57	173	2628
2649.0	378	25989	1.31	119	122	55	174	3347
2649.5	475	32065	1.45	283	287	54	556	2895
2650.0	629	41097	1.59	353	357	52	558	3774



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=J AT DISTANCE= 10335 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2650.5	825	53665	1.64	433	438	50	560	5040
2651.0	1062	70563	1.60	513	518	48	562	6846
2651.5	1320	97523	1.34	517	522	47	564	10347
2652.0	1579	131745	1.16	521	525	45	565	14493
2652.5	1840	166046	1.10	524	529	43	567	18636
2653.0	2103	204336	1.07	527	533	42	569	23066
2653.5	2367	246470	1.05	530	535	41	571	27757
2654.0	2633	292128	1.03	533	538	40	573	32671
2654.5	2900	341150	1.03	536	542	39	575	37796
2655.0	3169	393485	1.02	539	545	38	577	43134
2655.5	3444	441680	1.02	560	566	38	631	47984
2656.0	3729	493248	1.02	581	587	37	645	53124
2656.5	4028	540207	1.02	619	626	36	660	57775
2657.0	4343	600483	1.02	640	646	35	675	63685
2657.5	4667	667176	1.01	655	662	34	689	70159
2658.0	4998	737493	1.01	670	677	33	703	76916
2658.5	5336	815884	1.01	678	686	33	711	84349
2659.0	5676	900869	1.01	682	690	32	714	92285
2659.5	6018	989483	1.01	686	694	31	717	100453
2660.0	6364	1074975	1.02	698	706	22	720	107960
2660.5	6715	1169717	1.02	704	711	20	723	116408
2661.0	7068	1268408	1.02	709	717	17	726	125107
2661.5	7423	1372154	1.03	713	721	15	728	134129
2662.0	7781	1479442	1.03	717	725	12	729	143362
2662.5	8140	1590236	1.03	721	729	10	731	152803
2663.0	8502	1704496	1.03	725	733	7	732	162451
2663.5	8865	1822194	1.04	729	737	5	733	172303
2664.0	9231	1943293	1.04	733	742	2	735	182358
2664.4	9524	2042588	1.04	736	745	0	736	190545

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=K AT DISTANCE= 11705 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2649.0	18	434	1.00	24	25	295	319	87
2649.5	31	1022	1.00	26	27	294	320	189
2650.0	45	1883	1.02	30	31	26	320	307
2650.5	61	3038	1.04	34	36	25	321	451
2651.0	79	4348	1.06	39	41	24	321	626
2651.5	100	5670	1.06	45	48	23	321	814
2652.0	125	6993	1.07	59	62	22	323	1004
2652.5	160	8874	1.08	77	80	20	324	1250
2653.0	206	11055	1.21	125	129	18	325	1360



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=K AT DISTANCE= 11705 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2653.5	288	15083	1.30	243	246	16	507	1558
2654.0	469	22295	1.54	431	435	14	534	2235
2654.5	714	34738	1.53	522	526	13	536	3829
2655.0	975	56199	1.25	524	528	13	537	6764
2655.5	1238	85331	1.09	526	531	13	538	10307
2656.0	1501	117091	1.05	528	533	12	540	14017
2656.5	1765	152101	1.03	529	535	12	541	18008
2657.0	2031	190909	1.02	531	537	11	542	22288
2657.5	2297	233337	1.01	533	539	11	544	26840
2658.0	2563	279238	1.01	535	541	10	545	31654
2658.5	2831	328319	1.01	537	544	10	576	36705
2659.0	3101	379930	1.01	541	548	9	577	41955
2659.5	3372	434645	1.01	545	552	9	578	47443
2660.0	3646	490064	1.00	553	561	8	579	52983
2660.5	3925	548071	1.00	563	571	8	579	58720
2661.0	4209	609283	1.00	572	581	8	579	64703
2661.5	4495	678911	1.00	573	583	7	580	71368
2662.0	4782	751548	1.00	573	584	7	580	78243
2662.5	5068	827154	1.00	574	585	6	580	85329
2663.0	5356	905634	1.00	575	586	6	580	92614
2663.5	5643	986931	1.00	575	587	5	581	100095
2664.0	5931	1070991	1.00	576	589	5	581	107767
2664.5	6219	1157765	1.00	577	590	4	581	115625
2665.0	6508	1247206	1.00	577	591	4	581	123667
2665.5	6797	1339269	1.00	578	592	3	581	131888
2666.0	7086	1433912	1.00	579	594	3	582	140285
2666.5	7375	1531095	1.01	579	595	2	582	148855
2667.0	7665	1630784	1.01	580	596	2	582	157596
2667.5	7956	1732941	1.01	581	597	2	582	166503
2668.0	8246	1837534	1.01	581	598	1	583	175575
2668.5	8537	1944528	1.01	582	600	1	583	184809
2669.0	8828	2053895	1.01	583	601	0	583	194202
2669.2	8945	2098296	1.01	583	601	0	583	198003

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=L-TW AT DISTANCE= 12858 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2651.0	13	257	1.00	21	21	643	664	59
2651.5	24	655	1.00	24	24	641	665	138
2652.0	37	1217	1.00	27	28	640	667	245
2652.5	51	1974	1.00	29	30	638	667	383
2653.0	66	2933	1.00	31	32	637	668	547



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=L-TW AT DISTANCE= 12858 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2653.5	82	4196	1.00	33	34	636	669	739
2654.0	99	5751	1.00	34	36	635	669	956
2654.5	116	7543	1.00	36	38	634	670	1192
2655.0	135	9645	1.00	37	40	634	671	1450
2655.5	154	12089	1.00	39	42	633	672	1732
2656.0	174	14477	1.00	41	44	632	673	2037
2656.5	195	16977	1.00	42	46	632	674	2365
2657.0	216	19680	1.00	44	48	631	675	2718
2657.5	239	22590	1.00	46	49	630	676	3094
2658.0	273	26011	1.07	105	109	579	684	2410
2658.5	342	30918	1.30	159	163	547	706	2502
2659.0	428	36937	1.51	200	204	389	707	2890
2659.5	547	44372	1.79	276	280	361	709	3271
2660.0	751	53957	2.30	482	487	229	711	3500
2660.5	1001	70345	2.29	515	519	198	713	5228
2661.0	1262	92305	2.03	528	532	186	714	7771
2661.5	1529	118485	1.78	541	546	175	716	10912
2662.0	1803	147036	1.63	554	559	164	718	14426
2662.5	2083	178908	1.52	567	572	152	720	18373
2663.0	2371	213936	1.43	582	586	143	751	22663
2663.5	2671	250493	1.40	617	622	135	752	26637
2664.0	2982	293094	1.34	627	632	127	754	31852
2664.5	3298	338876	1.30	636	642	118	755	37403
2665.0	3618	387780	1.26	646	651	110	756	43271
2665.5	3944	439560	1.23	657	662	102	758	49374
2666.0	4276	494057	1.21	671	676	94	765	55551
2666.5	4615	551777	1.20	685	690	87	772	62017
2667.0	4961	612602	1.19	699	704	80	779	68753
2667.5	5313	676525	1.18	713	718	73	786	75759
2668.0	5673	743541	1.17	727	732	66	793	83033
2668.5	6040	813652	1.17	741	746	59	800	90577
2669.0	6413	888440	1.16	748	754	52	800	99015
2669.5	6788	966574	1.15	755	761	46	800	107771
2670.0	7167	1048186	1.14	761	768	40	801	116853
2670.5	7549	1132755	1.13	767	774	34	801	126202
2671.0	7934	1220261	1.13	773	781	28	801	135814
2671.5	8323	1310681	1.12	779	787	22	801	145687
2672.0	8714	1402625	1.12	787	795	14	801	155682
2672.5	9110	1495387	1.11	796	805	5	801	165736
2673.0	9510	1595403	1.11	802	811	0	802	176499
2673.5	9910	1704849	1.10	802	812	0	802	188166
2674.0	10311	1817176	1.10	802	813	0	802	200059
2674.1	10391	1839950	1.10	802	813	0	802	202461



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500 BACKWATER A-N  
 SECID=R0-LM AT DISTANCE= 12858 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2650.0	8	138	1.00	14	14	9	24	32
2650.5	16	382	1.00	19	19	7	26	83
2651.0	27	784	1.00	23	23	6	29	163
2651.5	39	1346	1.00	26	27	5	31	269
2652.0	53	2083	1.00	29	30	4	33	404
2652.5	67	3039	1.00	29	31	4	33	575
2653.0	82	4129	1.00	30	32	3	33	767
2653.5	99	5195	1.00	33	36	0	33	964
2654.0	115	6618	1.00	33	37	0	33	1217
2654.5	132	8147	1.00	34	38	0	34	1488
2655.0	149	9773	1.00	34	39	0	34	1778
2655.5	166	11488	1.00	34	41	0	34	2085
2656.0	183	14283	1.00	34	42	0	34	2408
2656.5	200	17153	1.00	34	43	0	34	2746
2657.0	211	11207	1.00	0	77	0	34	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500 BACKWATER A-N  
 SECID=M-APP AT DISTANCE= 12906 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	37	1166	1.00	29	29	620	649	237
2652.5	52	1969	1.00	30	31	619	650	384
2653.0	67	2973	1.00	32	33	619	650	556
2653.5	83	4274	1.00	33	34	618	651	751
2654.0	100	5926	1.00	34	36	617	652	969
2654.5	117	8033	1.01	36	38	617	652	1206
2655.0	136	10647	1.02	37	39	616	653	1461
2655.5	154	13122	1.03	38	41	616	654	1732
2656.0	174	15738	1.04	40	43	615	655	2021
2656.5	194	18568	1.06	41	44	614	655	2327
2657.0	216	21630	1.08	50	54	607	657	2446
2657.5	249	25105	1.18	92	96	570	662	2142
2658.0	306	29570	1.36	126	129	542	668	2321
2658.5	388	34983	1.63	199	203	208	671	2399
2659.0	501	42636	1.85	249	253	188	672	2957
2659.5	653	51132	2.22	388	392	174	673	3227
2660.0	874	65418	2.31	487	491	159	675	4368
2660.5	1133	88332	1.98	529	533	147	676	6679
2661.0	1399	122545	1.53	538	543	139	677	10334
2661.5	1671	156658	1.38	547	552	131	679	14104
2662.0	1947	195141	1.27	557	561	123	680	18299
2662.5	2229	237054	1.21	572	577	116	729	22650
2663.0	2520	283178	1.17	590	595	108	730	27257



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=M-APP AT DISTANCE= 12906 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2663.5	2822	331953	1.16	630	635	100	730	31405
2664.0	3138	389044	1.13	636	641	95	731	37129
2664.5	3457	449974	1.12	641	647	90	731	43129
2665.0	3779	514911	1.10	647	653	85	731	49397
2665.5	4104	583760	1.09	652	659	80	732	55950
2666.0	4432	656441	1.08	658	664	74	732	62771
2666.5	4762	732886	1.07	664	670	69	733	69852
2667.0	5095	813047	1.07	669	676	64	733	77195
2667.5	5431	896859	1.06	675	682	59	734	84790
2668.0	5770	984272	1.06	680	688	54	734	92633
2668.5	6111	1074916	1.06	686	694	49	734	100695
2669.0	6456	1167718	1.05	693	701	42	735	108902
2669.5	6804	1264004	1.05	700	708	35	735	117355
2670.0	7156	1363751	1.05	707	716	28	736	126050
2670.5	7511	1466953	1.05	714	723	22	736	134987
2671.0	7870	1573592	1.05	721	731	15	736	144164
2671.5	8233	1683659	1.04	729	738	8	737	153580
2672.0	8599	1797148	1.04	736	746	1	737	163233
2672.5	8967	1922356	1.04	737	748	0	737	173709
2673.0	9336	2053041	1.04	738	749	0	738	184540
2673.5	9705	2187125	1.04	738	750	0	738	195577
2674.0	10075	2324560	1.04	739	751	0	739	206818
2674.5	10444	2465292	1.04	739	752	0	739	218258
2675.0	10814	2609280	1.04	739	753	0	739	229895
2675.5	11183	2756482	1.04	740	755	0	740	241725
2675.8	11405	2846261	1.04	740	755	0	740	248910

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 SECID=N AT DISTANCE= 13320 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	6	91	1.00	14	14	604	618	22
2652.5	14	316	1.00	19	19	602	621	70
2653.0	24	691	1.00	23	23	601	624	144
2653.5	36	1263	1.00	24	25	600	624	252
2654.0	48	1979	1.00	25	26	600	625	383
2654.5	61	2819	1.00	26	28	599	625	532
2655.0	75	3777	1.00	27	29	599	626	700
2655.5	88	4854	1.00	28	31	598	626	886
2656.0	103	6049	1.00	29	32	597	627	1090
2656.5	118	7314	1.00	31	34	597	627	1305
2657.0	134	8537	1.00	34	37	594	628	1512
2657.5	153	9942	1.02	52	56	521	628	1577



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER  
 SECID=N AT DISTANCE= 13320 A-N  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2658.0	188	11816	1.12	82	86	517	629	1525
2658.5	235	14393	1.19	113	117	512	694	1756
2659.0	308	18105	1.31	170	175	507	695	2051
2659.5	399	23483	1.37	195	200	39	696	2758
2660.0	517	28733	1.61	293	298	36	698	3071
2660.5	697	36952	1.80	463	468	33	699	3618
2661.0	961	51489	1.72	590	595	30	700	5306
2661.5	1281	71714	1.56	674	680	27	701	8019
2662.0	1618	99727	1.34	676	682	26	702	12249
2662.5	1957	134112	1.20	679	685	24	703	17207
2663.0	2297	174620	1.12	683	690	23	707	22611
2663.5	2640	221496	1.07	688	695	22	710	28353
2664.0	2986	274904	1.05	694	700	21	715	34331
2664.5	3335	329316	1.04	703	709	20	722	40371
2665.0	3690	385110	1.05	717	724	18	741	46399
2665.5	4051	446790	1.05	724	731	17	741	53132
2666.0	4413	513462	1.04	726	733	16	742	60440
2666.5	4777	583949	1.04	728	736	15	743	68038
2667.0	5141	658155	1.04	730	738	14	743	75919
2667.5	5506	736033	1.04	731	740	13	744	84078
2668.0	5872	817525	1.04	733	742	12	745	92508
2668.5	6239	902498	1.04	735	744	11	745	101200
2669.0	6607	990886	1.04	736	746	10	746	110145
2669.5	6976	1082627	1.04	738	748	9	747	119339
2670.0	7345	1177169	1.04	741	750	8	748	128662
2670.5	7716	1274224	1.04	744	754	6	751	138044
2671.0	8090	1374509	1.04	748	758	5	754	147654
2671.5	8465	1477988	1.05	752	762	4	756	157488
2672.0	8841	1585520	1.05	755	765	3	758	167751
2672.5	9219	1696379	1.05	757	767	2	759	178288
2673.0	9598	1810307	1.05	759	770	1	761	189045
2673.5	9978	1927270	1.05	761	772	0	762	200016
2673.7	10131	1975057	1.05	762	773	0	762	204511



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

B	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
N	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10 50,100,500 BACKWATER A-N  
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
A	AT	1040 / 2623.06	0 / 0.12	3390. /	1539. / 2623.17	100279. / 2.20	1.53 / 0.25	157. /	892. /	*IS*	
B	AT	2650 / 2626.10	1610 / 0.34	3390. / 3.15	856. / 2626.44	58586. / 3.96	1.41 / 0.40	350. / 0.004	730. /	*XS*	
C	AT	3720 / 2629.63	1070 / 0.25	3390. / 3.43	913. / 2629.88	61122. / 3.71	1.19 / 0.42	82. / 0.006	509. /	*XS*	
D	AT	5095 / 2633.68	1375 / 0.24	3390. / 4.03	962. / 2633.92	64182. / 3.52	1.22 / 0.46	97. / 0.010	539. /	*XS*	
E	AT	6020 / 2636.40	925 / 0.34	3390. / 2.76	779. / 2636.74	59981. / 4.35	1.16 / 0.38	50. / 0.003	343. /	*XS*	
F-TW	AT	6805 / 2638.95	785 / 0.66	3390. / 2.71	522. / 2639.60	55538. / 6.50	1.00 / 0.47	66. / 0.001	152. /	*XS*	
===== BEGIN BRIDGE ANALYSIS =====											
BR-FG	AT	6805 / 2638.95	/ 0.71	3390. / ...1...	502. / (-.001)	49393. / 6.76	1.00 / 0.50	0. /	92. /	*80*	
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG* =====											
APP-G	AT	7045 / 2639.91	240 / 0.85	3390. / 1.06	460. / 2640.76	46854. / 7.38	1.00 / 0.55	14. / 0.000	94. /	*AS*	
M = 0.0 / E = 1.00 / K* = 0.01 / 460. / 46917. / 1.00 / 14. / 94. / 2639.92 / 0.84 / / 2640.76 / 7.37 / 0.54 / *AS*											
===== END BRIDGE ANALYSIS =====											
H	AT	7690 / 2642.76	645 / 0.54	3170. / 2.54	636. / 2643.30	58308. / 4.99	1.40 / 0.42	27. / 0.001	210. /	*XS*	
I	AT	8710 / 2645.94	1020 / 0.51	3170. / 3.14	727. / 2646.45	55974. / 4.36	1.72 / 0.43	30. / 0.008	311. /	*XS*	
J	AT	10335 / 2650.80	1625 / 0.28	3170. / 4.62	963. / 2651.08	63124. / 3.29	1.64 / 0.35	49. / 0.005	561. /	*XS*	
K	AT	11705 / 2654.94	1370 / 0.22	3170. / 4.09	946. / 2655.17	53365. / 3.35	1.27 / 0.43	13. / 0.001	537. /	*XS*	
L-TW	AT	12858 / 2659.50	1153 / 0.93	3170. / 4.89	547. / 2660.43	44368. / 5.79	1.79 / 0.55	361. / 0.017	709. /	*XS*	
===== BEGIN BRIDGE ANALYSIS =====											
BO-LM	AT	12858 / 2657.00	/ 0.86	1576. / ...3...	211. / (-.001)	11207. / 7.45	1.00 / 0.53	0. /	34. /	*80*	

use run  
w/o backwater



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 1472. / RIGHT 150. / *RG*
-----
M-APP AT 12906 / 48 / 3170. / 982. / 73374. / 2.26 / 153. / 675.
2660.21 / 0.37 / 0.15 / 0.0 / 2660.58 / 3.23 / 0.35 / 0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1214. / 97760. / 1.83 / 144. / 676.
2660.65 / 0.19 / / 2660.85 / 2.61 / 0.27 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 3170. / 1167. / 63433. / 1.66 / 27. / 700.
2661.33 / 0.19 / 0.67 / 0.0 / 2661.52 / 2.72 / 0.31 / 0.003 *XS*
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END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

B	; KU/KD < 0.7 OR > 1.4		ALERTED USER
C	; KU/KD < 0.7 OR > 1.4		ALERTED USER
H	; KU/KD < 0.7 OR > 1.4		ALERTED USER
M-APP	; KU/KD < 0.7 OR > 1.4		ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,500,500 BACKWATER A-N  
 PAGE 1 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	MS ELEV	HW	HF	HE	EG	V	FN	ACC	REW	ID
A	AT	1040	0	5670.	6249.	795630.	1.06	89.	936.		*IS*
		2629.01	0.01		2629.02	0.91	0.06				
B	AT	2650	1610	5670.	2728.	279701.	1.04	93.	735.		*XS*
		2629.21	0.07	0.23	0.03	2629.28	2.08	0.19	0.000		
C	AT	3720	1070	5670.	1220.	97535.	1.06	80.	515.		*XS*
		2630.34	0.36	1.26	0.14	2630.69	4.65	0.50	0.003		
D	AT	5095	1375	5670.	1365.	108728.	1.08	91.	556.		*XS*
		2634.57	0.29	4.17	0.0	2634.86	4.15	0.40	0.002		
E	AT	6020	925	5670.	1052.	95974.	1.04	49.	345.		*XS*
		2637.32	0.47	2.85	0.09	2637.79	5.39	0.52	-0.011		
F-TW	AT	6805	785	5670.	653.	76499.	1.00	62.	156.		*XS*
		2640.41	1.17	3.44	0.35	2641.58	8.68	0.58	0.001		
===== BEGIN BRIDGE ANALYSIS =====											
BR-FG	AT	6805		5670.	632.	71055.	1.00	0.	92.		*80*
		2640.41	1.25	...	1.001	8.98	0.59				
===== END BRIDGE ANALYSIS =====											
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*											
APP-G	AT	7045	240	5670.	614.	71444.	1.00	12.	100.		*AS*
		2641.74	1.33	1.41	0.08	2643.07	9.23	0.62	0.000		
M = 0.0 / E = 1.00 / K* = 0.01 / 615. / 71595. / 1.00 / 12. / 100.											
		2641.75	1.32		2643.08	9.22	0.61				*AS*
===== END BRIDGE ANALYSIS =====											
H	AT	7690	645	5350.	1046.	114098.	1.26	23.	215.		*XS*
		2644.96	0.51	2.40	0.0	2645.47	5.11	0.38	0.000		
I	AT	8710	1020	5350.	1163.	106349.	1.30	22.	314.		*XS*
		2647.46	0.43	2.41	0.0	2647.89	4.60	0.40	0.007		
J	AT	10335	1625	5350.	1401.	108007.	1.26	46.	564.		*XS*
		2651.66	0.29	4.05	0.0	2651.94	3.82	0.35	0.008		
K	AT	11705	1370	5350.	1292.	92083.	1.08	12.	539.		*XS*
		2655.60	0.29	3.94	0.00	2655.89	4.14	0.43	0.002		
L-TW	AT	12858	1153	5350.	975.	68387.	2.31	199.	712.		*XS*
		2660.45	1.08	5.24	0.40	2661.53	5.49	0.61	0.004		
===== BEGIN BRIDGE ANALYSIS =====											
BO-M	AT	12858		1505.	211.	11207.	1.00	0.	34.		*80*
		2657.00	0.79	...	3.001	7.12	0.50				

Use run  
w/o backwater



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
 PAGE 2 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 3455. / RIGHT 328. / *RG*
-----
M-APP AT 12906 / 48 / 5350. / 1643. / 152973. / 1.39 / 132. / 679.
2661.45 / 0.23 / 0.13 / 0.0 / 2661.68 / 3.26 / 0.30 / 0.014 *AS*
-----
M = **** / E = **** / K* = **** / 1643. / 152973. / 1.39 / 132. / 679.
2661.45 / 0.23 / / 2661.68 / 3.26 / 0.30 / *AS*
=====
END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 5350. / 1753. / 112486. / 1.28 / 25. / 702.
2662.20 / 0.19 / 0.69 / 0.0 / 2662.38 / 3.05 / 0.31 / 0.017 *XS*
-----
    
```

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
PROFILE NUMBER 3: UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
B	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
C	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
D	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
H	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: MAX QBO < QT (3)	:	CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,500 500 BACKWATER A-N  
 PAGE 1 OF 2, PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID	AT	DIS	LEN	DIS	AREA	CONV	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
A	AT	1040	0	6760.	8722.	1348595.	1.04	66.	937.	2631.89	0.01		2631.90	0.78	0.04			*IS*
B	AT	2650	1610	6760.	4534.	630370.	1.02	59.	740.	2631.96	0.04	0.09	0.01	2632.00	1.49	0.11	-0.000	*XS*
C	AT	3720	1070	6760.	2077.	219785.	1.03	41.	521.	2632.25	0.17	0.35	0.07	2632.42	3.25	0.29	-0.000	*XS*
D	AT	5095	1375	6760.	1407.	113723.	1.08	90.	557.	2634.66	0.39	2.51	0.11	2635.05	4.81	0.46	0.006	*XS*
E	AT	6020	925	6760.	1191.	116643.	1.02	48.	347.	2637.79	0.51	3.19	0.06	2638.10	5.67	0.53	0.095	*XS*
F-TW	AT	6805	785	6760.	704.	85070.	1.00	61.	157.	2640.94	1.44	3.62	0.46	2642.38	9.61	0.62	0.001	*XS*
===== BEGIN BRIDGE ANALYSIS =====																		
BR-FG	AT	6805		6760.	679.	79648.	1.00	0.	92.	2640.94	1.54	...	...	(-.001)	9.95	0.63		*BO*
===== END BRIDGE ANALYSIS =====																		
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*																		
APP-G	AT	7045	240	6760.	677.	82158.	1.00	11.	102.	2642.44	1.55	1.57	0.06	2644.00	9.99	0.64	-0.011	*AS*
M = 0.0 / E = 1.00 / K* = 0.01 / 678. / 82371. / 1.00 / 11. / 102. / 2642.46 / 1.55 / / 2644.00 / 9.97 / 0.64 / *AS*																		
H	AT	7690	645	6390.	1221.	142247.	1.23	20.	216.	2645.86	0.52	2.38	0.0	2646.39	5.23	0.37	0.001	*XS*
I	AT	8710	1020	6390.	1366.	134280.	1.21	20.	315.	2648.16	0.41	2.18	0.0	2648.57	4.68	0.38	0.000	*XS*
J	AT	10335	1625	6390.	1585.	132503.	1.16	45.	565.	2652.01	0.29	3.73	0.0	2652.30	4.03	0.41	0.008	*XS*
K	AT	11705	1370	6390.	1437.	109144.	1.06	12.	539.	2655.88	0.33	3.87	0.02	2656.20	4.45	0.44	0.014	*XS*
L-TW	AT	12858	1153	6390.	1147.	82113.	2.15	191.	714.	2660.78	1.04	5.25	0.36	2661.82	5.57	0.61	0.007	*XS*
===== BEGIN BRIDGE ANALYSIS =====																		
BO-LM	AT	12858		1525.	211.	11207.	1.00	0.	34.	2657.00	0.81	...	...	(-.001)	7.21	0.51		*BO*

use run  
w/o backwater



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50,100,500 BACKWATER A-N  
 PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 4533. / RIGHT 434. / *RG*
-----
M-APP AT 12906 / 48 / 6390. / 1775. / 170717. / 1.33 / 128. / 679.
2661.69 / 0.27 / 0.14 / 0.0 / 2661.96 / 3.60 / 0.33 / -0.002 *AS*
-----
M = **** / E = **** / K* = **** / 1834. / 178992. / 1.31 / 127. / 679.
2661.80 / 0.25 / / 2662.04 / 3.48 / 0.32 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 6390. / 1989. / 137646. / 1.19 / 24. / 703.
2662.55 / 0.19 / 0.69 / 0.0 / 2662.74 / 3.21 / 0.32 / 0.007 *XS*
-----
    
```

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	ERROR (WARNING) MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
B	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
C	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
D	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
E	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
F-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
H	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: MAX QBO < QT (3)	:	CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50,100.500 BACKWATER A-N  
 PAGE 1 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LV	HF	HE	EG	V	FN	LEW	REW	ACC	ID
A	AT	1040	0	9600.	15608.	3421359.	1.02	33.	943.			
		2639.64	0.01			2639.65	0.62	0.03				*IS*
B	AT	2650	1610	9600.	10100.	2209961.	1.05	8.	772.			
		2639.64	0.01	0.02	0.00	2639.65	0.95	0.05	-0.015			*XS*
C	AT	3720	1070	9600.	5762.	1142918.	1.03	22.	535.			
		2639.66	0.04	0.04	0.01	2639.71	1.67	0.09	-0.000			*XS*
D	AT	5095	1375	9600.	4150.	582303.	1.00	55.	645.			
		2639.84	0.08	0.19	0.02	2639.92	2.31	0.15	0.000			*XS*
E	AT	6020	925	9600.	1942.	254663.	1.00	44.	354.			
		2640.26	0.38	0.57	0.15	2640.64	4.94	0.38	0.000			*XS*
F-TW	AT	6805	785	9600.	815.	104949.	1.00	59.	159.			
		2642.08	2.16	2.71	0.89	2644.24	11.77	0.73	-0.000			*XS*
===== BEGIN BRIDGE ANALYSIS =====												
BR-FG	AT	6805		9600.	780.	98888.	1.00	0.	92.			
		2642.08	2.35	...	1... (-.001)	12.30	0.73					*B0*
===== END BRIDGE ANALYSIS =====												
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*												
APP-G	AT	7045	240	9600.	823.	111663.	1.01	10.	106.			
		2644.00	2.13	1.89	0.0	2645.13	11.67	0.69	0.009			*AS*
		M = 0.00	E = 0.00	K* = 0.01	825.	112218.	1.01	10.	107.			
		2644.03	2.12			2646.15	11.63	0.69				*AS*
H	AT	7690	645	9100.	1627.	216745.	1.17	15.	219.			
		2647.90	0.57	2.32	0.0	2648.47	5.59	0.36	0.001			*XS*
I	AT	8710	1020	9100.	1883.	215009.	1.10	15.	319.			
		2649.88	0.40	1.81	0.0	2650.28	4.83	0.32	0.000			*XS*
J	AT	10335	1625	9100.	2113.	205795.	1.07	42.	569.			
		2653.02	0.31	3.04	0.0	2653.33	4.31	0.40	0.004			*XS*
K	AT	11705	1370	9100.	1783.	154526.	1.03	12.	541.			
		2656.53	0.42	3.57	0.06	2656.95	5.10	0.46	0.002			*XS*
L-TW	AT	12858	1153	9100.	1523.	117936.	1.79	175.	716.			
		2661.49	0.99	5.24	0.29	2662.48	5.97	0.62	0.005			*XS*
===== BEGIN BRIDGE ANALYSIS =====												
B0-LM	AT	12858		1504.	211.	11207.	1.00	0.	34.			
		2657.00	0.79	...	3... (-.001)	7.11	0.50					*B0*

Use run  
w/o backwater



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N  
PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 6804. / RIGHT 671. / *RG*
-----
M-APP AT 12906 / 48 / 9100. / 2101. / 217689. / 1.24 / 119. / 684.
2662.28 / 0.36 / 0.15 / 0.0 / 2662.64 / 4.33 / 0.38 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 2160. / 226544. / 1.23 / 118. / 686.
2662.38 / 0.34 / / 2662.72 / 4.21 / 0.37 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 9100. / 2471. / 197610. / 1.09 / 23. / 708.
2663.25 / 0.23 / 0.77 / 0.0 / 2663.48 / 3.68 / 0.35 / 0.001 *XS*
-----
```

END OF THIS PROFILE



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....
1	1	COVE, CREEK, LOWER	10.50.100.500	OK	A-M	17	4	02 05 10
2	2	262231	262306	262336	262403			
3	100	A	1	34	3	2614	1040	99 99
4	101	3390	5670	6760	9600			
5	105	0	1	26443	45	1	26379	65 1 26320 110 1 26265 165 1 26225
5	106	194	1	26219	211	1	26212	250 1 26213 300 1 26227 350 1 26223
5	107	400	1	26221	450	2	26223	466 2 26265 470 2 26147 478 2 26130
5	108	484	2	26134	494	2	26137	498 2 26146 504 2 26170 525 2 26184
5	109	546	3	26221	600	3	26220	650 3 26214 700 3 26208 750 3 26207
5	110	800	3	26207	850	3	26197	884 3 26199 894 3 26239 904 3 26269
5	111	912	3	26275	929	3	26265	933 3 26253 946 3 26445
6	115	1	2	050 045	2	4	040 045	1 2 050 045
3	201	P	0	31	3	2619	2650	99 99
5	205	0	1	26492	4	1	26419	12 1 26375 32 1 26368 41 1 26365
5	206	71	1	26316	104	1	26280	150 1 26268 200 1 26263 250 1 26263
5	207	300	1	26252	350	1	26261	400 1 26259 450 1 26258 500 1 26241
5	208	550	1	26241	600	1	26237	629 2 26236 631 2 26195 636 2 26186
5	209	642	2	26181	653	2	26188	664 2 26195 665 3 26212 708 3 26223
5	210	737	3	26243	739	3	26317	748 3 26343 764 3 26335 768 3 26329
5	211	777	3	26492				
6	215	1	2	040 035	1	2	050 050	1 2 060 055
3	301	0	26	3	2622	3720	99 99	
5	305	0	1	26509	16	1	26419	44 1 26312 50 1 26311 51 1 26319
5	306	77	1	26320	83	1	26291	135 1 26264 165 2 26263 173 2 26228
5	307	175	2	26217	184	2	26214	188 2 26213 190 2 26215 191 2 26243
5	308	204	3	26273	250	3	26278	300 3 26270 350 3 26285 400 3 26280
5	309	450	3	26285	500	3	26291	514 3 26299 525 3 26337 535 3 26398
5	310	550	3	26509				
6	315	1	2	045 040	1	2	050 050	1 2 040 035
3	401	0	30	3	2626	5095	99 99	
5	405	0	1	26550	11	1	26425	31 1 26453 38 1 26460 65 1 26364
5	406	78	1	26364	100	1	26333	150 1 26323 200 1 26323 250 1 26325
5	407	300	1	26318	350	1	26311	380 2 26303 386 2 26293 387 2 26269
5	408	390	2	26263	395	2	26260	404 2 26251 407 2 26263 407 2 26272
5	409	410	3	26319	450	3	26295	500 3 26318 550 3 26342 600 3 26375
5	410	650	3	26401	692	3	26427	718 3 26502 736 3 26514 910 3 26550
6	415	1	2	045 040	1	2	050 050	1 2 045 035
3	501	F	0	25	2	2628	6020	99 99
5	505	0	1	26544	8	1	26472	12 1 26480 32 1 26473 35 1 26468
5	506	51	1	26356	55	1	26350	62 1 26294 62 1 26289 69 1 26283
5	507	75	1	26275	82	1	26284	95 1 26288 96 1 26299 100 2 26334
5	508	150	2	26353	200	2	26349	250 2 26348 300 2 26338 375 2 26337
5	509	375	2	26478	392	2	26488	412 2 26494 417 2 26484 426 2 26544
6	510	1	2	060 050	1	2	045 035	
3	600	F-TW	0	20	2	2631	6805	99 99

A-M w/o BW Good

I-N rerun  
I had errors in X sect. data











USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 4,DATE= 1/16/78

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500

A-M

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	
I	WARNING	HSUBO		IS LESS THAN	GMIN		> GMIN
RG-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 5,DATE= 1/16/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 A-M

17 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 17 TYPE 3 CARDS

KEPT 17 CROSS SECTIONS FOR EDITING

17 " " VALID FOR PROPERTY COMPUTATIONS

17 " " " " PROFILE " "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=A AT DISTANCE= 1040A-M  
PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2614.0	12	291	1.00	22	22	473	495	49
2614.5	24	831	1.00	27	27	471	498	130
2615.0	38	1678	1.00	29	30	470	499	247
2615.5	53	2795	1.00	31	32	469	500	396
2616.0	69	4112	1.00	32	34	469	502	571
2616.5	86	5539	1.00	34	36	469	503	770
2617.0	103	7115	1.00	36	38	468	504	993
2617.5	123	8400	1.00	43	46	468	512	1170
2618.0	146	10089	1.00	51	54	468	519	1403
2618.5	174	12272	1.00	58	61	467	526	1706
2619.0	204	15107	1.00	61	64	467	528	2107
2619.5	235	18190	1.00	65	68	467	531	2548
2620.0	278	21606	1.06	117	121	466	884	2359
2620.5	343	26258	1.17	146	151	466	886	2753
2621.0	452	31262	1.42	282	286	462	887	2727
2621.5	617	39527	1.57	385	390	204	888	3531
2622.0	830	51293	1.60	468	473	189	889	4954
2622.5	1133	68697	1.67	693	698	165	891	6350
2623.0	1495	96662	1.54	734	739	158	892	9755
2623.5	1863	129860	1.41	742	747	151	893	14089
2624.0	2236	169124	1.30	750	755	144	894	19181
2624.5	2614	212926	1.23	759	764	138	896	24772
2625.0	2995	260939	1.19	767	772	131	898	30796
2625.5	3381	313150	1.16	776	782	124	903	37228
2626.0	3771	369260	1.13	787	793	117	933	44029
2626.5	4168	429498	1.11	797	804	110	934	51218
2627.0	4570	491621	1.10	813	820	106	934	58598
2627.5	4981	556298	1.09	833	840	102	934	66180
2628.0	5399	631527	1.08	837	845	98	935	74893
2628.5	5819	710777	1.07	842	849	94	935	83949
2629.0	6240	793966	1.06	846	854	90	936	93336
2629.5	6665	881020	1.05	850	859	85	936	103047
2630.0	7091	971872	1.05	855	863	81	936	113074
2630.5	7519	1066461	1.05	859	868	77	937	123409
2631.0	7950	1164734	1.04	864	873	73	937	134047
2631.5	8383	1266639	1.04	868	878	69	937	144982
2632.0	8818	1372132	1.04	873	882	65	938	156210
2632.5	9255	1483115	1.03	875	885	63	938	168007
2633.0	9693	1597628	1.03	877	887	62	938	180087
2633.5	10132	1715620	1.03	879	889	60	939	192443
2634.0	10571	1837044	1.03	881	892	58	939	205070
2634.5	11012	1961855	1.02	883	894	57	939	217964
2635.0	11454	2090015	1.02	885	897	55	940	231121
2635.5	11897	2221481	1.02	887	899	53	940	244536
2636.0	12341	2356215	1.02	889	901	51	940	258206



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100,500  
SECID=A AT DISTANCE= 1040A-M  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2636.5	12786	2494186	1.02	891	904	50	941	272127
2637.0	13232	2635360	1.02	893	906	48	941	286297
2637.5	13679	2779703	1.02	895	908	46	941	300710
2638.0	14127	2926548	1.02	897	911	44	942	315288
2638.5	14576	3073917	1.02	901	915	41	942	329791
2639.0	15028	3224364	1.02	905	919	37	942	344532
2639.5	15481	3377872	1.02	909	924	34	943	359507
2640.0	15937	3534429	1.02	913	928	30	943	374717
2640.5	16394	3694014	1.02	917	932	27	943	390158
2641.0	16853	3856618	1.02	920	936	23	944	405830
2641.5	17314	4022226	1.02	924	940	20	944	421730
2642.0	17778	4190324	1.02	928	944	16	944	437857
2642.5	18243	4362410	1.02	932	949	13	945	454211
2643.0	18710	4536961	1.02	936	953	9	945	470788
2643.5	19178	4714470	1.02	940	957	6	945	487589
2644.0	19649	4894929	1.02	944	961	2	946	504612
2644.5	20122	5081884	1.02	946	964	0	946	522322

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100,500  
SECID=B AT DISTANCE= 2650A-M  
PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2619.0	11	195	1.00	22	22	634	656	42
2619.5	25	600	1.00	33	33	631	664	120
2620.0	41	1389	1.00	34	34	631	664	259
2620.5	58	2410	1.00	34	35	631	665	431
2621.0	75	3632	1.00	35	37	630	665	630
2621.5	94	5078	1.03	47	49	630	677	751
2622.0	123	6865	1.15	66	69	630	696	881
2622.5	160	9147	1.27	80	83	630	710	1141
2623.0	202	11984	1.30	85	88	629	715	1544
2623.5	246	15367	1.29	90	94	629	719	2027
2624.0	308	19635	1.36	162	165	562	724	2071
2624.5	418	25977	1.49	239	243	488	727	2570
2625.0	541	34807	1.43	255	259	474	728	3742
2625.5	673	46153	1.32	270	274	459	729	5243
2626.0	820	56303	1.39	355	359	375	730	6005
2626.5	1052	68386	1.59	564	568	167	731	6470
2627.0	1345	94623	1.37	595	599	137	731	9804
2627.5	1646	123077	1.19	612	617	120	732	14013
2628.0	1956	166372	1.12	629	634	104	733	18465
2628.5	2272	209691	1.03	634	639	99	734	23503
2629.0	2591	257705	1.05	640	645	95	735	28849



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=B AT DISTANCE= 2650A-M  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2629.5	2912	310216	1.04	645	651	90	735	34482
2630.0	3236	367064	1.03	651	656	86	736	40391
2630.5	3563	428116	1.02	656	662	81	737	46571
2631.0	3892	493260	1.02	661	667	76	738	53017
2631.5	4224	562400	1.02	667	673	72	739	59726
2632.0	4559	635801	1.02	671	678	69	740	66704
2632.5	4896	713023	1.02	676	683	65	742	73913
2633.0	5235	793513	1.02	682	688	62	768	81286
2633.5	5578	875735	1.03	690	697	59	768	88578
2634.0	5927	958005	1.04	705	713	56	769	95350
2634.5	6283	1047793	1.05	716	723	53	769	102939
2635.0	6641	1145441	1.05	719	727	50	769	111618
2635.5	7002	1246699	1.05	722	731	47	769	120539
2636.0	7364	1351521	1.05	726	734	44	770	129697
2636.5	7727	1459872	1.05	729	738	41	770	139090
2637.0	8096	1555912	1.05	744	753	26	770	147790
2637.5	8471	1656235	1.05	759	768	12	771	156811
2638.0	8851	1779806	1.05	760	770	11	771	167277
2638.5	9231	1906958	1.05	761	771	10	771	177966
2639.0	9612	2037640	1.05	762	773	9	771	188874
2639.5	9993	2171809	1.05	763	775	8	772	199997
2640.0	10375	2309421	1.05	764	776	7	772	211333
2640.5	10758	2450432	1.05	766	778	7	772	222877
2641.0	11141	2594802	1.05	767	780	6	772	234626
2641.5	11524	2742496	1.05	768	781	5	773	246577
2642.0	11909	2893722	1.06	769	783	4	773	258747
2642.5	12293	3049147	1.06	770	784	4	773	271187
2643.0	12678	3207781	1.06	770	785	3	774	283820
2643.5	13064	3369587	1.06	771	786	3	774	296642
2644.0	13449	3534525	1.06	771	787	3	774	309651
2644.5	13835	3702564	1.06	772	788	3	774	322845
2645.0	14221	3873679	1.06	772	789	2	775	336221
2645.5	14607	4047831	1.06	773	791	2	775	349776
2646.0	14994	4224992	1.06	773	792	2	775	363509
2646.5	15381	4405138	1.06	774	793	1	776	377417
2647.0	15768	4588234	1.06	775	794	1	776	391498
2647.5	16155	4774257	1.06	775	795	1	776	405750
2648.0	16543	4963176	1.06	776	796	1	776	420172
2648.5	16931	5154971	1.06	776	797	0	777	434761
2649.0	17319	5349617	1.06	777	799	0	777	449515
2649.2	17475	5428248	1.07	777	799	0	777	455462



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=C AT DISTANCE= 3720

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2622.0	8	149	1.00	16	16	174	190	32
2622.5	16	451	1.00	17	18	174	190	90
2623.0	25	872	1.00	18	19	173	191	155
2623.5	34	1399	1.00	19	21	171	191	257
2624.0	44	2034	1.00	21	23	170	191	366
2624.5	55	2731	1.00	23	25	169	192	483
2625.0	67	3505	1.00	26	29	168	194	610
2625.5	81	4444	1.00	29	32	167	196	762
2626.0	96	5562	1.00	33	36	166	198	940
2626.5	114	6968	1.06	67	71	133	201	860
2627.0	155	9074	1.17	79	83	123	203	1137
2627.5	211	12133	1.31	157	160	114	317	1216
2628.0	312	17385	1.46	229	233	104	333	1712
2628.5	459	24929	1.57	355	359	95	450	2356
2629.0	649	37142	1.44	407	410	85	492	3878
2629.5	859	55530	1.23	425	428	82	507	6254
2630.0	1074	79507	1.10	433	437	81	514	9153
2630.5	1291	105677	1.05	436	440	80	516	12319
2631.0	1509	136874	1.02	438	442	79	517	15703
2631.5	1731	168888	1.02	448	452	43	519	19156
2632.0	1958	199810	1.03	478	483	42	520	22094
2632.5	2197	240608	1.03	481	486	41	522	26281
2633.0	2439	284587	1.02	484	489	39	523	30689
2633.5	2681	331548	1.02	486	492	38	524	35314
2634.0	2925	381875	1.02	489	494	37	525	40160
2634.5	3170	435138	1.02	491	497	35	526	45215
2635.0	3416	491258	1.02	493	499	34	527	50467
2635.5	3663	550173	1.02	495	502	33	528	55910
2636.0	3911	611826	1.02	497	504	31	529	61539
2636.5	4160	676164	1.02	499	506	30	530	67350
2637.0	4411	743142	1.02	502	509	29	530	73339
2637.5	4662	812715	1.02	504	511	28	531	79502
2638.0	4914	884846	1.02	506	513	26	532	85836
2638.5	5168	959498	1.03	508	516	25	533	92338
2639.0	5422	1036636	1.03	510	518	24	534	99004
2639.5	5678	1116231	1.03	512	520	22	535	105833
2640.0	5934	1198337	1.03	514	523	21	535	112826
2640.5	6192	1282952	1.03	516	525	20	536	119983
2641.0	6451	1369941	1.03	518	527	18	537	127295
2641.5	6710	1459280	1.03	520	529	17	537	134758
2642.0	6971	1551066	1.03	522	532	16	538	142389
2642.5	7232	1645593	1.03	524	534	15	539	150229
2643.0	7495	1742397	1.03	525	535	14	539	158217
2643.5	7758	1841459	1.03	527	537	13	540	166349
2644.0	8022	1942754	1.03	528	539	12	541	174625



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=C AT DISTANCE= 3720

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2644.5	8386	2046266	1.03	530	541	11	541	183042
2645.0	8552	2151972	1.03	532	543	10	542	191599
2645.5	8818	2259859	1.03	533	545	10	543	200295
2646.0	9085	2369901	1.03	535	547	9	543	209127
2646.5	9352	2482092	1.03	536	548	8	544	218095
2647.0	9621	2596408	1.03	538	550	7	545	227198
2647.5	9890	2712838	1.03	539	552	6	545	236433
2648.0	10160	2831368	1.03	541	554	5	546	245800
2648.5	10431	2951981	1.03	542	556	4	547	255298
2649.0	10703	3074666	1.03	544	558	3	547	264925
2649.5	10975	3199411	1.03	546	560	2	548	274681
2650.0	11248	3326197	1.03	547	561	2	549	284565
2650.5	11522	3455026	1.03	549	563	1	549	294575
2650.9	11742	3559521	1.03	550	565	0	550	302673

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=D AT DISTANCE= 5095

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2626.0	5	88	1.00	11	11	395	406	19
2626.5	13	299	1.00	18	19	389	407	51
2627.0	22	695	1.00	20	21	387	407	135
2627.5	33	1248	1.00	20	22	387	407	233
2628.0	43	1914	1.00	21	23	387	408	348
2628.5	53	2682	1.00	21	25	386	408	479
2629.0	64	3542	1.00	22	26	386	408	624
2629.5	76	4393	1.00	24	28	385	408	767
2630.0	93	5302	1.07	46	51	382	461	724
2630.5	122	6800	1.20	75	80	372	472	812
2631.0	170	9227	1.35	113	118	354	483	1014
2631.5	238	12685	1.47	165	171	321	493	1343
2632.0	335	18061	1.45	218	224	286	504	1951
2632.5	472	25510	1.56	375	380	140	515	2407
2633.0	668	38970	1.43	410	416	115	525	4048
2633.5	881	56454	1.28	437	443	99	535	6275
2634.0	1103	78999	1.15	451	457	95	546	9134
2634.5	1332	104757	1.09	463	469	91	555	12272
2635.0	1566	133762	1.06	474	480	88	562	15688
2635.5	1806	166087	1.04	485	491	84	570	19381
2636.0	2051	201667	1.03	496	502	81	577	23339
2636.5	2304	237322	1.03	520	526	65	585	27155
2637.0	2566	280305	1.02	529	535	63	592	31780
2637.5	2833	326568	1.01	538	544	62	600	36557



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=D AT DISTANCE= 5095

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2638.0	3105	375294	1.01	549	555	60	610	41726
2638.5	3382	427305	1.00	560	567	59	619	47040
2639.0	3665	482595	1.00	571	578	58	629	52597
2639.5	3953	541167	1.00	582	589	56	638	58397
2640.0	4247	603023	1.00	593	600	55	648	64440
2640.5	4546	668891	1.00	603	610	53	656	70794
2641.0	4850	738169	1.00	612	619	52	665	77404
2641.5	5159	810692	1.00	622	629	51	673	84253
2642.0	5472	886462	1.00	631	639	49	681	91342
2642.5	5790	965484	1.00	641	648	48	689	98668
2643.0	6113	1046271	1.00	651	658	11	693	106266
2643.5	6440	1132329	1.00	658	666	10	695	114295
2644.0	6771	1221540	1.00	665	673	10	697	122541
2644.5	7105	1313890	1.00	672	681	9	698	131003
2645.0	7443	1409370	1.00	679	689	9	700	139679
2645.5	7785	1507158	1.00	687	697	8	702	148507
2646.0	8130	1606875	1.00	696	706	8	703	157453
2646.5	8479	1719718	1.00	698	708	7	705	167399
2647.0	8828	1835701	1.00	700	711	7	707	177557
2647.5	9178	1954790	1.00	702	713	7	709	187924
2648.0	9530	2076956	1.00	704	716	6	710	198497
2648.5	9883	2202164	1.00	706	718	6	712	209273
2649.0	10236	2330388	1.00	709	720	5	714	220251
2649.5	10591	2461598	1.00	711	723	5	716	231427
2650.0	10947	2595769	1.00	713	725	4	717	242800
2650.5	11305	2724911	1.00	719	731	4	723	253857
2651.0	11666	2851897	1.00	726	739	4	730	264766
2651.5	12031	2974364	1.00	738	751	3	741	275297
2652.0	12406	3070303	1.00	762	776	3	765	283651
2652.5	12794	3174370	1.00	787	801	2	789	292126
2653.0	13193	3285745	1.01	812	826	2	813	300793
2653.5	13605	3404029	1.01	836	850	1	838	309708
2654.0	14030	3528928	1.01	861	875	1	862	318913
2654.5	14466	3660223	1.02	885	900	0	886	328439
2655.0	14915	3797791	1.02	910	925	0	910	338315

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=E AT DISTANCE= 6020

A-M  
 PART 1 OF 3

WS	A	K	ALPHA	B	P	LEW	REW	QC
2628.0	2	19	1.00	8	8	71	79	5
2628.5	8	110	1.00	19	19	67	85	29
2629.0	22	412	1.00	33	34	62	95	102



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=E AT DISTANCE= 6020

A-M  
 PART 2 OF 3

WS	A	K	ALPHA	B	P	LEW	REW	QC
2629.5	39	1058	1.00	34	35	62	96	235
2630.0	56	2057	1.00	35	36	61	96	401
2630.5	74	3419	1.00	36	38	61	97	596
2631.0	92	4821	1.00	37	39	60	97	819
2631.5	111	6418	1.00	38	41	59	98	1067
2632.0	130	8204	1.00	40	42	59	98	1341
2632.5	150	10174	1.00	41	44	58	99	1638
2633.0	171	12326	1.00	42	46	57	100	1960
2633.5	193	14688	1.00	46	50	57	103	2241
2634.0	229	17542	1.11	105	110	56	336	1820
2634.5	292	21432	1.28	146	150	56	337	2068
2635.0	382	26250	1.53	238	243	55	339	2219
2635.5	518	33397	1.59	288	293	52	340	3119
2636.0	663	46103	1.34	291	296	50	342	4898
2636.5	809	64258	1.13	293	298	50	343	7186
2637.0	956	82927	1.06	295	301	49	344	9474
2637.5	1104	103580	1.03	297	303	48	346	11899
2638.0	1254	126409	1.01	300	306	48	347	14459
2638.5	1404	151317	1.00	302	308	47	349	17145
2639.0	1555	178228	1.00	304	310	46	350	19955
2639.5	1708	207077	1.00	306	313	45	351	22885
2640.0	1862	237810	1.00	308	315	45	353	25934
2640.5	2016	270378	1.00	310	318	44	354	29101
2641.0	2172	304741	1.01	312	320	43	356	32384
2641.5	2329	340861	1.01	315	322	43	357	35780
2642.0	2486	378707	1.01	317	325	42	359	39290
2642.5	2645	418251	1.01	319	327	41	360	42910
2643.0	2805	459464	1.02	321	329	40	361	46640
2643.5	2966	502325	1.02	323	332	40	363	50478
2644.0	3128	546812	1.02	325	334	39	364	54422
2644.5	3291	592904	1.02	327	337	38	366	58471
2645.0	3456	640586	1.03	329	339	38	367	62624
2645.5	3621	689840	1.03	332	341	37	368	66880
2646.0	3787	740650	1.03	334	344	36	370	71237
2646.5	3955	793005	1.03	336	346	35	371	75695
2647.0	4123	845722	1.04	339	349	34	373	80080
2647.5	4294	892179	1.05	348	359	8	374	83340
2648.0	4473	930607	1.08	366	377	7	378	85367
2648.5	4660	971934	1.08	381	392	7	417	88792
2649.0	4854	1009614	1.08	397	408	6	418	92896
2649.5	5057	1049175	1.07	413	425	5	419	97159
2650.0	5264	1119042	1.07	415	427	5	419	102984
2650.5	5472	1190722	1.07	416	428	4	420	108926
2651.0	5680	1264199	1.07	417	430	4	421	114983
2651.5	5889	1339452	1.07	418	432	3	422	121155



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=E AT DISTANCE= 6020

A-M  
 PART 3 OF 3

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	6098	1416464	1.07	420	433	3	422	127439
2652.5	6309	1495218	1.07	421	435	2	423	133834
2653.0	6519	1575698	1.07	422	437	2	424	140338
2653.5	6731	1657889	1.07	424	438	1	425	146951
2654.0	6943	1741773	1.07	425	440	0	425	153671
2654.4	7113	1810082	1.07	426	441	0	426	159122

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=F-TW AT DISTANCE= 6805

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	17	354	1.00	29	30	85	131	75
2631.5	35	907	1.00	41	42	84	131	180
2632.0	57	1919	1.00	48	50	83	132	355
2632.5	82	3558	1.00	50	52	82	132	597
2633.0	107	5661	1.00	51	53	81	132	880
2633.5	134	7954	1.00	53	55	80	133	1202
2634.0	161	10233	1.00	58	61	79	137	1522
2634.5	191	13047	1.00	62	65	78	140	1906
2635.0	223	16378	1.00	65	68	77	141	2350
2635.5	256	20055	1.00	67	70	76	143	2833
2636.0	290	24042	1.00	70	73	74	145	3350
2636.5	326	28397	1.00	73	76	73	146	3909
2637.0	363	33126	1.00	76	80	72	148	4508
2637.5	402	38234	1.00	79	83	70	149	5150
2638.0	442	43788	1.00	82	86	69	150	5840
2638.5	484	49806	1.00	84	88	67	152	6581
2639.0	526	56213	1.00	87	91	66	153	7363
2639.5	570	63027	1.00	89	93	65	154	8189
2640.0	615	70276	1.00	91	96	63	155	9060
2640.5	661	77925	1.00	94	99	62	156	9973
2641.0	709	85979	1.00	96	101	61	157	10928
2641.5	757	94441	1.00	93	104	60	158	11926
2642.0	807	103421	1.00	100	106	59	159	12978
2642.5	858	112962	1.00	102	108	58	160	14088
2643.0	909	122909	1.00	104	110	57	161	15240
2643.5	962	133265	1.00	106	112	56	162	16433
2644.0	1015	143954	1.00	108	115	56	164	17659
2644.5	1070	154941	1.00	110	117	55	165	18915
2645.0	1126	166354	1.00	112	119	54	166	20213
2645.5	1182	178195	1.00	114	122	53	168	21555
2646.0	1242	191229	1.00	126	133	43	169	22088
2646.5	1308	205017	1.01	140	147	30	170	22556



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=BF-TW AT DISTANCE= 6805

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2647.0	1381	219505	1.03	148	155	24	172	23617
2647.5	1456	234682	1.04	154	162	17	173	24870
2648.0	1535	250554	1.05	161	169	13	174	26198
2648.5	1617	267218	1.06	166	174	10	176	27761
2649.0	1701	284717	1.07	168	176	9	177	29636
2649.5	1789	282415	1.07	187	195	8	195	30365
2650.0	1884	299789	1.07	191	200	7	198	32409
2650.5	1980	322012	1.08	192	201	6	198	34794
2651.0	2076	344931	1.08	193	203	5	198	37248
2651.5	2173	368530	1.08	193	204	5	198	39768
2652.0	2270	392794	1.08	194	206	4	198	42353
2652.5	2367	417710	1.08	195	207	3	198	45001
2653.0	2465	443268	1.08	196	209	2	198	47710
2653.5	2563	469454	1.08	197	210	1	198	50480
2654.0	2661	496260	1.08	198	212	0	198	53309
2654.2	2701	507155	1.08	198	212	0	198	54457

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=BR-FG AT DISTANCE= 6805

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	27	681	1.00	33	34	34	67	138
2631.5	44	1489	1.00	34	36	33	67	282
2632.0	61	2533	1.00	35	37	32	67	461
2632.5	79	3793	1.00	35	39	31	67	664
2633.0	97	5285	1.00	37	41	30	67	889
2633.5	116	7017	1.00	39	43	29	68	1139
2634.0	136	8827	1.00	41	47	29	70	1395
2634.5	157	10686	1.00	46	51	27	73	1657
2635.0	183	11418	1.00	60	65	19	79	1614
2635.5	218	12964	1.00	77	83	11	80	2085
2636.0	258	16861	1.00	81	87	8	89	2611
2636.5	299	21492	1.00	84	90	6	90	3201
2637.0	342	26755	1.00	87	94	3	91	3843
2637.5	387	32178	1.00	90	97	1	91	4535
2638.0	432	38210	1.00	92	99	0	92	5314
2638.5	478	44923	1.00	92	100	0	92	6185
2639.0	524	52007	1.00	92	101	0	92	7098
2639.5	570	59441	1.00	92	102	0	92	8053
2640.0	616	67207	1.00	92	103	0	92	9047
2640.5	662	75288	1.00	92	104	0	92	10078
2641.0	708	83669	1.00	92	105	0	92	11146
2641.5	754	92336	1.00	92	106	0	92	12249



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CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=RR-FG AT DISTANCE= 6805

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2642.0	800	101276	1.00	92	107	0	92	13387
2642.5	846	110476	1.00	92	108	0	92	14558
2643.0	892	119927	1.00	92	109	0	92	15761
2643.5	938	129616	1.00	92	110	0	92	16995
2644.0	984	139536	1.00	92	111	0	92	18260
2644.5	1030	149676	1.00	92	112	0	92	19555
2644.7	1049	103253	1.00	0	204	0	92	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=APP-G AT DISTANCE= 7045

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2631.0	7	86	1.00	24	24	39	63	20
2631.5	21	483	1.00	29	29	35	64	98
2632.0	35	1152	1.00	30	31	34	64	217
2632.5	51	2038	1.00	32	33	33	65	366
2633.0	67	3124	1.00	33	34	33	66	542
2633.5	84	4462	1.00	35	36	32	66	740
2634.0	102	5952	1.00	37	39	31	67	954
2634.5	121	7700	1.00	40	42	30	70	1196
2635.0	142	9727	1.00	43	45	29	72	1466
2635.5	164	12054	1.00	46	48	29	74	1766
2636.0	187	14548	1.00	49	52	27	76	2083
2636.5	213	16824	1.00	55	58	23	78	2388
2637.0	243	19979	1.00	63	66	20	83	2700
2637.5	276	22333	1.00	69	72	18	87	3127
2638.0	312	26524	1.00	73	76	16	89	3665
2638.5	349	31188	1.00	75	79	15	90	4258
2639.0	387	36396	1.00	77	81	14	92	4914
2639.5	426	41967	1.00	79	83	14	93	5608
2640.0	467	47900	1.00	81	85	13	95	6341
2640.5	508	54196	1.00	83	88	13	96	7113
2641.0	550	60856	1.00	85	90	12	98	7924
2641.5	593	67880	1.00	87	92	12	99	8773
2642.0	637	75272	1.00	89	94	12	101	9661
2642.5	682	83035	1.00	91	97	11	102	10588
2643.0	728	92061	1.00	93	99	11	103	11549
2643.5	774	101473	1.00	95	101	10	105	12539
2644.0	822	111576	1.01	97	103	10	106	13560
2644.5	871	122301	1.01	99	106	9	108	14600
2645.0	921	133465	1.02	101	108	9	110	15663
2645.5	972	145074	1.02	103	111	8	111	16758
2646.0	1024	157134	1.03	105	113	8	113	17883



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=APP-6 AT DISTANCE= 7045

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2646.5	1077	169647	1.03	107	115	7	115	19041
2647.0	1132	182633	1.04	110	118	7	116	20233
2647.5	1187	196097	1.05	112	120	6	118	21461
2648.0	1244	209858	1.05	116	125	6	122	22475
2648.5	1303	224182	1.06	121	130	5	126	23537
2649.0	1365	239077	1.07	125	135	5	130	24649
2649.5	1429	254561	1.09	130	139	4	134	25811
2650.0	1495	270656	1.10	134	144	4	138	27027
2650.5	1563	287385	1.11	139	149	3	142	28298
2651.0	1632	305380	1.11	139	150	3	142	30116
2651.5	1702	324021	1.11	140	151	2	142	31995
2652.0	1772	342939	1.11	140	152	2	142	33888
2652.5	1842	362369	1.11	141	154	1	142	35826
2653.0	1913	382309	1.12	141	155	1	142	37806
2653.5	1983	402748	1.12	142	156	0	142	39829
2653.8	2026	415242	1.12	142	157	0	142	41062

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=H AT DISTANCE= 7590

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2634.0	21	542	1.00	26	26	118	143	109
2634.5	34	1206	1.00	26	28	117	143	220
2635.0	47	2132	1.00	27	29	117	144	357
2635.5	61	3250	1.00	28	30	116	144	515
2636.0	75	4363	1.00	30	33	114	144	679
2636.5	91	5535	1.00	34	37	113	147	849
2637.0	110	6950	1.00	38	41	111	149	1050
2637.5	130	8671	1.00	42	45	109	152	1291
2638.0	152	10817	1.00	46	49	108	154	1569
2638.5	176	13428	1.01	49	53	107	156	1877
2639.0	201	16320	1.02	52	56	106	158	2213
2639.5	228	19044	1.03	58	62	102	160	2537
2640.0	260	21487	1.04	69	73	96	165	2798
2640.5	301	25948	1.10	97	101	83	180	2869
2641.0	356	31217	1.19	125	128	70	195	3133
2641.5	425	37483	1.29	150	153	58	207	3589
2642.0	504	44876	1.35	163	167	45	208	4311
2642.5	589	53316	1.40	177	181	32	209	5148
2643.0	680	63511	1.39	184	188	27	211	6305
2643.5	772	75300	1.34	185	190	27	212	7738
2644.0	865	87694	1.31	186	192	26	213	9226
2644.5	959	101009	1.29	189	195	25	214	10795



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=H AT DISTANCE= 7690

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2645.0	1054	115284	1.26	192	198	23	215	12465
2645.5	1150	130581	1.24	194	200	22	216	14254
2646.0	1248	146796	1.22	196	203	20	216	16135
2646.5	1346	163996	1.21	198	205	19	217	18127
2647.0	1446	182079	1.19	200	207	18	218	20204
2647.5	1547	201031	1.18	202	209	16	218	22363
2648.0	1648	220837	1.17	204	211	15	219	24601
2648.5	1750	241609	1.16	205	213	14	219	26950
2649.0	1853	263202	1.15	207	215	13	220	29374
2649.5	1957	285604	1.14	208	217	11	220	31872
2650.0	2073	279921	1.37	297	306	10	308	26551
2650.5	2227	303755	1.39	318	327	9	327	28396
2651.0	2391	329351	1.40	336	347	8	346	30435
2651.5	2566	356252	1.42	361	371	7	368	32492
2652.0	2756	381377	1.48	406	415	6	434	33480
2652.5	2968	413574	1.50	430	440	5	435	36163
2653.0	3184	451824	1.47	432	442	3	436	40414
2653.5	3400	491999	1.44	434	444	2	437	44895
2654.0	3618	534053	1.42	436	447	1	438	49594
2654.5	3837	577946	1.39	439	449	0	439	54503
2655.0	4056	624473	1.37	440	451	0	440	59704
2655.2	4144	643562	1.36	440	451	0	440	61836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=I AT DISTANCE= 8710

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2637.5	8	87	1.00	30	30	265	295	23
2638.0	23	513	1.00	32	32	264	295	114
2638.5	40	1243	1.00	33	34	263	296	247
2639.0	56	2360	1.00	34	35	263	296	410
2639.5	73	3821	1.00	35	37	262	298	600
2640.0	91	5327	1.00	37	39	262	299	815
2640.5	110	6922	1.00	40	42	260	300	1041
2641.0	131	8732	1.00	43	46	258	301	1292
2641.5	153	10603	1.00	46	49	256	302	1576
2642.0	177	13149	1.00	50	53	253	303	1894
2642.5	203	15784	1.00	53	56	251	304	2246
2643.0	232	19013	1.01	67	70	238	305	2434
2643.5	270	22873	1.07	87	90	219	306	2607
2644.0	319	27297	1.16	107	111	200	307	2895
2644.5	385	32320	1.31	157	161	42	308	2980
2645.0	476	38496	1.50	208	211	38	309	3336



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=I AT DISTANCE= 8710

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2645.5	604	46286	1.73	276	280	34	310	3851
2646.0	744	57389	1.71	281	285	30	311	5243
2646.5	885	71026	1.59	286	290	26	312	6997
2647.0	1029	87790	1.44	289	293	24	313	9191
2647.5	1174	108133	1.29	291	296	22	314	11790
2648.0	1321	127889	1.23	294	299	21	315	14343
2648.5	1468	149051	1.18	297	302	19	316	17054
2649.0	1617	171645	1.14	299	305	17	317	19930
2649.5	1768	195675	1.12	302	308	16	319	22956
2650.0	1919	221200	1.09	305	311	14	319	26122
2650.5	2073	248191	1.07	308	314	13	321	29418
2651.0	2227	276813	1.06	310	316	11	322	32871
2651.5	2383	306981	1.05	313	319	11	323	36464
2652.0	2540	338910	1.04	314	321	10	324	40184
2652.5	2697	372705	1.03	315	322	9	324	44038
2653.0	2855	407784	1.03	316	324	8	324	48004
2653.5	3013	444123	1.02	317	325	7	324	52081
2654.0	3171	481697	1.02	318	327	6	324	56266
2654.5	3330	520483	1.02	318	328	6	324	60557
2655.0	3490	560459	1.02	319	330	5	324	64951
2655.5	3650	601605	1.01	320	331	4	324	69447
2656.0	3810	643903	1.01	321	333	3	324	74042
2656.5	3970	687335	1.01	322	334	2	324	78735
2657.0	4131	731857	1.01	323	335	1	324	83524
2657.5	4293	777539	1.01	323	337	1	324	88407
2657.9	4422	814840	1.01	324	338	0	324	92381

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=J AT DISTANCE= 10335

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2643.0	14	299	1.00	18	18	149	167	66
2643.5	24	656	1.00	23	23	146	169	137
2644.0	36	1202	1.00	27	28	142	170	236
2644.5	51	1941	1.00	32	33	138	170	363
2645.0	69	2913	1.01	40	42	107	170	510
2645.5	92	4244	1.04	51	52	106	171	689
2646.0	120	5870	1.07	60	62	104	171	922
2646.5	152	7942	1.10	69	71	103	171	1225
2647.0	187	10726	1.11	71	73	101	172	1637
2647.5	223	13776	1.13	76	79	96	172	2029
2648.0	266	17061	1.22	96	100	77	173	2269
2648.5	319	21023	1.30	116	120	57	173	2628



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=J AT DISTANCE= 10335

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2649.0	378	25989	1.31	119	122	55	174	3347
2649.5	475	32065	1.45	283	287	54	556	2895
2650.0	629	41097	1.59	353	357	52	558	3774
2650.5	825	53665	1.64	433	438	50	560	5040
2651.0	1062	70563	1.60	513	518	48	562	6846
2651.5	1320	97523	1.34	517	522	47	564	10347
2652.0	1579	131745	1.16	521	525	45	565	14493
2652.5	1840	166046	1.10	524	529	43	567	18636
2653.0	2103	204336	1.07	527	533	42	569	23066
2653.5	2367	246470	1.05	530	535	41	571	27757
2654.0	2633	292128	1.03	533	538	40	573	32671
2654.5	2900	341150	1.03	536	542	39	575	37796
2655.0	3169	393485	1.02	539	545	38	577	43134
2655.5	3444	441680	1.02	560	566	38	631	47984
2656.0	3729	493248	1.02	581	587	37	645	53124
2656.5	4028	540207	1.02	619	626	36	660	57775
2657.0	4343	600483	1.02	640	646	35	675	63605
2657.5	4667	667176	1.01	655	662	34	689	70159
2658.0	4998	737493	1.01	670	677	33	703	76916
2658.5	5336	815884	1.01	678	686	33	711	84349
2659.0	5676	900869	1.01	682	690	32	714	92285
2659.5	6018	989483	1.01	686	694	31	717	100453
2660.0	6364	1074975	1.02	698	706	22	720	107960
2660.5	6715	1169717	1.02	704	711	20	723	116408
2661.0	7068	1268408	1.02	709	717	17	726	125107
2661.5	7423	1372154	1.03	713	721	15	728	134129
2662.0	7781	1479442	1.03	717	725	12	729	143362
2662.5	8140	1590236	1.03	721	729	10	731	152803
2663.0	8502	1704496	1.03	725	733	7	732	162451
2663.5	8865	1822194	1.04	729	737	5	733	172303
2664.0	9231	1943293	1.04	733	742	2	735	182358
2664.4	9524	2042588	1.04	736	745	0	736	190545

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=K AT DISTANCE= 11705

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2649.0	18	434	1.00	24	25	295	319	87
2649.5	31	1022	1.00	26	27	294	320	189
2650.0	45	1883	1.02	30	31	26	320	307
2650.5	61	3038	1.04	34	36	25	321	451
2651.0	79	4349	1.06	39	41	24	321	626
2651.5	100	5670	1.06	45	48	23	321	814



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=K AT DISTANCE= 11705

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	125	6993	1.07	59	62	22	323	1004
2652.5	160	8874	1.08	77	80	20	324	1250
2653.0	206	11055	1.21	125	129	18	325	1360
2653.5	288	15083	1.30	243	246	16	327	1558
2654.0	469	22295	1.54	431	435	14	534	2235
2654.5	714	34738	1.53	522	526	13	536	3629
2655.0	975	55199	1.25	524	528	13	537	6764
2655.5	1238	85331	1.09	526	531	13	538	10307
2656.0	1501	117091	1.05	528	533	12	540	14017
2656.5	1765	152101	1.03	529	535	12	541	18008
2657.0	2031	190909	1.02	531	537	11	542	22288
2657.5	2297	233337	1.01	533	539	11	544	26840
2658.0	2563	279238	1.01	535	541	10	545	31654
2658.5	2831	328319	1.01	537	544	10	576	36705
2659.0	3101	379930	1.01	541	548	9	577	41955
2659.5	3372	434645	1.01	545	552	9	578	47443
2660.0	3646	490064	1.00	553	561	8	579	52983
2660.5	3925	548071	1.00	563	571	8	579	58720
2661.0	4209	609283	1.00	572	581	8	579	64703
2661.5	4495	678911	1.00	573	583	7	580	71368
2662.0	4782	751548	1.00	573	584	7	580	78243
2662.5	5068	827154	1.00	574	585	6	580	85329
2663.0	5356	905634	1.00	575	586	6	580	92614
2663.5	5643	985931	1.00	575	587	5	581	100095
2664.0	5931	1070991	1.00	576	589	5	581	107767
2664.5	6219	1157765	1.00	577	590	4	581	115625
2665.0	6508	1247206	1.00	577	591	4	581	123667
2665.5	6797	1339269	1.00	578	592	3	581	131888
2666.0	7086	1433912	1.00	579	594	3	582	140285
2666.5	7376	1531095	1.01	579	595	2	582	148855
2667.0	7665	1630784	1.01	580	596	2	582	157596
2667.5	7956	1732941	1.01	581	597	2	582	166503
2668.0	8246	1837534	1.01	581	598	1	583	175575
2668.5	8537	1944528	1.01	582	600	1	583	184809
2669.0	8828	2053895	1.01	583	601	0	583	194202
2669.2	8945	2098296	1.01	583	601	0	583	198003



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=L-T\* AT DISTANCE= 12858

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2651.0	13	257	1.00	21	21	643	664	59
2651.5	24	655	1.00	24	24	641	665	138
2652.0	37	1217	1.00	27	28	640	667	245
2652.5	51	1974	1.00	29	30	638	667	383
2653.0	66	2933	1.00	31	32	637	668	547
2653.5	82	4196	1.00	33	34	636	669	739
2654.0	99	5751	1.00	34	36	635	669	956
2654.5	116	7543	1.00	36	38	634	670	1192
2655.0	135	9645	1.00	37	40	634	671	1450
2655.5	154	12089	1.00	39	42	633	672	1732
2656.0	174	14477	1.00	41	44	632	673	2037
2656.5	195	16977	1.00	42	46	632	674	2365
2657.0	216	19680	1.00	44	48	631	675	2718
2657.5	239	22590	1.00	46	49	630	676	3094
2658.0	273	26011	1.07	105	109	579	584	2410
2658.5	342	30918	1.30	159	163	547	706	2502
2659.0	428	36937	1.51	200	204	389	707	2890
2659.5	547	44372	1.79	276	280	361	709	3271
2660.0	751	53957	2.30	482	487	229	711	3500
2660.5	1001	70345	2.29	515	519	198	713	5228
2661.0	1262	92305	2.03	528	532	186	714	7771
2661.5	1529	118485	1.78	541	546	175	716	10912
2662.0	1803	147036	1.65	554	559	164	718	14426
2662.5	2083	178968	1.52	567	572	152	720	18373
2663.0	2371	213936	1.43	582	586	143	721	22663
2663.5	2671	250493	1.40	617	622	135	722	26637
2664.0	2982	293094	1.34	627	632	127	724	31852
2664.5	3298	338876	1.30	636	642	118	725	37403
2665.0	3618	387780	1.26	646	651	110	726	43271
2665.5	3944	439560	1.23	657	662	102	728	49374
2666.0	4276	494057	1.21	671	676	94	729	55551
2666.5	4615	551777	1.20	685	690	87	732	62017
2667.0	4961	612602	1.19	699	704	80	734	68753
2667.5	5313	676523	1.18	713	718	73	736	75750
2668.0	5673	743541	1.17	727	732	66	738	83033
2668.5	6040	813652	1.17	741	746	59	740	90577
2669.0	6413	888440	1.16	748	754	52	742	99015
2669.5	6788	966574	1.15	755	761	46	744	107771
2670.0	7167	1048186	1.14	761	768	40	746	116853
2670.5	7549	1132755	1.13	767	774	34	748	126202
2671.0	7934	1220261	1.13	773	781	28	750	135814
2671.5	8323	1310681	1.12	779	787	22	752	145687
2672.0	8714	1402625	1.12	787	795	14	754	155682
2672.5	9110	1495287	1.11	796	805	5	756	165736
2673.0	9510	1595403	1.11	802	811	0	758	176499



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100,500  
 SECID=L-TV AT DISTANCE= 12858

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2673.5	9910	1704849	1.10	802	812	0	802	188166
2674.0	10311	1817176	1.10	802	813	0	802	200059
2674.1	10391	1839950	1.10	802	813	0	802	202461

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100,500  
 SECID=BO-LM AT DISTANCE= 12858

A-M  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2650.0	8	138	1.00	14	14	9	24	32
2650.5	16	382	1.00	19	19	7	26	83
2651.0	27	784	1.00	23	23	6	29	163
2651.5	39	1346	1.00	26	27	5	31	269
2652.0	53	2083	1.00	29	30	4	33	404
2652.5	67	3039	1.00	29	31	4	33	575
2653.0	82	4129	1.00	30	32	3	33	767
2653.5	99	5195	1.00	33	36	0	33	964
2654.0	115	6618	1.00	33	37	0	33	1217
2654.5	132	8147	1.00	34	38	0	34	1488
2655.0	149	9773	1.00	34	39	0	34	1778
2655.5	166	11488	1.00	34	41	0	34	2085
2656.0	183	13283	1.00	34	42	0	34	2408
2656.5	200	15153	1.00	34	43	0	34	2746
2657.0	211	11207	1.00	0	77	0	34	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100,500  
 SECID=M-APP AT DISTANCE= 12906

A-M  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	37	1166	1.00	29	29	620	649	237
2652.5	52	1969	1.00	30	31	619	650	384
2653.0	67	2973	1.00	32	33	619	650	556
2653.5	83	4274	1.00	33	34	618	651	751
2654.0	100	5926	1.00	34	36	617	652	969
2654.5	117	8033	1.01	36	38	617	652	1206
2655.0	136	10647	1.02	37	39	616	653	1461
2655.5	154	13122	1.03	38	41	616	654	1732
2656.0	174	15738	1.04	40	43	615	655	2021
2656.5	194	18568	1.06	41	44	614	655	2327
2657.0	216	21630	1.08	50	54	607	657	2446
2657.5	249	25105	1.18	92	96	570	662	2142
2658.0	306	29570	1.36	126	129	542	668	2321



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=M-APP AT DISTANCE= 12906

A-M  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2658.5	348	34983	1.63	199	203	208	671	2399
2659.0	501	42636	1.85	249	253	188	672	2957
2659.5	653	51132	2.22	388	392	174	673	3227
2660.0	874	65418	2.31	487	491	159	674	4368
2660.5	1133	88332	1.98	529	533	147	676	6679
2661.0	1399	122545	1.53	538	543	139	677	10334
2661.5	1671	156658	1.38	547	552	131	679	14104
2662.0	1947	195141	1.27	557	561	123	680	18299
2662.5	2229	237054	1.21	572	577	116	729	22650
2663.0	2520	283178	1.17	590	595	108	730	27257
2663.5	2822	331953	1.16	630	635	100	730	31405
2664.0	3138	389044	1.13	636	641	95	731	37129
2664.5	3457	449974	1.12	641	647	90	731	43120
2665.0	3779	514911	1.10	647	653	85	731	49397
2665.5	4104	583760	1.09	652	659	80	732	55950
2666.0	4432	656441	1.08	658	664	74	732	62771
2666.5	4762	732886	1.07	664	670	69	733	69552
2667.0	5095	813047	1.07	669	676	64	733	77195
2667.5	5431	896859	1.06	675	682	59	734	84790
2668.0	5770	984272	1.06	680	688	54	734	92633
2668.5	6111	1074916	1.06	686	694	49	734	100695
2669.0	6456	1167718	1.05	693	701	42	735	108902
2669.5	6804	1264004	1.05	700	708	35	735	117355
2670.0	7156	1363751	1.05	707	716	28	736	126050
2670.5	7511	1466953	1.05	714	723	22	736	134987
2671.0	7870	1573592	1.05	721	731	15	736	144164
2671.5	8233	1683659	1.04	729	738	8	737	152580
2672.0	8599	1797148	1.04	736	745	1	737	163233
2672.5	8967	1922356	1.04	737	748	0	737	173709
2673.0	9336	2053041	1.04	738	749	0	738	184540
2673.5	9705	2187125	1.04	738	750	0	738	195577
2674.0	10075	2324560	1.04	739	751	0	739	206818
2674.5	10444	2465292	1.04	739	752	0	739	218258
2675.0	10814	2609280	1.04	739	753	0	739	229895
2675.5	11183	2756482	1.04	740	755	0	740	241725
2675.8	11405	2846261	1.04	740	755	0	740	248910



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 24,DATE= 1/16/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

A-M

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

:  
ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50.100.500 A-M  
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
A	AT	1040	0	3390.	1005.	50100.	1.70	174.	890.
2622.31	0.30			2622.61	3.37	0.41		*IS*	
B	AT	2650	1610	3390.	1113.	72925.	1.56	150.	731.
2626.61	0.23	4.22	0.0	2626.83	3.05	0.32	-0.002	*XS*	
C	AT	3720	1070	3390.	875.	57173.	1.21	82.	508.
2629.54	0.28	2.95	0.03	2629.82	3.87	0.44	0.012	*XS*	
D	AT	5095	1375	3390.	989.	66856.	1.21	97.	541.
2633.74	0.22	4.13	0.0	2633.97	3.43	0.44	0.009	*XS*	
E	AT	6020	925	3390.	773.	59140.	1.17	50.	343.
2636.38	0.35	2.69	0.06	2636.73	4.39	0.39	0.006	*XS*	
F-TW	AT	6805	735	3390.	523.	55724.	1.00	66.	153.
2638.96	0.65	2.74	0.15	2639.62	6.48	0.46	0.001	*XS*	
===== BEGIN BRIDGE ANALYSIS =====									
BR-FG	AT	6805		3390.	503.	49590.	1.00	0.	92.
2638.96	0.71		...1...	(-.001)	6.74	0.50		*RG*	
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / =====									
APP-G	AT	7045	240	3390.	460.	46952.	1.00	13.	94.
2639.92	0.84	1.05	0.10	2640.77	7.37	0.54	0.000	*AS*	
M = 0.0 / E = 1.00 / K* = 0.01 / 461. / 47014. / 1.00 / 13. / 94.									
2639.93	0.84			2640.77	7.36	0.54		*AS*	
===== END BRIDGE ANALYSIS =====									
H	AT	7690	645	3170.	636.	58313.	1.40	27.	210.
2642.76	0.54	2.53	0.0	2643.30	4.99	0.42	0.001	*XS*	
I	AT	8710	1020	3170.	727.	55974.	1.72	30.	311.
2645.94	0.51	3.14	0.0	2646.45	4.36	0.43	0.008	*XS*	
J	AT	10335	1625	3170.	963.	63124.	1.64	49.	561.
2650.80	0.28	4.62	0.0	2651.08	3.29	0.35	0.005	*XS*	
K	AT	11705	1370	3170.	946.	53365.	1.27	13.	537.
2654.94	0.22	4.09	0.0	2655.17	3.35	0.43	0.001	*XS*	
L-TW	AT	12858	1153	3170.	547.	44366.	1.79	361.	709.
2659.50	0.93	4.89	0.35	2660.43	5.79	0.55	0.017	*XS*	
===== BEGIN BRIDGE ANALYSIS =====									
BO-LM	AT	12858		1576.	211.	11207.	1.00	0.	34.
2657.00	0.86		...3...	(-.001)	7.45	0.53		*BO*	

ASK SW run →  
for FHF comp.

Errors: Recur



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50.100.500 A-M  
PAGE 2 OF 2. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
=====																		
EMBRANKMENT OVERFLOW (CFS) / LEFT 142. / RIGHT 150. / *PG*																		
=====																		
M-APP	WT	12906	/	48	/	3170.	/	982.	/	73374.	/	2.26	/	153.	/	575.		
		2660.21	/	0.37	/	0.15	/	0.0	/	2660.58	/	3.23	/	0.35	/	0.000		*AS*
=====																		
M =	****	/	E =	****	/	x* =	****	/	1214.	/	97760.	/	1.83	/	144.	/	676.	
		2660.65	/	0.19	/		/	2660.25	/	2.61	/	0.27	/		/			*AS*
=====																		
END BRIDGE ANALYSIS																		
=====																		

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 27,DATE= 1/16/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50,100.500  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

A-M

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

H : KU/KD < 0.7 OR > 1.4

ALERTED USER

M-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50 100.500 A-M  
 PAGE 1 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DIS	LEN	DIS	AREA	CONV	ALPH	LEW	REW
MS ELEV	HV	HF	HE	EG	V	FN	ACC	*TD*	
A	AT	1040	0	5670	1539	100279	1.53	157	892
2623.08	0.32			2623.38	3.69	0.43		*IS*	
B	AT	2650	1610	5670	1545	121519	1.22	124	732
2627.40	0.24	4.25	0.0	2627.64	3.58	0.38	0.014	*XS*	
C	AT	3720	1070	5670	1206	95778	1.06	81	515
2639.30	0.36	2.96	0.06	2639.67	4.70	0.51	0.009	*XS*	
D	AT	5095	1375	5670	1374	109789	1.08	91	556
2634.59	0.29	4.29	0.0	2634.88	4.13	0.39	0.005	*XS*	
E	AT	6020	925	5670	1052	96004	1.04	49	345
2637.38	0.47	2.82	0.09	2637.79	5.39	0.52	0.001	*XS*	
F-TM	AT	6805	785	5670	853	76495	1.00	62	156
2640.41	1.17	3.44	0.35	2641.58	8.68	0.58	0.001	*XS*	
***** MARGIN BRIDGE ANALYSIS *****									
HQ-FG	AT	6805		5670	832	71052	1.00	0	92
2641.58	1.25		1.05		8.76	0.69		*XS*	
***** EMBANKMENT OVERFLOW (CFS) / LEFT RIGHT *****									
APP-R	AT	7045	240	5670	614	71440	1.00	12	100
2641.74	1.33	1.41	0.08	2643.07	9.23	0.62	-0.000	*XS*	
***** END BRIDGE ANALYSIS *****									
H	AT	7690	645	5350	1046	114098	1.26	23	215
2644.76	0.51	2.49	0.0	2645.17	5.11	0.30	0.000	*XS*	
I	AT	8710	1020	5350	1163	106344	1.30	22	314
2647.66	0.43	2.41	0.0	2647.89	4.60	0.40	0.007	*XS*	
J	AT	10335	1925	5350	1401	108007	1.26	46	564
2651.66	0.29	4.05	0.0	2651.94	3.82	0.35	0.008	*XS*	
K	AT	11705	1370	5350	1293	92083	1.08	12	539
2655.60	0.29	3.94	0.00	2655.89	4.14	0.43	0.002	*XS*	
L-TM	AT	12858	1153	5350	975	68367	2.31	199	712
2660.45	1.18	5.24	0.46	2661.53	5.49	0.51	0.004	*XS*	
***** MARGIN BRIDGE ANALYSIS *****									
NO-LM	AT	12858		505	211	11207	1.00	0	34
2657.00	0.79		3.00	1.00	7.12	0.50		*XS*	

Use BW val  
for FHF comp.

Profile Point



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50 100.500 A-M  
PAGE 2 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	NS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
CRANKMENT OVERFLOW (CFS)		LEFT	3455.	RIGHT	328.												*26*
APP AT	12906	48	5350.	1643.	152973.	1.39	132.	679.	2661.45	0.23	0.13	0.0	2661.68	3.26	0.30	0.014	*45*
H = 0.000 / E = 0.000 / K0 = 0.000																	
H = 0.000 / E = 0.000 / K0 = 0.000																	
H = 0.000 / E = 0.000 / K0 = 0.000																	
***** END BRIDGE ANALYSIS *****																	

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 30,DATE= 1/16/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 A-M  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

H	: KU/KD < 0.7 OR > 1.4	:	
M-APP:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP:	MAX QRD < QT (3)	:	ALERTED USER
		:	CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100 500 A-M  
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	*ID*
A	AT	1040 / 2623.36	0 / 0.33	6760. /	1760. / 2623.69	119936. /	1.45 / 3.84	153. / 0.43	893. /	*IS*
B	AT	2650 / 2627.70	1610 / 0.26	6760. / 4.26	1772. / 2627.97	143848. /	1.16 / 3.82	114. / 0.40	733. / 0.009	*XS*
C	AT	3720 / 2630.62	1070 / 0.41	6760. / 2.99	1345. / 2631.03	113854. /	1.04 / 5.03	80. / 0.52	516. / 0.007	*XS*
D	AT	5095 / 2634.95	1375 / 0.32	6760. / 4.23	1542. / 2635.27	130805. /	1.06 / 4.39	88. / 0.40	561. / 0.007	*XS*
E	AT	6020 / 2637.71	925 / 0.53	6760. / 2.87	1167. / 2638.24	112863. /	1.02 / 5.79	48. / 0.54	346. / 0.000	*XS*
F-TW	AT	6805 / 2640.98	785 / 1.42	6760. / 3.71	707. / 2642.40	85600. /	1.00 / 9.57	61. / 0.62	157. / -0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
BR-ES	AT	6805 / 2640.98	/ 1.53	6760. / ...1...	682. / (-.001)	80175. /	1.00 / 9.91	0. / 0.63	92. /	*R0*
===== END BRIDGE ANALYSIS =====										
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *R0*										
AP0-G	AT	7045 / 2642.48	240 / 1.54	6760. / 1.55	680. / 2644.02	82668. /	1.00 / 9.95	11. / 0.64	102. / 0.008	*AS*
K = 0.0 / R = 1.00 / K* = 0.01 / 681. / 82977. / 1.00 / 11. / 102. / 2642.49 / 1.53 / / 2644.02 / 9.93 / 0.64 / *AS*										
===== END BRIDGE ANALYSIS =====										
H	AT	7695 / 2645.87	645 / 0.52	6390. / 2.36	1222. / 2646.39	142351. /	1.23 / 5.23	20. / 0.37	216. / 0.001	*XS*
I	AT	8710 / 2648.16	1020 / 0.41	6390. / 2.18	1366. / 2648.57	134311. /	1.21 / 4.68	20. / 0.38	315. / 0.000	*XS*
J	AT	10335 / 2652.01	1625 / 0.29	6390. / 3.73	1585. / 2652.30	132487. /	1.16 / 4.03	45. / 0.41	565. / 0.007	*XS*
K	AT	11705 / 2655.88	1370 / 0.32	6390. / 3.87	1437. / 2656.20	109160. /	1.06 / 4.45	12. / 0.44	539. / 0.015	*XS*
L-TW	AT	12858 / 2660.78	1153 / 1.04	6390. / 5.25	1147. / 2661.82	82102. /	2.15 / 5.57	191. / 0.61	714. / 0.007	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
BO-LH	AT	12858 / 2657.00	/ 0.81	6390. / ...3...	1525. / (-.001)	11207. /	1.00 / 7.21	0. / 0.51	34. /	*R0*

use BW run  
for FHT comp.



Errors: None



No structure  
100-yr high  
vel. to high



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100 500 A-M  
PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 4533. / RIGHT 434. / *RG*
=====
M-APP AT 12906 / 48 / 6390. / 1775. / 170717. / 1.33 / 128. / 679.
2661.69 / 0.27 / 0.14 / 0.0 / 2661.96 / 3.60 / 0.33 / -0.002 *AS*
=====
M = **** / E = **** / K* = **** / 1834. / 178992. / 1.31 / 127. / 679.
2661.80 / 0.25 / / 2662.04 / 3.48 / 0.32 / *AS*
=====
END BRIDGE ANALYSIS =====
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 33,DATE= 1/16/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

A-M

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

F-TW : KU/KD < 0.7 OR > 1.4

:

ALERTED USER

H : KU/KD < 0.7 OR > 1.4

:

ALERTED USER

M-APP: KU/KD < 0.7 OR > 1.4

:

ALERTED USER

M-APP: MAX QBO < QT (3)

:

CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100 (500) A-M  
 PAGE 1 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISCH	AREA	CONVEY	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
A	1040	0	9600.	2259.	171652.	1.30	144.	894.									
	2624.03	0.36		2624.39	4.25	0.39										*IS*	
B	2650	1610	9500.	2207.	200395.	1.08	100.	734.									
	2628.40	0.32	4.31	0.0	2628.72	4.35	0.43	0.008								*XS*	
C	3720	1070	9600.	1674.	160058.	1.02	44.	518.									
	2631.37	0.52	3.07	0.10	2631.89	5.74	0.55	0.000								*XS*	
D	5095	1375	9600.	1941.	185372.	1.03	82.	574.									
	2635.78	0.39	4.27	0.0	2636.17	4.95	0.42	0.006								*XS*	
E	6020	925	9600.	1428.	155507.	1.00	47.	349.									
	2638.58	0.70	2.96	0.16	2639.28	6.72	0.58	0.002								*XS*	
F-TW	6805	785	9600.	829.	107527.	1.00	58.	160.									
	2642.22	2.09	4.33	0.69	2644.30	11.58	0.71	0.001								*XS*	
===== BEGIN BRIDGE ANALYSIS =====																	
BR-FG	6805		9600.	792.	101282.	1.00	0.	92.									
	2642.22	2.28	...	1...	(-.001)	12.12	0.72									*R0*	
===== END BRIDGE ANALYSIS =====																	
EMBANKMENT OVERFLOW (CFS)	LEFT		0.		RIGHT		0.										*RG*
APP-G	7045	240	9600.	826.	112460.	1.01	10.	107.									
	2644.04	2.11	1.83	0.01	2646.15	11.62	0.69	0.008								*AS*	
	M = 0.00	E = 0.01	K* = 0.01	829.	113001.	1.01	10.	107.									
	2644.07	2.10			2646.17	11.58	0.68									*AS*	
H	7690	645	9000.	1628.	216843.	1.17	15.	219.									
	2647.90	0.57	2.30	0.0	2648.47	5.59	0.36	0.000								*XS*	
I	8710	1020	9100.	1883.	215047.	1.10	15.	319.									
	2649.88	0.40	1.81	0.0	2650.28	4.83	0.32	-0.000								*XS*	
J	10335	1625	9100.	2113.	205795.	1.07	42.	569.									
	2653.02	0.31	3.04	0.0	2653.33	4.31	0.40	0.004								*XS*	
K	11705	1370	9100.	1783.	154526.	1.03	12.	541.									
	2656.53	0.42	3.57	0.06	2656.95	5.10	0.46	0.002								*XS*	
L-TW	12858	1153	9100.	1523.	117936.	1.79	175.	716.									
	2661.49	0.99	5.24	0.29	2662.48	5.97	0.62	0.005								*XS*	
===== BEGIN BRIDGE ANALYSIS =====																	
RO-LM	12858		1504.	211.	11207.	1.00	0.	34.									
	2657.00	0.79	...	3...	(-.001)	7.11	0.50									*R0*	

Use BW run for FHP comp.



Errors. Review





WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10+50+100+500  
PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / IN / ACC *10*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 6804. / RIGHT 571. / *RG*
=====
M-APP AT 12906 / 45 / 9100. / 2101. / 217609. / 1.24 / 119. / 684.
2662.28 / 0.36 / 0.15 / 0.0 / 2662.64 / 4.33 / 0.39 / -0.001 *AS*
=====
K = **** / S = **** / Z* = **** / 2160. / 226544. / 1.23 / 118. / 686.
2662.38 / 0.34 / / 2662.72 / 4.21 / 0.37 / *AS*
=====
END BRIDGE ANALYSIS =====
```

END OF THIS PROFILE



\*\*\* INPUT CARD PRINTOUT \*\*\*

1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0							
1	1	COVE CREEK LOWER 10,50,100,500			I-N	4	02 09 10
2	2	264594 264746 264816 264988					
3	1100	1 19 2 2639 8710 99 99					
4	1101	3170 5350 6390 9100					
5	1105	0 1 26579 12 1 26507 23 1 26473 25 1 26466 46 1 26440					
5	1106	100 1 26452 150 1 26451 200 1 26440 250 2 26427 262 2 26401					
5	1107	264 2 26376 270 2 26372 278 2 26373 290 2 26371 295 2 26373					
5	1108	295 2 26388 305 2 26329 316 2 26487 324 2 26518					
6	1115	1 3 050 045 1 2 055 045					
3	1200	J 0 29 3 2643 10335 99 99					
5	1205	0 1 26644 23 1 26599 31 1 26595 42 1 26528 57 1 26485					
5	1206	100 1 26474 138 1 26448 120 1 26464 139 2 26452 142 2 26442					
5	1207	148 2 26432 156 2 26420 165 2 26420 170 2 26441 171 2 26462					
5	1208	175 3 26499 200 3 26499 300 3 26510 400 3 26494 500 3 26492					
5	1209	555 3 26492 572 3 26538 582 3 26551 606 3 26556 616 3 26550					
5	1210	669 3 26568 709 3 26582 726 3 26609 736 3 26544					
6	1215	2 4 065 050 1 2 055 050 1 2 045 035					
3	1300	K 0 30 3 2649 11705 99 99					
5	1305	0 1 26692 14 1 26639 22 1 26519 27 1 26495 35 1 26518					
5	1306	50 1 26528 100 1 26531 150 1 26539 200 1 26543 250 2 26541					
5	1307	290 2 26513 294 2 26495 295 2 26490 299 2 26482 307 2 26479					
5	1308	315 2 26403 320 2 26491 321 2 26514 326 3 26532 350 3 26540					
5	1309	400 3 26535 450 3 26535 500 3 26534 534 3 26539 553 3 26510					
5	1310	573 3 26596 576 3 26584 579 3 26603 580 3 26620 583 3 26692					
6	1315	1 2 045 040 1 2 050 045 1 2 045 035					
3	1400	L-Tw 0 30 3 2651 12858 99 99					
5	1405	0 1 26728 18 1 26728 48 1 26693 100 1 26656 150 1 26626					
5	1406	200 1 26604 250 1 26597 300 1 26596 350 1 26597 400 1 26588					
5	1407	450 1 26596 500 1 26600 550 1 26584 600 1 26577 630 2 26578					
5	1408	636 2 26533 639 2 26522 644 2 26506 649 2 26503 661 2 26502					
5	1409	667 2 26521 669 2 26539 677 3 26579 705 3 26577 722 3 26632					
5	1410	746 3 26633 750 3 26625 757 3 26654 800 3 26645 802 3 26741					
6	1415	1 2 050 045 2 4 055 045 1 2 065 065					
3	1500	RD-LM 2 11 1 2650 12858 0 26569 1 0					
5	1505	0 1 26567 0 1 26530 3 1 26530 6 1 26507 12 1 26495					
5	1506	16 1 26495 18 1 26488 26 1 26505 33 1 26519 34 1 26570					
5	1507	0 2 26567					
6	1515	1 2 055 055					
3	1551	RD-LM 4 15 2 18 1 2 2 2					
5	1555	0 1 26724 38 1 26703 88 2 26675 140 1 26539 150 1 26633					
5	1556	200 1 26604 250 1 26599 300 1 26596 350 1 26596 400 1 26600					
5	1557	450 1 26605 500 1 26608 550 1 26598 600 1 26587 647 1 26589					
5	1558	665 2 26591 683 2 26590 735 2 26630 757 2 26634					
3	1600	M-APP 5 29 5 2652 12906 2 4					
5	1605	0 1 26721 50 1 26684 100 1 26635 150 1 26603 200 1 26596					

I - N 10, 50, 100, 500  
Good







PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10.50,100.500 I-N

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
B0-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	



INPUT SUMMARY FOR: COVE CREEK LOWER 10.50.100.50G I-N

8 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT 8 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERLY COMPUTATIONS

8 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=I AT DISTANCE= 8710I-N  
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2639.0	56	2360	1.00	34	35	263	296	410
2639.5	73	3821	1.00	35	37	262	298	600
2640.0	91	5327	1.00	37	39	262	299	815
2640.5	110	6922	1.00	40	42	260	300	1041
2641.0	131	8732	1.00	43	46	258	301	1292
2641.5	153	10803	1.00	46	49	256	302	1576
2642.0	177	13149	1.00	50	53	253	303	1894
2642.5	203	15784	1.00	53	56	251	304	2246
2643.0	232	19013	1.01	67	70	238	305	2434
2643.5	270	22873	1.07	87	90	219	306	2607
2644.0	319	27297	1.16	107	111	200	307	2895
2644.5	385	32320	1.31	157	161	42	308	2980
2645.0	476	38496	1.50	208	211	38	309	3336
2645.5	604	46286	1.73	276	280	34	310	3851
2646.0	744	57389	1.71	281	285	30	311	5243
2646.5	885	71026	1.59	286	290	26	312	6997
2647.0	1029	87790	1.44	289	293	24	313	9191
2647.5	1174	108133	1.29	291	296	22	314	11790
2648.0	1321	127889	1.23	294	299	21	315	14343
2648.5	1468	149051	1.18	297	302	19	316	17054
2649.0	1617	171645	1.14	299	305	17	317	19930
2649.5	1768	195675	1.12	302	308	16	318	22956
2650.0	1919	221200	1.09	305	311	14	319	26122
2650.5	2073	248191	1.07	308	314	13	321	29418
2651.0	2227	276813	1.06	310	316	11	322	32871
2651.5	2383	306981	1.05	313	319	11	323	36464
2652.0	2540	338910	1.04	314	321	10	324	40184
2652.5	2697	372705	1.03	315	322	9	324	44038
2653.0	2855	407784	1.03	316	324	8	324	48004
2653.5	3013	444123	1.02	317	325	7	324	52081
2654.0	3171	481697	1.02	318	327	6	324	56266
2654.5	3330	520483	1.02	318	328	6	324	60557
2655.0	3490	560459	1.02	319	330	5	324	64951
2655.5	3650	601605	1.01	320	331	4	324	69447
2656.0	3810	643903	1.01	321	333	3	324	74042
2656.5	3970	687336	1.01	322	335	2	324	78735
2657.0	4131	731887	1.01	323	335	1	324	83524
2657.5	4293	777539	1.01	323	337	1	324	88407
2657.9	4422	814840	1.01	324	338	0	324	92381



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=J AT DISTANCE= 10335I-N  
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2643.0	14	299	1.00	18	18	149	167	66
2643.5	24	656	1.00	23	23	146	169	137
2644.0	36	1202	1.00	27	28	142	170	236
2644.5	51	2049	1.00	30	31	140	170	375
2645.0	66	3155	1.01	33	35	107	170	528
2645.5	85	4448	1.06	44	46	106	171	651
2646.0	110	6058	1.17	57	60	104	171	803
2646.5	142	8031	1.27	69	71	103	171	1029
2647.0	177	10457	1.30	71	74	101	172	1396
2647.5	213	13132	1.32	76	80	96	172	1758
2648.0	256	15894	1.43	96	100	77	173	1981
2648.5	309	19290	1.52	116	120	57	173	2319
2649.0	368	23883	1.48	119	123	55	174	3028
2649.5	465	29954	1.55	283	288	54	556	2716
2650.0	619	39010	1.63	353	357	52	558	3642
2650.5	815	51811	1.64	433	438	50	560	4959
2651.0	1052	69185	1.57	513	518	48	562	6812
2651.5	1310	95878	1.32	517	522	47	564	10309
2652.0	1569	129476	1.15	521	526	45	565	14439
2652.5	1830	163617	1.09	524	529	43	567	18583
2653.0	2093	201759	1.06	527	533	42	569	23007
2653.5	2358	243763	1.04	530	536	41	571	27686
2654.0	2623	289288	1.03	533	539	40	573	32586
2654.5	2890	338175	1.02	536	542	39	575	37696
2655.0	3159	390373	1.02	539	545	38	577	43019
2655.5	3434	438428	1.02	560	566	38	631	47875
2656.0	3719	489854	1.01	581	587	37	645	53019
2656.5	4018	536668	1.01	619	626	36	660	57693
2657.0	4334	596795	1.01	640	647	35	675	63606
2657.5	4657	663336	1.01	655	662	34	689	70078
2658.0	4988	733498	1.01	670	677	33	703	76833
2658.5	5326	811731	1.01	678	686	33	711	84258
2659.0	5666	896553	1.01	682	690	32	714	92181
2659.5	6008	985001	1.01	686	694	31	717	100337
2660.0	6355	1069558	1.02	698	706	22	720	107870
2660.5	6705	1163947	1.02	704	712	20	723	116311
2661.0	7058	1262272	1.02	709	717	17	726	125001
2661.5	7414	1365640	1.02	713	721	15	728	134012
2662.0	7771	1472538	1.03	717	725	12	729	143232
2662.5	8130	1582930	1.03	721	729	10	731	152661
2663.0	8492	1696777	1.03	725	733	7	732	162295
2663.5	8855	1814049	1.03	729	738	5	733	172134
2664.0	9221	1934712	1.04	733	742	2	735	182174
2664.4	9514	2033650	1.04	736	745	0	736	190350



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500  
 SECID=K AT DISTANCE= 11705

I-N  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2649.0	18	434	1.00	24	25	295	319	87
2649.5	31	1022	1.00	26	27	294	320	189
2650.0	45	1883	1.02	30	31	26	320	307
2650.5	61	3038	1.04	34	36	25	321	451
2651.0	79	4348	1.06	39	41	24	321	626
2651.5	100	5670	1.06	45	48	23	321	814
2652.0	125	6993	1.07	59	62	22	323	1004
2652.5	160	8874	1.08	77	80	20	324	1250
2653.0	206	11055	1.21	125	129	18	325	1360
2653.5	288	15083	1.30	243	246	16	507	1558
2654.0	459	22295	1.54	431	435	14	534	2235
2654.5	714	34738	1.53	522	526	13	536	3829
2655.0	975	56199	1.25	524	528	13	537	6764
2655.5	1238	85331	1.09	526	531	13	538	10307
2656.0	1501	117091	1.05	528	530	12	540	14017
2656.5	1765	152101	1.03	529	535	12	541	18008
2657.0	2031	190909	1.02	531	537	11	542	22288
2657.5	2297	233337	1.01	533	539	11	544	26840
2658.0	2563	279238	1.01	535	541	10	545	31654
2658.5	2831	323319	1.01	537	544	10	576	36705
2659.0	3101	379930	1.01	541	546	9	577	41955
2659.5	3372	434645	1.01	545	552	9	578	47443
2660.0	3646	490064	1.00	553	561	8	579	52983
2660.5	3925	548071	1.00	563	571	8	579	58720
2661.0	4209	609283	1.00	572	581	8	579	64703
2661.5	4495	678911	1.00	573	583	7	580	71368
2662.0	4782	751548	1.00	573	584	7	580	78243
2662.5	5068	827154	1.00	574	585	6	580	85329
2663.0	5356	905634	1.00	575	586	6	580	92614
2663.5	5643	986531	1.00	575	587	5	581	100095
2664.0	5931	1070991	1.00	576	589	5	581	107767
2664.5	6219	1157765	1.00	577	590	4	581	115625
2665.0	6508	1247206	1.00	577	591	4	581	123667
2665.5	6797	1339269	1.00	578	592	3	581	131888
2666.0	7086	1433912	1.00	579	594	3	582	140285
2666.5	7375	1531095	1.01	579	595	2	582	148855
2667.0	7665	1630784	1.01	580	596	2	582	157596
2667.5	7956	1732941	1.01	581	597	2	582	166503
2668.0	8246	1837534	1.01	581	598	1	583	175575
2668.5	8537	1944528	1.01	582	600	1	583	184809
2669.0	8828	2053895	1.01	583	601	0	583	194202
2669.2	8945	2098296	1.01	583	601	0	583	198063



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50,100.500  
 SECID=L-TW AT DISTANCE= 12858

I-N  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2651.0	13	257	1.00	21	21	643	664	59
2651.5	24	655	1.00	24	24	641	665	138
2652.0	37	1217	1.00	27	28	640	667	245
2652.5	51	1974	1.00	29	30	638	667	383
2653.0	66	2933	1.00	31	32	637	668	547
2653.5	82	4196	1.00	33	34	636	669	739
2654.0	99	5751	1.00	34	36	635	669	956
2654.5	116	7543	1.00	36	38	634	670	1192
2655.0	135	9645	1.00	37	40	634	671	1450
2655.5	154	12089	1.00	39	42	633	672	1732
2656.0	174	14477	1.00	41	44	632	673	2037
2656.5	195	16977	1.00	42	46	632	674	2365
2657.0	216	19680	1.00	44	48	631	675	2718
2657.5	239	22590	1.00	46	49	630	676	3094
2658.0	273	26011	1.07	105	109	579	684	2410
2658.5	342	30918	1.30	159	163	547	706	2502
2659.0	428	36937	1.51	200	204	389	707	2890
2659.5	547	44372	1.79	276	280	361	709	3271
2660.0	751	53957	2.30	482	487	229	711	3500
2660.5	1001	70345	2.29	515	519	198	713	5228
2661.0	1262	92305	2.03	528	532	186	714	7771
2661.5	1529	118485	1.78	541	546	175	716	10912
2662.0	1803	147036	1.63	554	559	164	718	14426
2662.5	2083	178908	1.52	567	572	152	720	18373
2663.0	2371	213936	1.43	582	586	143	751	22663
2663.5	2671	250493	1.40	617	622	135	752	26637
2664.0	2982	293094	1.34	627	632	127	754	31852
2664.5	3298	338876	1.30	636	642	118	755	37403
2665.0	3618	387780	1.26	646	651	110	756	43271
2665.5	3944	439560	1.23	657	662	102	758	49374
2666.0	4276	494957	1.21	671	676	94	765	55851
2666.5	4615	551977	1.20	685	690	87	772	62017
2667.0	4961	612602	1.19	699	704	80	779	68753
2667.5	5313	676525	1.18	713	718	73	786	75759
2668.0	5673	743541	1.17	727	732	66	793	83033
2668.5	6040	813652	1.17	741	746	59	800	90577
2669.0	6413	888440	1.16	748	754	52	800	99015
2669.5	6788	966574	1.15	755	761	46	800	107771
2670.0	7167	1048186	1.14	761	768	40	801	116853
2670.5	7549	1132755	1.13	767	774	34	801	126202
2671.0	7934	1220261	1.13	773	781	28	801	135814
2671.5	8323	1310681	1.12	779	787	22	801	145687
2672.0	8714	1402625	1.12	787	795	14	801	155682
2672.5	9110	1495387	1.11	796	805	5	801	165736
2673.0	9510	1595403	1.11	802	811	0	802	173499



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500  
 SECID=L-TW AT DISTANCE= 12858

I-N  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2673.5	9910	1704849	1.10	802	812	0	802	188166
2674.0	10311	1817176	1.10	802	813	0	802	200059
2674.1	10391	1839950	1.10	802	813	0	802	202461

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500  
 SECID=BO-LM AT DISTANCE= 12858

I-N  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2650.0	8	138	1.00	14	14	9	24	32
2650.5	16	382	1.00	19	19	7	26	83
2651.0	27	784	1.00	23	23	6	29	163
2651.5	39	1346	1.00	26	27	5	31	269
2652.0	53	2083	1.00	29	30	4	33	404
2652.5	67	3039	1.00	29	31	4	33	575
2653.0	82	4129	1.00	30	32	3	33	767
2653.5	99	5195	1.00	33	36	0	33	964
2654.0	115	6618	1.00	33	37	0	33	1217
2654.5	132	8147	1.00	34	38	0	34	1488
2655.0	149	9773	1.00	34	39	0	34	1778
2655.5	166	11488	1.00	34	41	0	34	2085
2656.0	183	13283	1.00	34	42	0	34	2408
2656.5	200	15153	1.00	34	43	0	34	2746
2657.0	211	11207	1.00	0	77	0	34	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500  
 SECID=M-APP AT DISTANCE= 12906

I-N  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	37	1166	1.00	29	29	620	649	237
2652.5	52	1969	1.00	30	31	619	650	384
2653.0	67	2973	1.00	32	33	619	650	556
2653.5	83	4274	1.00	33	34	618	651	751
2654.0	100	5926	1.00	34	36	617	652	969
2654.5	117	8033	1.01	36	38	617	652	1206
2655.0	136	10647	1.02	37	39	616	653	1461
2655.5	154	13122	1.03	38	41	616	654	1732
2656.0	174	15738	1.04	40	43	615	655	2021
2656.5	194	18568	1.06	41	44	614	655	2327
2657.0	216	21630	1.08	50	54	607	657	2446
2657.5	249	25105	1.18	92	96	570	662	2142
2658.0	306	29570	1.36	126	129	542	668	2321



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=M-APP AT DISTANCE= 12906

I-N  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2658.5	388	D 34983	1.63	199	203	208	671	2399
2659.0	501	42636	.85	249	253	188	672	2957
2659.5	653	51132	2.22	388	392	174	673	3227
2660.0	874	65418	2.31	487	491	159	675	4368
2660.5	1133	88332	1.98	529	533	147	676	6679
2661.0	1399	122545	1.53	538	543	139	677	10334
2661.5	1671	156658	1.38	547	552	131	679	14104
2662.0	1947	195141	1.27	557	561	123	680	18299
2662.5	2229	237054	1.21	572	577	116	729	22650
2663.0	2520	283178	1.17	590	595	108	730	27257
2663.5	2822	331953	1.16	630	635	100	730	31405
2664.0	3138	389044	1.13	636	641	95	731	37129
2664.5	3457	449974	1.12	641	647	90	731	43120
2665.0	3779	514911	1.10	647	653	85	731	49397
2665.5	4104	583760	1.09	652	659	80	732	55950
2666.0	4432	656441	1.08	658	664	74	732	62771
2666.5	4762	732886	1.07	664	670	69	733	69852
2667.0	5095	813047	1.07	669	676	64	733	77195
2667.5	5431	896859	1.06	675	682	59	734	84790
2668.0	5770	984272	1.06	680	688	54	734	92633
2668.5	6111	1074016	1.06	686	694	49	734	100695
2669.0	6456	1167718	1.05	693	701	42	735	108902
2669.5	6804	1264004	1.05	700	708	35	735	117355
2670.0	7156	1363751	1.05	707	716	28	736	126050
2670.5	7511	1466953	1.05	714	723	22	736	134987
2671.0	7870	1573592	1.05	721	731	15	736	144164
2671.5	8233	1683659	1.04	729	738	8	737	153580
2672.0	8599	1797148	1.04	736	745	1	737	163233
2672.5	8967	1922356	1.04	737	748	0	737	173709
2673.0	9336	2053041	1.04	738	749	0	738	184540
2673.5	9705	2187125	1.04	738	750	0	738	195577
2674.0	10075	2324560	1.04	739	751	0	739	206818
2674.5	10444	2465292	1.04	739	752	0	739	218258
2675.0	10814	2609280	1.04	739	753	0	739	229895
2675.5	11183	2756482	1.04	740	755	0	740	241725
2675.8	11405	2846261	1.04	740	755	0	740	248910



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
 SECID=N AT DISTANCE= 13320

I-N  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2652.0	6	91	1.00	14	14	604	618	22
2652.5	14	316	1.00	19	19	602	621	70
2653.0	24	691	1.00	23	23	601	624	144
2653.5	36	1263	1.00	24	25	600	624	252
2654.0	48	1979	1.00	25	26	600	625	383
2654.5	61	2819	1.00	26	28	599	625	532
2655.0	75	3777	1.00	27	29	599	626	700
2655.5	88	4854	1.00	28	31	598	626	886
2656.0	103	6049	1.00	29	32	597	627	1090
2656.5	118	7314	1.00	31	34	597	627	1305
2657.0	134	8537	1.00	34	37	594	628	1512
2657.5	153	9942	1.02	52	56	521	628	1477
2658.0	188	11816	1.12	82	86	517	629	1525
2658.5	235	14393	1.19	113	117	512	694	1756
2659.0	308	18105	1.31	170	175	507	695	2051
2659.5	399	23483	1.37	195	200	39	696	2758
2660.0	517	28733	1.61	293	298	36	698	3071
2660.5	697	36952	1.80	463	468	33	699	3618
2661.0	961	51489	1.72	590	595	30	700	5306
2661.5	1281	71714	1.56	674	680	27	701	8019
2662.0	1618	99727	1.34	676	682	26	702	12249
2662.5	1957	134112	1.20	679	685	24	703	17207
2663.0	2297	174620	1.12	683	690	23	707	22611
2663.5	2640	221496	1.07	688	695	22	710	28353
2664.0	2986	274904	1.05	694	700	21	715	34331
2664.5	3335	329316	1.04	703	709	20	722	40371
2665.0	3690	385110	1.05	717	724	18	741	46399
2665.5	4051	446790	1.05	724	731	17	741	53132
2666.0	4413	513462	1.04	726	733	16	742	60440
2666.5	4777	583949	1.04	728	736	15	743	68038
2667.0	5141	658155	1.04	730	738	14	743	75919
2667.5	5506	736033	1.04	731	740	13	744	84078
2668.0	5872	817525	1.04	733	742	12	745	92508
2668.5	6239	902498	1.04	735	744	11	745	101200
2669.0	6607	990886	1.04	736	746	10	746	110145
2669.5	6976	1082627	1.04	738	748	9	747	119339
2670.0	7345	1177169	1.04	741	750	8	748	128662
2670.5	7716	1274224	1.04	744	754	6	751	138044
2671.0	8090	1374509	1.04	748	758	5	754	147654
2671.5	8465	1477988	1.05	752	762	4	756	157488
2672.0	8841	1585520	1.05	755	765	3	758	167751
2672.5	9219	1696379	1.05	757	767	2	759	178288
2673.0	9598	1810307	1.05	759	770	1	761	189045
2673.5	9978	1927270	1.05	761	772	0	762	200016
2673.7	10131	1975057	1.05	762	773	0	762	204511



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50,100,500  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

I-N

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

:

ALERTED USER

N : KU/KD < 0.7 OR > 1.4

:

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER @ 50,100,500 I-N  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
I AT 8710 / 0 / 3170. / 727. / 55927. / 1.72 / 30. / 311.
2645.94 / 0.51 / / 2646.45 / 4.36 / 0.43 / *IS*
-----
J AT 10335 / 1625 / 3170. / 970. / 62820. / 1.61 / 49. / 561.
2650.84 / 0.27 / 4.65 / 0.0 / 2651.10 / 3.27 / 0.35 / 0.006 *XS*
-----
K AT 11705 / 1370 / 3170. / 951. / 53878. / 1.27 / 13. / 537.
2654.95 / 0.22 / 4.07 / 0.0 / 2655.17 / 3.33 / 0.42 / 0.001 *XS*
-----
L-TW AT 12858 / 1153 / 3170. / 542. / 44054. / 1.78 / 362. / 709.
2659.48 / 0.94 / 4.88 / 0.36 / 2660.42 / 5.85 / 0.55 / 0.008 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12858 / / 1578. / 211. / 11207. / 1.00 / 0. / 34.
2657.00 / 0.87 / ...3... (-.001) / 7.46 / 0.53 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1442. / RIGHT 147. / *RG*
-----
M-APP AT 12906 / 48 / 3170. / 991. / 74188. / 2.24 / 152. / 675.
2660.23 / 0.36 / 0.15 / 0.0 / 2660.59 / 3.20 / 0.35 / 0.015 *AS*
-----
M = **** / E = **** / K* = **** / 1203. / 96387. / 1.85 / 145. / 676.
2660.63 / 0.20 / / 2660.83 / 2.64 / 0.27 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 3170. / 1164. / 63167. / 1.66 / 27. / 700.
2661.33 / 0.19 / 0.68 / 0.0 / 2661.52 / 2.72 / 0.31 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 14. DATE= 2/ 2/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50.100.500 I-N  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4 ;

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10 (50) 100.500 I-N  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN / ACC *ID*
=====
I   AT   8710 /    0 /  5350. / 1163. / 106360. / 1.30 / 22. / 314.
    2647.46 / 0.43 /           / 2647.89 / 4.60 / 0.40/      *IS*
-----
J   AT  10335 / 1625 /  5350. / 1403. / 107463. / 1.24 / 46. / 564.
    2651.68 / 0.28 / 4.07 / 0.0 / 2651.96 / 3.81 / 0.39 / 0.004 *XS*
-----
K   AT  11705 / 1370 /  5350. / 1298. /  92815. / 1.08 / 12. / 539.
    2655.61 / 0.28 / 3.93 / 0.00 / 2655.90 / 4.12 / 0.43 / 0.004 *XS*
-----
L-TW AT 12858 / 1153 /  5350. /  970. /  68018. / 2.32 / 199. / 712.
    2660.44 / 1.10 / 5.23 / 0.41 / 2661.54 / 5.52 / 0.62 / 0.003 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12858 /      / 1505. / 211. / 11207. / 1.00 / 0. / 34.
    2657.00 / 0.79 /      ...3... (-.001) / 7.12 / 0.50 /      *RO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 3432. / RIGHT 326. /      *RG*
-----
M-APP AT 12906 / 48 /  5350. / 1638. / 152273. / 1.39 / 132. / 679.
    2661.44 / 0.23 / 0.13 / 0.0 / 2661.67 / 3.27 / 0.31 / 0.002 *AS*
-----
  W = **** / E = **** / K* = **** / 1638. / 152273. / 1.39 / 132. / 679.
    2661.44 / 0.23 /           / 2661.67 / 3.27 / 0.31 /      *AS*
===== END BRIDGE ANALYSIS =====
N   AT  13320 / 414 /  5350. / 1745. / 111821. / 1.28 / 25. / 702.
    2662.19 / 0.19 / 0.70 / 0.0 / 2662.38 / 3.06 / 0.32 / 0.010 *XS*
=====
    
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 16. DATE= 2/ 2/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50.100.500  
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

I-N

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

:  
ALERTED USER

M-APP: MAX GRD < QT (3)

:  
CHECKED GRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 I-N  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
I AT 8710 / 0 / 6390. / 1368. / 134484. / 1.21 / 20. / 315.
2648.16 / 0.41 / / 2648.57 / 4.67 / 0.38 / *IS*
-----
J AT 10335 / 1625 / 6390. / 1588. / 131776. / 1.14 / 45. / 565.
2652.04 / 0.29 / 3.74 / 0.0 / 2652.32 / 4.02 / 0.41 / 0.008 *XS*
-----
K AT 11705 / 1370 / 6390. / 1444. / 110007. / 1.06 / 12. / 539.
2655.89 / 0.32 / 3.86 / 0.02 / 2656.21 / 4.43 / 0.44 / 0.014 *XS*
-----
L-TW AT 12858 / 1153 / 6390. / 1142. / 81712. / 2.16 / 192. / 714.
2660.77 / 1.05 / 5.24 / 0.36 / 2661.82 / 5.59 / 0.62 / 0.007 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12858 / / 1532. / 211. / 11207. / 1.00 / 0. / 34.
2657.00 / 0.82 / ...3... (-.001) / 7.25 / 0.51 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 4543. / RIGHT 435. / *RG*
-----
M-APP AT 12906 / 48 / 6390. / 1777. / 170958. / 1.33 / 128. / 679.
2661.69 / 0.27 / 0.14 / 0.0 / 2661.96 / 3.60 / 0.33 / -0.002 *AS*
-----
M = **** / E = **** / K* = **** / 1836. / 179296. / 1.31 / 127. / 679.
2661.80 / 0.25 / / 2662.05 / 3.48 / 0.32 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 6390. / 1991. / 137943. / 1.19 / 24. / 703.
2662.55 / 0.19 / 0.08 / 0.0 / 2662.74 / 3.21 / 0.32 / 0.010 *XS*
=====
    
```

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

I-N

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

: ALERTED USER

M-APP: MAX QRD < QT (3)

: CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100 (500) I-N  
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
I	AT 8710	/	0	/	9100.	/	1883.	/	214933.	/	1.10	/	15.	/	319.		
	2649.88	/	0.40	/	2650.28	/	4.83	/	0.32								*IS*
J	AT 10335	/	1625	/	9100.	/	2113.	/	204731.	/	1.06	/	42.	/	569.		
	2653.04	/	0.30	/	3.06	/	0.0	/	2653.34	/	4.31	/	0.40	/	0.005		*XS*
K	AT 11705	/	1370	/	9100.	/	1790.	/	155544.	/	1.03	/	12.	/	541.		
	2656.55	/	0.41	/	3.56	/	0.05	/	2656.96	/	5.08	/	0.46	/	0.001		*XS*
L-TW	AT 12858	/	1153	/	9100.	/	1519.	/	117557.	/	1.79	/	175.	/	716.		
	2661.48	/	1.00	/	5.22	/	0.29	/	2662.48	/	5.99	/	0.62	/	0.007		*XS*
===== BEGIN BRIDGE ANALYSIS =====																	
BO-LM	AT 12858	/		/	1508.	/	211.	/	11207.	/	1.00	/	0.	/	34.		
	2657.00	/	0.79	/	...3...	/	(-.001)	/	7.13	/	0.50	/					*BO*
=====																	
EMBANKMENT OVERFLOW (CFS) / LEFT 6804. / RIGHT 671. / *RG*																	
M-APP	AT 12906	/	43	/	9100.	/	2101.	/	217668.	/	1.24	/	119.	/	684.		
	2662.27	/	0.36	/	0.16	/	0.0	/	2662.64	/	4.33	/	0.38	/	-0.001		*AS*
=====																	
M = **** / F = **** / K* = **** / 2160. / 226544. / 1.23 / 118. / 686.																	
	2662.38	/	0.34	/		/	2662.72	/	4.21	/	0.37	/					*AS*
===== END BRIDGE ANALYSIS =====																	
N	AT 13320	/	414	/	9100.	/	2471.	/	197610.	/	1.09	/	23.	/	708.		
	2663.25	/	0.23	/	0.77	/	0.0	/	2663.48	/	3.68	/	0.35	/	0.001		*XS*

END OF THIS PROFILE



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER 10,50,100,500 UP						
2	2	266133 266220 266255 266325						
3	1700	N 1 34 3 2652 13320 99 99						
4	1701	3170 5320 6390 9100						
5	1705	0 1 26737 13 1 26673 27 1 26614 42 1 26591 56 1 26601						
5	1706	100 1 26596 150 1 26602 200 1 26605 250 1 26613 300 1 26612						
5	1707	352 1 26603 400 1 26604 450 1 26610 500 1 26598 523 1 26573						
5	1708	550 1 26577 585 2 26589 597 2 26564 601 2 26529 605 2 26518						
5	1709	611 2 26512 619 2 26521 624 2 26531 625 2 26543 631 3 26598						
5	1710	650 3 26589 694 3 26584 703 3 26625 713 3 26639 733 3 26652						
5	1711	740 3 26645 747 3 26698 757 3 26716 762 3 26736						
6	1715	2 4 045 040 1 2 055 055 1 2 070 055						
3	1800	0 0 19 3 2656 14370 99 99						
5	1805	0 1 26774 50 1 26642 85 1 26625 100 1 26619 170 2 26602						
5	1806	121 2 26557 126 2 26556 132 2 26554 140 2 26554 145 2 26566						
5	1807	146 2 26571 150 2 26603 158 3 26624 200 3 26613 250 3 26621						
5	1808	281 3 26627 285 3 26647 294 3 26683 314 3 26695						
6	1810	1 2 060 050 2 4 060 050 1 2 055 045						
3	2100	Q-TW 1 23 3 2658 14762 99 99						
4	2101	2660 4480 5370 7700						
5	2105	0 1 26698 14 1 26683 28 1 26609 39 1 26586 39 1 26585						
5	2106	42 1 26573 56 1 26565 70 1 26572 79 1 26586 80 1 26588						
5	2107	93 2 26618 110 2 26628 148 2 26641 203 2 26634 203 2 26634						
5	2108	456 2 26684 476 2 26696 481 3 26692 489 3 26657 539 3 26663						
5	2109	639 3 26691 689 3 26707 739 3 26731						
6	2115	1 2 055 055 1 2 050 040 1 2 065 065						
3	2200	PR-QR 2 16 1 2657 14762 30 26683 1 1						
5	2205	0 1 26683 0 1 26609 4 1 26605 11 1 26592 12 1 26588						
5	2206	17 1 26577 29 1 26574 42 1 26558 49 1 26575 53 1 26587						
5	2207	54 1 26598 58 1 26615 70 1 26613 82 1 26615 82 1 26683						
5	2208	0 -9 26683						
6	2215	2 4 055 040						
3	2220	PR-QR 3 2 7						
5	2225	3 26560 2 26683						
3	2250	QR-RD 4 20 4 32 1 3 1 1 1 2 2						
5	2255	0 1 26750 100 1 26736 200 1 26722 300 1 26714 400 1 26714						
5	2256	500 1 26714 655 2 26713 696 2 26713 737 3 26713 800 3 26716						
5	2257	900 3 26716 1000 3 26710 1093 4 26700 1100 4 26663 1150 4 26665						
5	2258	1200 4 26679 1250 4 26691 1300 4 26707 1350 4 26731 1400 4 26766						
3	2300	RQ 5 40 4 2660 14815 2 4						
5	2305	64 1 26753 65 1 26749 83 1 26746 84 1 26749 100 1 26751						
5	2306	150 1 26742 192 1 26718 213 1 26706 245 1 26697 250 1 26691						
5	2307	271 1 26653 300 1 26643 350 1 26637 400 1 26637 450 1 26638						
5	2308	500 1 26646 535 2 26643 536 3 26634 538 3 26616 543 3 26586						
5	2309	547 3 26578 551 3 26576 556 3 26579 560 3 26582 561 3 26603						

N-T 10,50,100,500

All good.

5



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER	10.50	100.500	HE		N-T	9 4 02 05 10
2	2	266133	266220	266255	266325			
3	1700	M	1 34	3 2652	13320	99 99		
4	1701		3170	5320	6390	9100		
5	1705		0 1	26737	1 1	26673	27	1 26614 42 1 26591 56 1 26531
5	1706		100 1	26596	150 1	26602	200	1 26605 250 1 26613 300 1 26612
5	1707		352 1	26603	400 1	26604	450	1 26610 500 1 26598 523 1 26573
5	1708		550 1	26577	585 2	26589	597	2 26564 601 2 26529 505 2 26518
5	1709		611 2	26512	619 2	26521	624	1 26531 625 2 26543 631 3 26598
5	1710		650 3	26589	694 3	26584	703	3 26625 713 3 26639 733 3 26652
5	1711		740 3	26645	747 3	26698	757	3 26716 762 3 26736
6	1715	2	4 045	040 1	2 055	055 1	2 070	055
5	1800	0	0 19	3 2658	14370	99 99		
5	1805		0 1	26774	50 1	26642	85	1 26625 100 1 26619 120 2 26602
5	1806		121 2	26557	126 2	26556	132	2 26554 140 2 26554 145 2 26566
5	1807		146 2	26571	150 2	26603	158	3 26624 200 3 26613 250 3 26621
5	1808		261 3	26627	285 3	26647	294	3 26683 314 3 26695
6	1810	1	2 060	050 2	4 060	050 1	2 055	045
3	2100	0-Tw	1 23	3 2658	14762	99 99		
4	2101		2650	4480	5370	7700		
5	2105		0 1	26598	14 1	26683	28	1 26609 39 1 26586 39 1 26585
5	2106		42 1	26573	56 1	26565	70	1 26572 79 1 26586 80 1 26588
5	2107		93 2	26618	110 2	26628	148	2 26641 203 2 26634 203 2 26634
5	2108		456 2	26684	476 2	26696	481	3 26692 489 3 26657 539 3 26663
5	2109		639 3	26691	689 3	26707	739	3 26731
6	2115	1	2 055	055 1	2 050	040 1	2 065	065
3	2200	PR-QR	2 16	1 2657	14762	30	26683	1 1
5	2205		0 1	26683	0 1	26602	4	1 26605 11 1 26592 12 1 26588
5	2206		17 1	26577	29 1	26574	42	1 26558 49 1 26575 53 1 26587
5	2207		54 1	26598	58 1	26615	70	1 26613 82 1 26615 82 1 26683
5	2208		0 -9	26683				
6	2215	2	4 055	040				
3	2220	PR-QR	3 2					
5	2225		3 26560	2 26683				
3	2250	OR-RD	4 20	4 22	1 3	1 1 1 2	2	
5	2255		0 1	26750	160 1	26736	200	1 26722 300 1 26714 400 1 26714
5	2256		500 1	26714	655 2	26713	696	2 26713 737 3 26713 800 3 26716
5	2257		900 3	26716	1000 3	26710	1093	4 26700 1100 4 26663 1150 4 26665
5	2258		1200 4	26679	1250 4	26691	1300	4 26707 1350 4 26731 1400 4 26766
3	2300	RQ	5 40	4 2660	14815	2 4		
5	2305		64 1	26753	65 1	26749	83	1 26746 84 1 26749 100 1 26751
5	2306		150 1	26742	192 1	26719	213	1 26706 245 1 26697 250 1 26691
5	2307		271 1	26653	300 1	26643	350	1 26637 400 1 26637 450 1 26638
5	2308		500 1	26646	535 2	26643	536	3 26634 538 3 26616 543 3 26586
5	2309		547 3	26578	551 3	26576	556	3 26579 560 3 26582 561 3 26603

N-T 10,50,100,500  
All good.







PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-OR	WARNING	STATION	16	IS LESS THAN	STATION	15	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 4,DATE= 1/28/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 UP N-T

9 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 9 TYPE 3 CARDS

KEPT 9 CROSS SECTIONS FOR EDITING

9 " " VALID FOR PROPERTY COMPUTATIONS

9 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=N AT DISTANCE= 13320 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2652.0	6	91	1.00	14	14	604	618	22
2652.5	14	316	1.00	19	19	602	621	70
2653.0	24	691	1.00	23	23	601	624	144
2653.5	36	1263	1.00	24	25	600	624	252
2654.0	48	1979	1.00	25	26	600	625	383
2654.5	61	2819	1.00	26	28	599	625	532
2655.0	75	3777	1.00	27	29	599	626	700
2655.5	88	4854	1.00	28	31	598	626	886
2656.0	103	6049	1.00	29	32	597	627	1090
2656.5	118	7314	1.00	31	34	597	627	1305
2657.0	134	8537	1.00	34	37	594	628	1512
2657.5	153	9942	1.02	52	56	521	628	1477
2658.0	188	11816	1.12	82	86	517	629	1525
2658.5	235	14393	1.19	113	117	512	694	1756
2659.0	308	18105	1.31	170	175	507	695	2051
2659.5	399	23483	1.37	195	200	39	696	2758
2660.0	517	28733	1.61	293	298	36	698	3071
2660.5	697	36952	1.80	463	468	33	699	3618
2661.0	961	51489	1.72	590	595	30	700	5306
2661.5	1281	71714	1.56	674	680	27	701	8019
2662.0	1618	99727	1.34	676	682	26	702	12249
2662.5	1957	134112	1.20	679	685	24	703	17207
2663.0	2297	174620	1.12	683	690	23	707	22611
2663.5	2640	221496	1.07	688	695	22	710	28353
2664.0	2986	274904	1.05	694	700	21	715	34331
2664.5	3335	329316	1.04	703	709	20	722	40371
2665.0	3690	385110	1.05	717	724	18	741	46399
2665.5	4051	446790	1.05	724	731	17	741	53132
2666.0	4413	513462	1.04	726	733	16	742	60440
2666.5	4777	583949	1.04	728	736	15	743	68038
2667.0	5141	658155	1.04	730	738	14	743	75919
2667.5	5506	736033	1.04	731	740	13	744	84078
2668.0	5872	817525	1.04	733	742	12	745	92508
2668.5	6239	902498	1.04	735	744	11	745	101200
2669.0	6607	990886	1.04	736	746	10	746	110145
2669.5	6976	1082627	1.04	738	748	9	747	119339
2670.0	7345	1177169	1.04	741	750	8	748	128662
2670.5	7716	1274224	1.04	744	754	6	751	138044
2671.0	8090	1374509	1.04	748	758	5	754	147654
2671.5	8465	1477988	1.05	752	762	4	756	157488
2672.0	8841	1585520	1.05	755	765	3	758	167751
2672.5	9219	1696379	1.05	757	767	2	759	178288
2673.0	9598	1810307	1.05	759	770	1	761	189045
2673.5	9978	1927270	1.05	761	772	0	762	200016
2673.7	10131	1975057	1.05	762	773	0	762	204511



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=0 AT DISTANCE= 14370

N-T  
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2656.0	10	156	1.00	22	22	121	143	41
2656.5	22	496	1.00	24	25	121	145	117
2657.0	34	997	1.00	25	26	121	146	224
2657.5	47	1641	1.00	26	28	121	147	356
2658.0	60	2455	1.00	27	29	120	147	509
2658.5	73	3475	1.00	27	30	120	148	681
2659.0	87	4684	1.00	28	32	120	148	871
2659.5	101	6097	1.00	29	33	120	149	1079
2660.0	116	7733	1.00	30	34	120	150	1304
2660.5	132	9285	1.01	34	39	116	151	1457
2661.0	151	10884	1.04	42	47	111	153	1588
2661.5	176	12741	1.10	70	75	105	213	1505
2662.0	225	15179	1.33	129	135	97	244	1464
2662.5	305	18804	1.60	186	191	85	271	1753
2663.0	405	24589	1.69	207	212	75	282	2471
2663.5	511	32642	1.55	218	224	64	283	3559
2664.0	623	43075	1.39	229	235	54	284	4943
2664.5	740	54765	1.29	236	242	49	285	6547
2665.0	859	67740	1.22	239	245	47	286	8343
2665.5	979	82058	1.18	242	248	45	287	10285
2666.0	1100	97679	1.14	245	251	43	288	12362
2666.5	1224	114563	1.12	248	255	41	290	14563
2667.0	1349	132678	1.10	251	258	39	291	16882
2667.5	1475	151996	1.09	255	261	37	292	19314
2668.0	1603	172497	1.08	258	265	36	293	21856
2668.5	1733	192962	1.07	264	271	34	297	24359
2669.0	1867	212901	1.07	274	281	32	306	26767
2669.5	2007	234189	1.07	284	291	30	314	29311
2670.0	2149	260496	1.06	286	294	28	314	32488
2670.5	2293	287990	1.05	288	296	26	314	35769
2671.0	2437	316647	1.05	290	299	24	314	39151
2671.5	2583	346449	1.05	292	301	22	314	42632
2672.0	2729	377376	1.04	294	304	20	314	46212
2672.5	2876	409412	1.04	295	306	19	314	49887
2673.0	3024	442541	1.04	297	309	17	314	53658
2673.5	3174	476750	1.04	299	311	15	314	57523
2674.0	3324	512025	1.04	301	314	13	314	61481
2674.5	3475	548354	1.04	303	316	11	314	65531
2675.0	3627	585726	1.04	305	318	9	314	69672
2675.5	3780	624131	1.04	307	321	7	314	73904

\$ 8.27.43 REMOTE89 STARTED ON LINE1



2677.4

4369

779330

1.04

314

330

0

314

90794



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500 UP  
 SECID=Q-TW AT DISTANCE= 14762 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2658.0	34	910	1.00	35	35	40	75	192
2658.5	53	1727	1.00	39	40	39	78	347
2659.0	74	2793	1.00	44	44	37	81	540
2659.5	97	4110	1.00	48	49	35	83	774
2660.0	122	5702	1.00	53	54	32	85	1049
2660.5	149	7579	1.00	57	58	30	87	1367
2661.0	179	9784	1.00	62	63	28	90	1734
2661.5	211	12397	1.00	65	66	27	92	2158
2662.0	244	15438	1.00	70	72	26	96	2579
2662.5	282	19022	1.02	80	81	25	105	2974
2663.0	325	23030	1.05	92	93	24	116	3382
2663.5	375	27460	1.10	120	122	23	208	3582
2664.0	455	32769	1.24	200	202	22	233	3496
2664.5	567	40094	1.34	337	240	21	259	4287
2665.0	692	49551	1.35	264	266	20	264	5472
2665.5	831	61578	1.30	290	292	19	304	7001
2666.0	986	76664	1.23	342	344	18	314	8574
2666.5	1173	94081	1.21	401	404	17	346	10345
2667.0	1386	113563	1.21	447	450	16	364	12573
2667.5	1620	135984	1.21	492	495	16	382	15154
2668.0	1877	161522	1.21	537	541	15	400	18103
2668.5	2158	195077	1.20	581	584	12	418	21569
2669.0	2456	223094	1.17	613	616	7	435	25767
2669.5	2770	258881	1.16	646	650	3	452	30226
2670.0	3100	302004	1.16	667	671	0	467	35258
2670.5	3437	351130	1.16	673	687	0	483	40615
2671.0	3782	404010	1.16	695	700	0	495	46361
2671.5	4132	460464	1.17	706	711	0	506	52448
2672.0	4488	520250	1.18	716	722	0	516	58781
2672.5	4848	583322	1.18	717	733	0	527	65356
2673.0	5214	649035	1.19	737	744	0	537	72167
2673.1	5288	663271	1.19	739	746	0	539	73557

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500 UP  
 SECID=BR-QR AT DISTANCE= 14762 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2657.0	9	168	1.00	15	15	32	47	39
2657.5	19	394	1.00	24	25	25	49	87
2658.0	34	883	1.00	35	35	16	51	187
2658.5	52	1703	1.00	39	40	13	52	343
2659.0	73	2804	1.00	42	43	11	53	542
2659.5	94	4203	1.00	44	45	9	54	776



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50+100.500 UP  
 SECID=BR-QR AT DISTANCE= 14762 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2660.0	117	6023	1.00	48	49	7	54	1038
2660.5	142	8237	1.00	52	53	0	56	1333
2661.0	169	10732	1.00	57	58	0	57	1655
2661.5	200	10286	1.00	62	64	0	62	1776
2662.0	241	15009	1.00	62	65	0	62	2348
2662.5	282	20987	1.00	62	66	0	62	2971
2663.0	323	28529	1.00	62	67	0	62	3641
2663.5	364	34919	1.00	62	68	0	62	4355
2664.0	405	41399	1.00	62	69	0	62	5111
2664.5	446	48252	1.00	62	90	0	62	5905
2665.0	487	55455	1.00	62	91	0	62	6738
2665.5	528	62989	1.00	62	92	0	62	7606
2666.0	569	70834	1.00	62	93	0	62	8508
2666.5	610	78975	1.00	62	94	0	62	9443
2667.0	651	87398	1.00	62	95	0	62	10411
2667.5	692	96087	1.00	62	96	0	62	11409
2668.0	733	105631	1.00	62	97	0	62	12438
2668.3	768	73651	1.00	0	180	0	62	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50+100.500 UP  
 SECID=R AT DISTANCE= 14915 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2660.0	38	1482	1.00	20	22	541	561	294
2660.5	48	2106	1.00	22	24	540	561	409
2661.0	60	2818	1.00	24	26	539	563	537
2661.5	72	3646	1.00	26	28	538	564	684
2662.0	85	4612	1.00	27	30	538	565	852
2662.5	99	5703	1.00	29	32	537	566	1040
2663.0	114	6920	1.00	31	34	536	567	1248
2663.5	130	8329	1.01	40	44	536	576	1326
2664.0	192	10681	1.47	209	213	325	607	861
2664.5	320	15274	1.95	311	315	294	623	1319
2665.0	499	22842	1.98	405	409	280	765	2230
2665.5	735	35660	1.69	520	524	270	790	3806
2666.0	1010	55465	1.44	595	599	267	863	6231
2666.5	1324	80728	1.31	652	656	264	917	9358
2667.0	1661	112251	1.20	694	698	262	956	13284
2667.5	2015	152014	1.12	725	729	259	983	18042
2668.0	2384	194971	1.09	747	752	256	1003	23161
2668.5	2761	244125	1.06	759	763	253	1012	28960
2669.0	3143	298222	1.05	770	775	251	1021	35171
2669.5	3531	356734	1.04	783	787	247	1029	41764



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=R AT DISTANCE= 14815 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2670.0	3927	416609	1.03	804	808	234	1038	48601
2670.5	4336	479188	1.02	830	835	217	1047	55735
2671.0	4756	549615	1.01	850	854	206	1056	63431
2671.5	5185	625235	1.01	868	873	197	1065	71550
2672.0	5624	705703	1.01	887	891	188	1075	80064
2672.5	6072	790713	1.01	905	909	180	1085	88972
2673.0	6529	880377	1.00	923	928	171	1094	98273
2673.5	6996	970394	1.00	949	954	162	1111	107527
2674.0	7480	1059051	1.01	985	990	153	1139	116566
2674.5	7999	1123491	1.01	1072	1077	133	1206	123272
2675.0	8550	1206143	1.00	1135	1140	65	1213	132896
2675.5	9125	1327490	1.00	1156	1161	64	1220	145239
2675.9	9589	1436565	1.00	1162	1167	64	1226	156091

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=S AT DISTANCE= 15615 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2661.0	19	395	1.00	24	24	54	78	94
2661.5	31	867	1.00	26	27	53	79	195
2662.0	44	1503	1.00	27	28	53	79	325
2662.5	58	2283	1.00	28	29	52	80	477
2663.0	72	3179	1.00	29	31	51	80	650
2663.5	87	4184	1.00	30	32	51	81	840
2664.0	102	5307	1.00	31	34	50	81	1050
2664.5	118	6586	1.01	36	39	46	82	1210
2665.0	139	8080	1.06	47	52	35	83	1318
2665.5	165	9800	1.14	58	61	25	83	1484
2666.0	196	11824	1.20	63	67	20	84	1786
2666.5	248	14556	1.37	187	191	19	206	1382
2667.0	350	19249	1.58	239	243	18	303	1913
2667.5	492	26427	1.62	301	305	17	319	2807
2668.0	647	36827	1.43	318	322	16	334	4378
2668.5	811	50450	1.26	335	339	15	350	6374
2669.0	980	67500	1.15	345	349	14	359	8754
2669.5	1156	86008	1.10	355	360	13	369	11276
2670.0	1336	106794	1.07	366	370	12	378	13995
2670.5	1521	129812	1.05	376	381	11	387	16902
2671.0	1712	155032	1.04	386	391	10	396	19998
2671.5	1907	183204	1.04	393	398	9	403	23377
2672.0	2105	214031	1.03	398	403	9	407	26987
2672.5	2305	246993	1.03	403	409	8	411	30764
2673.0	2508	282048	1.03	408	414	8	416	34707



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=S AT DISTANCE= 15615 PART 2 OF 2 N-T

WS	A	K	ALPHA	B	P	LEW	REW	QC
2673.5	2713	319165	1.03	413	419	7	420	38814
2674.0	2921	358315	1.03	418	424	6	425	43084
2674.5	3131	399476	1.03	423	430	6	429	47516
2675.0	3344	442627	1.03	428	435	5	433	52108
2675.5	3560	487752	1.04	433	440	4	438	56860
2676.0	3777	534836	1.04	438	445	4	442	61770
2676.5	3998	583868	1.04	443	450	3	446	66837
2677.0	4221	634083	1.04	449	456	3	452	72002
2677.5	4448	683185	1.04	458	466	2	460	77102
2678.0	4679	734291	1.04	468	475	1	469	82379
2678.5	4916	787425	1.04	477	485	1	478	87834
2679.0	5156	842612	1.04	486	494	0	486	93470
2679.5	5402	900087	1.04	495	503	0	495	99369
2679.8	5551	935541	1.04	500	509	0	500	102993

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=T-TW AT DISTANCE= 16324 PART 1 OF 2 N-T

WS	A	K	ALPHA	B	P	LEW	REW	QC
2663.0	17	451	1.00	17	18	89	106	96
2663.5	26	885	1.00	19	19	88	107	174
2664.0	36	1467	1.00	20	21	87	107	269
2664.5	46	2189	1.00	22	23	86	108	382
2665.0	58	2967	1.00	24	26	85	109	508
2665.5	71	3874	1.00	26	28	83	110	654
2666.0	84	4928	1.00	29	31	82	110	819
2666.5	99	6136	1.00	31	33	80	111	1007
2667.0	115	7470	1.00	34	36	78	112	1213
2667.5	133	8845	1.00	37	40	75	113	1425
2668.0	155	10550	1.02	60	63	53	114	1391
2668.5	187	12992	1.12	69	72	45	114	1648
2669.0	224	15849	1.21	79	83	37	116	1944
2669.5	267	19312	1.30	94	97	29	123	2248
2670.0	318	23431	1.36	107	110	22	129	2662
2670.5	373	28553	1.36	114	118	21	135	3282
2671.0	432	34150	1.37	120	124	20	140	3974
2671.5	493	40282	1.37	124	128	19	143	4763
2672.0	556	46978	1.37	128	132	18	146	5622
2672.5	621	54269	1.36	132	136	17	149	6553
2673.0	688	62230	1.35	135	140	17	152	7566
2673.5	756	70838	1.33	139	144	16	155	8656
2674.0	827	80123	1.32	143	148	15	158	9825
2674.5	900	90120	1.30	147	152	14	161	11075



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 UP  
 SECID=T-TW AT DISTANCE= 16324

N-T  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2675.0	974	100693	1.29	152	156	13	165	12358
2675.5	1051	111915	1.27	157	162	12	169	13690
2676.0	1131	123958	1.26	162	167	11	173	15111
2676.5	1213	136318	1.26	167	172	10	177	16561
2677.0	1298	148594	1.26	175	180	9	183	17864
2677.5	1387	161490	1.27	183	188	7	190	19223
2678.0	1481	175195	1.28	191	197	5	196	20677
2678.5	1579	189609	1.29	200	206	3	203	22185
2679.0	1681	204723	1.29	210	215	1	211	23736
2679.5	1788	221114	1.30	218	225	0	218	25468
2679.6	1810	224601	1.30	220	226	0	220	25848



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS N-T

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

R ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

S ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (10) 50,100,500 UP N-T  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
N	AT	13320	0	3170.	1166.	63329.	1.66	27.	700.	2661.33	0.19			2661.52	2.72	0.31		*IS*	
O	AT	14370	1050	3170.	719.	52484.	1.31	49.	284.	2664.41	0.40	3.17	0.10	2664.80	4.41	0.40	0.007	*XS*	
P	Q-TW	AT	14762	392	2660.	860.	64351.	1.28	19.	314.	2665.60	0.19	0.99	0.0	2665.79	3.09	0.27	0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====																			
	BR-OR	AT	14762		2659.	465.	55158.	1.00	0.	82.	2665.60	0.51	...	0.052	5.72	0.39		*80*	
=====																			
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 8. / *RG*																			
R	AT	14815	53	2660.	845.	43355.	1.54	269.	803.	2665.71	0.24	0.13	0.02	2665.95	3.15	0.40	-0.003	*AS*	
=====																			
M = 0.74 / E = 0.39 / K* = 1.25 / 1325. / 80865. / 1.31 / 264. / 917. / 2666.50 / 0.08 / 2666.58 / 2.01 / 0.25 / *AS*																			
===== END BRIDGE ANALYSIS =====																			
R	S	AT	15615	800	2660.	690.	40130.	1.38	16.	339.	2668.13	0.32	1.74	0.12	2668.45	3.86	0.38	0.005	*XS*
=====																			
S	T-TW	AT	16324	709	2660.	466.	37517.	1.37	20.	142.	2671.28	0.69	3.33	0.19	2671.97	5.71	0.49	0.003	*XS*

Good

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

0	: KU/KD < 0.7 OR > 1.4	:	
S	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
		:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50 100.500 UP N-T  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
N	AT 13320	0	5320.	1754.	112553.	1.28	25.	702.
	2662.20	0.18		2662.36	3.03	0.31		*IS*
0	AT 14370	1050	5370.	948.	78347.	1.19	46.	287.
	2665.37	0.58	3.37	0.20	2665.96	5.61	0.46	0.004 *XS*
P	Q-TW AT 14762	392	4480.	1322.	107667.	1.21	17.	559.
	2666.86	0.22	1.12	0.0	2667.07	3.39	0.27	-0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====								
	RR-QR AT 14762		3907.	554.	72423.	1.00	0.	82.
	2666.86	0.77	...1...	(0.049)	7.05	0.45		*B0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 512. / =====								
Q	R AT 14815	53	4480.	1679.	114100.	1.20	261.	957.
	2667.03	0.13	0.09	0.0	2667.16	2.67	0.31	-0.001 *AS*
	M = 0.84 / E = 0.53 / K* = 1.37 / 2506. / 210355. / 1.08 / 255. / 1006.							
	2668.16	0.05		2668.22	1.79	0.18		*AS*
===== END BRIDGE ANALYSIS =====								
R	S AT 15615	800	4480.	1014.	70854.	1.14	14.	361.
	2669.10	0.35	1.08	0.15	2669.44	4.42	0.47	0.002 *XS*
S	T-Tw AT 16324	709	4480.	615.	53589.	1.36	17.	149.
	2672.46	1.13	3.75	0.39	2673.58	7.28	0.59	0.002 *XS*

Good

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
0	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
Q-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
R	: WSU > BELMX (1)	:	CHECKED QBO (2)
R	: YUZZ < 1.1 (1)	:	ASSUMED QBO (1)
S	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
T-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,500, 100,500 UP N-T  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
			HV	HF	HE	EG	V	FN	ACC
N	AT	13320	0	6390.	1991.	137859.	1.19	24.	703.
		2662.55	0.19		2662.74	3.21	0.32		*IS*
* O	AT	14370	1050	6390.	1042.	90060.	1.16	44.	288.
		2665.76	0.68	3.45	0.24	2666.44	6.13	0.51	0.002 *XS*
P * Q-TW	AT	14762	392	5370.	1559.	130037.	1.21	16.	577.
		2667.37	0.22	1.16	0.0	2667.60	3.44	0.27	0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====									
BR-OR	AT	14762		4399.	591.	79956.	1.00	0.	82.
		2667.37	0.86	1.1	(0.048)	7.45	0.46		*RO*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 950. / =====									
Q * R	AT	14815	53	5370.	2055.	156322.	1.11	259.	986.
		2667.55	0.12	0.08	0.0	2667.67	2.61	0.28	-0.000 *AS*
M = 0.85 / E = 0.49 / K* = 1.38 / 2998. / 277153. / 1.05 / 252. / 1017.									
		2668.81	0.05			2668.86	1.79	0.16	*AS*
===== END BRIDGE ANALYSIS =====									
R S	AT	15615	800	5370.	1188.	89674.	1.09	13.	370.
		2669.59	0.35	0.93	0.15	2669.94	4.52	0.46	0.001 *XS*
S T-TW	AT	16324	709	5370.	671.	60235.	1.35	17.	151.
		2672.88	1.35	3.79	0.50	2674.22	8.00	0.64	0.000 *XS*

END OF THIS PROFILE

\* Adjusted by visual inspection of high-water mark of November 7, 1977 flood.

*P Deleted*

Good



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T  
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

0	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
Q-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
S	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
T-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100 (500) UP N-T  
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID		
N	AT	13320	0	9100.	2469.	197244.	1.09	23.	708.	
		2663.25	0.23		2663.48	3.69	0.35		*IS*	
*	0	AT	14370	1059	9100.	1254.	118039.	1.12	41. / 290.	
			2666.62	0.91	3.71	0.34	2667.53	7.26	0.57 / 0.003 *XS*	
P *	Q-TW	AT	14762	392	7700.	2168.	191178.	1.20	12. / 618.	
			2668.52	0.23	1.22	0.0	2668.75	3.55	0.32 / -0.000 *XS*	
===== BEGIN BRIDGE ANALYSIS =====										
	BR-QR	AT	14762		5318.	626.	63152.	1.00	0. / 82.	
			2668.30	1.12	...3...	(0.047)	8.50	0.50	*BO*	
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 2426. / =====										
R *	R	AT	14815	53	7700.	2913.	265096.	1.06	252. / 1016.	
			2668.70	0.11	0.06	0.0	2668.81	2.64	0.24 / -0.000 *AS*	
			M = ****	E = ****	K* = ****	4101.	442898.	1.12	227. / 1042.	
			2670.21	0.06		2670.27	1.88	0.15	*AS*	
	===== END BRIDGE ANALYSIS =====									
R	S	AT	15615	800	7700.	1636.	144808.	1.05	11. / 393.	
			2670.80	0.36	0.74	0.15	2671.16	4.71	0.43 / 0.000 *XS*	
S	T-TW	AT	16224	709	7700.	801.	76679.	1.32	15. / 157.	
			2673.82	1.90	3.79	0.77	2675.72	9.61	0.73 / 0.000 *XS*	

Good

END OF THIS PROFILE

\* Adjusted by visual inspection of high-water mark of November 7, 1977 flood.







PAGE 1 OF EDITING NOTES FOR COVE CREEK LOWER PROFILES 10.50.100.500 T-X

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
RD-TU	WARNING	STATION 20	IS LESS THAN	STATION 19	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 3, DATE= 1/30/78

INPUT SUMMARY FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

1 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=T-TW AT DISTANCE= 16324 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2663.0	17	451	1.00	17	18	89	106	96
2663.5	26	885	1.00	19	19	88	107	174
2664.0	36	1467	1.00	20	21	87	107	269
2664.5	46	2189	1.00	22	23	86	108	382
2665.0	58	2967	1.00	24	26	85	109	508
2665.5	71	3874	1.00	26	28	83	110	654
2666.0	84	4928	1.00	29	31	82	110	819
2666.5	99	6136	1.00	31	33	80	111	1007
2667.0	115	7470	1.00	34	36	78	112	1213
2667.5	133	8845	1.00	37	40	75	113	1425
2668.0	155	10550	1.02	60	63	53	114	1391
2668.5	187	12992	1.12	69	72	45	114	1648
2669.0	224	15849	1.21	79	83	37	116	1944
2669.5	267	19312	1.30	94	97	29	123	2248
2670.0	318	23431	1.36	107	110	22	129	2662
2670.5	373	28550	1.36	114	118	21	135	3282
2671.0	432	34150	1.37	120	124	20	140	3974
2671.5	493	40282	1.37	124	128	19	143	4763
2672.0	556	46978	1.37	128	132	18	146	5622
2672.5	621	54269	1.36	132	136	17	149	6553
2673.0	688	62230	1.35	135	140	17	152	7566
2673.5	758	70838	1.33	139	144	16	155	8656
2674.0	827	80123	1.32	143	148	15	158	9825
2674.5	900	90120	1.30	147	152	14	161	11075
2675.0	974	100693	1.29	152	156	13	165	12358
2675.5	1051	111915	1.27	157	162	12	169	13690
2676.0	1131	123958	1.26	162	167	11	173	15111
2676.5	1213	136318	1.26	167	172	10	177	16561
2677.0	1298	148594	1.26	175	180	9	183	17864
2677.5	1387	161492	1.27	183	188	7	190	19223
2678.0	1481	175195	1.28	191	197	5	196	20677
2678.5	1579	189609	1.29	200	206	3	203	22185
2679.0	1681	204723	1.29	210	215	1	211	23736
2679.5	1786	221114	1.30	218	225	0	218	25468
2679.6	1810	226601	1.30	220	226	0	220	25848

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=R0-TU AT DISTANCE= 16324 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2663.0	19	421	1.00	22	23	55	77	100
2663.5	31	875	1.00	24	25	54	78	196
2664.0	43	1480	1.00	26	27	53	79	318



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-X  
 SECID=80-TU AT DISTANCE= 16324 PART 2 OF 2

WS	A	K	ALPHA	B	F	LEW	REW	QC
2664.5	57	2196	1.00	28	30	51	80	459
2665.0	72	3077	1.00	30	31	50	80	629
2665.5	87	4090	1.00	31	33	50	81	819
2666.0	103	5235	1.00	33	35	49	82	1032
2666.5	120	6514	1.00	35	37	48	82	1266
2667.0	138	7900	1.00	36	39	47	83	1517
2667.5	156	9320	1.00	39	42	46	85	1773
2668.0	179	9807	1.00	51	54	36	87	1890
2668.5	207	11194	1.00	61	65	28	89	2158
2669.0	240	13276	1.00	69	72	22	91	2538
2669.5	276	15824	1.00	75	79	18	93	2995
2670.0	314	19170	1.00	78	82	16	94	3574
2670.5	354	22823	1.00	81	85	15	96	4198
2671.0	395	26865	1.00	83	87	14	97	4879
2671.5	437	31212	1.00	86	90	13	99	5603
2672.0	481	35867	1.00	88	92	12	100	6372
2672.5	525	40829	1.00	90	95	12	102	7183
2673.0	571	46102	1.00	93	97	11	103	8039
2673.5	618	51822	1.00	95	100	10	104	8958
2674.0	666	57936	1.00	96	102	9	105	9932
2674.5	714	64351	1.00	98	103	8	106	10948
2675.0	763	71065	1.00	99	105	7	107	12004
2675.5	814	78079	1.00	101	107	6	107	13100
2676.0	865	85037	1.00	103	110	5	108	14187
2676.5	917	92254	1.00	105	112	3	108	15332
2677.0	970	99765	1.00	108	115	0	108	16520
2677.5	1024	108351	1.00	108	116	0	108	17887
2678.0	1078	117370	1.00	108	117	0	108	19315
2678.3	1110	79683	1.00	0	226	0	108	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-X  
 SECID=APP-D AT DISTANCE= 16467 PART 1 OF 2

WS	A	K	ALPHA	B	F	LEW	REW	QC
2664.0	31	848	1.00	26	26	81	107	191
2664.5	44	1479	1.00	27	28	81	108	318
2665.0	58	2247	1.00	28	29	80	108	469
2665.5	72	3146	1.00	29	31	79	109	641
2666.0	87	4173	1.00	31	33	79	109	834
2666.5	103	5323	1.00	32	35	78	110	1048
2667.0	119	6597	1.00	33	36	77	110	1282
2667.5	136	7944	1.00	34	37	77	111	1535
2668.0	154	9514	1.00	35	39	76	112	1809



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-X  
 SECID=APP-U AT DISTANCE= 16467 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2668.5	179	11405	1.07	69	72	48	117	1579
2669.0	220	13831	1.23	92	95	39	131	1745
2669.5	273	16868	1.37	118	121	37	155	2010
2670.0	338	20771	1.46	143	147	34	177	2435
2670.5	415	25794	1.49	168	172	32	200	3032
2671.0	509	32096	1.51	205	209	30	235	3695
2671.5	612	39906	1.47	208	212	27	235	4921
2672.0	717	49441	1.37	210	215	25	235	6409
2672.5	827	60380	1.29	212	218	23	235	8074
2673.0	929	71954	1.25	215	221	21	236	9799
2673.5	1037	84554	1.22	218	224	20	238	11625
2674.0	1147	98169	1.20	221	227	19	239	13551
2674.5	1258	112773	1.18	224	230	17	241	15569
2675.0	1371	126694	1.18	234	240	16	250	17315
2675.5	1491	142038	1.18	244	250	15	258	19232
2676.0	1615	158518	1.18	253	260	13	267	21265
2676.5	1744	176161	1.18	263	270	12	275	23417
2677.0	1878	194993	1.18	273	280	11	283	25690
2677.5	2017	215041	1.18	283	289	9	292	28087
2678.0	2161	236331	1.19	292	299	8	300	30610
2678.5	2309	258757	1.19	302	309	6	309	33233
2679.0	2463	282497	1.19	312	320	5	318	35990
2679.5	2622	306742	1.20	326	333	0	326	38539
2680.0	2787	333509	1.20	335	343	0	335	41706
2680.5	2957	361657	1.19	344	352	0	344	45013
2681.0	3131	391206	1.19	353	361	0	353	48461
2681.5	3310	421634	1.19	362	372	0	362	51944
2682.0	3493	453214	1.19	373	383	0	373	55509

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-X  
 SECID=V AT DISTANCE= 17170 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2666.0	8	152	1.00	12	12	43	55	35
2666.5	14	370	1.00	15	16	42	58	80
2667.0	23	712	1.00	18	18	41	58	147
2667.5	32	1176	1.00	19	20	40	59	235
2668.0	42	1738	1.00	20	22	39	59	338
2668.5	52	2389	1.00	22	24	37	60	456
2669.0	64	3150	1.00	24	26	36	60	592
2669.5	76	4025	1.00	26	28	35	61	746
2670.0	90	5079	1.01	30	33	31	61	878
2670.5	110	6400	1.10	54	57	23	90	851



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=V AT DISTANCE= 17170 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2671.0	144	8162	1.29	79	82	15	94	977
2671.5	185	10636	1.36	84	87	14	98	1337
2672.0	238	13282	1.57	140	144	13	154	1405
2672.5	313	17698	1.57	160	164	13	173	1984
2673.0	399	23544	1.47	180	184	12	192	2770
2673.5	493	31671	1.31	192	195	11	203	3914
2674.0	590	42020	1.18	198	202	10	208	5319
2674.5	691	52807	1.13	204	208	10	214	6771
2675.0	794	64860	1.10	210	214	9	219	8339
2675.5	900	78158	1.08	216	220	8	224	10018
2676.0	1010	92687	1.07	222	227	7	229	11805
2676.5	1122	108438	1.06	228	233	7	234	13700
2677.0	1238	125409	1.06	234	239	6	240	15702
2677.5	1356	143599	1.05	240	245	5	245	17813
2678.0	1477	163015	1.05	246	251	4	250	20033
2678.5	1601	184106	1.05	251	256	4	254	22408
2679.0	1728	206418	1.05	255	261	3	258	24888
2679.5	1857	229949	1.05	260	266	2	262	27471
2680.0	1988	254698	1.05	265	271	1	266	30158
2680.5	2122	280668	1.05	270	276	0	270	32950
2681.0	2258	307930	1.05	274	281	0	274	35873
2681.1	2285	313546	1.05	275	282	0	275	36478

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=W AT DISTANCE= 18375 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2673.0	33	869	1.00	28	29	222	250	203
2673.5	48	1672	1.00	30	31	220	250	339
2674.0	63	2835	1.00	33	34	218	250	502
2674.5	80	4054	1.00	35	36	216	251	692
2675.0	98	5419	1.00	37	39	214	251	907
2675.5	117	6818	1.00	41	43	212	253	1128
2676.0	139	8264	1.00	47	49	210	257	1357
2676.5	164	10041	1.00	53	56	208	262	1633
2677.0	202	12355	1.08	127	129	194	367	1394
2677.5	298	16956	1.37	224	226	171	394	1665
2678.0	428	23799	1.53	300	303	150	450	2344
2678.5	581	34313	1.41	314	317	138	452	3769
2679.0	742	48295	1.26	329	332	126	455	5623
2679.5	911	65162	1.18	347	349	111	457	7723
2680.0	1089	84198	1.13	365	367	95	460	10031
2680.5	1276	105952	1.10	382	385	80	462	12577



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=W AT DISTANCE= 18375 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2681.0	1471	130075	1.09	400	403	65	465	15325
2681.5	1676	156846	1.08	418	421	49	467	18299
2682.0	1888	187221	1.07	429	432	41	470	21750
2682.5	2104	220814	1.05	434	437	38	472	25584
2683.0	2322	256935	1.04	440	443	35	475	29628
2683.5	2551	281322	1.04	484	487	32	546	32573
2684.0	2809	305915	1.06	550	553	29	584	35017
2684.5	3095	348264	1.06	577	581	26	603	39551
2685.0	3385	399433	1.04	586	589	22	608	45186
2685.5	3680	453787	1.04	594	597	19	613	51074
2686.0	3979	511286	1.03	602	605	16	618	57213
2686.5	4282	571898	1.02	610	614	13	623	63600
2687.0	4589	635593	1.02	618	622	10	628	70232
2687.5	4900	702350	1.02	626	630	7	633	77107
2688.0	5215	772151	1.01	634	638	4	638	84224
2688.5	5534	844980	1.01	642	646	1	643	91581
2689.0	5857	922621	1.01	648	652	0	648	99363
2689.2	5987	954686	1.01	650	655	0	650	102557

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=X-TW AT DISTANCE= 19382 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2675.0	16	325	1.00	23	23	98	121	73
2675.5	28	804	1.00	26	26	97	122	165
2676.0	41	1571	1.00	28	29	95	123	286
2676.5	56	2676	1.00	30	31	94	124	434
2677.0	71	3982	1.00	31	33	93	125	612
2677.5	87	5394	1.00	32	34	93	125	811
2678.0	104	6984	1.00	34	36	93	126	1033
2678.5	121	8748	1.00	35	37	92	127	1276
2679.0	138	10684	1.00	36	39	92	128	1540
2679.5	157	12791	1.00	37	40	91	129	1824
2680.0	176	15164	1.01	48	52	91	140	1899
2680.5	209	18041	1.12	89	93	91	180	1720
2681.0	264	21893	1.29	123	127	72	204	1935
2681.5	331	27001	1.39	140	144	70	210	2448
2682.0	403	33556	1.40	148	153	69	217	3187
2682.5	479	41425	1.36	156	161	67	223	4076
2683.0	559	50282	1.33	164	169	65	229	5072
2683.5	643	60027	1.31	172	177	64	236	6164
2684.0	731	70826	1.29	180	185	62	242	7367
2684.5	823	82694	1.27	188	193	60	249	8678



CROSS-SECTION PROPERTIES FOR COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 SECID=X-TW AT DISTANCES= 19382 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2685.0	919	95907	1.24	295	200	59	254	10159
2685.5	1016	110248	1.22	201	205	58	259	11758
2686.0	1120	125671	1.21	207	212	57	264	13460
2686.5	1227	139089	1.22	224	210	56	280	14724
2687.0	1340	157768	1.20	228	234	55	283	16804
2687.5	1456	177126	1.19	235	241	52	287	18833
2688.0	1576	196448	1.20	249	255	41	290	20507
2688.5	1705	217062	1.22	268	274	25	293	22105
2689.0	1845	238603	1.25	296	302	0	296	23375
2689.5	1994	264706	1.24	299	306	0	299	26214
2689.6	2024	270089	1.24	300	307	0	300	26796



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 10. DATE= 1/30/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-X  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4 ;

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10 50,100,500 T-X  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
T-TW	AT 16324	/ 0	/ 2660.	/ 466.	/ 37511.	/ 1.37	/ 20.	/ 142.
	2671.28	/ 0.69		/ 2671.57	/ 5.71	/ 0.49		*IS*
===== BEGIN BRIDGE ANALYSIS =====								
BO-TU	AT 16324	/	/ 2660.	/ 404.	/ 28207.	/ 1.00	/ 14.	/ 98.
	2671.28	/ 0.67	...1...	(0.060)	/ 6.58	/ 0.52		*R0*

NO EMBANKMENT CROSS SECTION

T	APP-U	AT 16467	/ 143	/ 2660.	/ 763.	/ 54244.	/ 1.33	/ 24.	/ 235.		
		2672.22	/ 0.25	/ 0.50	/ 0.0	/ 2672.47	/ 3.49	/ 0.29	/ -0.001 *AS*		
	M =	0.20	/ E =	0.11	/ K* =	0.41	/ 831.	/ 61279.	/ 1.29	/ 23.	/ 235.
		2672.54	/ 0.21		/ 2672.75	/ 3.20	/ 0.26		*AS*		
===== END BRIDGE ANALYSIS =====											
V	V	AT 17170	/ 703	/ 2660.	/ 635.	/ 46723.	/ 1.16	/ 10.	/ 211.		
		2674.23	/ 0.32	/ 1.74	/ 0.06	/ 2674.54	/ 4.19	/ 0.43	/ 0.003 *XS*		
V	W	AT 18375	/ 1205	/ 2570.	/ 644.	/ 39422.	/ 1.35	/ 133.	/ 453.		
		2678.70	/ 0.33	/ 4.47	/ 0.01	/ 2679.03	/ 3.99	/ 0.43	/ 0.007 *XS*		
K	X-TW	AT 19382	/ 1007	/ 2570.	/ 488.	/ 42399.	/ 1.36	/ 67.	/ 224.		
		2682.56	/ 0.59	/ 3.98	/ 0.13	/ 2683.14	/ 5.27	/ 0.46	/ 0.005 *XS*		

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 12,DATE= 1/30/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10 50 100.500 T-X  
 PAGE 1 OF 1. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REN
WS ELEV / HV / HF / HF / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 4480. / 616. / 53659. / 1.36 / 17. / 149.
2672.46 / 1.12 / / 2673.58 / 7.28 / 0.59 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 4480. / 504. / 38962. / 1.00 / 12. / 102.
2672.46 / 1.23 / ...1... (0.058) / 8.89 / 0.65 / *R0*
=====
    
```

NO EMBANKMENT CROSS SECTION

```

=====
T APP-U AT 16467 / 143 / 4480. / 1114. / 93969. / 1.20 / 19. / 239.
2673.85 / 0.30 / 0.57 / 0.0 / 2674.15 / 4.02 / 0.29 / -0.000 *AS*
=====
    
```

```

M = 0.30 / E = 0.12 / K* = 0.61 / 1300. / 118462. / 1.18 / 17. / 242.
2674.69 / 0.22 / / 2674.90 / 3.45 / 0.23 / *AS*
=====
    
```

```

===== END BRIDGE ANALYSIS =====
U V AT 17170 / 703 / 4480. / 996. / 90767. / 1.07 / 7. / 229.
2675.94 / 0.34 / 1.31 / 0.06 / 2676.27 / 4.50 / 0.40 / -0.002 *XS*
=====
    
```

```

V W AT 18375 / 1205 / 4340. / 956. / 69749. / 1.16 / 107. / 458.
2679.63 / 0.37 / 3.70 / 0.02 / 2680.00 / 4.54 / 0.43 / 0.007 *XS*
=====
    
```

```

W X-TW AT 19382 / 1007 / 4340. / 673. / 63604. / 1.30 / 63. / 238.
2683.67 / 0.84 / 4.28 / 0.23 / 2684.51 / 6.25 / 0.53 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 14. DATE= 1/30/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4 :

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 5370. / 672. / 60259. / 1.35 / 17. / 151.
2672.88 / 1.35 / / 2674.23 / 8.00 / 0.64 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 5370. / 541. / 43188. / 1.00 / 11. / 103.
2672.88 / 1.53 / ...1... (0.057) / 9.93 / 0.71 / *80*
=====
    
```

NO EMBANKMENT CROSS SECTION

```

=====
APP-U AT 16467 / 143 / 5370. / 1257. / 112714. / 1.18 / 17. / 241.
2674.50 / 0.33 / 0.61 / 0.0 / 2674.83 / 4.27 / 0.29 / -0.000 *AS*
=====
M = 0.32 / E = 0.13 / K* = 0.64 / 1509. / 144466. / 1.18 / 14. / 260.
2675.58 / 0.23 / / 2675.81 / 3.56 / 0.23 / *AS*
===== END BRIDGE ANALYSIS =====
V AT 17170 / 703 / 5370. / 1175. / 116085. / 1.06 / 6. / 237.
2676.73 / 0.34 / 1.21 / 0.06 / 2677.07 / 4.57 / 0.39 / 0.000 *XS*
=====
W AT 18375 / 1205 / 5200. / 1111. / 86705. / 1.13 / 93. / 460.
2680.06 / 0.38 / 3.34 / 0.02 / 2680.44 / 4.68 / 0.46 / 0.006 *XS*
=====
X-TW AT 19382 / 1007 / 5200. / 747. / 72784. / 1.28 / 62. / 243.
2684.09 / 9.97 / 4.31 / 0.29 / 2685.05 / 6.96 / 0.56 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-X  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
X-TW: KO/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10.50.100 (500) T-X  
 PAGE 1 OF 1. PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 7700. / 801. / 76697. / 1.3 / 15. / 157.
2673.82 / 1.90 / / 2675.2 / 9.61 / 0.73 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 7700. / 526. / 53678. / 1.00 / 9. / 105.
2673.82 / 2.35 / ...1... (0.055) / 12.29 / 0.83 / *BO*
```

NO EMBANKMENT CROSS SECTION

```
=====
APP-U AT 16467 / 143 / 7700. / 1615. / 158502. / 1.18 / 13. / 267.
2676.00 / 0.42 / 0.70 / 0.0 / 2676.42 / 4.77 / 0.30 / -0.000 *AS*
```

```
M = 0.37 / E = 0.14 / K* = 0.75 / 2141. / 233378. / 1.19 / 8. / 299.
2677.93 / 0.24 / / 2678.17 / 3.60 / 0.25 / *AS*
```

END BRIDGE ANALYSIS

```
=====
V AT 17170 / 703 / 7700. / 1674. / 196758. / 1.05 / 3. / 256.
2678.79 / 0.35 / 0.91 / 0.05 / 2679.13 / 4.60 / 0.34 / 0.000 *XS*
```

```
=====
* AT 18375 / 1205 / 7470. / 1569. / 142631. / 1.09 / 57. / 466.
2681.24 / 0.38 / 2.47 / 0.02 / 2681.62 / 4.76 / 0.43 / 0.002 *XS*
```

```
=====
X-TW AT 19382 / 1007 / 7470. / 909. / 94504. / 1.25 / 59. / 253.
2684.95 / 1.31 / 4.17 / 0.46 / 2686.26 / 8.21 / 0.63 / 0.001 *XS*
```

END OF THIS PROFILE



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER	PROFILES	10.50.100.500	I-AF	22	* 02 05 10	
2	2	26711	26721	26731	267382			
3	2501	T-T	1	19	2653	16324	99 99	
4	2501	2660	4450	5370	7700			
5	2505	0	1	26793	10	1	26767	22 1 26699 55 1 26679 73 2 26679
5	2506	79	2	26669	86	2	26646	89 2 26627 92 2 26617 97 2 26617
5	2507	182	2	26621	105	2	26626	108 2 26644 115 3 26689 139 3 26708
5	2508	162	3	26747	177	3	26765	200 3 26783 220 3 26796
6	2515	1	2	075 050	1	2	055 050	2 * 065 050
3	2600	RR-TU	2	70	1	2663	16324	10 26783 1 1
5	2605	0	1	26783	0	1	26771	6 1 26757 15 1 26705 18 1 26694
5	2606	31	1	26682	46	1	26676	52 1 26641 53 1 26640 56 1 26620
5	2607	65	1	26618	75	1	26626	73 1 26633 78 1 26634 83 1 26669
5	2608	93	1	26695	104	1	26732	108 1 26760 108 1 26783 0 -9 26783
6	2615	1	2	060 060				
3	2620	RR-TU	3	4				
5	2625	2	26624	2	26680	4	26630	4 26782
3	2700	TAPP-U	5	24	3	2664	16457	1 5
5	2705	0	1	26795	4	1	26794	23 1 26724 41 1 26686 42 2 26686
5	2706	76	3	26560	82	3	26634	83 3 26633 87 3 26625 95 3 26626
5	2707	100	3	26625	105	3	26634	107 3 26640 112 4 26683 126 4 26689
5	2708	150	5	26694	200	5	26705	235 5 26710 235 5 26726 242 5 26748
5	2709	250	5	26750	300	5	26780	356 5 26812 373 5 26820
6	2715	1	2	050 050	1	2	050 050	1 2 055 045 1 2 055 045
3	2800	W	0	18	1	2668	17170	99 99
5	2805	0	1	26668	15	1	26710	34 2 26698 39 2 26679 41 2 26668
5	2806	42	2	26606	44	2	26657	48 2 26649 52 2 26653 58 2 26666
5	2807	58	2	26668	62	3	26709	66 3 26701 100 3 26717 150 3 26719
5	2808	200	3	26732	250	3	26730	275 3 26811
6	2815	1	2	050 065	1	2	055 055	1 2 050 040
3	2900	W	1	24	3	2673	18375	99 99
4	2901	2570	4340	5200	7470			
5	2905	0	1	26896	43	1	26017	126 1 26720 150 1 26780 187 1 26771
5	2906	207	2	26758	223	2	26727	224 2 26725 226 2 26716 233 2 26715
5	2907	245	2	26717	249	2	26726	250 2 26730 251 2 26753 267 3 26771
5	2908	300	3	26771	350	3	26767	400 3 26775 450 3 26780 480 3 26841
5	2909	525	3	26801	551	3	26835	600 3 26842 650 3 26392
6	2915	1	2	045 040	1	2	065 055	1 2 045 040
3	3000	X-T-W	0	21	3	2675	19382	99 99
5	3005	0	1	26890	16	1	26888	50 1 26977 55 1 26851 60 1 26846
5	3006	73	1	26807	90	2	26813	94 2 26763 98 2 26751 100 2 26744
5	3007	106	2	26743	116	2	26740	122 2 26751 123 2 26761 129 3 26793
5	3008	150	3	26802	200	3	26807	250 3 26846 268 3 26864 279 3 26863
5	3009	300	3	26895				
6	3015	1	2	060 060	1	2	055 045	1 2 045 040

Use X - AF

Good X - AF

except 500 AB-AF



\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
3	3100	RO-XY 2	22	1	2676	19382	0	26855 4 0
5	3105	0	1	26861	0	1	26917	7 1 26807 18 1 26808 18 1 26793
5	3106	25	1	26757	26	1	26752	28 1 26742 37 1 26749 46 1 26749
5	3107	6	1	26765	51	1	26771	55 1 26783 63 1 26798 70 1 26800
5	3108	77	1	26804	77	1	26861	58 1 26861 58 1 26850 59 1 26850
5	3109	19	1	26861	0	-9	26861	
5	3115	1	2	055 055				
3	3120	RR-XY 3	0				3	
5	3125	1		26785	1		26787	2 26787 2 26817 3 26817
5	3126	3		26850	2		26850	2 26861
3	3150	RO-XY 4	7	3	30	1	3	1 1 1 2
5	3155	0	1	26900	50	1	26881	83 2 26570 160 3 26877 200 3 26870
5	3156	300	3	26862	300	3	26900	
3	3200	APP-Y 5	22	5	2677	19502	1	5
5	3205	0	1	26900	4	1	26884	3 1 26886 22 1 26887 32 1 26871
5	3206	50	2	26830	53	2	26823	68 3 26922 74 3 26770 79 3 26758
5	3207	91	3	26753	85	3	26748	93 3 26752 97 3 26759 98 3 26768
5	3208	103	4	26794	124	4	26785	127 5 26786 150 5 26790 166 5 26828
5	3209	150	5	26865	200	5	26905	
5	3215	1	2	055 045	1	2	055 045	1 2 045 035 1 2 045 035
3	3280	NYPRIM 0	20	3	2677	19605	99	99
5	3285	0	1	26903	4	1	26887	8 1 26889 22 1 26890 32 1 26874
5	3286	53	1	26836	66	2	26825	74 2 26773 79 2 26761 81 2 26756
5	3287	85	2	26753	93	2	26735	97 2 26762 98 2 26771 103 3 26797
5	3288	124	3	26788	150	3	26793	166 3 26831 180 3 26868 290 3 26908
5	3295	1	2	055 045	1	2	055 055	1 2 045 035
3	3300	Z-DAM 0	23	1	2688	19607	99	99
5	3305	0	1	26960	42	1	26936	52 1 26914 55 1 26917 69 1 26922
5	3306	86	1	26935	125	1	26928	136 1 26898 142 1 26876 163 1 26870
5	3307	179	1	26867	184	1	26867	190 1 26867 198 1 26866 210 1 26868
5	3308	222	1	26869	230	1	26869	247 1 26869 252 1 26980 269 1 26991
5	3309	273	1	27003	283	1	27010	287 1 27032
5	3315	1	2	035 035				
3	3400	44	0	29	3	2687	20320	99 99
5	3405	0	1	27016	19	1	26982	37 1 26991 45 1 26987 100 1 26974
5	3406	112	1	26968	121	1	26947	140 1 26935 152 1 26922 165 1 26918
5	3407	190	1	26921	194	1	26912	198 1 26888 202 2 26898 216 2 26882
5	3408	220	2	26868	224	2	26857	239 2 26860 251 2 26865 263 2 26867
5	3409	273	2	26863	279	2	26864	265 2 26883 285 2 26902 300 3 26902
5	3410	350	3	26902	358	3	26913	379 3 26982 381 3 27014
5	3415	1	2	060 050	1	2	045 040	1 2 050 040
3	3500	AB-14 0	30	3	2686	20881	99	99
5	3505	0	1	27012	6	1	26992	14 1 26971 27 1 26955 41 1 26954
5	3506	48	1	26946	52	1	26925	100 1 26901 150 1 26898 200 2 26908
5	3507	204	2	26903	204	2	26879	207 2 26867 212 2 26857 223 2 26859







PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BD-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	
BD-XY	WARNING	STATION	18	IS LESS THAN	STATION	17	
BD-XY	WARNING	STATION	20	IS LESS THAN	STATION	19	
BD-XY	WARNING	STATION	22	IS LESS THAN	STATION	21	
BR-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 5. DATE=12/31/77

INPUT SUMMARY FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF

22 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 22 TYPE 3 CARDS

KEPT 22 CROSS SECTIONS FOR EDITING

22 " " VALID FOR PROPERTY COMPUTATIONS

22 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=T-TW AT DISTANCE= 16324 PART 1 OF 1

WS	A	K	ALPHA	B	H	LEW	REW	QC
2663.0	17	451	1.00	17	18	89	106	96
2663.5	26	885	1.00	19	19	88	107	174
2664.0	36	1467	1.00	20	21	87	107	269
2664.5	46	2189	1.00	22	23	86	108	382
2665.0	58	2967	1.00	24	26	85	109	508
2665.5	71	3874	1.00	25	28	83	110	654
2666.0	84	4928	1.00	29	31	82	110	819
2666.5	99	6136	1.00	31	33	80	111	1007
2667.0	115	7470	1.00	34	36	78	112	1213
2667.5	133	8845	1.00	37	40	75	113	1425
2668.0	155	10550	1.02	60	63	53	114	1391
2668.5	187	12992	1.12	69	72	45	114	1648
2669.0	224	15849	1.21	79	83	37	115	1944
2669.5	267	19312	1.30	94	97	29	123	2248
2670.0	318	23431	1.36	107	110	22	120	2662
2670.5	373	28553	1.36	114	118	21	135	3282
2671.0	432	34150	1.37	120	124	20	140	3974
2671.5	493	40282	1.37	124	128	19	143	4763
2672.0	556	46878	1.37	128	132	18	146	5622
2672.5	621	54269	1.36	132	136	17	149	6553
2673.0	688	62230	1.35	135	140	17	152	7566
2673.5	756	70838	1.33	139	144	16	155	8656
2674.0	827	80123	1.32	143	148	15	158	9825
2674.5	900	90120	1.30	147	152	14	161	11075
2675.0	974	100693	1.29	152	156	13	165	12358
2675.5	1051	111915	1.27	157	162	12	169	13690
2676.0	1131	123956	1.26	162	167	11	173	15111
2676.5	1213	136318	1.26	167	172	10	177	16561
2677.0	1298	148594	1.26	175	180	9	183	17864
2677.5	1387	161490	1.27	183	188	7	190	19223
2678.0	1471	175195	1.28	191	197	5	196	20677
2678.5	1579	189609	1.29	200	206	3	203	22185
2679.0	1681	204723	1.29	210	215	1	211	23736
2679.5	1788	221114	1.30	218	225	0	218	25468
2679.6	1810	224501	1.30	220	226	0	220	25848

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=SC-TB AT DISTANCE= 16324 PART 1 OF 2

WS	A	K	ALPHA	B	H	LEW	REW	QC
2663.0	19	421	1.00	22	23	55	77	100
2663.5	31	875	1.00	24	25	54	78	196
2664.0	43	1480	1.00	26	27	53	79	318



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=RO-TU AT DISTANCE= 16324 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2664.5	57	2195	1.00	28	30	51	60	459
2665.0	72	3077	1.00	30	31	50	60	629
2665.5	87	4090	1.00	31	33	50	61	819
2666.0	103	5255	1.00	33	35	49	62	1032
2666.5	120	6514	1.00	35	37	48	62	1266
2667.0	138	7900	1.00	36	39	47	63	1517
2667.5	156	9320	1.00	39	42	46	65	1773
2668.0	179	9807	1.00	51	54	36	67	1890
2668.5	207	11194	1.00	61	65	28	69	2158
2669.0	240	13276	1.00	69	72	22	91	2538
2669.5	276	15824	1.00	75	79	18	93	2995
2670.0	314	19170	1.00	78	82	15	94	3574
2670.5	354	22823	1.00	81	85	15	96	4198
2671.0	395	26865	1.00	83	87	14	97	4879
2671.5	437	31212	1.00	86	90	13	99	5603
2672.0	481	35867	1.00	88	92	12	100	6372
2672.5	525	40829	1.00	90	95	12	102	7183
2673.0	571	46102	1.00	93	97	11	103	8039
2673.5	618	51822	1.00	95	100	10	104	8958
2674.0	666	57936	1.00	96	101	9	105	9932
2674.5	714	64351	1.00	98	103	8	106	10948
2675.0	763	71065	1.00	99	105	7	107	12064
2675.5	814	78079	1.00	101	107	6	107	13100
2676.0	865	85037	1.00	103	110	5	108	14187
2676.5	917	92254	1.00	105	112	3	108	15332
2677.0	970	99765	1.00	108	115	0	108	16520
2677.5	1024	108351	1.00	108	116	0	108	17883
2678.0	1078	117370	1.00	108	117	0	108	19316
2678.3	1110	79683	1.00	0	226	0	108	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=APD-U AT DISTANCE= 16467 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2664.0	31	948	1.00	26	26	81	107	191
2664.5	44	1479	1.00	27	28	81	108	318
2665.0	58	2245	1.00	28	29	80	108	469
2665.5	72	3146	1.00	29	31	79	109	641
2666.0	87	4173	1.00	31	33	79	109	834
2666.5	103	5323	1.00	32	34	78	110	1048
2667.0	119	6597	1.00	33	36	77	110	1282
2667.5	136	7994	1.00	34	37	77	111	1535
2668.0	154	9514	1.00	36	39	76	112	1809



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=APP-U AT DISTANCE= 16467 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2666.5	179	11405	1.07	69	72	43	117	1579
2669.0	220	13831	1.23	92	95	39	131	1745
2669.5	273	16868	1.37	118	121	37	155	2010
2670.0	338	20771	1.46	143	147	34	177	2435
2670.5	415	25794	1.49	168	172	32	200	3032
2671.0	509	32076	1.51	205	209	30	235	3695
2671.5	612	39906	1.47	208	212	27	235	4921
2672.0	717	49441	1.37	210	215	25	235	6409
2672.5	822	60380	1.29	212	218	23	235	8074
2673.0	929	71954	1.25	215	221	21	236	9799
2673.5	1037	84554	1.22	218	224	20	238	11625
2674.0	1147	98169	1.20	221	227	19	239	13551
2674.5	1258	112773	1.18	224	230	17	241	15569
2675.0	1371	126694	1.18	234	240	16	250	17315
2675.5	1491	142038	1.18	244	250	15	258	19232
2676.0	1615	158518	1.18	253	260	13	267	21265
2676.5	1744	176161	1.18	263	270	12	275	23417
2677.0	1878	194993	1.18	273	280	11	283	25690
2677.5	2017	215041	1.18	283	289	9	292	28087
2678.0	2161	236331	1.19	292	299	8	300	30610
2678.5	2319	258757	1.19	302	309	6	309	33233
2679.0	2463	282497	1.19	312	320	5	318	35990
2679.5	2622	306742	1.20	326	333	0	326	38539
2680.0	2787	333509	1.20	335	343	0	335	41706
2680.5	2957	361657	1.19	344	352	0	344	45013
2681.0	3131	391206	1.19	353	361	0	353	48461
2681.5	3310	421634	1.19	362	372	0	362	51944
2682.0	3493	453214	1.19	373	383	0	373	55509

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=V AT DISTANCE= 17170 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2666.0	8	152	1.00	12	12	43	55	35
2666.5	14	370	1.00	15	16	42	58	80
2667.0	23	712	1.00	18	18	41	58	147
2667.5	32	1176	1.00	19	20	40	59	235
2668.0	42	1738	1.00	20	22	39	59	338
2668.5	52	2389	1.00	22	24	37	60	456
2669.0	64	3150	1.00	24	26	36	60	592
2669.5	76	4025	1.00	26	28	35	61	746
2670.0	90	5079	1.01	30	33	31	61	878
2670.5	110	6407	1.10	54	57	23	90	851



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=V AT DISTANCE= 17170 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2671.0	144	8162	1.29	79	82	15	94	977
2671.5	185	10636	1.36	84	87	14	98	1337
2672.0	238	13282	1.57	140	144	13	154	1405
2672.5	313	17698	1.57	160	164	13	173	1984
2673.0	399	23544	1.47	180	184	12	192	2770
2673.5	493	31671	1.31	192	196	11	203	3914
2674.0	590	42020	1.18	198	202	10	208	5319
2674.5	691	52807	1.13	204	208	10	214	7171
2675.0	794	64860	1.70	210	214	9	219	8339
2675.5	900	78158	1.08	216	220	8	224	10018
2676.0	1010	92687	1.07	222	227	7	229	11805
2676.5	1122	108438	1.06	228	233	7	234	13700
2677.0	1238	125409	1.06	234	239	6	240	15702
2677.5	1356	143599	1.05	240	245	5	245	17813
2678.0	1477	163015	1.05	246	251	4	250	20033
2678.5	1601	184106	1.05	251	256	4	254	22408
2679.0	1728	206418	1.05	255	261	3	258	24888
2679.5	1857	229949	1.05	260	266	2	262	27471
2680.0	1988	254698	1.05	265	271	1	266	30158
2680.5	2122	280668	1.05	270	276	0	270	32950
2681.0	2258	307930	1.05	274	281	0	274	35873
2681.1	2285	313546	1.05	275	282	0	275	36478

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=W AT DISTANCE= 18375 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2673.0	33	869	1.00	28	29	222	250	203
2673.5	48	1672	1.00	30	31	220	250	339
2674.0	63	2835	1.00	33	34	218	250	502
2674.5	80	4054	1.00	35	36	216	251	692
2675.0	98	5419	1.00	37	39	214	251	907
2675.5	117	6818	1.00	41	43	212	253	1128
2676.0	139	8266	1.00	47	49	210	257	1357
2676.5	164	10041	1.00	53	56	208	262	1633
2677.0	202	12355	1.08	127	129	194	367	1394
2677.5	298	16956	1.37	224	226	171	394	1665
2678.0	428	23799	1.53	300	303	150	450	2344
2678.5	581	33313	1.41	314	317	138	452	3769
2679.0	742	48295	1.26	329	332	126	455	5623
2679.5	911	65162	1.18	347	349	111	457	7723
2680.0	1099	84198	1.13	365	367	95	460	10031
2680.5	1276	105952	1.10	382	385	80	462	12577



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=W AT DISTANCE= 18375 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2681.0	1471	130075	1.09	400	403	65	465	15325
2681.5	1676	156846	1.08	418	421	49	467	18299
2682.0	1898	187221	1.07	429	432	41	470	21750
2682.5	2104	220814	1.05	434	437	38	472	25584
2683.0	2322	256935	1.04	440	443	35	475	29628
2683.5	2551	291322	1.04	484	487	32	546	32573
2684.0	2809	305915	1.06	550	553	29	584	35017
2684.5	3095	348264	1.06	577	581	26	603	39551
2685.0	3385	399433	1.04	586	589	22	608	45186
2685.5	3680	453787	1.04	594	597	19	613	51074
2686.0	3979	511286	1.03	602	605	16	618	57213
2686.5	4282	571898	1.02	610	614	13	623	63600
2687.0	4589	635593	1.02	618	622	10	628	70232
2687.5	4900	702350	1.02	626	630	7	633	77107
2688.0	5215	772151	1.01	634	638	4	638	84224
2688.5	5534	844980	1.01	642	646	1	643	91581
2689.0	5857	922621	1.01	648	652	0	648	99363
2689.2	5987	954686	1.01	650	655	0	650	102557

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=X-TW AT DISTANCE= 19382 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2675.0	16	325	1.00	23	23	98	121	73
2675.5	28	804	1.00	26	26	97	122	165
2676.0	41	1571	1.00	28	29	95	123	286
2676.5	56	2676	1.00	30	31	94	124	434
2677.0	71	3982	1.00	31	33	93	125	612
2677.5	87	5394	1.00	32	34	93	125	811
2678.0	104	6984	1.00	34	36	93	126	1033
2678.5	121	8748	1.00	35	37	92	127	1276
2679.0	138	10684	1.00	36	39	92	128	1540
2679.5	157	12791	1.00	37	40	91	129	1824
2680.0	176	15164	1.01	45	52	91	140	1899
2680.5	209	18041	1.12	89	93	91	180	1720
2681.0	264	21393	1.29	123	127	72	204	1935
2681.5	331	27001	1.39	140	144	70	210	2448
2682.0	403	33556	1.40	148	153	69	217	3187
2682.5	479	41425	1.36	156	161	67	223	4076
2683.0	559	50282	1.33	164	169	65	229	5072
2683.5	643	60027	1.31	172	177	64	236	6164
2684.0	731	70826	1.29	180	185	62	242	7367
2684.5	823	82694	1.27	188	193	60	249	8678



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=X-TW AT DISTANCE= 19332 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2685.0	919	95907	1.24	195	200	59	254	10159
2685.5	1018	110248	1.22	201	206	58	259	11758
2686.0	1120	125671	1.21	207	212	57	264	13460
2686.5	1227	139089	1.22	224	230	56	280	14724
2687.0	1340	157768	1.20	228	234	55	283	16804
2687.5	1456	177126	1.19	235	241	52	287	18833
2688.0	1576	196448	1.20	249	255	41	290	20507
2688.5	1705	217062	1.22	268	274	25	293	22105
2689.0	1845	238603	1.25	296	302	0	296	23375
2689.5	1994	264706	1.24	299	306	0	299	26214
2689.6	2024	270089	1.24	300	307	0	300	26798

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=HO-XY AT DISTANCE= 19332 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2676.0	26	772	1.00	22	23	24	46	164
2676.5	37	1326	1.00	23	25	23	46	272
2677.0	50	1891	1.00	28	30	22	50	379
2677.5	65	2716	1.00	31	33	21	52	530
2678.0	81	3727	1.00	33	36	21	54	710
2678.5	98	4879	1.00	37	39	20	56	912
2679.0	117	6178	1.00	40	43	19	59	1136
2679.5	138	7708	1.00	43	47	18	61	1399
2680.0	161	8844	1.00	52	56	18	70	1609
2680.5	189	10618	1.00	59	64	18	77	1923
2681.0	222	12124	1.00	72	77	5	77	2207
2681.5	259	15149	1.00	76	81	1	77	2716
2682.0	297	18736	1.00	77	84	0	77	3311
2682.5	336	22773	1.00	77	85	0	77	3975
2683.0	374	27078	1.00	77	86	0	77	4678
2683.5	412	31634	1.00	77	87	0	77	5418
2684.0	451	36425	1.00	77	88	0	77	6194
2684.5	490	41437	1.00	77	89	0	77	7003
2685.0	529	46677	1.00	38	129	0	77	11168
2685.5	568	52104	1.00	38	131	0	77	11776
2686.0	566	40348	1.00	38	133	0	77	12395
2686.1	570	34440	1.00	0	171	0	77	0



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=APP-Y AT DISTANCE= 19502 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2677.0	36	1254	1.00	24	25	74	98	250
2677.5	49	1965	1.00	26	27	73	99	380
2678.0	62	2813	1.00	27	29	73	100	530
2678.5	76	3796	1.00	29	31	72	101	701
2679.0	100	5028	1.13	63	70	72	150	648
2679.5	138	6951	1.20	81	83	71	152	930
2680.0	179	9726	1.15	84	86	71	154	1386
2680.5	222	13495	1.05	86	89	70	156	1960
2681.0	265	18343	1.01	89	92	69	158	2588
2681.5	311	23538	1.00	92	95	69	161	3236
2682.0	357	29218	1.01	94	98	68	163	3922
2682.5	409	35673	1.03	110	116	52	165	4344
2683.0	466	43018	1.06	117	121	50	167	5132
2683.5	526	51184	1.08	121	125	48	169	5988
2684.0	587	60223	1.09	125	129	46	171	6924
2684.5	651	70100	1.09	129	133	43	172	7930
2685.0	716	80658	1.10	133	137	41	174	8983
2685.5	784	92011	1.11	137	142	39	176	10100
2686.0	853	104172	1.11	141	146	37	178	11280
2686.5	925	117168	1.12	145	150	35	180	12527
2687.0	999	130729	1.12	150	155	32	183	13816
2687.5	1075	145065	1.12	156	160	29	185	15120
2688.0	1154	160247	1.13	161	166	26	188	16481
2688.5	1236	176124	1.14	169	174	4	190	17766
2689.0	1328	192400	1.17	190	195	2	193	18429
2689.5	1424	211171	1.17	194	199	1	195	20228
2690.0	1522	230885	1.18	198	203	0	198	22103
2690.5	1621	251735	1.18	200	206	0	200	24147

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=YPRIM AT DISTANCE= 19605 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2677.0	28	858	1.00	23	23	75	98	176
2677.5	40	1449	1.00	25	26	74	99	286
2678.0	53	2204	1.00	27	28	73	100	423
2678.5	66	3097	1.00	28	29	73	101	580
2679.0	82	4136	1.03	45	46	72	134	626
2679.5	114	5608	1.18	74	76	71	151	733
2680.0	154	7882	1.19	82	84	71	153	1093
2680.5	195	11031	1.10	85	87	70	155	1601
2681.0	238	15236	1.02	87	90	70	157	2205
2681.5	283	20329	1.00	90	93	69	159	2839



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50, 100.500 T-AF  
 SECID=YPRIM AT DISTANCE= 19605 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2682.0	326	25620	1.00	93	96	69	161	3502
2682.5	375	31507	1.01	95	99	68	163	4212
2683.0	431	38305	1.03	114	118	51	166	4665
2683.5	489	45905	1.06	118	122	49	168	5486
2684.0	549	54276	1.07	123	126	47	169	6379
2684.5	612	63460	1.08	127	131	45	171	7349
2685.0	676	73488	1.08	131	135	42	173	8397
2685.5	742	84200	1.08	135	139	40	175	9500
2686.0	811	95630	1.09	139	143	38	177	10663
2686.5	881	107823	1.09	143	147	36	179	11892
2687.0	954	120650	1.09	147	152	34	181	13181
2687.5	1029	134035	1.09	152	157	31	184	14518
2688.0	1106	148114	1.09	158	163	28	186	15878
2688.5	1186	163042	1.10	163	168	25	189	17313
2689.0	1271	178813	1.14	189	193	3	191	17541
2689.5	1366	193510	1.14	192	197	2	194	19377
2690.0	1462	212209	1.14	195	201	1	196	21306
2690.5	1561	231982	1.13	199	204	0	199	23363
2690.8	1621	244381	1.13	200	206	0	200	24672

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50, 100.500 T-AF  
 SECID=Z-DAM AT DISTANCE= 19647 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2688.0	118	5236	1.00	111	111	141	252	691
2688.5	174	9863	1.00	113	114	140	253	1226
2689.0	231	15608	1.00	115	116	138	254	1859
2689.5	290	22382	1.00	117	118	137	254	2579
2690.0	349	30190	1.00	120	121	135	255	3377
2690.5	409	38702	1.00	122	124	133	256	4248
2691.0	471	48200	1.00	125	127	132	257	5191
2691.5	535	58146	1.00	129	131	52	257	6170
2692.0	602	68832	1.00	144	145	49	258	6979
2692.5	679	75339	1.00	159	161	47	259	7958
2693.0	762	83868	1.00	181	183	45	260	8876
2693.5	861	90884	1.00	218	221	42	260	9714
2694.0	972	108459	1.00	226	229	35	261	11434
2694.5	1008	127210	1.00	238	239	26	262	13254
2695.0	1208	147540	1.00	245	249	17	263	15277
2695.5	1333	169483	1.00	255	258	9	263	17295
2696.0	1463	193073	1.00	264	268	0	264	19520
2696.5	1595	221269	1.00	265	269	0	265	22196
2697.0	1728	253048	1.00	265	271	0	266	24986



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=7-DAM AT DISTANCE= 19607 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2697.5	1861	285367	1.00	267	272	0	267	27888
2698.0	1994	319183	1.00	267	274	0	267	30897
2698.5	2128	354458	1.00	268	275	0	268	34010
2699.0	2262	391157	1.00	269	276	0	269	37225
2699.5	2397	428617	1.00	270	279	0	270	40489
2700.0	2533	467276	1.00	272	281	0	272	43837
2700.5	2669	504769	1.00	276	285	0	276	47099
2701.0	2809	539945	1.00	283	293	0	283	50199
2701.5	2951	584063	1.00	284	294	0	284	53959
2702.0	3093	629526	1.00	285	296	0	285	57813
2702.5	3236	676309	1.00	286	297	0	286	61750
2703.0	3379	724393	1.00	287	299	0	287	65797
2703.2	3436	743982	1.00	287	300	0	287	67435

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=1A AT DISTANCE= 20320 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	49	1141	1.00	60	60	219	273	208
2687.5	74	2771	1.00	62	63	218	280	456
2688.0	109	5160	1.00	63	65	217	280	764
2688.5	137	8069	1.00	67	69	213	281	1109
2689.0	173	11132	1.00	75	77	198	283	1423
2689.5	212	14760	1.01	84	86	197	285	1903
2690.0	257	19242	1.02	91	93	196	287	2419
2690.5	322	25162	1.13	157	160	195	352	2463
2691.0	402	32654	1.21	161	164	194	356	3265
2691.5	483	41499	1.23	166	169	193	358	4218
2692.0	565	51691	1.24	192	195	158	359	4995
2692.5	673	64053	1.25	211	214	149	360	6099
2693.0	780	77603	1.25	217	220	145	361	7491
2693.5	830	92735	1.25	222	226	140	362	9036
2694.0	1033	109258	1.24	231	235	132	363	10532
2694.5	1121	126999	1.24	240	244	124	364	12320
2695.0	1243	146362	1.24	246	250	120	366	14243
2695.5	1367	167267	1.23	249	253	118	367	16271
2696.0	1492	189496	1.22	252	256	115	368	18616
2696.5	1617	213023	1.22	255	260	113	369	20973
2697.0	1747	237204	1.22	262	266	108	370	23231
2697.5	1861	261406	1.23	275	279	96	371	25143
2698.0	2024	285759	1.27	297	302	75	372	26641
2698.5	2179	310929	1.31	327	337	17	373	27889
2699.0	2351	338972	1.35	356	361	15	374	29550



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=AA AT DISTANCE= 20320 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2699.5	2531	372409	1.35	364	369	12	376	32633
2700.0	2714	408240	1.34	368	373	9	377	36117
2700.5	2900	445780	1.33	372	378	6	378	39760
2701.0	3087	485007	1.32	377	382	3	380	43557
2701.5	3276	526108	1.32	380	386	1	381	47528
2701.6	3314	534678	1.31	381	387	0	381	48257

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10.50.100.500 T-AF  
 SECID=AR-1W AT DISTANCE= 20281 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2686.0	9	120	1.00	29	29	210	239	31
2686.5	24	550	1.00	32	32	208	240	122
2687.0	41	1260	1.00	34	35	206	243	255
2687.5	58	2278	1.00	35	37	205	240	424
2688.0	76	3569	1.00	36	38	204	240	625
2688.5	95	4695	1.00	42	44	204	246	814
2689.0	117	5333	1.00	44	47	204	248	1078
2689.5	139	8268	1.00	45	49	204	249	1382
2690.0	166	10439	1.05	90	94	117	250	1254
2690.5	227	13384	1.25	141	147	92	251	1456
2691.0	306	17772	1.31	168	174	83	251	2041
2691.5	392	24347	1.24	178	184	73	251	2970
2692.0	484	33153	1.13	187	194	64	251	4154
2692.5	580	44570	1.04	197	204	54	251	5522
2693.0	685	57006	1.03	237	244	51	288	6504
2693.5	813	71723	1.07	271	279	50	322	7739
2694.0	956	88653	1.10	299	307	49	349	9237
2694.5	1115	107473	1.15	353	361	48	449	10467
2695.0	1313	129153	1.21	412	420	44	456	12094
2695.5	1523	151895	1.18	437	445	27	444	14870
2696.0	1744	185228	1.12	448	456	23	471	18416
2696.5	1970	219778	1.11	459	468	19	478	22020
2697.0	2203	257679	1.09	470	478	15	485	25923
2697.5	2439	300091	1.07	476	484	12	488	30223
2698.0	2679	345969	1.06	481	489	11	491	34784
2698.5	2920	395409	1.05	484	492	9	492	39664
2699.0	3162	447859	1.04	486	495	7	493	44753
2699.5	3406	503390	1.04	489	498	5	494	50041
2700.0	3651	561733	1.03	492	501	4	496	55495
2700.5	3898	622886	1.03	495	505	2	497	61138
2701.0	4147	686799	1.03	498	508	1	499	66964
2701.5	4397	754152	1.02	501	510	0	501	73013



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AB-TW AT DISTANCE= 20881 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2702.0	4647	824629	1.02	502	513	0	502	79264
2702.3	4798	868131	1.02	503	514	0	503	83094

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=BR-UP AT DISTANCE= 20881 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	40	1236	1.00	33	34	15	48	254
2687.5	57	2120	1.00	34	36	14	48	419
2688.0	74	3214	1.00	35	37	13	48	618
2688.5	92	4469	1.00	35	38	13	48	841
2689.0	109	5870	1.00	35	39	13	48	1088
2689.5	127	7404	1.00	36	40	12	48	1356
2690.0	145	9056	1.00	36	41	12	48	1644
2690.5	163	10824	1.00	37	43	11	48	1950
2691.0	182	12339	1.00	40	46	8	48	2213
2691.5	205	13277	1.00	48	55	0	48	2396
2692.0	229	15782	1.00	48	56	0	48	2830
2692.4	248	11900	1.00	0	105	0	48	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AC-AP AT DISTANCE= 20965 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2687.0	37	1664	1.00	25	25	164	190	254
2687.5	50	2303	1.00	27	28	164	191	387
2688.0	64	3175	1.00	29	30	163	191	544
2688.5	79	4302	1.00	30	32	162	192	722
2689.0	94	5456	1.00	33	35	160	193	904
2689.5	112	6755	1.00	37	39	158	194	1107
2690.0	131	8434	1.00	39	41	156	195	1362
2690.5	150	10303	1.00	41	43	155	196	1641
2691.0	173	12346	1.01	58	61	136	197	1677
2691.5	212	14956	1.12	98	101	100	198	1670
2692.0	266	18781	1.21	119	122	80	199	2058
2692.5	331	23623	1.24	140	143	60	200	2590
2693.0	405	30138	1.20	153	157	48	201	3414
2693.5	482	39040	1.11	155	159	46	202	4585
2694.0	560	49243	1.06	157	161	45	202	5833
2694.5	639	60316	1.04	159	163	44	203	7143
2695.0	720	72175	1.02	163	168	13	205	8471



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AC-AP AT DISTANCE= 20965 PART 2 OF 2

WS	A	K	ALPHA	R	P	LEW	REW	QC
2695.5	804	84108	1.03	174	180	13	208	9671
2696.0	898	94708	1.04	199	205	13	212	10588
2696.5	999	111429	1.04	225	212	13	218	12266
2697.0	1104	129542	1.04	217	223	13	230	13887
2697.5	1217	149083	1.05	237	245	13	250	15292
2698.0	1336	170693	1.05	237	246	13	250	17541
2698.5	1455	193831	1.05	238	247	13	251	19919
2699.0	1574	213400	1.05	238	248	13	251	22413
2699.5	1693	243376	1.05	240	251	11	252	24928
2700.0	1814	269045	1.04	244	254	8	252	27498
2700.5	1937	296062	1.04	247	258	5	252	30175
2701.0	2062	324412	1.03	251	262	2	253	32957
2701.3	2137	342052	1.03	253	264	0	253	34675

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AD AT DISTANCE= 21615 PART 1 OF 2

WS	A	K	ALPHA	R	P	LEW	REW	QC
2687.0	26	636	1.00	29	29	67	96	137
2687.5	41	1406	1.00	30	31	67	97	267
2688.0	55	2547	1.00	31	33	66	98	425
2688.5	72	3934	1.00	33	34	66	99	609
2689.0	89	5392	1.00	34	36	66	100	816
2689.5	106	7036	1.00	35	37	65	100	1047
2690.0	124	8858	1.00	36	39	65	101	1299
2690.5	142	10886	1.00	39	42	63	102	1530
2691.0	163	13204	1.02	46	49	57	103	1729
2691.5	188	15810	1.06	54	57	51	104	1949
2692.0	217	18766	1.09	62	65	43	105	2206
2692.5	251	22144	1.14	81	85	36	144	2356
2693.0	300	26258	1.23	116	120	28	144	2480
2693.5	359	32048	1.26	120	125	24	144	3136
2694.0	420	39187	1.23	124	129	20	144	3952
2694.5	484	47121	1.21	131	136	16	147	4808
2695.0	551	56159	1.18	136	142	14	150	5791
2695.5	620	66087	1.16	140	146	12	152	6878
2696.0	691	76915	1.14	144	150	11	155	8043
2696.5	764	88636	1.12	148	154	10	158	9283
2697.0	839	101244	1.11	152	158	9	161	10596
2697.5	916	114738	1.10	156	162	8	164	11980
2698.0	995	129138	1.10	160	166	7	167	13438
2698.5	1075	144496	1.09	163	170	6	169	14975
2699.0	1158	160743	1.09	167	174	5	172	16582



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AD AT DISTANCE= 21615 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2699.5	1243	177883	1.08	171	178	4	175	18259
2700.0	1330	194965	1.09	178	185	3	181	19773
2700.5	1420	213090	1.09	184	192	2	187	21372
2701.0	1514	232274	1.10	191	199	1	193	23056
2701.5	1611	253375	1.10	195	203	1	196	25039
2701.8	1670	267249	1.09	196	204	0	196	26453

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AF AT DISTANCE= 22100 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2688.0	6	72	1.00	21	21	273	294	20
2688.5	18	365	1.00	26	26	269	295	89
2689.0	32	879	1.00	28	29	268	296	194
2689.5	46	1698	1.00	29	30	267	295	331
2690.0	61	2828	1.00	30	32	266	297	493
2690.5	77	3987	1.00	32	33	265	297	678
2691.0	93	5303	1.00	33	35	265	298	884
2691.5	110	6781	1.00	34	37	264	296	1112
2692.0	127	8421	1.00	36	38	263	299	1362
2692.5	148	10366	1.03	49	52	250	299	1431
2693.0	180	12767	1.13	61	84	219	300	1436
2693.5	247	16188	1.39	173	176	128	301	1423
2694.0	341	21812	1.45	201	205	100	301	2091
2694.5	444	29899	1.32	214	217	88	302	3167
2695.0	554	40545	1.18	226	230	76	302	4532
2695.5	671	53672	1.09	239	243	64	303	6104
2696.0	794	66623	1.04	255	259	52	307	7804
2696.5	924	82146	1.01	266	270	46	312	9736
2697.0	1060	99971	1.00	276	280	41	317	11781
2697.5	1199	120828	1.00	283	287	36	319	14003
2698.0	1342	143801	1.00	289	293	32	320	16378
2698.5	1488	168608	1.01	295	300	27	322	18889
2699.0	1637	195229	1.01	301	306	22	323	21537
2699.5	1789	224149	1.01	306	311	18	325	24358
2700.0	1943	255182	1.02	311	316	15	326	27331
2700.5	2100	287993	1.02	315	320	12	327	30431
2701.0	2258	322564	1.02	319	324	9	329	33655
2701.5	2419	358877	1.03	324	329	6	330	37004
2702.0	2582	396919	1.03	328	333	4	331	40475
2702.5	2747	436680	1.03	332	338	1	333	44068
2702.9	2780	444834	1.03	333	339	0	333	44401



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 SECID=AF AT DISTANCE= 23325 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REN	QC
2693.0	30	1045	1.00	21	22	55	75	205
2693.5	40	1734	1.00	21	23	55	76	316
2694.0	51	2512	1.00	22	24	54	76	444
2694.5	62	3361	1.00	23	26	54	77	585
2695.0	74	4295	1.00	24	27	53	77	737
2695.5	87	5342	1.00	26	29	52	77	905
2696.0	100	6565	1.00	27	31	51	78	1090
2696.5	114	7803	1.00	28	33	50	78	1295
2697.0	132	9370	1.05	50	55	49	99	1189
2697.5	167	11362	1.23	102	106	48	150	1090
2698.0	227	14454	1.44	138	143	48	186	1373
2698.5	302	18004	1.47	158	163	47	205	1956
2699.0	384	25780	1.29	168	173	46	214	2899
2699.5	470	34973	1.13	177	182	46	222	4085
2700.0	561	45620	1.06	186	192	45	231	5364
2700.5	656	56814	1.03	195	202	44	240	6710
2701.0	757	69453	1.01	206	212	42	248	8171
2701.5	863	82474	1.01	222	228	41	263	9614
2702.0	979	96892	1.01	240	246	40	280	11183
2702.5	1104	113719	1.01	263	269	5	297	12796
2703.0	1240	134961	1.01	278	284	4	303	14791
2703.5	1387	158808	1.02	304	310	4	307	16633
2704.0	1540	184950	1.03	308	315	3	311	19248
2704.5	1695	213614	1.03	313	320	2	315	22081
2705.0	1853	244689	1.02	318	325	2	319	25133
2705.5	2013	277378	1.02	322	330	1	324	28277
2706.0	2175	312047	1.02	327	335	1	328	31567
2706.5	2340	349645	1.01	330	338	0	330	35074



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
PROFILE NUMBER 10 UPSTREAM COMPUTATIONS

SECTION: EHRDR(WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

APR-34 KU/KD < 0.7 OR > 1.4

ALERTED USER

Z-DAM: WS TOO LOW

USED WSMIN = WSC

Z-DAM: WS NOT FOUND BETWEEN

: WS = 2689.50 & WS = 2703.20

USED DEL = 0.25

Z-DAM: WS NOT FOUND

ASSUMED WS = WSC ✓

AA-1 KU/KD < 0.7 OR > 1.4

ALERTED USER

AC-AP: KU/KD < 0.7 OR > 1.4

ALERTED USER

AF-1 KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10, 50, 100, 500 T-AF  
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT	MS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*								
T-10	AT	15324	/	0	/	2660.	/	455.	/	36412.	/	1.37	/	20.	/	141.		
		2671.19	/	0.73	/		/	2671.92	/	5.84	/	0.50	/		/	*IS*		
===== BEGIN BRIDGE ANALYSIS =====																		
RD-10	AT	15324	/		/	2660.	/	397.	/	27456.	/	1.00	/	14.	/	98.		
		2671.19	/	0.70	/	...	/	10.0601	/	6.70	/	0.53	/		/	*30*		
===== NO EMBANKMENT CROSS SECTION =====																		
APP-0	AT	16467	/	143	/	2660.	/	757.	/	53551.	/	1.33	/	24.	/	235.		
		2672.19	/	0.25	/	0.52	/	0.0	/	2672.45	/	3.52	/	0.29	/	0.009 *AS*		
		M = 0.20	/	E = 0.11	/	K* = 0.41	/	827.	/	60875.	/	1.29	/	23.	/	235.		
		2672.52	/	0.21	/		/	2672.73	/	3.27	/	0.26	/		/	*AS*		
===== END BRIDGE ANALYSIS =====																		
V	AT	11170	/	703	/	2660.	/	634.	/	46644.	/	1.16	/	10.	/	211.		
		2674.22	/	0.32	/	1.75	/	0.05	/	2674.54	/	4.19	/	0.43	/	0.002 *XS*		
		AT	18175	/	1205	/	2570.	/	644.	/	39442.	/	1.35	/	133.	/	453.	
		2678.70	/	0.33	/	4.44	/	0.01	/	2679.03	/	3.99	/	0.43	/	0.007 *XS*		
W	X-T	AT	19382	/	1007	/	2570.	/	488.	/	42391.	/	1.36	/	67.	/	224.	
		2682.56	/	0.59	/	3.98	/	0.13	/	2683.14	/	5.27	/	0.46	/	0.005 *XS*		
===== BEGIN BRIDGE ANALYSIS =====																		
		AT	19382	/		/	2570.	/	340.	/	29241.	/	1.00	/	0.	/	77.	
		2682.56	/	0.84	/	...	/	10.0261	/	7.56	/	0.63	/		/	*30*		
===== EMBANKMENT OVERFLOW (CFSI) LEFT RIGHT 0. / 0. / *** =====																		
X	APP-Y	AT	19502	/	120	/	2570.	/	76.	/	44295.	/	1.06	/	50.	/	167.	
		2683.04	/	0.48	/	0.42	/	0.0	/	2683.56	/	5.40	/	0.35	/	-0.000 *AS*		
		M = 0.30	/	E = 0.00	/	K* = 0.68	/	565.	/	56930.	/	1.08	/	46.	/	170.		
		2683.82	/	0.35	/		/	2684.17	/	4.55	/	0.28	/		/	*AS*		
===== END BRIDGE ANALYSIS =====																		
Y	YPRIM	AT	19505	/	103	/	2570.	/	554.	/	54917.	/	1.07	/	37.	/	170.	
		2684.04	/	0.38	/	0.22	/	0.00	/	2684.39	/	4.64	/	0.44	/	-0.000 *XS*		
		Z-DAM	AT	19607	/	2	/	2570.	/	239.	/	22340.	/	1.00	/	137.	/	254.
		2689.50	/	1.23	/	*****	/	*****	/	2690.72	/	8.38	/	1.00	/	***** *XS*		
		AA	AT	20320	/	713	/	2570.	/	807.	/	81245.	/	1.25	/	143.	/	362.
		2693.15	/	0.70	/	2.50	/	0.0	/	2693.32	/	3.18	/	0.28	/	0.003 *XS*		
		AB-Tw	AT	20881	/	561	/	2570.	/	883.	/	79958.	/	1.08	/	50.	/	335.
		2693.75	/	0.14	/	0.57	/	0.0	/	2693.89	/	2.91	/	0.29	/	0.000 *XS*		
===== BEGIN BRIDGE ANALYSIS =====																		
		RR-OP	AT	20881	/		/	1517.	/	232.	/	11468.	/	1.00	/	0.	/	48.
		2692.40	/	0.66	/	...	/	3.00	/	10.030	/	6.53	/	0.51	/	*80*		



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-4F  
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / F / ACC *ID*
=====
EMBRANKMENT OVERFLOW (CFS) / LEFT 950. / RIGHT 89. / *RG*
-----
AC-AP AT 20965 / 84 / 2570. / 526. / 44700. / 1.07 / 46. / 202.
2693.78 / 0.40 / 0.16 / 0.13 / 2694.18 / 4.89 / 0.39 / -0.000 *AS*
-----
K = **** / E = **** / K* = **** / 644. / 61046. / 1.03 / 44. / 203.
2694.53 / 6.26 / / 2694.79 / 3.99 / 0.29 / *AS*
=====
END BRIDGE ANALYSIS
=====
AD AT 21615 / 653 / 2570. / 628. / 67238. / 1.15 / 12. / 153.
2695.55 / 0.20 / 1.05 / 0.02 / 2695.86 / 4.10 / 0.30 / -0.000 *XS*
-----
AE AT 22180 / 565 / 2570. / 905. / 79794. / 1.01 / 47. / 311.
2696.43 / 0.13 / 0.70 / 0.20 / 2696.55 / 2.84 / 0.29 / 0.001 *XS*
-----
AF AT 23325 / 1145 / 2280. / 411. / 28476. / 1.23 / 46. / 217.
2699.16 / 0.53 / 2.97 / 0.23 / 2699.75 / 5.54 / 0.51 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 23. DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID . 7-DAM  
WSC 2689.50



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-4F  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
Z-DAM: WS TOO LOW	:	USED WSMIN = WSC
Z-DAM: WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	:	WS = 2690.57 & WS = 2702.20:
Z-DAM: WS NOT FOUND	:	ASSUMED WS = WSC ✓
AA : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: HIN TOO LOW	:	USED HIN = WSD+0.01
AC-AP: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: MAX QBO < QT (3)	:	CHECKED QRO
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10, 50, 100, 500 T-AF  
 PAGE 1 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW  
 WS ELEV / HV / HF / HE / EG / V / FN / ACC \*ID\*

I-T AT 16324 / 0 / 4480. / 626. / 54480. / 1.36 / 17. / 149.  
 2672.54 / 1.08 / / 2673.62 / 7.15 / 0.58 / \*IS\*

===== BEGIN BRIDGE ANALYSIS =====

BO-TU AT 16324 / / 4480. / 511. / 39749. / 1.00 / 11. / 102.  
 2672.54 / 1.20 / ...1... (0.057) / 8.77 / 0.64 / \*BO\*

-----  
 NO EMBANKMENT CROSS SECTION

APP-U AT 16467 / 143 / 4480. / 1120. / 94776. / 1.20 / 19. / 239.  
 2673.88 / 0.30 / 0.55 / 0.0 / 2674.18 / 4.00 / 3.29 / -0.000 \*AS\*

M = 0.30 / E = 0.12 / K\* = 0.6 / 1301. / 118583. / 1.18 / 17. / 242.  
 2674.69 / 0.22 / / 2674.91 / 3.44 / 0.23 / \*AS\*

===== END BRIDGE ANALYSIS =====

V AT 17170 / 733 / 4480. / 997. / 90884. / 1.07 / 7. / 229.  
 2675.94 / 0.34 / 1.31 / 0.06 / 2675.28 / 4.50 / 1.40 / 0.001 \*XS\*

W AT 14375 / 1205 / 4340. / 955. / 69740. / 1.16 / 107. / 458.  
 2679.63 / 0.37 / 3.70 / 0.02 / 2680.00 / 4.54 / 0.43 / 0.008 \*XS\*

X-Tw AT 19382 / 1007 / 4340. / 673. / 63609. / 1.30 / 63. / 238.  
 2683.67 / 0.84 / 4.28 / 0.23 / 2684.51 / 6.45 / 0.53 / 0.002 \*XS\*

===== BEGIN BRIDGE ANALYSIS =====

BO-XY AT 19382 / / 4340. / 426. / 33250. / 1.00 / 0. / 77.  
 2683.67 / 1.62 / ...1... (0.028) / 10.19 / 0.76 / \*BO\*

EMBRANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / \*OG\*

X APP-Y AT 19502 / 170 / 4340. / 616. / 64649. / 1.09 / 45. / 171.  
 2684.23 / 0.34 / 0.55 / 0.0 / 2685.07 / 7.05 / 0.42 / 0.006 \*AS\*

M = 0.35 / E = 0.02 / K\* = 0.76 / 827. / 94552. / 1.11 / 38. / 177.  
 2685.81 / 0.48 / / 2685.29 / 5.25 / 0.28 / \*AS\*

===== END BRIDGE ANALYSIS =====

Y Y-PR AT 19405 / 103 / 4340. / 813. / 95971. / 1.09 / 38. / 177.  
 2686.01 / 0.43 / 3.20 / 0.00 / 2686.50 / 5.34 / 0.45 / 0.000 \*XS\*

Z-DAM AT 19607 / 2 / 4340. / 418. / 39917. / 1.00 / 133. / 256.  
 2690.67 / 1.68 / \*\*\*\*\* / \*\*\*\*\* / 2692.25 / 10.39 / 0.99 / \*\*\*\*\* \*XS\*

AA AT 20320 / 713 / 4340. / 1137. / 129463. / 1.24 / 123. / 365.  
 2694.57 / 0.38 / 2.60 / 0.0 / 2694.85 / 3.82 / 0.30 / 0.003 \*XS\*

AB-TV AT 20381 / 561 / 4340. / 1416. / 141967. / 1.20 / 42. / 460.  
 2695.25 / 0.18 / 0.57 / 0.0 / 2695.42 / 3.07 / 0.29 / -0.000 \*XS\*

===== BEGIN BRIDGE ANALYSIS =====

BR-UP AT 20381 / / 1320. / 232. / 11468. / 1.00 / 0. / 48.  
 2692.49 / 0.50 / ...3... (0.030) / 5.69 / 0.45 / \*BO\*



WATER-SURFACE PROFILE FOR: CUIVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 PAGE 2 OF 2. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS FLEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 1990. / RIGHT 1041. / *RG*
=====
AC-AP AT 20965 / 84 / 4340. / 762. / 78206. / 1.02 / 13. / 207.
2695.26 / 0.52 / 0.14 / 0.22 / 2695.77 / 5.69 / 0.39 / -0.011 *AS*
=====
N = **** / R = **** / K* = **** / 819. / 86210. / 1.03 / 13. / 209.
2695.52 / 0.45 / / 2696.03 / 5.30 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
AD AT 21615 / 650 / 4340. / 836. / 100830. / 1.11 / 9. / 151.
2696.98 / 0.47 / 1.41 / 0.01 / 2697.45 / 5.19 / 0.35 / 0.001 *XS*
=====
AF AT 22190 / 565 / 4340. / 1347. / 144678. / 1.00 / 31. / 321.
2698.02 / 0.16 / 0.73 / 0.0 / 2698.18 / 3.22 / 0.29 / -0.000 *XS*
=====
AF AT 23325 / 1145 / 387. / 625. / 52659. / 1.04 / 44. / 237.
2700.32 / 0.63 / 2.53 / 0.23 / 2700.95 / 6.23 / 0.64 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 27,DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER, PROFILES 10,50,100,500 T-3F  
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECTID 7-DAM  
WSC 2690.57



FILE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
APP-Y: WSD > BELMX (1)	:	CHECKED QRO (2)
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2687.21 & WS = 2703.20:
	:	USED DEL = 0.25
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2687.21 & WS = 2703.20:
	:	USED WSMIN = WSC
Z-DAM: WS NOT FOUND	:	ASSUMED WS = WSC ✓
AA : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-API: HLN TOO LOW	:	USED HLN = WSD+0.01
AC-API: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-API: MAX QRO < QT (3)	:	CHECKED QRO
AE : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW  
 WS ELEV / HV / HF / HE / EG / V / FN / ACC \*ID\*

T-T AT 16324 / 0 / 5370. / 693. / 62891. / 1.35 / 16. / 152.  
 2673.04 / 1.26 / / 2674.30 / 7.75 / 0.61 / \*IS\*

BEGIN BRIDGE ANALYSIS

RO-TU AT 16324 / / 5370. / 555. / 44853. / 1.00 / 11. / 104.  
 2673.04 / 1.45 / ...1... (0.056) / 9.67 / 0.69 / \*B0\*

NO EMBANKMENT CROSS SECTION

APP-U AT 16467 / 143 / 5370. / 1267. / 113977. / 1.18 / 17. / 241.  
 2674.54 / 0.33 / 0.58 / 0.0 / 2674.87 / 4.24 / 0.29 / -0.005 \*AS\*

M = 0.32 / F = 0.13 / K\* = 0.64 / 1505. / 143933. / 1.18 / 14. / 259.  
 2675.56 / 0.23 / / 2675.79 / 3.57 / 0.23 / \*AS\*

END BRIDGE ANALYSIS

V AT 17170 / 703 / 5370. / 1173. / 115787. / 1.06 / 6. / 237.  
 2676.72 / 0.35 / 1.22 / 0.06 / 2677.07 / 4.58 / 0.39 / 0.001 \*XS\*

W AT 18375 / 1205 / 5200. / 1111. / 86715. / 1.13 / 93. / 460.  
 2680.06 / 0.38 / 3.35 / 0.02 / 2680.45 / 4.68 / 0.46 / 0.007 \*XS\*

X-TW AT 19382 / 1007 / 5200. / 747. / 72778. / 1.28 / 62. / 243.  
 2684.09 / 0.97 / 4.31 / 0.29 / 2685.05 / 6.96 / 0.56 / 0.001 \*XS\*

BEGIN BRIDGE ANALYSIS

RO-XY AT 19382 / / 4952. / 552. / 34440. / 1.00 / 0. / 77.  
 2686.10 / 1.25 / ...2... (0.032) / 8.98 / 0.59 / \*R0\*

EMBANKMENT OVERFLOW (OFS) / LEFT 0. / RIGHT 329. / \*RG\*

X APP-Y AT 19502 / 120 / 5200. / 672. / 73550. / 1.09 / 43. / 173.  
 2684.67 / 1.02 / 0.61 / 0.03 / 2685.69 / 7.74 / 0.45 / 0.001 \*AS\*

M = \*\*\*\* / F = \*\*\*\* / K\* = \*\*\*\* / 1046. / 139599. / 1.12 / 31. / 184.  
 2687.31 / 0.43 / / 2687.74 / 4.97 / 0.25 / \*AS\*

END BRIDGE ANALYSIS

Y VPRJM AT 19605 / 103 / 5200. / 1022. / 132950. / 1.09 / 32. / 183.  
 2687.42 / 0.44 / 0.15 / 0.00 / 2687.90 / 5.09 / 0.40 / 0.001 \*XS\*

Z-DAM AT 19607 / 2 / 5200. / 473. / 48448. / 1.00 / 132. / 257.  
 2691.01 / 1.88 / \*\*\*\*\* / \*\*\*\*\* / 2692.89 / 11.00 / 1.00 / \*\*\*\*\* \*XS\*

44 AT 20320 / 713 / 5200. / 1786. / 153458. / 1.24 / 119. / 366.  
 2695.17 / 0.31 / 2.59 / 0.0 / 2695.49 / 4.04 / 0.31 / 0.001 \*XS\*

AP-TW AT 20881 / 561 / 5200. / 1690. / 176726. / 1.14 / 24. / 469.  
 2695.88 / 0.17 / 0.56 / 0.0 / 2696.05 / 3.08 / 0.28 / 0.000 \*XS\*

BEGIN BRIDGE ANALYSIS

RP-OP AT 20881 / / 1167. / 232. / 11468. / 1.00 / 0. / 48.  
 2692.40 / 0.39 / ...3... (0.030) / 5.03 / 0.40 / \*R0\*



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10.50,100.500 T-AF  
 PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *T*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 2376. / RIGHT 1624. / *R6*
=====
AC-AP AT 20965 / 84 / 5200. / 876. / 91206. / 1.05 / 13. / 211.
2695.89 / 0.57 / 0.14 / 0.29 / 2696.46 / 5.94 / 0.41 / -0.011 *AS*
=====
M = **** / E = **** / K* = **** / 884. / 92464. / 1.05 / 13. / 211.
2695.93 / 0.56 / / 2696.49 / 5.88 / 0.40 / *AS*
=====
END BRIDGE ANALYSIS
=====
AD AT 21615 / 650 / 5200. / 928. / 116996. / 1.10 / 8. / 164.
2697.58 / 0.54 / 1.62 / 0.0 / 2698.12 / 5.60 / 0.36 / 0.001 *XS*
=====
AE AT 22180 / 565 / 5200. / 1540. / 177735. / 1.01 / 25. / 322.
2698.68 / 0.18 / 0.73 / 0.0 / 2698.85 / 3.38 / 0.26 / 0.000 *XS*
=====
AF AT 23325 / 1145 / 4640. / 723. / 65140. / 1.02 / 43. / 245.
2700.84 / 0.65 / 2.39 / 0.24 / 2701.49 / 5.42 / 0.64 / 0.093 *XS*
=====
    
```

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.150 \*\*\* PAGE COUNT= 31. DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID 2-04M  
WSC 2691.01



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECTION: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
X-TN : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
APP-Y: WSU > BELMX (1)	:	CHECKED 990 (2)
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2688.56 & WS = 2703.20:
	:	USED DFL = 0.75
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2688.56 & WS = 2703.20:
	:	USED WSMIN = WSC
Z-DAM: WS NOT FOUND	:	ASSUMED WS = WSC ✓
AA : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: HIN TOO LOW	:	USED HIN = WSD+0.01
AC-AP: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: ORD > OT	:	ASSUMED WSU = HIN
AE : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF  
 PAGE 1 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	#ID*

=====

T-TW	AT 16324	/	0	/	7700.	/	801.	/	76697.	/	1.32	/	15.	/	157.
	2673.82	/	1.90	/		/	2675.72	/	9.61	/	0.73	/		/	*IS*

===== BEGIN BRIDGE ANALYSIS =====

BO-TU	AT 16324	/		/	7700.	/	628.	/	53678.	/	1.00	/	9.	/	105.
	2673.82	/	2.35	/		/	...1... (0.055)	/	12.29	/	0.43	/		/	*BC*

----- NO EMBANKMENT CROSS SECTION -----

APP-U	AT 16467	/	143	/	7700.	/	1615.	/	158502.	/	1.13	/	13.	/	267.
	2676.00	/	0.42	/		/	2676.42	/	4.77	/	0.30	/	-0.000	/	*AS*

	M = 0.37	/	E = 0.14	/	K* = 0.75	/	2141.	/	233378.	/	1.19	/	8.	/	299.
	2677.93	/	0.24	/		/	2678.17	/	3.60	/	0.25	/		/	*AS*

===== END BRIDGE ANALYSIS =====

V	AT 17170	/	703	/	7700.	/	1674.	/	196758.	/	1.05	/	3.	/	256.
	2678.79	/	0.35	/		/	2679.13	/	4.60	/	0.34	/	0.000	/	*XS*

N	AT 18375	/	1205	/	7470.	/	1569.	/	142631.	/	1.09	/	57.	/	466.
	2681.24	/	0.38	/		/	2681.62	/	4.75	/	0.43	/	0.002	/	*XS*

X-TW	AT 19382	/	1007	/	7470.	/	909.	/	94504.	/	1.25	/	59.	/	253.
	2684.95	/	1.31	/		/	2686.26	/	8.21	/	0.63	/	0.001	/	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BO-XY	AT 19382	/		/	5890.	/	552.	/	34440.	/	1.00	/	0.	/	77.
	2691.10	/	1.77	/		/	...2... (0.032)	/	10.68	/	0.70	/		/	*BO*

EMBANKMENT OVERFLOW (CFS) / LEFT 3. / RIGHT 1477. / \*RG\*

APP-Y	AT 19502	/	120	/	7470.	/	187.	/	94316.	/	1.11	/	39.	/	177.
	2685.60	/	1.51	/		/	2687.11	/	9.37	/	0.51	/	-0.000	/	*AS*

	M = ****	/	E = ****	/	K* = ****	/	1255.	/	179670.	/	1.15	/	3.	/	191.
	2688.62	/	0.63	/		/	2689.25	/	5.95	/	0.42	/		/	*AS*

===== END BRIDGE ANALYSIS =====

YPRIM	AT 19605	/	103	/	7470.	/	1238.	/	172227.	/	1.10	/	4.	/	190.
	2688.81	/	0.63	/		/	2689.44	/	6.04	/	0.45	/	0.002	/	*XS*

Z-DAM	AT 19647	/	2	/	7470.	/	648.	/	71120.	/	1.00	/	48.	/	256.
	2692.30	/	2.07	/		/	*****	/	2694.37	/	11.53	/	0.99	/	***** *XS*

AA	AT 20320	/	713	/	7470.	/	1633.	/	215674.	/	1.21	/	113.	/	369.
	2696.55	/	0.40	/		/	2696.95	/	4.58	/	0.33	/	-0.015	/	*XS*

AB-TW	AT 20881	/	561	/	7470.	/	2347.	/	283065.	/	1.08	/	13.	/	487.
	2697.30	/	0.17	/		/	2697.47	/	3.18	/	0.26	/	0.012	/	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BR-OP	AT 20881	/		/	0.	/	232.	/	11468.	/	1.00	/	0.	/	40.
	2692.40	/	0.0	/		/	...3... (0.030)	/	0.0	/	0.0	/		/	*BO*

Use ↑

Make composite of bridge  
 and road. Add Xsect 39  
 feet upstream of BR-OP  
 using AC-AP.



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,56,100,500 T-4F  
PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECTION AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFM	NEW
AS ELEV	HV	HF	KZ	EG	V	FN	ACC
*****							
SEGMENT OVERFLOW (CFS) / LEFT 4243. / RIGHT 4589. /							
*****							
10+00 AT	10000	64	7476	1174	141592	1.04	13
2007.3	0.45	0.17	0.35	2697.97	6.36	0.51	-0.811
*****							
5+0000	5+0000	50	7476	1174	141592	1.04	13
2007.3	0.45	0.17	0.35	2697.97	6.36	0.51	-0.811
*****							
50+00	21010	650	7476	1174	157643	1.09	5
2008.91	0.72	1.02	0.44	2697.97	6.54	0.39	0.000
*****							
50+00	22100	50	7476	1174	269777	1.02	4
2009.15	0.72	0.75	0.44	2700.38	6.75	0.29	-0.284
*****							
50+00	23300	100	7476	1174	49771	1.01	3
2009.09	0.75	0.77	0.24	2702.79	6.76	0.42	0.308
*****							

Not used

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 35, DATE=12/31/77

COMPUTED NSC VALUES FOR: COVE CREEK LOWER PROFILES 10, 50, 100, 500 T-AF  
PROFILE NUMBER 11 UPTREAM COMPUTATIONS

SECTION 7-04A  
NSC 2892.35











INPUT SUMMARY FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE "







PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 500 UP&DOWN  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

AB-AF

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

BR-RD: KU/KD < 0.7 OR > 1.4

AE : KU/KD < 0.7 OR > 1.4

AF : KU/KD < 0.7 OR > 1.4

ALERTED USER

ALERTED USER

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 500 UP/DOWN AB-AF  
 PAGE 1 OF 1. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LV	HF	HE	EG	V	FN	ACC	REW	ID
88	20825	2697.30	0	7470.	2344.	282645.	1.08	13.	487.		*IS*
		2697.30	0.17		2697.47	3.19	0.26				
BR-RD	20881	2697.30	56	7470.	1665.	165188.	1.08	-6.	533.		*XS*
		2697.30	0.34	0.07	0.08	2697.64	4.49	0.49	0.016		
BR-39	20720	2697.25	39	7470.	1193.	138156.	1.04	13.	236.		*XS*
		2697.25	0.68	0.10	0.17	2697.90	6.48	0.52	-0.000		
AC-AD	20965	2697.39	45	7470.	1191.	144553.	1.05	13.	249.		*XS*
		2697.39	0.64	0.13	0.0	2698.03	6.27	0.50	0.000		
AD	21615	2698.93	650	7470.	1147.	158542.	1.09	5.	172.		*XS*
		2698.93	0.72	1.58	0.04	2699.65	6.51	0.39	-0.000		
AE	22180	2700.18	565	7470.	2001.	267040.	1.02	14.	326.		*XS*
		2700.18	0.22	0.74	0.0	2700.40	3.73	0.28	0.009		
AF	23325	2702.10	1145	6700.	1003.	100032.	1.01	39.	283.		*XS*
		2702.10	0.70	2.15	0.24	2702.80	6.68	0.62	0.000		

OK

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF  
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
AF	: SUPERCRITICAL WS		COMPUTED WSA
AF	: RIGHT BANK EXTENDED		ALERTED USER
AE	: WS NOT FOUND BETWEEN	: WS = 2696.03 & WS = 2687.60	USED DEL = 0.25
AE	: WS NOT FOUND BETWEEN	: WS = 2696.03 & WS = 2687.60	USED KE = 0.5
AE	: WS NOT FOUND		ASSUMED WS = WSC
AD	: WS NOT FOUND BETWEEN	: WS = 2695.87 & WS = 2685.70	USED DEL = 0.25
AD	: WS NOT FOUND BETWEEN	: WS = 2695.87 & WS = 2685.70	USED KE = 0.5
AD	: WS NOT FOUND		ASSUMED WS = WSC
AC-AP	: WS NOT FOUND BETWEEN	: WS = 2694.69 & WS = 2685.20	USED DEL = 0.25
AC-AP	: WS NOT FOUND BETWEEN	: WS = 2694.69 & WS = 2685.20	USED KE = 0.5
AC-AP	: WS NOT FOUND		ASSUMED WS = WSC
BR+39	: WS NOT FOUND BETWEEN	: WS = 2694.69 & WS = 2685.20	USED DEL = 0.25
BR+39	: WS NOT FOUND BETWEEN	: WS = 2694.69 & WS = 2685.20	USED KE = 0.5
BR+39	: WS NOT FOUND		ASSUMED WS = WSC
BR-RD	: WS NOT FOUND BETWEEN	: WS = 2695.94 & WS = 2685.40	USED DEL = 0.25
BR-RD	: WS NOT FOUND BETWEEN	: WS = 2695.94 & WS = 2685.40	USED KE = 0.5
BR-RD	: WS NOT FOUND		ASSUMED WS = WSC
AB	: KU/KD < 0.7 OR > 1.4		ALERTED USER
AF	: SUPERCRITICAL WS		COMPUTED WSA



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF  
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS ELEV / HV / HF / HF / EG / V / FN / ACC *ID*
=====
AF AT 23325 / 0 / 6700. / 150. / 10516. / 1.13 / 49. / 115.
2697.30 / 35.13 / / 2732.43 / 44.74 / 5.58/ *IS*
-----
AE AT 22180 / -1145 / 7470. / 802. / 67571. / 1.03 / 52. / 307.
2696.03 / 1.39 /***** /***** / 2697.43 / 9.31 / 0.94 /***** *XS*
-----
AD AT 21615 / -565 / 7470. / 672. / 73990. / 1.14 / 12. / 155.
2695.87 / 2.70 /***** /***** / 2698.06 / 11.12 / 0.97 /***** *XS*
-----
AC-AP AT 20965 / -650 / 7470. / 670. / 64887. / 1.03 / 44. / 204.
2694.69 / 1.99 /***** /***** / 2696.68 / 11.15 / 0.97 /***** *XS*
-----
BR+39 AT 20920 / -45 / 7470. / 670. / 64887. / 1.03 / 44. / 204.
2694.69 / 1.99 /***** /***** / 2696.68 / 11.15 / 0.97 /***** *XS*
-----
BR-RD AT 20881 / -39 / 7470. / 973. / 75811. / 1.11 / -1. / 461.
2695.94 / 1.02 /***** /***** / 2696.96 / 7.68 / 0.98 /***** *XS*
-----
AB AT 20825 / -56 / 7470. / 510. / 36009. / 1.10 / 61. / 251.
2692.14 / 3.67 / 1.14 / 0.0 / 2695.81 / 14.66 / 1.65 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: COVE CREEK LOWER 500 UP&DOWN  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS AB-AF

SECID	AB	BR-RD	BR+39	AC-AP	AD	AE	AF
WSC	2693.29	2695.94	2694.69	2694.69	2695.87	2696.03	2700.58

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 500 UP&DOWN  
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS AB-AF

SECID	AB	AF
WSA	2695.31	2706.50







USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 2,DATE= 2/ 1/78

INPUT SUMMARY FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI

6 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 6 TYPE 3 CARDS

KEPT 6 CROSS SECTIONS FOR EDITING

6 " " VALID FOR PROPERTY COMPUTATIONS

6 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=AF AT DISTANCE= 23325 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	30	1045	1.00	21	22	55	75	205
2693.5	40	1734	1.00	21	23	55	76	316
2694.0	51	2512	1.00	22	24	54	76	444
2694.5	62	3361	1.00	23	26	54	77	585
2695.0	74	4295	1.00	24	27	53	77	737
2695.5	87	5342	1.00	26	29	52	77	905
2696.0	100	6505	1.00	27	31	51	78	1090
2696.5	114	7803	1.00	28	33	50	78	1295
2697.0	132	9370	1.05	50	55	49	99	1189
2697.5	167	11362	1.23	102	106	48	150	1090
2698.0	227	14454	1.44	138	143	48	186	1373
2698.5	302	19004	1.47	158	163	47	205	1956
2699.0	384	25780	1.29	168	173	46	214	2899
2699.5	470	34973	1.13	177	182	46	222	4085
2700.0	561	45620	1.06	186	192	45	231	5364
2700.5	656	56814	1.03	196	202	44	240	6710
2701.0	757	69453	1.01	206	212	42	248	8171
2701.5	863	82474	1.01	222	228	41	263	9614
2702.0	979	96892	1.01	240	246	40	280	11183
2702.5	1104	113719	1.01	263	269	5	297	12796
2703.0	1240	134961	1.01	278	284	4	303	14791
2703.5	1387	158808	1.02	304	310	4	307	16633
2704.0	1540	184950	1.03	308	315	3	311	19248
2704.5	1695	213514	1.03	313	320	2	315	22081
2705.0	1853	244689	1.02	318	325	2	319	25133
2705.5	2013	277378	1.02	322	330	1	324	28277
2706.0	2175	312047	1.02	327	335	1	328	31567
2706.5	2340	349645	1.01	330	338	0	330	35074

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=COMP AT DISTANCE= 23349 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	32	1099	1.00	20	22	50	70	228
2693.5	42	1681	1.00	20	23	50	70	344
2694.0	52	2336	1.00	20	24	50	70	474
2694.5	62	3050	1.00	20	25	50	70	617
2695.0	72	3815	1.00	20	26	50	70	773
2695.5	82	4623	1.00	20	27	50	70	940
2696.0	92	5468	1.00	20	28	50	70	1117
2696.5	102	6347	1.00	20	29	50	70	1304
2697.0	112	7254	1.00	20	30	50	70	1501
2697.5	122	8187	1.00	20	31	50	70	1707



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=COMP AT DISTANCE= 23349 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2698.0	132	9142	1.00	29	32	50	70	1921
2698.5	142	10118	1.00	29	33	50	70	2143
2699.0	152	11113	1.00	29	34	50	70	2374
2699.5	162	12124	1.00	29	35	50	70	2612
2700.0	172	13152	1.01	29	46	50	153	2360
2700.5	194	14441	1.13	76	94	50	169	1707
2701.0	245	16534	1.29	105	124	50	184	1868
2701.5	304	19532	1.36	130	149	50	200	2263
2702.0	373	23689	1.32	145	165	50	206	2946
2702.5	444	28933	1.25	159	180	50	213	3837
2703.0	530	35491	1.16	165	188	50	219	5007
2703.5	620	42986	1.12	196	220	29	225	5915
2704.0	727	52384	1.11	231	256	0	231	6944
2704.5	843	63480	1.09	238	263	0	238	8638
2705.0	965	76041	1.07	244	269	0	244	10509
2705.5	1088	89994	1.05	250	276	0	250	12533

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=AG-1 AT DISTANCE= 23369 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	28	904	1.00	22	23	88	110	179
2693.5	39	1690	1.00	23	24	88	110	294
2694.0	51	2673	1.00	23	26	87	111	427
2694.5	63	3675	1.00	24	27	87	111	578
2695.0	75	4791	1.00	24	28	87	111	744
2695.5	87	5871	1.00	26	30	85	112	902
2696.0	101	7103	1.00	32	36	59	112	1022
2696.5	122	8560	1.08	51	56	57	112	1028
2697.0	150	10659	1.17	56	62	56	112	1280
2697.5	179	13180	1.20	58	66	54	113	1618
2698.0	208	16116	1.19	60	66	53	113	2015
2698.5	239	19585	1.17	63	69	52	115	2438
2699.0	271	23333	1.17	67	74	50	118	2856
2699.5	306	27478	1.17	71	78	49	120	3319
2700.0	344	31986	1.19	83	90	48	131	3638
2700.5	389	37040	1.22	97	104	47	144	3998
2701.0	441	42730	1.26	111	118	45	157	4448
2701.5	500	49191	1.29	125	132	45	170	4998
2702.0	566	56544	1.31	139	146	44	183	5660
2702.5	639	65113	1.31	152	159	42	194	6491
2703.0	717	75512	1.28	159	167	39	198	7614
2703.5	799	86652	1.26	167	175	35	202	8805



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=AG-.1 AT DISTANCE= 23369 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2704.0	884	98797	1.25	177	185	6	206	10038
2704.5	980	111983	1.25	206	214	5	211	10858
2705.0	1084	126867	1.24	211	219	4	215	12521
2705.5	1191	144033	1.20	216	224	3	219	14442
2706.0	1300	164968	1.15	222	230	2	223	16647
2706.5	1412	186705	1.13	223	232	1	224	18971
2706.8	1479	200480	1.11	224	233	0	224	20426

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=AG AT DISTANCE= 23411 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	26	779	1.00	22	23	88	110	158
2693.5	37	1511	1.00	23	24	88	110	269
2694.0	49	2488	1.00	23	25	87	111	399
2694.5	60	3465	1.00	24	26	87	111	546
2695.0	72	4560	1.00	24	28	87	111	710
2695.5	85	5644	1.00	26	30	85	112	869
2696.0	98	6845	1.00	28	32	84	112	1043
2696.5	117	8244	1.06	47	52	58	112	1016
2697.0	144	10198	1.16	56	61	56	112	1218
2697.5	173	12642	1.20	58	63	55	113	1545
2698.0	202	15495	1.20	59	65	53	113	1931
2698.5	232	18844	1.17	62	68	52	114	2354
2699.0	264	22553	1.17	66	73	51	117	2769
2699.5	299	26615	1.17	70	77	49	120	3222
2700.0	336	31042	1.18	80	87	48	129	3576
2700.5	380	35978	1.21	94	101	47	142	3918
2701.0	430	41554	1.25	108	115	46	154	4350
2701.5	488	47827	1.28	122	129	45	167	4879
2702.0	552	54993	1.31	136	143	44	180	5518
2702.5	624	63151	1.32	150	157	43	193	6277
2703.0	701	73389	1.29	158	165	39	197	7385
2703.5	782	84324	1.27	166	173	36	201	8556
2704.0	867	96269	1.25	175	182	6	206	9797
2704.5	959	109156	1.25	205	212	5	210	10542
2705.0	1063	123724	1.24	210	218	4	214	12168
2705.5	1169	140353	1.21	215	223	3	218	14032
2706.0	1278	160296	1.16	221	228	2	222	16188
2706.5	1389	182196	1.13	223	232	1	224	18487
2706.8	1479	200451	1.11	224	233	0	224	20422



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=AH AT DISTANCE= 23710 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2694.0	37	1459	1.00	26	27	78	104	256
2694.5	51	2676	1.00	27	28	78	104	394
2695.0	64	4019	1.00	28	30	77	105	553
2695.5	78	5428	1.00	29	31	77	106	732
2696.0	93	7014	1.00	30	32	76	106	931
2696.5	109	8866	1.01	35	38	72	107	1089
2697.0	128	11060	1.05	42	44	67	108	1246
2697.5	151	13605	1.12	49	52	61	110	1425
2698.0	177	16485	1.19	56	59	56	112	1640
2698.5	207	19764	1.25	63	66	51	114	1897
2699.0	240	23575	1.30	70	73	49	119	2215
2699.5	277	28004	1.32	78	81	48	125	2580
2700.0	318	32849	1.36	85	89	46	132	2983
2700.5	362	38285	1.39	93	97	45	138	3444
2701.0	410	44404	1.40	99	103	43	142	4005
2701.5	462	51116	1.41	106	110	40	146	4603
2702.0	517	58377	1.42	113	117	37	150	5252
2702.5	577	65365	1.48	128	131	26	154	5709
2703.0	644	73276	1.54	144	148	14	158	6231
2703.5	718	83578	1.52	149	153	13	162	7248
2704.0	793	94717	1.50	154	158	12	166	8348
2704.5	872	106697	1.47	159	163	11	170	9532
2705.0	952	119527	1.45	164	168	10	174	10799
2705.5	1036	133133	1.43	169	174	8	178	12130
2706.0	1122	147485	1.42	175	180	6	182	13515
2706.5	1211	162728	1.40	181	186	4	186	14985
2707.0	1303	178877	1.39	187	192	3	190	16540
2707.5	1398	195951	1.38	193	198	1	194	18180
2707.8	1456	206788	1.37	196	201	0	196	19238

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 SECID=AI-TW AT DISTANCE= 23915 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	33	1297	1.00	21	22	91	112	234
2695.5	44	2127	1.00	23	25	89	113	346
2696.0	57	3081	1.00	25	27	88	113	479
2696.5	70	4142	1.00	27	29	87	114	632
2697.0	84	5230	1.00	31	33	84	115	789
2697.5	102	6464	1.02	39	41	81	115	953
2698.0	133	8571	1.15	63	65	53	116	1016
2698.5	165	11103	1.21	67	69	50	117	1336
2699.0	199	14139	1.22	71	73	47	118	1723



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50.100.500 UP & DOWN AF-AI  
 SECID=AI-TW AT DISTANCE= 23915 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2699.5	236	17796	1.18	74	77	44	118	2194
2700.0	274	22118	1.13	77	80	42	119	2748
2700.5	313	26615	1.12	80	84	39	120	3317
2701.0	354	31560	1.10	83	87	37	120	3936
2701.5	396	36948	1.09	86	90	35	121	4603
2702.0	442	42799	1.10	104	108	9	122	4952
2702.5	498	49771	1.10	114	118	8	122	5626
2703.0	556	57625	1.10	115	120	7	123	6606
2703.5	614	66187	1.08	117	122	7	124	7666
2704.0	673	75419	1.07	118	124	6	124	8797
2704.5	732	85292	1.06	120	125	5	125	9988
2705.0	793	95129	1.04	122	128	4	127	11211
2705.5	854	105470	1.03	125	131	4	129	12478
2706.0	917	116481	1.02	128	134	3	131	13794
2706.5	982	128159	1.02	130	137	2	133	15158
2707.0	1048	140502	1.01	133	140	1	135	16570
2707.5	1115	153507	1.01	136	143	1	137	18028
2708.0	1184	165358	1.01	141	148	0	141	19376
2708.5	1256	177870	1.01	146	154	0	146	20776
2708.6	1271	180483	1.01	147	155	0	147	21060







USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 9,DATE= 2/ 1/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

COMP : WS NOT FOUND BETWEEN

: WS = 2700.07 & WS = 2705.50:

:

USED DEL = 0.25

COMP : WS NOT FOUND BETWEEN

: WS = 2700.07 & WS = 2705.50:

:

USED WSMIN = WSC

COMP : WS NOT FOUND

:

ASSUMED WS = WSC

AG-.1: KU/KD < 0.7 OR > 1.4

:

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50 100,500 UP & DOWN AF-AI  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

=====																
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID								
=====																
AF	AT	23325	/	0	/	3870.	/	621.	/	52615.	/	1.04	/	44.	/	237.
		2700.32	/	0.63	/		/	2700.95	/	6.23	/	0.64	/		/	*IS*
-----																
COMP	AT	23349	/	24	/	3870.	/	484.	/	31684.	/	1.21	/	50.	/	215.
		2702.72	/	1.20	/	*****	/	*****	/	2702.92	/	7.99	/	0.54	/	***** *XS*
-----																
AG-.1	AT	23369	/	20	/	3870.	/	812.	/	88513.	/	1.26	/	34.	/	203.
		2703.58	/	0.45	/	0.11	/	0.0	/	2704.02	/	4.77	/	0.34	/	-0.001 *XS*
-----																
AG	AT	23411	/	42	/	3870.	/	809.	/	88110.	/	1.26	/	34.	/	203.
		2703.66	/	0.45	/	0.08	/	0.00	/	2704.11	/	4.78	/	0.34	/	0.004 *XS*
-----																
AH	AT	23710	/	299	/	3870.	/	819.	/	98531.	/	1.49	/	11.	/	167.
		2704.16	/	0.52	/	0.52	/	0.03	/	2704.68	/	4.73	/	0.36	/	0.018 *XS*
-----																
AT-TW	AT	23915	/	205	/	3870.	/	743.	/	87208.	/	1.06	/	5.	/	125.
		2704.59	/	0.44	/	0.36	/	0.0	/	2705.04	/	5.21	/	0.35	/	0.000 *XS*
-----																

Use →

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 11, DATE= 2/ 1/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN PROFILE NUMBER 1, UPSTREAM COMPUTATIONS AF-AI

SECID COMP  
WSC 2702.72



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AI-TW: WS TOO LOW	:		ASSUMED WS = WSC
AH : WS NOT FOUND BETWEEN	:		
	:	WS = 2700.80 & WS = 2692.30:	USED DEL = 0.25
	:		
AH : WS NOT FOUND BETWEEN	:		
	:	WS = 2700.80 & WS = 2692.30:	USED KE = 0.5
	:		
AH : WS NOT FOUND	:		ASSUMED WS = WSC
AG : WS NOT FOUND BETWEEN	:		
	:	WS = 2700.18 & WS = 2691.40:	USED DEL = 0.25
	:		
AG : WS NOT FOUND BETWEEN	:		
	:	WS = 2700.18 & WS = 2691.40:	USED KE = 0.5
	:		
AG : WS NOT FOUND	:		ASSUMED WS = WSC
AG-.1: WS NOT FOUND BETWEEN	:		
	:	WS = 2700.08 & WS = 2691.30:	USED DEL = 0.25
	:		
AG-.1: WS NOT FOUND BETWEEN	:		
	:	WS = 2700.08 & WS = 2691.30:	USED KE = 0.5
	:		
AG-.1: WS NOT FOUND	:		ASSUMED WS = WSC
COMP : WS NOT FOUND BETWEEN	:		
	:	WS = 2702.72 & WS = 2691.20:	USED DEL = 0.25
	:		
COMP : WS NOT FOUND BETWEEN	:		
	:	WS = 2702.72 & WS = 2691.20:	USED KE = 0.5
	:		
COMP : WS NOT FOUND	:		ASSUMED WS = WSC
AF : KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AF : SUPERCRITICAL WS	:		COMPUTED WSA



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
AI-TW AT 23915 /    0 / 3870. / 356. / 31846. / 1.10 / 37. / 120.
 2701.03 / 2.03 /          / 2703.05 / 10.87 / 0.97/          *IS*
-----
AH  AT 23710 / -205 / 3870. / 391. / 41930. / 1.39 / 44. / 140.
 2706.80 / 2.12 /***** /***** / 2702.92 / 9.90 / 1.02 /***** *XS*
-----
AG  AT 23411 / -299 / 3870. / 351. / 32747. / 1.19 / 48. / 133.
 2700.18 / 2.26 /***** /***** / 2702.44 / 11.04 / 1.05 /***** *XS*
-----
AG+.1 AT 23369 / -42 / 3870. / 351. / 32749. / 1.19 / 48. / 133.
 2700.03 / 2.26 /***** /***** / 2702.34 / 11.03 / 1.05 /***** *XS*
-----
COMP AT 23349 / -20 / 3870. / 484. / 31684. / 1.21 / 50. / 215.
 2702.72 / 1.20 /***** /***** / 2703.92 / 7.99 / 0.89 /***** *XS*
-----
AF  AT 23325 / -24 / 3870. / 264. / 16531. / 1.49 / 47. / 201.
 2698.25 / 4.98 / 0.69 / 0.0 / 2703.23 / 14.66 / 2.41 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
PROFILE NUMBER 2. DOWNSTREAM COMPUTATIONS

SECID	AF	COMP	AG-.1	AG	AH	AI-TW
WSC	2699.61	2702.72	2700.08	2700.18	2700.80	2701.03

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
PROFILE NUMBER 2. DOWNSTREAM COMPUTATIONS

SECID	AF
WSA	2703.08



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

COMP : WS NOT FOUND BETWEEN	: WS = 2700.59 & WS = 2705.50:	
	:	USED DEL = 0.25
COMP : WS NOT FOUND BETWEEN	: WS = 2700.59 & WS = 2705.50:	
	:	USED WSMIN = WSC
COMP : WS NOT FOUND	:	ASSUMED WS = WSC
AG-.1: KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100,500 (UP) DOWN AF-AI  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	ID
AF	AT	23325 / 2700.84	0 / 0.65	4640. /	724. / 2701.49	65247. / 6.41	1.02 / 0.63	43. /	246. /	*IS*
COMP	AT	23349 / 2703.04	24 / 1.34	4640. / *****	537. / *****	36076. / 2704.38	1.15 / 8.64	44. / 0.56	219. / *****	*XS*
AG-.1	AT	23369 / 2703.96	20 / 0.54	4640. / 0.12	877. / 0.0	97800. / 2704.50	1.25 / 5.29	6. / 0.37	206. / -0.001	*XS*
AG	AT	23411 / 2704.06	42 / 0.54	4640. / 0.09	877. / 0.00	97806. / 2704.60	1.25 / 5.29	6. / 0.37	206. / 0.006	*XS*
AH	AT	23710 / 2704.62	299 / 0.62	4640. / 0.60	891. / 0.04	109775. / 2705.24	1.47 / 5.21	10. / 0.39	171. / -0.000	*XS*
AI-TW	AT	23915 / 2705.12	205 / 0.53	4640. / 0.41	808. / 0.0	97612. / 2705.66	1.04 / 5.75	4. / 0.37	127. / 0.003	*XS*

use →

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 17. DATE= 2/ 1/79

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN      AF-AI  
PROFILE NUMBER 3.      UPSTREAM COMPUTATIONS

SECID	COMP
WSC	2703.04



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID: ERRCR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AI-TW: WS TOO LOW	:	ASSUMED WS = WGC
AH : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2701.50 & WS = 2692.30:	
AH : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2701.50 & WS = 2692.30:	
AH : WS NOT FOUND	:	ASSUMED WS = WSC
AG : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2701.03 & WS = 2691.40:	
AG : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2701.03 & WS = 2691.40:	
AG : WS NOT FOUND	:	ASSUMED WS = WSC
AG-.1: WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2700.93 & WS = 2691.30:	
AG-.1: WS NOT FOUND BETWEEN	:	USED KE = 0.3
	: WS = 2700.93 & WS = 2691.30:	
AG-.1: WS NOT FOUND	:	ASSUMED WS = WSC
COMP : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2703.04 & WS = 2691.20:	
COMP : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2703.04 & WS = 2691.20:	
COMP : WS NOT FOUND	:	ASSUMED WS = WSC
AF : KUZKD < 0.7 OR > 1.0	:	ALERTED USER
AF : SUPERCRITICAL WS	:	COMPUTED WSA



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50 (100) 500 UP & (DOWN) AF-AI  
 PAGE 1 OF 1. PROFILE NUMBER 4. DOWNSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AI-TW AT 23915 / 0 / 4640. / 405. / 38099. / 1.09 / 10. / 121.
 2701.60 / 2.23 / / 2703.83 / 11.45 / 0.99/ *IS*
-----
AH AT 23710 / -205 / 4640. / 462. / 51099. / 1.41 / 40. / 146.
 2701.50 / 2.21 /***** /***** / 2703.71 / 10.05 / 1.01 /***** *XS*
-----
AG AT 23411 / -299 / 4640. / 434. / 41918. / 1.25 / 46. / 155.
 2701.03 / 2.23 /***** /***** / 2703.26 / 10.70 / 1.06 /***** *XS*
-----
AG-.1 AT 23369 / -42 / 4640. / 434. / 41921. / 1.25 / 46. / 155.
 2700.93 / 2.23 /***** /***** / 2703.16 / 10.70 / 1.06 /***** *XS*
-----
COMP AT 23349 / -20 / 4640. / 537. / 36076. / 1.15 / 44. / 219.
 2703.04 / 1.34 /***** /***** / 2704.38 / 8.64 / 0.91 /***** *XS*
-----
AF AT 23325 / -24 / 4640. / 309. / 19516. / 1.45 / 47. / 206.
 2698.54 / 5.09 / 0.73 / 0.0 / 2703.63 / 15.00 / 2.29 / 0.013 *XS*
=====
    
```

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN      AF-AI  
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AF	COMP	AG-.1	AG	AH	AI-TW
WSC	2699.82	2703.04	2700.93	2701.03	2701.50	2701.60

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN      AF-AI  
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AF
WSA	2703.45



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
PROFILE NUMBER 5. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

COMP : WS NOT FOUND BETWEEN

: WS = 2701.85 & WS = 2705.50:

USED DEL = 0.25

COMP : WS NOT FOUND BETWEEN

: WS = 2701.85 & WS = 2705.50:

USED WSMIN = WSC

COMP : WS NOT FOUND

ASSUMED WS = WSC

COMP : LEFT BANK EXTENDED

ALERTED USER

AG-.1: KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100 500 UP & DOWN AF-AI  
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AF	AT	23325	0	6700.	1003.	100104.	1.01	39.	283.
2702.10	0.70				2702.80	6.68	0.62		*IS*
COMP	AT	23349	24	6700.	717.	51513.	1.11	0.	231.
Use → 2703.96	1.51	*****	*****		2705.46	9.34	0.90	*****	*XS*
AG-.1	AT	23369	20	6700.	1044.	121056.	1.24	4.	213.
2704.81	0.80	0.14	0.0		2705.61	6.42	0.44	-0.001	*YS*
AG	AT	23411	42	6700.	1054.	122501.	1.24	4.	214.
2704.96	0.78	0.13	0.0		2705.74	6.35	0.43	0.006	*XS*
AH	AT	23710	299	6700.	1071.	139046.	1.43	7.	179.
2705.71	0.87	0.79	0.04		2706.58	6.25	0.46	0.005	*XS*
AI-TW	AT	23915	205	6700.	961.	124335.	1.02	2.	132.
2706.34	0.77	0.53	0.0		2707.11	6.97	0.43	-0.001	*XS*

END OF THIS PROFILE

OK



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 23,DATE= 2/ 1/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN      AF-AI  
PROFILE NUMBER 5,      UPSTREAM COMPUTATIONS

SECID    COMP  
WSC    2703.96



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI  
 PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AI-TW: WS TOO LOW	:		ASSUMED WS = WSC
AH : WS NOT FOUND BETWEEN	:	WS = 2703.36 & WS = 2692.30;	USED DEL = 0.25
AH : WS NOT FOUND BETWEEN	:	WS = 2703.36 & WS = 2692.30;	USED KE = 0.5
AH : WS NOT FOUND	:		ASSUMED WS = WSC
AG : WS NOT FOUND BETWEEN	:	WS = 2702.88 & WS = 2691.40;	USED DEL = 0.25
AG : WS NOT FOUND BETWEEN	:	WS = 2702.88 & WS = 2691.40;	USED KE = 0.5
AG : WS NOT FOUND	:		ASSUMED WS = WSC
AG-.1: WS NOT FOUND BETWEEN	:	WS = 2702.80 & WS = 2691.30;	USED DEL = 0.25
AG-.1: WS NOT FOUND BETWEEN	:	WS = 2702.80 & WS = 2691.30;	USED KE = 0.5
AG-.1: WS NOT FOUND	:		ASSUMED WS = WSC
COMP : WS NOT FOUND BETWEEN	:	WS = 2703.96 & WS = 2691.20;	USED DEL = 0.25
COMP : WS NOT FOUND BETWEEN	:	WS = 2703.96 & WS = 2691.20;	USED KE = 0.5
COMP : WS NOT FOUND	:		ASSUMED WS = WSC
COMP : LEFT BANK EXTENDED	:		ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AF : SUPERCRITICAL WS	:		COMPUTED WSA



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100 (500) UP & (DOWN) AF-AI  
 PAGE 1 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

```

=====
SECTD AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AI-TW AT 23915 / 0 / 6700. / 574. / 60210. / 1.00 / 7. / 123.
2703.16 / 2.32 / / / 2705.47 / 11.68 / 0.97/ *IS*
-----
AH AT 23710 / -205 / 6700. / 697. / 80592. / 1.53 / 13. / 161.
2703.36 / 2.19 /***** /***** / 2705.55 / 9.62 / 0.96 /***** *XS*
-----
AG AT 23411 / -299 / 6700. / 683. / 70911. / 1.29 / 40. / 196.
2702.88 / 1.94 /***** /***** / 2704.82 / 9.82 / 0.94 /***** *XS*
-----
AG-.1 AT 23369 / -42 / 6700. / 686. / 71348. / 1.29 / 40. / 196.
2702.80 / 1.92 /***** /***** / 2704.72 / 9.77 / 0.94 /***** *XS*
-----
COMP AT 23349 / -20 / 6700. / 717. / 51513. / 1.11 / 0. / 231.
2703.96 / 1.51 /***** /***** / 2705.46 / 9.34 / 0.98 /***** *XS*
-----
AF AT 23325 / -24 / 6700. / 397. / 27039. / 1.26 / 46. / 215.
2699.08 / 5.60 / 0.77 / 0.0 / 2704.67 / 16.88 / 2.18 / 0.015 *XS*
=====
    
```

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN PROFILE NUMBER 5. DOWNSTREAM COMPUTATIONS AF-AI

SECID	AF	COMP	AG-.1	AG	AH	AI-TW
WSC	2700.58	2703.96	2702.80	2702.88	2703.36	2703.16

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN PROFILE NUMBER 6. DOWNSTREAM COMPUTATIONS AF-AI

SECID	AF
WSA	2704.44











PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	
BR-OP	WARNING	STATION	11	IS LESS THAN	STATION	10	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 4, DATE= 1/ 8/78

INPUT SUMMARY FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM

12 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 12 TYPE 3 CARDS

KEPT 12 CROSS SECTIONS FOR EDITING

12 " " VALID FOR PROPERTY COMPUTATIONS

12 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES  
 SECID=AF-TW AT DISTANCE= 23349 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	30	1045	1.00	21	22	55	75	205
2693.5	40	1734	1.00	21	23	55	76	316
2694.0	51	2512	1.00	22	24	54	76	444
2694.5	62	3361	1.00	23	26	54	77	585
2695.0	74	4295	1.00	24	27	53	77	737
2695.5	87	5342	1.00	26	29	52	77	905
2696.0	100	6505	1.00	27	31	51	78	1090
2696.5	114	7803	1.00	28	33	50	78	1295
2697.0	132	9370	1.05	50	55	49	99	1189
2697.5	167	11362	1.23	102	106	48	150	1090
2698.0	227	14454	1.44	138	143	48	186	1373
2698.5	302	19004	1.47	158	163	47	205	1956
2699.0	384	25780	1.29	168	173	46	214	2899
2699.5	470	34973	1.13	177	182	46	222	4085
2700.0	561	45620	1.06	186	192	45	231	5364
2700.5	656	56814	1.03	196	202	44	240	6710
2701.0	757	69453	1.01	206	212	42	248	8171
2701.5	863	82474	1.01	222	228	41	263	9614
2702.0	979	96892	1.01	240	246	40	280	11183
2702.5	1104	113719	1.01	263	269	5	297	12796
2703.0	1240	134961	1.01	278	284	4	303	14791
2703.5	1387	158808	1.02	304	310	4	307	16633
2704.0	1540	184950	1.03	308	315	3	311	19248
2704.5	1695	213514	1.03	313	320	2	315	22081
2705.0	1853	244689	1.02	318	325	2	319	25133
2705.5	2013	277378	1.02	322	330	1	324	28277
2706.0	2175	312047	1.02	327	335	1	328	31567
2706.5	2340	349645	1.01	330	338	0	330	35074

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES  
 SECID=BR-OP AT DISTANCE= 23349 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	32	1076	1.00	21	23	6	27	222
2693.5	43	1684	1.00	22	25	6	28	338
2694.0	54	2408	1.00	23	26	5	28	474
2694.5	66	3221	1.00	23	27	5	28	627
2695.0	77	4117	1.00	24	28	4	28	794
2695.5	90	4905	1.00	26	31	2	28	943
2696.0	104	5917	1.00	28	34	0	28	1129
2696.5	118	7169	1.00	28	35	0	28	1366
2697.0	132	8486	1.00	28	36	0	28	1617
2697.5	146	9861	1.00	28	37	0	28	1882



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=BR-OP AT DISTANCE= 23349 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2698.0	160	11289	1.00	28	38	0	28	2160
2698.5	174	12763	1.00	28	39	0	28	2451
2699.0	188	14281	1.00	26	40	0	28	2753
2699.5	202	15837	1.00	28	41	0	28	3067
2700.0	216	17429	1.00	28	42	0	28	3392
2700.5	224	13119	1.00	0	70	0	28	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AG-AP AT DISTANCE= 23411 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2693.0	26	779	1.00	22	23	88	110	158
2693.5	37	1517	1.00	23	24	88	110	269
2694.0	48	2481	1.00	23	25	87	110	399
2694.5	60	3450	1.00	23	26	87	111	546
2695.0	72	4529	1.00	24	27	87	111	709
2695.5	84	5593	1.00	26	30	85	111	867
2696.0	97	6820	1.00	28	32	84	111	1039
2696.5	116	8441	1.07	47	52	58	111	1001
2697.0	143	10409	1.19	55	61	56	112	1191
2697.5	171	12743	1.24	57	63	55	112	1506
2698.0	199	15498	1.23	59	65	53	112	1884
2698.5	229	18754	1.20	62	69	52	114	2284
2699.0	262	22363	1.19	66	73	51	117	2694
2699.5	296	26331	1.20	70	77	49	120	3144
2700.0	333	30672	1.21	80	87	48	129	3501
2700.5	377	35529	1.23	94	102	47	142	3848
2701.0	427	41003	1.26	108	116	46	154	4283
2701.5	485	47214	1.29	122	130	45	167	4816
2702.0	550	54300	1.32	136	144	44	180	5459
2702.5	621	62380	1.33	150	158	43	193	6223
2703.0	698	72539	1.29	158	166	39	197	7335
2703.5	779	83396	1.27	166	174	36	201	8511
2704.0	864	95263	1.25	175	183	6	206	9758
2704.5	958	108073	1.24	205	213	5	210	10511
2705.0	1060	122563	1.24	210	218	4	214	12143
2705.5	1166	139115	1.21	215	224	3	218	14013
2706.0	1275	158980	1.16	221	229	2	222	16175
2706.5	1387	180803	1.13	223	232	1	224	18476
2706.9	1476	198996	1.11	224	233	0	224	20411



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AH AT DISTANCE= 23710 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2694.0	37	1459	1.00	26	27	78	104	256
2694.5	51	2676	1.00	27	28	78	104	394
2695.0	64	4019	1.00	28	30	77	105	553
2695.5	78	5428	1.00	29	31	77	106	732
2696.0	93	7014	1.00	30	32	76	106	931
2696.5	109	8866	1.01	35	38	72	107	1089
2697.0	128	11020	1.05	42	44	67	108	1246
2697.5	151	13605	1.12	49	52	61	110	1425
2698.0	177	16485	1.19	56	59	56	112	1640
2698.5	207	19764	1.25	63	66	51	114	1897
2699.0	240	23575	1.30	70	73	49	119	2215
2699.5	277	28004	1.32	78	81	48	125	2580
2700.0	318	32849	1.36	85	89	46	132	2983
2700.5	362	38285	1.39	93	97	45	138	3444
2701.0	410	44404	1.40	99	103	43	142	4005
2701.5	462	51116	1.41	106	110	40	146	4603
2702.0	517	58377	1.42	113	117	37	150	5252
2702.5	577	65365	1.48	123	131	26	154	5709
2703.0	644	73276	1.54	144	148	14	158	6231
2703.5	718	83578	1.52	149	153	13	162	7248
2704.0	793	94717	1.50	154	158	12	166	8348
2704.5	872	106697	1.47	159	163	11	170	9532
2705.0	952	119527	1.45	164	168	10	174	10799
2705.5	1036	133133	1.43	169	174	8	178	12130
2706.0	1122	147485	1.42	175	180	6	182	13515
2706.5	1211	162728	1.40	181	186	4	186	14985
2707.0	1303	178877	1.39	187	192	3	190	16540
2707.5	1398	195951	1.38	193	198	1	194	18180
2707.8	1456	206788	1.37	196	201	0	196	19238

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AI-TW AT DISTANCE= 23915 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	33	1297	1.00	21	22	91	112	234
2695.5	44	2127	1.00	23	25	89	113	346
2696.0	57	3081	1.00	25	27	88	113	479
2696.5	70	4142	1.00	27	29	87	114	632
2697.0	84	5230	1.00	31	33	84	115	789
2697.5	102	6464	1.02	39	41	81	116	963
2698.0	133	8571	1.15	53	55	73	117	1167
2698.5	165	11103	1.21	67	69	64	118	1407
2699.0	199	14139	1.22	81	83	57	119	1695



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AI-TW AT DISTANCE= 23915 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2699.5	236	17796	1.18	74	77	44	118	2194
2700.0	274	22118	1.13	77	80	42	119	2748
2700.5	313	26615	1.12	80	84	39	120	3317
2701.0	354	31560	1.10	83	87	37	120	3936
2701.5	396	36948	1.09	86	90	35	121	4603
2702.0	442	42799	1.10	104	108	9	122	4952
2702.5	498	49771	1.10	114	118	8	122	5626
2703.0	556	57625	1.10	115	120	7	123	6606
2703.5	614	66187	1.08	117	122	7	124	7666
2704.0	673	75419	1.07	118	124	6	124	8797
2704.5	732	85292	1.06	120	125	5	125	9988
2705.0	793	95129	1.04	122	128	4	127	11211
2705.5	854	105470	1.03	125	131	4	129	12478
2706.0	917	116481	1.02	128	134	3	131	13794
2706.5	982	128159	1.02	130	137	2	133	15158
2707.0	1048	140502	1.01	133	140	1	135	16570
2707.5	1115	153507	1.01	136	143	1	137	18028
2708.0	1184	165358	1.01	141	148	0	141	19376
2708.5	1256	177870	1.01	146	154	0	146	20776
2708.6	1271	180483	1.01	147	155	0	147	21060

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=BR-OP AT DISTANCE= 23915 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	38	1561	1.00	26	27	2	28	259
2695.5	51	2423	1.00	28	30	0	28	391
2696.0	65	3551	1.00	28	31	0	28	562
2696.5	79	4810	1.00	28	32	0	28	753
2697.0	93	6183	1.00	28	33	0	28	962
2697.5	107	7656	1.00	28	34	0	28	1187
2698.0	121	9215	1.00	28	35	0	28	1427
2698.5	135	10852	1.00	28	36	0	28	1682
2699.0	149	12558	1.00	28	37	0	28	1950
2699.5	163	14326	1.00	28	38	0	28	2231
2700.0	177	16150	1.00	28	39	0	28	2525
2700.5	191	18025	1.00	28	40	0	28	2830
2701.0	205	19947	1.00	28	41	0	28	3147
2701.5	219	21911	1.00	28	42	0	28	3475
2701.9	230	16778	1.00	0	71	0	28	0



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AJ-AP AT DISTANCE= 23963 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	53	2356	1.06	35	36	73	108	357
2695.5	70	4065	1.07	36	37	73	109	541
2696.0	89	5872	1.07	37	39	72	110	749
2696.5	108	7974	1.08	39	41	71	110	975
2697.0	128	10385	1.08	43	45	68	111	1205
2697.5	151	13106	1.10	47	49	65	111	1457
2698.0	175	16117	1.14	51	54	61	112	1730
2698.5	202	19551	1.17	56	59	58	114	2006
2699.0	231	23379	1.20	62	65	55	117	2316
2699.5	264	27639	1.23	67	70	52	119	2663
2700.0	299	32386	1.26	73	76	48	121	3054
2700.5	336	37718	1.28	78	82	45	123	3499
2701.0	377	43465	1.30	84	87	42	126	3976
2701.5	421	49798	1.32	91	95	7	128	4465
2702.0	468	56806	1.33	99	103	7	130	5018
2702.5	520	64303	1.36	113	117	6	133	5433
2703.0	582	72876	1.39	129	134	6	135	5944
2703.5	647	82714	1.39	132	137	5	137	6890
2704.0	714	93433	1.38	135	140	5	140	7922
2704.5	782	105003	1.37	138	143	4	142	9036
2705.0	852	117401	1.35	141	146	4	144	10226
2705.5	923	130623	1.34	143	149	3	147	11489
2706.0	995	144663	1.32	146	153	3	149	12825
2706.5	1069	159517	1.30	149	156	2	151	14230
2707.0	1144	175183	1.29	152	159	2	153	15703
2707.5	1221	191663	1.27	155	162	1	156	17242
2708.0	1299	208958	1.26	158	165	0	158	18848
2708.5	1379	227134	1.25	160	168	0	160	20533
2709.0	1459	246335	1.23	163	170	0	162	22331
2709.5	1541	266333	1.22	165	173	0	164	24192
2710.0	1624	287126	1.21	167	175	-1	165	26114
2710.5	1708	308716	1.20	169	178	-1	167	28098
2711.0	1793	331101	1.19	171	180	-2	168	30142
2711.5	1880	354285	1.18	174	183	-3	170	32247
2712.0	1967	379083	1.17	174	184	-3	170	34609
2712.5	2054	404602	1.16	175	185	-4	170	37026
2712.8	2106	420244	1.16	175	186	-4	170	38501



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AK AT DISTANCE= 24820 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2698.0	17	405	1.00	17	17	24	41	101
2698.5	26	762	1.00	19	19	23	42	177
2699.0	36	1211	1.00	22	22	21	43	267
2699.5	48	1792	1.00	25	26	20	44	378
2700.0	61	2504	1.00	27	29	18	45	516
2700.5	75	3394	1.00	29	31	17	47	685
2701.0	90	4409	1.00	31	33	17	48	876
2701.5	106	5549	1.00	32	35	17	49	1087
2702.0	123	6819	1.01	41	44	16	84	1200
2702.5	153	8408	1.12	79	82	16	105	1142
2703.0	201	10828	1.23	110	113	15	125	1391
2703.5	261	14312	1.25	131	134	15	146	1870
2704.0	331	19254	1.17	145	148	14	159	2619
2704.5	406	25950	1.08	156	160	14	170	3572
2705.0	487	34716	1.02	168	172	14	182	4657
2705.5	574	44066	1.01	180	184	13	193	5799
2706.0	668	53114	1.01	204	209	13	217	6841
2706.5	781	62949	1.01	241	246	12	254	7919
2707.0	906	77194	1.01	260	265	12	271	9573
2707.5	1040	93360	1.00	278	283	11	289	11404
2708.0	1183	112166	1.00	293	298	11	304	13490
2708.5	1332	133911	1.00	303	309	11	313	15844
2709.0	1486	157641	1.00	313	319	10	323	18350
2709.5	1645	183366	1.00	323	329	10	333	21011
2710.0	1809	211100	1.01	333	340	9	342	23831
2710.5	1978	241024	1.01	343	349	9	351	26822
2711.0	2151	273651	1.02	350	357	7	357	29998
2711.5	2328	307660	1.03	359	366	4	363	33227
2712.0	2510	343426	1.04	368	375	0	368	36533
2712.5	2695	383429	1.04	374	381	0	374	40308
2712.6	2733	391668	1.04	375	383	0	375	41081

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AL AT DISTANCE= 25430 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2701.0	22	579	1.00	23	24	77	101	124
2701.5	34	1159	1.00	25	26	77	102	227
2702.0	48	1900	1.00	29	30	76	105	351
2702.5	63	2866	1.00	32	33	76	108	501
2703.0	80	3979	1.00	35	37	75	110	679
2703.5	98	5332	1.00	36	40	75	113	893
2704.0	117	6950	1.00	40	42	74	114	1142



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AL AT DISTANCE= 25430 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2704.5	171	9187	1.37	202	205	51	305	760
2705.0	284	13829	1.63	239	242	49	310	1371
2705.5	409	20764	1.49	260	263	46	313	2377
2706.0	542	31713	1.24	271	274	44	315	3906
2706.5	679	47663	1.09	275	278	42	317	5785
2707.0	818	64033	1.06	280	282	40	319	7694
2707.5	959	82261	1.05	284	287	37	321	9734
2708.0	1101	102493	1.05	288	291	35	323	11915
2708.5	1246	124659	1.05	292	295	33	325	14235
2709.0	1394	148701	1.05	296	300	31	328	16689
2709.5	1543	174575	1.06	301	304	29	330	19275
2710.0	1694	202243	1.06	305	308	27	332	21990
2710.5	1848	231676	1.07	309	313	25	334	24832
2711.0	2004	262339	1.07	316	320	20	336	27640
2711.5	2163	294798	1.08	322	326	16	338	30572
2712.0	2326	329041	1.09	329	333	11	340	33628
2712.5	2492	365058	1.10	336	340	7	343	36806
2713.0	2662	403221	1.10	341	345	4	345	40233
2713.5	2833	443655	1.10	344	349	3	347	43969
2714.0	3006	485770	1.10	347	352	2	349	47829
2714.5	3181	529547	1.10	350	355	1	351	51812
2715.0	3357	575078	1.10	353	358	0	353	55957
2715.5	3534	622379	1.10	355	361	0	355	60286
2715.9	3676	661384	1.10	357	363	0	357	63836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AM AT DISTANCE= 25875 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	38	1174	1.00	31	31	191	222	237
2703.5	53	2021	1.00	33	34	190	222	388
2704.0	70	3274	1.00	35	36	188	223	568
2704.5	89	4671	1.03	43	45	180	224	721
2705.0	114	6362	1.10	53	55	171	224	898
2705.5	143	8382	1.17	63	65	161	225	1121
2706.0	178	10856	1.26	81	83	152	233	1336
2706.5	225	13873	1.39	107	109	138	245	1564
2707.0	286	17674	1.52	136	139	125	262	1899
2707.5	360	22592	1.58	160	162	120	281	2432
2708.0	446	28694	1.59	184	186	116	300	3123
2708.5	542	37018	1.47	198	200	111	309	4187
2709.0	644	47445	1.35	212	214	106	319	5490
2709.5	754	60227	1.24	226	228	102	328	7012



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 SECID=AM AT DISTANCE= 25875 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2710.0	870	73860	1.19	242	244	95	337	8592
2710.5	995	89265	1.15	258	261	88	346	10319
2711.0	1128	107380	1.12	272	275	80	353	12320
2711.5	1267	127416	1.09	284	287	73	357	14505
2712.0	1413	148234	1.09	297	299	65	362	16779
2712.5	1564	170864	1.08	309	311	58	367	19205
2713.0	1721	195197	1.08	321	324	50	371	21763
2713.5	1886	220995	1.08	336	338	40	376	24393
2714.0	2056	250117	1.08	346	349	33	379	27384
2714.5	2231	281718	1.07	355	357	27	382	30630
2715.0	2411	315214	1.07	363	366	22	385	34027
2715.5	2595	350614	1.07	372	374	16	388	37576
2716.0	2782	387928	1.07	380	383	11	391	41278
2716.5	2975	427168	1.07	389	392	5	394	45135
2717.0	3171	469185	1.07	396	399	0	396	49202



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AG-AP: WSU > BELMX (1)

AG-AP: YU/Z < 1.1 (1)

AK : KU/KD < 0.7 OR > 1.4

AL : KU/KD < 0.7 OR > 1.4

AM : KU/KD < 0.7 OR > 1.4

:  
CHECKED QBO (2)

:  
ASSUMED QBO (1)

:  
ALERTED USER

:  
ALERTED USER

:  
ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEN	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
AF-TW	AT 23349	/ 0	/ 2280.	/ 411.	/ 28429.	/ 1.23	/ 46.	/ 217.
	2699.16	/ 0.59	/	/ 2699.75	/ 5.55	/ 0.51		*IS*
===== BEGIN BRIDGE ANALYSIS =====								
BR-OP	AT 23349	/	/ 2099.	/ 166.	/ 12362.	/ 1.00	/ 0.	/ 28.
	2699.16	/ 2.48	/ ...1...	/ (-.001)	/ 12.62	/ 0.85		*B0*
-----								
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 217. / *R6*								
-----								
AG-AP	AT 23411	/ 62	/ 2280.	/ 282.	/ 24748.	/ 1.20	/ 50.	/ 119.
	2699.71	/ 1.21	/ 0.46	/ 0.31	/ 2700.52	/ 8.07	/ 0.65	/ -0.001 *AS*
-----								
M = 0.22 / E = 0.0 / K* = 0.36 / 406. / 38720. / 1.25 / 47. / 149.								
	2700.80	/ 0.61	/	/ 2701.41	/ 5.61	/ 0.43		*AS*
===== END BRIDGE ANALYSIS =====								
AH	AT 23710	/ 299	/ 2280.	/ 480.	/ 53459.	/ 1.41	/ 39.	/ 147.
	2701.67	/ 0.50	/ 0.75	/ 0.0	/ 2702.16	/ 4.75	/ 0.38	/ -0.000 *XS*
-----								
AI-TW	AT 23915	/ 205	/ 2280.	/ 461.	/ 44960.	/ 1.10	/ 9.	/ 122.
	2702.17	/ 9.42	/ 0.44	/ 0.0	/ 2702.59	/ 4.95	/ 0.38	/ -0.020 *XS*
===== BEGIN BRIDGE ANALYSIS =====								
BR-OP	AT 23915	/	/ 2029.	/ 222.	/ 16123.	/ 1.00	/ 0.	/ 28.
	2701.90	/ 1.30	/ ...3...	/ (-.001)	/ 9.13	/ 0.56		*B0*
-----								
EMBANKMENT OVERFLOW (CFS) / LEFT 240. / RIGHT 0. / *R6*								
-----								
AJ-AP	AT 23903	/ 48	/ 2280.	/ 493.	/ 60416.	/ 1.34	/ 7.	/ 131.
	2702.25	/ 0.45	/ 0.09	/ 0.01	/ 2702.69	/ 4.62	/ 0.36	/ -0.000 *AS*
-----								
M = **** / E = **** / K* = **** / 709. / 92651. / 1.39 / 5. / 139.								
	2703.96	/ 0.22	/	/ 2704.19	/ 3.21	/ 0.26		*AS*
===== END BRIDGE ANALYSIS =====								
AK	AT 24820	/ 857	/ 2280.	/ 519.	/ 38175.	/ 1.01	/ 13.	/ 186.
	2705.19	/ 0.30	/ 1.26	/ 0.04	/ 2705.49	/ 4.39	/ 0.51	/ 0.002 *XS*
-----								
AL	AT 25430	/ 610	/ 2280.	/ 761.	/ 57228.	/ 1.07	/ 40.	/ 318.
	2706.80	/ 0.15	/ 1.45	/ 0.0	/ 2706.95	/ 3.00	/ 0.34	/ 0.004 *XS*
-----								
AM	AT 25875	/ 445	/ 2280.	/ 440.	/ 28271.	/ 1.59	/ 116.	/ 299.
	2707.97	/ 0.66	/ 1.43	/ 0.26	/ 2708.63	/ 5.18	/ 0.55	/ -0.000 *XS*

10-Yr. Good

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-RM  
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AG-AP: WS NOT FOUND BETWEEN	: WS = 2700.07 & WS = 2706.90:	
	:	USED DEL = 0.25
AG-AP: WS NOT FOUND BETWEEN	: WS = 2700.07 & WS = 2706.90:	
	:	USED WSMIN = WSC
AG-AP: WS NOT FOUND	:	ASSUMED WS = WSC
AG-AP: H1N TOO LOW	:	USED H1N = WSD+0.01
AG-AP: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AG-AP: WSU > BELMX (1)	:	CHECKED QBO (2)
AG-AP: MAX QBO < QT (2)	:	CHECKED QRD
AK : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AM : KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	REMARKS	
AF-TW	AT	23349	/	0	/	3870.	/	621.	/	52615.	/	1.04 / 44. / 237.
		2700.32	/	0.63	/		/	2700.95	/	6.23	/	0.64 / *IS*
===== BEGIN BRIDGE ANALYSIS =====												
BR-OP	AT	23349	/		/	2026.	/	194.	/	11102.	/	1.00 / 0. / 28.
		2700.50	/	1.70	/	...2...	/	(-.001)	/	10.45	/	0.65 / *B0*
-----												
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1769. / *RG*												
-----												
AG-AP	AT	23411	/	62	/	3870.	/	361.	/	33810.	/	1.22 / 48. / 137.
		2700.33	/	2.18	/	0.52	/	1.05	/	2702.51	/	10.72 / 0.82 / -0.011 *AS*
-----												
M = **** / E = **** / K* = **** / 682. / 70384. / 1.30 / 40. / 196.												
		2702.90	/	0.65	/		/	2703.55	/	5.67	/	0.42 / *AS*
===== END BRIDGE ANALYSIS =====												
AH	AT	23710	/	299	/	3870.	/	740.	/	86798.	/	1.51 / 13. / 163.
		2703.65	/	0.64	/	0.73	/	0.0	/	2704.29	/	5.23 / 0.41 / 0.012 *XS*
-----												
AI-TW	AT	23915	/	205	/	3870.	/	700.	/	79858.	/	1.06 / 6. / 125.
		2704.23	/	0.51	/	0.44	/	0.0	/	2704.73	/	5.53 / 0.38 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====												
BR-OP	AT	23915	/		/	2197.	/	222.	/	16123.	/	1.00 / 0. / 28.
		2701.90	/	1.52	/	...3...	/	(-.001)	/	9.88	/	0.61 / *B0*
-----												
EMBANKMENT OVERFLOW (CFS) / LEFT 1496. / RIGHT 198. / *RG*												
-----												
AJ-AP	AT	23963	/	48	/	3870.	/	753.	/	100027.	/	1.38 / 4. / 141.
		2704.29	/	0.56	/	0.09	/	0.03	/	2704.85	/	5.14 / 0.38 / -0.000 *AS*
-----												
M = **** / E = **** / K* = **** / 1042. / 153968. / 1.31 / 2. / 150.												
		2706.32	/	0.28	/		/	2706.60	/	3.72	/	0.25 / *AS*
===== END BRIDGE ANALYSIS =====												
AK	AT	24820	/	857	/	3870.	/	990.	/	87195.	/	1.00 / 12. / 283.
		2707.32	/	0.24	/	0.96	/	0.0	/	2707.55	/	3.91 / 0.40 / 0.002 *XS*
-----												
AL	AT	25430	/	610	/	3870.	/	1186.	/	115163.	/	1.05 / 34. / 325.
		2708.29	/	0.17	/	0.91	/	0.0	/	2708.47	/	3.26 / 0.31 / 0.000 *XS*
-----												
AM	AT	25875	/	445	/	3870.	/	681.	/	51607.	/	1.30 / 105. / 322.
		2709.17	/	0.66	/	1.12	/	0.24	/	2709.83	/	5.68 / 0.53 / 0.000 *XS*

50 - Yr.

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 17,DATE= 1/ 8/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID AG-AP  
WSC 2700.30



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AG-AP; WS NOT FOUND BETWEEN	; WS = 2700.59 & WS = 2706.90;	
	;	USED DEL = 0.25
AG-AP; WS NOT FOUND BETWEEN	; WS = 2700.59 & WS = 2706.90;	
	;	USED WSMIN = WSC
AG-AP; WS NOT FOUND	;	ASSUMED WS = WSC
AG-AP; MAX QBO < QT (3)	;	CHECKED QRD
AJ-AP; MAX QBO < QT (3)	;	CHECKED QRD
AK ; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AM ; KU/KD < 0.7 OR > 1.4	;	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AF-TW AT 23349 / 0 / 4640. / 724. / 65247. / 1.02 / 43. / 246.
2700.84 / 0.65 / / 2701.49 / 6.41 / 0.63/ *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23349 / / 2232. / 194. / 11102. / 1.00 / 0. / 28.
2700.50 / 2.06 / ...3... (-.001) / 11.51 / 0.72 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 18. / RIGHT 2300. / *RG*
-----
AG-AP AT 23411 / 62 / 4640. / 439. / 42300. / 1.27 / 46. / 157.
2701.11 / 2.21 /***** /***** / 2703.32 / 10.56 / 0.80 /***** *AS*
-----
M = **** / E = **** / K* = **** / 743. / 78479. / 1.28 / 37. / 200.
2703.28 / 0.77 / / 2704.05 / 6.25 / 0.45 / *AS*
===== END BRIDGE ANALYSIS =====
AH AT 23710 / 299 / 4640. / 815. / 98047. / 1.49 / 12. / 167.
2704.14 / 0.75 / 0.84 / 0.0 / 2704.89 / 5.69 / 0.44 / 0.003 *XS*
-----
AI-TW AT 23915 / 205 / 4640. / 767. / 90993. / 1.05 / 5. / 126.
2704.79 / 0.60 / 0.49 / 0.0 / 2705.39 / 6.05 / 0.40 / -0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2261. / 222. / 16123. / 1.00 / 0. / 28.
2701.90 / 1.61 / ...3... (-.001) / 10.17 / 0.62 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 2015. / RIGHT 332. / *RG*
-----
AJ-AP AT 23963 / 48 / 4640. / 832. / 113849. / 1.36 / 4. / 144.
2704.86 / 0.66 / 0.10 / 0.03 / 2705.52 / 5.58 / 0.40 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1139. / 174118. / 1.29 / 2. / 153.
2706.97 / 0.33 / / 2707.30 / 4.07 / 0.27 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 4640. / 1184. / 112328. / 1.00 / 11. / 304.
2708.00 / 0.24 / 0.94 / 0.0 / 2708.24 / 3.92 / 0.38 / -0.000 *XS*
-----
AL AT 25430 / 610 / 4640. / 1356. / 142397. / 1.05 / 32. / 327.
2708.87 / 0.19 / 0.82 / 0.0 / 2709.06 / 3.42 / 0.31 / 0.001 *XS*
-----
AM AT 25875 / 445 / 4640. / 795. / 65087. / 1.22 / 100. / 331.
2709.68 / 0.64 / 1.03 / 0.23 / 2710.32 / 5.84 / 0.51 / 0.001 *XS*
=====
    
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100-Yr.

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID A6-AP  
WSC 2701.11



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AG-AP; WS NOT FOUND BETWEEN

; WS = 2701.87 & WS = 2706.90;

USED DEL = 0.25

AG-AP; WS NOT FOUND BETWEEN

; WS = 2701.87 & WS = 2706.90;

USED WSMIN = WSC

AG-AP; WS NOT FOUND

ASSUMED WS = WSC

AG-AP; MAX Q80 < QT (3)

CHECKED QRD

AJ-AP; MAX Q80 < QT (3)

CHECKED QRD

AM ; KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AF-TW AT 23349 /    0 / 6700. / 1008. / 100757. / 1.01 / 39. / 284.
 2702.12 / 0.69 /           / 2702.81 / 6.65 / 0.61/      *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23349 /    / 2255. / 194. / 11102. / 1.00 / 0. / 28.
 2700.50 / 2.10 / ...3... (-.001) / 11.63 / 0.72 /      *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 296. / RIGHT 4067. /      *RG*
-----
AG-AP AT 23411 / 62 / 6700. / 688. / 71173. / 1.29 / 40. / 197.
 2702.94 / 1.91 /***** /***** / 2704.84 / 9.74 / 0.71 /***** *AS*
-----
M = **** / E = **** / K* = **** / 940. / 105880. / 1.24 / 5. / 209.
 2704.42 / 0.98 /           / 2705.40 / 7.13 / 0.49 /      *AS*
===== END BRIDGE ANALYSIS =====
AH AT 23710 / 299 / 6700. / 1022. / 130917. / 1.44 / 9. / 177.
 2705.42 / 0.96 / 0.97 / 0.0 / 2706.38 / 6.55 / 0.48 / 0.009 *XS*
-----
AI-TW AT 23915 / 205 / 6700. / 939. / 120375. / 1.02 / 3. / 131.
 2706.17 / 0.81 / 0.58 / 0.0 / 2706.98 / 7.13 / 0.44 / 0.014 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 /    / 2387. / 222. / 16123. / 1.00 / 0. / 28.
 2701.90 / 1.79 / ...3... (-.001) / 10.73 / 0.66 /      *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 3460. / RIGHT 839. /      *RG*
-----
AJ-AP AT 23963 / 48 / 6700. / 1034. / 152387. / 1.31 / 2. / 150.
 2706.26 / 0.86 / 0.12 / 0.02 / 2707.12 / 6.48 / 0.44 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 1380. / 227428. / 1.25 / -0. / 160.
 2708.51 / 0.46 /           / 2708.96 / 4.86 / 0.30 /      *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 6700. / 1681. / 189313. / 1.01 / 10. / 335.
 2709.61 / 0.25 / 0.89 / 0.0 / 2709.86 / 3.99 / 0.34 / 0.000 *XS*
-----
AL AT 25430 / 610 / 6700. / 1782. / 218872. / 1.06 / 26. / 333.
 2710.29 / 0.23 / 0.66 / 0.0 / 2710.52 / 3.76 / 0.30 / 0.000 *XS*
-----
AM AT 25875 / 445 / 6700. / 1116. / 105572. / 1.12 / 81. / 352.
 2710.95 / 0.63 / 0.86 / 0.20 / 2711.58 / 6.01 / 0.46 / 0.000 *XS*
=====
    
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500-Yr.

END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 23,DATE= 1/ 8/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID AG-AP  
WSC 2702.94







PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
BR-OP	WARNING	STATION 11	IS LESS THAN	STATION 10	



INPUT SUMMARY FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=AI-TW AT DISTANCE= 23915 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	33	1297	1.00	21	22	91	112	234
2695.5	44	2127	1.00	23	25	89	113	346
2696.0	57	3081	1.00	25	27	88	113	479
2696.5	70	4142	1.00	27	29	87	114	632
2697.0	84	5230	1.00	31	33	84	115	789
2697.5	102	6464	1.02	59	61	56	115	753
2698.0	133	8571	1.15	63	65	53	116	1016
2698.5	165	11103	1.21	67	69	50	117	1336
2699.0	199	14139	1.22	71	73	47	118	1723
2699.5	236	17796	1.18	74	77	44	118	2194
2700.0	274	22118	1.13	77	80	42	119	2748
2700.5	313	26615	1.12	80	84	39	120	3317
2701.0	354	31560	1.10	83	87	37	120	3936
2701.5	396	36948	1.09	86	90	35	121	4603
2702.0	442	42799	1.10	104	108	9	122	4952
2702.5	498	49771	1.10	114	118	8	122	5626
2703.0	556	57625	1.10	115	120	7	123	6606
2703.5	614	66187	1.08	117	122	7	124	7666
2704.0	673	75419	1.07	118	124	6	124	8797
2704.5	732	85292	1.06	120	125	5	125	9988
2705.0	793	95129	1.04	122	128	4	127	11211
2705.5	854	105476	1.03	125	131	4	129	12478
2706.0	917	116481	1.02	128	134	3	131	13794
2706.5	982	128159	1.02	130	137	2	133	15158
2707.0	1048	140502	1.01	133	140	1	135	16570
2707.5	1115	153507	1.01	136	143	1	137	18028
2708.0	1184	165358	1.01	141	148	0	141	19376
2708.5	1256	177870	1.01	146	154	0	146	20776
2708.6	1271	180483	1.01	147	155	0	147	21060

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=BR-OP AT DISTANCE= 23915 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	38	1561	1.00	26	27	2	28	259
2695.5	51	2423	1.00	28	30	0	28	391
2696.0	65	3551	1.00	28	31	0	28	562
2696.5	79	4810	1.00	28	32	0	28	753
2697.0	93	6183	1.00	28	33	0	28	962
2697.5	107	7656	1.00	28	34	0	28	1187
2698.0	121	9215	1.00	28	35	0	28	1427
2698.5	135	10852	1.00	28	36	0	28	1682
2699.0	149	12558	1.00	28	37	0	28	1950



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50.100.500 WITH BRIDGES AI-AM  
 SECID=RR-OP AT DISTANCE= 23915 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2699.5	163	14326	1.00	28	38	0	28	2231
2700.0	177	16150	1.00	28	39	0	28	2525
2700.5	191	18025	1.00	28	40	0	28	2830
2701.0	205	19947	1.00	28	41	0	28	3147
2701.5	219	21911	1.00	28	42	0	28	3475
2701.9	230	16778	1.00	0	71	0	28	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50.100.500 WITH BRIDGES AI-AM  
 SECID=AJ-AP AT DISTANCE= 23963 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2695.0	53	2356	1.06	35	36	73	108	357
2695.5	70	4065	1.07	36	37	73	109	541
2696.0	89	5872	1.07	37	39	72	110	749
2696.5	108	7974	1.08	39	41	71	110	975
2697.0	128	10385	1.08	43	45	68	111	1205
2697.5	151	13106	1.10	47	49	65	111	1457
2698.0	175	16117	1.14	51	54	61	112	1730
2698.5	202	19551	1.17	56	59	58	114	2006
2699.0	231	23379	1.20	62	65	55	117	2316
2699.5	264	27639	1.23	67	70	52	119	2663
2700.0	299	32386	1.26	73	76	48	121	3054
2700.5	336	37718	1.28	78	82	45	123	3499
2701.0	377	43465	1.30	84	87	42	126	3976
2701.5	421	49798	1.32	91	95	7	128	4466
2702.0	468	56806	1.33	99	103	7	130	5018
2702.5	520	64303	1.36	113	117	6	133	5433
2703.0	582	72876	1.39	129	134	6	135	5944
2703.5	647	82714	1.39	132	137	5	137	6890
2704.0	714	93433	1.38	135	140	5	140	7922
2704.5	782	105003	1.37	138	143	4	142	9036
2705.0	852	117401	1.35	141	146	4	144	10226
2705.5	923	130623	1.34	143	149	3	147	11489
2706.0	995	144663	1.32	146	153	3	149	12825
2706.5	1069	159517	1.30	149	156	2	151	14230
2707.0	1144	175183	1.29	152	159	2	153	15703
2707.5	1221	191663	1.27	155	162	1	156	17242
2708.0	1299	208958	1.26	158	165	0	158	18848
2708.5	1379	227134	1.25	160	168	0	160	20533
2709.0	1459	246335	1.23	163	170	0	162	22331
2709.5	1541	266333	1.22	165	173	0	164	24192
2710.0	1624	287126	1.21	167	175	-1	165	26114
2710.5	1708	308716	1.20	169	178	-1	167	28098



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=AJ-AP AT DISTANCE= 23963 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2711.0	1793	331101	1.19	171	180	-2	168	30142
2711.5	1880	354285	1.18	174	183	-3	170	32247
2712.0	1967	379083	1.17	174	184	-3	170	34609
2712.5	2054	404602	1.16	175	185	-4	170	37026
2712.8	2106	420244	1.16	175	186	-4	170	38501

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=AK AT DISTANCE= 24820 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2698.0	17	405	1.00	17	17	24	41	101
2698.5	26	762	1.00	19	19	23	42	177
2699.0	36	1211	1.00	22	22	21	43	267
2699.5	48	1792	1.00	25	26	20	44	378
2700.0	61	2504	1.00	27	29	18	45	515
2700.5	75	3394	1.00	29	31	17	47	685
2701.0	90	4409	1.00	31	33	17	48	876
2701.5	106	5549	1.00	32	35	17	49	1087
2702.0	123	6819	1.01	41	44	16	84	1200
2702.5	153	8408	1.12	79	82	16	105	1142
2703.0	201	10828	1.23	110	113	15	125	1391
2703.5	261	14312	1.25	131	134	15	146	1870
2704.0	331	19254	1.17	145	148	14	159	2619
2704.5	406	25950	1.08	156	160	14	170	3572
2705.0	487	34716	1.02	168	172	14	182	4657
2705.5	574	44066	1.01	180	184	13	193	5799
2706.0	668	53114	1.01	204	209	13	217	6841
2706.5	781	62949	1.01	241	246	12	254	7919
2707.0	906	77194	1.01	260	265	12	271	9573
2707.5	1040	93360	1.01	278	283	11	289	11404
2708.0	1183	112166	1.00	293	298	11	304	13490
2708.5	1332	133911	1.00	303	309	11	313	15844
2709.0	1486	157641	1.00	313	319	10	323	18350
2709.5	1645	183366	1.00	323	329	10	333	21011
2710.0	1809	211100	1.01	333	340	9	342	23831
2710.5	1978	241024	1.01	343	349	9	351	26822
2711.0	2151	273651	1.02	350	357	7	357	29998
2711.5	2328	307660	1.03	359	366	4	363	33227
2712.0	2510	343426	1.04	360	375	0	368	36533
2712.5	2695	383429	1.04	374	381	0	374	40308
2712.6	2733	391668	1.04	375	383	0	375	41081



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=AL AT DISTANCE= 25430 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2701.0	22	579	1.00	23	24	77	101	124
2701.5	34	1159	1.00	25	26	77	102	227
2702.0	48	1900	1.00	29	30	76	105	351
2702.5	63	2866	1.00	32	33	76	108	501
2703.0	80	3979	1.00	35	37	75	110	679
2703.5	98	5332	1.00	38	40	75	113	893
2704.0	117	6950	1.00	40	42	74	114	1142
2704.5	171	9187	1.37	202	205	51	305	760
2705.0	284	13829	1.53	239	242	49	310	1371
2705.5	409	20764	1.49	260	263	46	313	2377
2706.0	542	31713	1.24	271	274	44	315	3906
2706.5	679	47663	1.09	275	278	42	317	5785
2707.0	818	64033	1.01	280	282	40	319	7694
2707.5	959	82261	1.05	284	287	37	321	9734
2708.0	1101	102493	1.05	288	291	35	323	11915
2708.5	1246	124659	1.05	292	295	33	325	14235
2709.0	1394	148701	1.05	296	300	31	328	16689
2709.5	1543	174575	1.06	301	304	29	330	19275
2710.0	1694	202243	1.06	305	308	27	332	21990
2710.5	1848	231676	1.07	309	313	25	334	24832
2711.0	2004	262339	1.07	316	320	20	336	27640
2711.5	2163	294798	1.08	322	326	16	338	30572
2712.0	2326	329041	1.09	329	333	11	340	33628
2712.5	2492	365058	1.10	336	340	7	343	36806
2713.0	2662	403221	1.10	341	345	4	345	40233
2713.5	2833	443655	1.10	344	349	3	347	43969
2714.0	3006	485770	1.10	347	352	2	349	47829
2714.5	3181	529547	1.10	350	355	1	351	51812
2715.0	3357	575078	1.10	353	358	0	353	55957
2715.5	3534	622379	1.10	355	361	0	355	60296
2715.9	3676	661384	1.10	357	363	0	357	63836

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=AM AT DISTANCE= 25375 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	38	1174	1.00	31	31	191	222	237
2703.5	53	2091	1.00	33	34	190	222	388
2704.0	70	3274	1.00	35	36	188	223	568
2704.5	89	4671	1.03	43	45	180	224	721
2705.0	114	6362	1.10	53	55	171	224	898
2705.5	143	8382	1.17	63	65	161	225	1121
2706.0	178	10856	1.26	81	83	152	233	1336



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 SECID=AM AT DISTANCE= 25875 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2706.5	225	13873	1.39	107	109	138	245	1564
2707.0	286	17674	1.52	136	139	125	262	1899
2707.5	360	22592	1.58	160	162	120	281	2432
2708.0	446	28694	1.59	184	186	116	300	3123
2708.5	542	37018	1.47	198	200	111	309	4187
2709.0	644	47445	1.35	212	214	106	319	5490
2709.5	754	60227	1.24	226	228	102	328	7012
2710.0	870	73860	1.19	242	244	95	337	8592
2710.5	995	89265	1.15	258	261	88	346	10319
2711.0	1128	107380	1.12	272	275	80	353	12320
2711.5	1267	127416	1.09	284	287	73	357	14505
2712.0	1413	148234	1.09	297	299	65	362	16779
2712.5	1564	170864	1.08	309	311	58	367	19205
2713.0	1721	195197	1.08	321	324	50	371	21763
2713.5	1886	220995	1.08	336	338	40	376	24393
2714.0	2056	250117	1.08	355	349	33	379	27384
2714.5	2231	281718	1.07	355	357	27	382	30630
2715.0	2411	315214	1.07	363	366	22	385	34027
2715.5	2595	350614	1.07	372	374	16	388	37576
2716.0	2782	387928	1.07	380	383	11	391	41278
2716.5	2975	427168	1.07	389	392	5	394	45135
2717.0	3171	469185	1.07	396	399	0	396	49202



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

AK : KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

AM : KU/KD < 0.7 OR > 1.4 ;

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE / LENGTH/DISCHARGE / AREA / CONVEYANCE / ALPHA / LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AI-TW AT 23915 / 0 / 3870. / 743. / 87133. / 1.06 / 5. / 125.
2704.59 / 0.45 / / 2705.04 / 5.21 / 0.35 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2082. / 222. / 16123. / 1.00 / 0. / 28.
2701.90 / 1.36 / ...3... (-.001) / 9.36 / 0.58 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1583. / RIGHT 220. / *RG*
-----
AJ-AP AT 23963 / 48 / 3870. / 802. / 108424. / 1.37 / 4. / 143.
2704.64 / 0.49 / 0.08 / 0.02 / 2705.14 / 4.83 / 0.35 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1061. / 157912. / 1.30 / 2. / 151.
2706.45 / 0.27 / / 2706.72 / 3.65 / 0.25 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 3870. / 1011. / 89777. / 1.00 / 12. / 286.
2707.39 / 0.23 / 0.91 / 0.0 / 2707.62 / 3.83 / 0.39 / 0.000 *XS*
-----
AL AT 25430 / 610 / 3870. / 1195. / 116660. / 1.05 / 34. / 325.
2708.32 / 0.17 / 0.87 / 0.0 / 2708.50 / 3.24 / 0.31 / 0.001 *XS*
-----
AM AT 25875 / 445 / 3870. / 684. / 51957. / 1.30 / 105. / 322.
2709.19 / 0.65 / 1.10 / 0.24 / 2709.83 / 5.66 / 0.52 / -0.000 *XS*
=====
    
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END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AJ-AP: MAX QBO < QT (3)	:	CHECKED GRD
AK : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AM : KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50 100 500 WITH BRIDGES AI-AM  
 PAGE 1 OF 1. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AI-TW AT 23915 / 0 / 4640. / 807. / 97547. / 1.04 / 4. / 127.
  2705.12 / 0.53 / / 2705.65 / 5.75 / 0.37/ *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-0P AT 23915 / / 2158. / 222. / 16123. / 1.00 / 0. / 28.
  2701.90 / 1.45 / ...3... (-.001) / 9.70 / 0.60 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 2101. / RIGHT 356. / *RG*
-----
AJ-AP AT 23963 / 48 / 4640. / 877. / 122090. / 1.35 / 3. / 145.
  2705.18 / 0.59 / 0.09 / 0.03 / 2705.77 / 5.29 / 0.38 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 1157. / 177895. / 1.28 / 1. / 154.
  2707.08 / 0.32 / / 2707.41 / 4.01 / 0.26 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 4640. / 1208. / 115680. / 1.00 / 11. / 305.
  2708.08 / 0.23 / 0.90 / 0.0 / 2708.31 / 3.84 / 0.37 / 0.012 *XS*
-----
AL AT 25430 / 610 / 4640. / 1368. / 144329. / 1.05 / 32. / 327.
  2708.91 / 0.19 / 0.79 / 0.0 / 2709.10 / 3.39 / 0.31 / 0.000 *XS*
-----
AM AT 25875 / 445 / 4640. / 799. / 65638. / 1.21 / 100. / 331.
  2709.70 / 0.64 / 1.01 / 0.22 / 2710.34 / 5.80 / 0.50 / 0.000 *XS*
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END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM  
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AJ-AP: MAX QBO < QT (3)

AM : KU/KD < 0.7 OR > 1.4

CHECKED QRD

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100.500 WITH BRIDGES AI-AM  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AI-TW AT 23915 /      0 / 6700. / 961. / 124346. / 1.02 / 2. / 132.
 2706.34 / 0.77 /           / 2707.11 / 6.97 / 0.43 /      *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 /      / 2355. / 222. / 16123. / 1.00 / 0. / 26.
 2701.90 / 1.74 / ...3... (-.001) / 10.59 / 0.65 /      *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 3549. / RIGHT 879. /      *RG*
-----
AJ-AP AT 23963 / 48 / 6700. / 1058. / 157342. / 1.30 / 2. / 151.
 2706.43 / 0.81 / 0.11 / 0.02 / 2707.24 / 6.33 / 0.43 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1397. / 231563. / 1.24 / -0. / 161.
 2708.62 / 0.44 /           / 2709.06 / 4.79 / 0.30 /      *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 6700. / 1704. / 193141. / 1.01 / 10. / 335.
 2709.68 / 0.24 / 0.86 / 0.0 / 2709.92 / 3.93 / 0.33 / 0.000 *XS*
-----
AL AT 25430 / 610 / 6700. / 1796. / 221607. / 1.06 / 26. / 333.
 2710.33 / 0.23 / 0.64 / 0.0 / 2710.56 / 3.73 / 0.30 / 0.000 *XS*
-----
AM AT 25875 / 445 / 6700. / 1124. / 106711. / 1.12 / 81. / 353.
 2710.98 / 0.62 / 0.84 / 0.19 / 2711.60 / 5.96 / 0.46 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE











SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BRIDG	WARNING	STATION	14	IS LESS THAN	STATION	13	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	
BRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 4,DATE= 1/13/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 AM-AS

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 13 TYPE 3 CARDS

KEPT 13 CROSS SECTIONS FOR EDITING

13 " " VALID FOR PROPERTY COMPUTATIONS

13 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AM AT DISTANCE= 25875AM-AS  
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	38	1174	1.00	31	31	191	222	237
2703.5	53	2091	1.00	33	34	190	222	388
2704.0	70	3274	1.00	35	36	188	223	568
2704.5	89	4671	1.03	43	45	180	224	721
2705.0	114	6362	1.10	53	55	171	224	898
2705.5	143	8382	1.17	63	65	161	225	1121
2706.0	178	10856	1.26	81	83	152	233	1336
2706.5	225	13873	1.39	107	109	138	245	1564
2707.0	286	17674	1.52	136	139	125	262	1899
2707.5	360	22592	1.58	160	162	120	281	2432
2708.0	446	28694	1.59	184	186	116	300	3123
2708.5	542	37018	1.47	198	200	111	309	4187
2709.0	644	47445	1.35	212	214	106	319	5490
2709.5	754	60227	1.24	226	228	102	328	7012
2710.0	870	73860	1.19	242	244	95	337	8592
2710.5	995	89265	1.15	258	261	88	346	10319
2711.0	1128	107380	1.12	272	275	80	353	12320
2711.5	1267	127416	1.09	284	287	73	357	14505
2712.0	1413	148234	1.09	297	299	65	362	16779
2712.5	1564	170864	1.08	309	311	58	367	19205
2713.0	1721	195197	1.08	321	324	50	371	21763
2713.5	1886	220995	1.08	336	338	40	376	24393
2714.0	2056	250117	1.08	346	349	33	379	27384
2714.5	2231	281718	1.07	355	357	27	382	30630
2715.0	2411	315214	1.07	363	366	22	385	34027
2715.5	2595	350614	1.07	372	374	16	388	37576
2716.0	2782	387928	1.07	380	383	11	391	41278
2716.5	2975	427168	1.07	389	392	5	394	45135
2717.0	3171	469185	1.07	396	399	0	396	49202

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AM.5 AT DISTANCE= 25988AM-AS  
PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2704.0	53	2091	1.00	33	34	190	222	388
2704.5	70	3274	1.00	35	36	188	223	568
2705.0	89	4671	1.03	43	45	180	224	721
2705.5	114	6362	1.10	53	55	171	224	898
2706.0	143	8382	1.17	63	65	161	225	1121
2706.5	178	10856	1.26	81	83	152	233	1336
2707.0	225	13873	1.39	107	109	138	245	1564
2707.5	286	17674	1.52	136	139	125	262	1899
2708.0	360	22592	1.58	160	162	120	281	2432



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AM+.5 AT DISTANCE= 25988AM-AS  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2708.5	446	28694	1.59	184	186	116	300	3123
2709.0	542	37018	1.47	198	200	111	309	4187
2709.5	644	47445	1.35	212	214	106	319	5490
2710.0	754	60227	1.24	226	228	102	328	7012
2710.5	870	73860	1.19	242	244	95	337	8592
2711.0	995	89265	1.15	258	261	88	346	10319
2711.5	1128	107380	1.12	272	275	80	353	12320
2712.0	1267	127416	1.09	284	287	73	357	14505
2712.5	1413	148234	1.09	297	299	65	362	16779
2713.0	1564	170864	1.08	309	311	58	367	19205
2713.5	1721	195197	1.08	321	324	50	371	21763
2714.0	1886	220995	1.08	336	338	40	376	24393
2714.5	2056	250117	1.08	346	349	33	379	27384
2715.0	2231	281718	1.07	355	357	27	382	30630
2715.5	2411	315214	1.07	363	366	22	385	34027
2716.0	2595	350614	1.07	372	374	16	388	37576
2716.5	2782	387928	1.07	380	383	11	391	41278
2717.0	2975	427168	1.07	389	392	5	394	45135
2717.5	3171	469185	1.07	396	399	0	396	49202

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=BRIDG AT DISTANCE= 25988AM-AS  
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	23	529	1.00	29	29	5	34	115
2703.5	38	1161	1.00	31	31	5	36	238
2704.0	53	1993	1.00	32	33	5	37	393
2704.5	71	2826	1.00	38	40	0	38	550
2705.0	91	4070	1.00	40	43	0	40	775
2705.5	111	5586	1.00	40	44	0	40	1045
2706.0	131	7256	1.00	40	45	0	40	1341
2706.5	151	9063	1.00	40	46	0	40	1660
2707.0	171	10995	1.00	40	47	0	40	2001
2707.5	191	13038	1.00	40	48	0	40	2362
2708.0	211	15183	1.00	40	49	0	40	2744
2708.5	222	10994	1.00	0	89	0	40	0



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AN AT DISTANCE= 26048AM-AS  
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2705.0	40	1601	1.00	25	26	99	124	284
2705.5	53	2444	1.00	30	31	96	126	405
2706.0	70	3416	1.00	37	38	94	130	547
2706.5	90	4977	1.01	43	44	91	134	736
2707.0	131	7242	1.28	130	132	90	233	661
2707.5	206	11050	1.50	161	162	89	256	1081
2708.0	291	16413	1.47	178	180	88	266	1736
2708.5	383	24661	1.26	189	191	87	276	2754
2709.0	480	36476	1.10	202	204	84	286	4007
2709.5	585	50668	1.06	217	219	79	296	5304
2710.0	697	65706	1.05	228	230	74	302	6738
2710.5	813	83059	1.05	236	238	69	306	8334
2711.0	933	102381	1.06	245	247	65	309	10055
2711.5	1058	123683	1.06	253	256	60	313	11906
2712.0	1186	146930	1.06	262	264	55	317	13884
2712.5	1319	171997	1.07	270	273	50	320	15976
2713.0	1457	198912	1.08	280	282	44	324	18164
2713.5	1599	227761	1.09	289	291	39	328	20478
2714.0	1746	258556	1.09	298	301	33	331	22921
2714.5	1897	291316	1.10	307	310	28	335	25493
2715.0	2053	327178	1.11	315	318	22	337	28245
2715.5	2212	365312	1.11	321	324	18	339	31230
2716.0	2374	405401	1.12	327	330	14	341	34337
2716.5	2539	447436	1.12	332	335	11	343	37566
2717.0	2706	491414	1.13	338	341	7	345	40916
2717.5	2877	537333	1.13	344	347	3	347	44388
2718.0	3050	585414	1.13	349	352	0	349	48052
2718.2	3120	605530	1.13	350	354	0	350	49669

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AO AT DISTANCE= 26760AM-AS  
PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2707.0	29	921	1.00	22	23	168	190	184
2707.5	40	1604	1.00	24	25	168	191	296
2708.0	52	2460	1.00	25	26	167	192	429
2708.5	65	3404	1.00	26	28	166	193	581
2709.0	79	4484	1.00	28	30	166	194	752
2709.5	93	5683	1.00	29	32	165	194	939
2710.0	109	7070	1.02	38	41	157	196	1037
2710.5	132	8765	1.08	53	55	144	197	1136
2711.0	162	10870	1.16	68	71	130	198	1314
2711.5	199	13558	1.19	78	81	122	199	1649



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=A0 AT DISTANCE= 26760AM-AS  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2712.0	240	16910	1.17	86	89	115	201	2101
2712.5	285	21017	1.11	95	98	108	203	2657
2713.0	334	26185	1.05	104	107	101	205	3318
2713.5	388	31948	1.03	112	116	95	207	4035
2714.0	447	38348	1.02	121	124	88	209	4822
2714.5	510	45356	1.01	131	134	81	212	5685
2715.0	577	53690	1.00	139	143	74	214	6656
2715.5	649	62853	1.00	148	151	68	215	7708
2716.0	725	72487	1.00	158	161	61	219	8821
2716.5	807	83197	1.00	168	171	54	222	10030
2717.0	893	95024	1.00	178	181	47	225	11340
2717.5	984	109042	1.00	185	189	41	226	12844
2718.0	1078	124173	1.00	193	197	34	226	14449
2718.5	1176	140444	1.00	200	204	27	227	16156
2719.0	1279	155452	1.01	212	216	20	232	17748
2719.5	1388	171948	1.02	224	228	14	238	19455
2720.0	1503	189953	1.02	236	240	7	243	21282
2720.5	1624	210658	1.03	247	252	0	247	23311

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AP AT DISTANCE= 27865AM-AS  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2712.0	9	149	1.00	19	20	457	485	36
2712.5	23	508	1.00	29	30	457	486	113
2713.0	38	1200	1.01	33	35	456	490	225
2713.5	57	2346	1.10	43	45	456	499	352
2714.0	81	3754	1.17	55	57	453	509	512
2714.5	112	5504	1.22	67	69	451	518	740
2715.0	148	7899	1.25	77	79	450	527	1037
2715.5	189	10912	1.27	90	92	447	537	1382
2716.0	238	14632	1.30	104	107	442	546	1791
2716.5	293	19466	1.26	113	116	437	550	2376
2717.0	351	25044	1.24	119	122	432	551	3073
2717.5	412	31364	1.22	125	127	427	552	3847
2718.0	476	38477	1.20	130	133	422	552	4704
2718.5	542	46424	1.18	136	139	417	553	5646
2719.0	611	55274	1.17	141	145	412	553	6680
2719.5	684	64895	1.15	147	151	407	554	7787
2720.0	759	75227	1.15	153	157	402	555	8960
2720.5	837	86228	1.14	160	164	395	555	10149
2721.0	918	98023	1.15	168	172	388	556	11382
2721.5	1004	110843	1.15	176	180	380	556	12723



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AP AT DISTANCE= 27865AM-AS  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2722.0	1094	124643	1.14	184	189	373	556	14160
2722.5	1188	139430	1.14	191	197	365	557	15693
2723.0	1286	155230	1.14	199	205	358	557	17323
2723.5	1387	172073	1.14	207	213	350	557	19054
2724.0	1526	190014	1.17	341	347	220	561	16902
2724.5	1709	210952	1.22	387	393	179	566	18405
2725.0	1913	235412	1.26	427	433	144	571	20463
2725.5	2135	263479	1.28	463	469	112	575	22981
2726.0	2377	294183	1.30	516	523	64	580	25325
2726.5	2650	330201	1.31	561	567	24	585	28488
2727.0	2937	371565	1.30	586	592	4	590	32662
2727.1	2996	380925	1.30	590	596	0	590	33590

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AQ-TW AT DISTANCE= 28514AM-AS  
PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	39	1507	1.00	25	26	111	137	273
2716.5	52	2587	1.00	26	28	111	137	413
2717.0	65	3660	1.00	27	29	111	138	571
2717.5	79	4787	1.00	29	32	109	138	735
2718.0	94	6087	1.00	32	34	107	138	921
2718.5	110	7624	1.00	35	38	104	139	1121
2719.0	129	9572	1.02	40	43	99	139	1303
2719.5	150	11742	1.06	45	49	94	139	1511
2720.0	174	14159	1.10	49	53	90	139	1769
2720.5	199	16844	1.13	53	57	87	140	2060
2721.0	227	19773	1.15	57	62	83	141	2386
2721.5	257	22970	1.15	62	67	79	142	2755
2722.0	289	26728	1.13	67	72	76	143	3204
2722.5	324	30752	1.13	71	76	73	144	3687
2723.0	361	35107	1.12	76	81	70	146	4209
2723.5	404	39929	1.14	107	112	67	174	4172
2724.0	458	46284	1.17	111	116	64	174	4885
2724.5	515	53445	1.18	114	120	61	175	5692
2725.0	573	60991	1.20	121	127	55	176	6435
2725.5	635	69267	1.20	127	134	49	176	7336
2726.0	701	77975	1.22	136	143	40	177	8162
2726.5	773	87165	1.25	150	156	28	178	8926
2727.0	850	98590	1.24	161	168	22	184	9961
2727.5	935	111080	1.24	180	187	17	197	10861
2728.0	1031	124683	1.25	205	212	12	217	11721
2728.5	1140	139591	1.28	231	238	6	238	12706



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CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AQ-TW AT DISTANCE= 28514

AM-AS  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2729.0	1263	155916	1.31	260	267	1	261	13780
2729.1	1289	159359	1.32	267	274	0	267	13993

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=BRIDG AT DISTANCE= 28514

AM-AS  
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2717.0	79	3708	1.00	34	40	11	45	680
2717.5	96	5022	1.00	35	41	10	45	902
2718.0	114	6493	1.00	36	43	9	45	1147
2718.5	132	8114	1.00	37	44	8	45	1414
2719.0	150	9849	1.00	38	46	7	45	1696
2719.5	170	11725	1.00	39	48	6	45	1995
2720.0	190	13415	1.00	43	52	2	45	2270
2720.5	213	15584	1.00	45	55	0	45	2620
2721.0	236	17873	1.00	47	58	0	47	2991
2721.5	259	20705	1.00	47	59	0	47	3450
2722.0	283	23662	1.00	47	60	0	47	3929
2722.4	298	17498	1.00	0	107	0	47	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AR AT DISTANCE= 28602

AM-AS  
PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	30	981	1.00	23	24	95	118	189
2716.5	41	1589	1.00	24	25	95	119	308
2717.0	54	2305	1.00	25	27	94	119	446
2717.5	67	3082	1.00	28	30	92	119	587
2718.0	81	3969	1.00	31	34	89	121	744
2718.5	98	5031	1.00	35	37	87	122	930
2719.0	116	6283	1.00	39	41	85	123	1145
2719.5	136	7738	1.00	42	45	82	124	1391
2720.0	158	9406	1.00	46	49	80	126	1670
2720.5	183	11656	1.01	57	60	72	129	1853
2721.0	216	14436	1.07	72	76	61	133	2047
2721.5	255	17746	1.11	81	85	56	137	2426
2722.0	297	21656	1.12	86	99	55	141	2952
2722.5	341	26275	1.11	90	94	54	144	3567
2723.0	387	31574	1.09	95	99	53	148	4253
2723.5	435	37388	1.08	98	102	52	150	5020
2724.0	485	43773	1.06	101	105	52	153	5844



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500  
 SECID=AP AT DISTANCE= 28602

AM-AS  
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2724.5	537	50653	1.06	104	109	51	155	6715
2725.0	590	58088	1.05	108	112	50	158	7639
2725.5	644	66070	1.05	111	116	49	160	8614
2726.0	701	74435	1.05	115	120	48	164	9582
2726.5	761	82823	1.06	124	129	47	172	10383
2727.0	829	92060	1.07	133	138	47	179	11277
2727.5	893	102143	1.08	142	147	46	187	12265
2728.0	967	111883	1.09	153	159	6	195	13204
2728.5	1049	119780	1.12	175	181	4	202	13771
2729.0	1147	129920	1.16	203	209	3	206	14349
2729.5	1250	145951	1.14	209	215	1	211	16233
2730.0	1356	163128	1.12	215	221	0	215	18225
2730.1	1378	166752	1.12	216	222	0	216	19652

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.50.100.500  
 SECID=AS-TW AT DISTANCE= 28785

AM-AS  
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	13	310	1.00	14	15	59	74	67
2716.5	20	629	1.00	17	17	58	75	128
2717.0	29	1102	1.00	18	19	57	75	209
2717.5	39	1715	1.00	20	21	56	76	306
2718.0	49	2424	1.00	22	23	54	76	421
2718.5	61	3240	1.00	24	25	53	77	553
2719.0	73	4179	1.00	25	27	52	77	703
2719.5	86	5296	1.00	26	29	51	78	880
2720.0	100	6594	1.02	34	37	51	85	974
2720.5	120	8159	1.08	45	48	50	96	1069
2721.0	146	10064	1.15	57	60	49	107	1235
2721.5	177	12390	1.20	69	72	49	118	1474
2722.0	214	15326	1.21	75	78	48	123	1865
2722.5	252	18823	1.18	77	81	48	125	2376
2723.0	291	22777	1.14	80	84	47	127	2949
2723.5	332	27174	1.11	82	87	46	129	3578
2724.0	374	31997	1.09	85	89	46	131	4257
2724.5	417	37236	1.07	87	92	45	132	4984
2725.0	461	42903	1.06	90	95	44	134	5759
2725.5	507	48996	1.04	93	98	44	136	6579
2726.0	553	55517	1.03	95	101	43	138	7446
2726.5	602	62467	1.03	98	103	42	140	8357
2727.0	652	70155	1.03	103	109	39	142	9169
2727.5	705	78555	1.03	111	117	33	144	9938
2728.0	763	86788	1.04	121	127	27	148	10660



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CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500  
SECID=AS-TW AT DISTANCE= 28785

AM-AS  
PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2728.5	826	95551	1.06	133	139	19	152	11346
2729.0	896	105177	1.07	146	152	11	157	12156
2729.5	972	115863	1.09	157	164	4	161	13155
2730.0	1053	127614	1.09	164	170	2	166	14519
2730.5	1136	140387	1.09	170	176	1	170	15984
2730.7	1170	145772	1.09	172	178	0	172	16599



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

AM-AS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AN : MIN QTC > QT (3)

AO : KU/KD < 0.7 OR > 1.4

AP : KU/KD < 0.7 OR > 1.4

AQ-TW: KU/KD < 0.7 OR > 1.4

AR : KU/KD < 0.7 OR > 1.4

AR : WSU > BELMX (1)

ASSUMED WSU = HIN

ALERTED USER

ALERTED USER

ALERTED USER

ALERTED USER

CHECKED QBO (2)



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 AM-AS  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AM   AT   25875 /   0 /  2280. /  440. /  28271. / 1.59 / 116. / 299.
      2707.97 / 0.66 /           / 2708.63 /  5.18 /  0.55/   *IS*
-----
AM+.5 AT 25988 / 113 /  2280. /  495. /  32788. / 1.53 / 113. / 305.
      2708.76 / 0.51 /  0.63 /  0.0 /  2709.27 /  4.61 /  0.48 / -0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 25988 /   / 1176. /  214. /  10592. / 1.00 /  0. /  40.
      2708.50 / 0.47 /   ...3... (-.001) /  5.49 /  0.41 /   *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT   0. / RIGHT 1250. /   *RG*
-----
AN   AT   26048 /   60 /  2280. /  514. /  41425. / 1.07 /  82. / 289.
      2709.17 / 0.33 /  0.23 /  0.0 /  2709.49 /  4.43 /  0.52 / -0.003 *AS*
-----
M = **** / E = **** / K* = **** /  514. /  41425. / 1.07 /  82. / 289.
      2709.17 / 0.33 /           / 2709.49 /  4.43 /  0.52 /   *AS*
===== END BRIDGE ANALYSIS =====
AO   AT   26760 /  712 /  2280. /  306. /  23161. / 1.08 / 105. / 204.
      2712.72 / 0.93 /  3.86 /  0.30 /  2713.66 /  7.45 /  0.65 /  0.002 *XS*
-----
AP   AT   27865 / 1105 /  2280. /  551. /  47529. / 1.18 / 416. / 553.
      2718.57 / 0.31 /  5.22 /  0.0 /  2718.88 /  4.14 /  0.37 /  0.005 *XS*
-----
AQ-TW AT 28514 /  649 /  2280. /  242. /  21334. / 1.15 /  81. / 141.
      2721.25 / 1.60 /  3.33 /  0.64 /  2722.85 /  9.43 /  0.77 /  0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 28514 /   /  2283. /  282. /  16845. / 1.00 /  0. /  47.
      2722.40 / 1.02 /   ...2... (0.021) /  8.11 /  0.57 /   *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT   0. / RIGHT   0. /   *RG*
-----
AR   AT   28602 /   88 /  2280. /  381. /  30880. / 1.09 /  53. / 148.
      2722.94 / 0.61 /  0.69 /  0.0 /  2723.54 /  5.98 /  0.46 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** /  457. /  40101. / 1.07 /  52. / 151.
      2723.72 / 0.41 /           / 2724.13 /  4.99 /  0.36 /   *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 /  183 /  2280. /  401. /  35350. / 1.08 /  45. / 132.
      2724.32 / 0.54 /  0.67 /  0.06 /  2724.87 /  5.68 /  0.43 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

AM-AS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

A0	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AQ-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50,100,500 AM-AS  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
AM	25875	0	3870.	680.	51546.	1.30	105.	322.
	2709.17	0.66		2709.83	5.69	0.53		*IS*
AM+.5	25988	113	3870.	717.	55906.	1.27	103.	325.
	2709.84	0.57	0.59	0.0	2710.41	5.40	0.49	-0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====								
BRIDGE	25988		1227.	214.	10592.	1.00	0.	40.
	2708.50	0.51	...3...	(-.001)	5.73	0.43		*R0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 80. / RIGHT 2556. / *RG* =====								
AN	26048	50	3870.	739.	71933.	1.05	73.	304.
	2710.19	0.45	0.22	0.0	2710.63	5.23	0.56	-0.001 *AS*
M = **** / E = **** / K* = **** / 739. / 71933. / 1.05 / 73. / 304. / 2710.19 / 0.45 / / 2710.63 / 5.23 / 0.56 / *AS*								
===== END BRIDGE ANALYSIS =====								
A0	26760	712	3870.	428.	36311.	1.02	90.	208.
	2713.85	1.30	4.08	0.42	2715.14	9.03	0.71	0.003 *XS*
AP	27865	1105	3870.	805.	81851.	1.14	398.	555.
	2720.30	0.41	5.57	0.0	2720.71	4.80	0.38	0.003 *XS*
AP-TW	28514	649	3870.	355.	34393.	1.13	70.	145.
	2722.92	2.08	3.45	0.84	2725.00	10.91	0.84	0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====								
BRIDGE	28514		3329.	282.	16845.	1.00	0.	47.
	2722.40	2.17	...3...	(0.021)	11.82	0.84		*R0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 137. / RIGHT 383. / *RG* =====								
AR	28602	86	3870.	586.	57412.	1.05	50.	157.
	2724.96	0.72	0.67	0.0	2725.67	6.62	0.44	-0.000 *AS*
M = **** / E = **** / K* = **** / 676. / 70807. / 1.04 / 49. / 161. / 2725.78 / 0.53 / / 2726.31 / 5.73 / 0.36 / *AS*								
===== END BRIDGE ANALYSIS =====								
AS-TW	28785	183	3870.	586.	60215.	1.03	42.	139.
	2726.34	0.70	0.64	0.08	2727.04	6.60	0.44	-0.000 *XS*

OK

END OF THIS PROFILE



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PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

AM-AS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AN	; MAX QBO < QT (3)	:	
AD	; KU/KD < 0.7 OR > 1.4	:	CHECKED QRD
AP	; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AG-TW	; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
		:	ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,560 AM-AS  
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AM AT 25875 / 0 / 4640. / 795. / 65061. / 1.22 / 100. / 331.
2709.68 / 0.64 / / 2710.32 / 5.84 / 0.51 / *IS*
-----
AM+.5 AT 25988 / 113 / 4640. / 815. / 67466. / 1.21 / 99. / 333.
2710.27 / 0.61 / 0.55 / 0.0 / 2710.88 / 5.69 / 0.49 / -0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 25988 / / 1251. / 214. / 10592. / 1.00 / 0. / 40.
2708.50 / 0.53 / ...3... (-.001) / 5.84 / 0.44 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 229. / RIGHT 3215. / *RG*
-----
AN AT 26048 / 60 / 4640. / 834. / 86468. / 1.05 / 69. / 307.
2710.59 / 0.51 / 0.22 / 0.0 / 2711.10 / 5.56 / 0.57 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 834. / 86468. / 1.05 / 69. / 307.
2710.59 / 0.51 / / 2711.10 / 5.56 / 0.57 / *AS*
===== END BRIDGE ANALYSIS =====
AD AT 26760 / 712 / 4640. / 434. / 42444. / 1.01 / 84. / 211.
2714.30 / 1.45 / 4.18 / 0.47 / 2715.75 / 9.59 / 0.74 / 0.001 *XS*
-----
AP AT 27865 / 1105 / 4640. / 919. / 98143. / 1.15 / 388. / 556.
2721.00 / 0.45 / 5.71 / 0.0 / 2721.46 / 5.05 / 0.38 / 0.002 *XS*
-----
AQ-TW AT 28514 / 649 / 4640. / 413. / 40929. / 1.15 / 66. / 174.
2723.58 / 2.26 / 3.48 / 0.90 / 2725.84 / 11.24 / 0.85 / 0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
SRIDG AT 28514 / / 3465. / 282. / 16845. / 1.00 / 0. / 47.
2722.40 / 2.36 / ...3... (0.021) / 12.31 / 0.87 / *B0*
-----
EMBANKMENT OVERFLG (CFS) / LEFT 377. / RIGHT 867. / *RG*
-----
AR AT 28602 / 88 / 4640. / 669. / 69784. / 1.04 / 49. / 161.
2725.72 / 0.78 / 0.66 / 0.0 / 2726.50 / 6.93 / 0.44 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 783. / 86010. / 1.06 / 47. / 174.
2726.68 / 0.58 / / 2727.26 / 5.93 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 4640. / 674. / 73639. / 1.03 / 36. / 143.
2727.21 / 0.76 / 0.62 / 0.09 / 2727.97 / 6.89 / 0.44 / 0.000 *XS*
=====
    
```

OK

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500  
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

AM-AS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AN	: MAX QBO < QT (3)	:	CHECKED QRD
AN	: MIN QTC > QT (3)	:	ASSUMED WSU = HIN
AD	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AQ-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: MAX QBO < QT (3)	:	CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50.100(500) AM-AS  
 PAGE 1 OF 1. PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AM AT 25875 / 0 / 6700. / 1115. / 105430. / 1.12 / 81. / 352.
2710.95 / 0.63 / / 2711.58 / 6.01 / 0.46/ *IS*
=====
AM+.5 AT 25988 / 113 / 6700. / 1103. / 103738. / 1.12 / 82. / 352.
2711.41 / 0.65 / 0.46 / 0.01 / 2712.05 / 6.08 / 0.47 / -0.000 *XS*
=====
BRIDG AT 25988 / / 1266. / 214. / 10592. / 1.00 / 0. / 40.
2708.50 / 0.54 / ...3... (-.001) / / 5.91 / 0.44 / *B0*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 918. / RIGHT 5109. / *RG*
=====
AN AT 26048 / 60 / 6700. / 1091. / 129645. / 1.06 / 58. / 314.
2711.63 / 0.62 / 0.20 / 0.0 / 2712.25 / 6.14 / 0.57 / 0.002 *AS*
=====
M = **** / E = **** / K* = **** / 1091. / 129645. / 1.06 / 58. / 314.
2711.63 / 0.62 / / 2712.25 / 6.14 / 0.57 / *AS*
=====
END BRIDGE ANALYSIS =====
AO AT 26760 / 712 / 6700. / 612. / 58273. / 1.00 / 71. / 214.
2715.25 / 1.87 / 4.23 / 0.62 / 2717.12 / 10.95 / 0.79 / 0.007 *XS*
=====
AP AT 27865 / 1105 / 6700. / 1202. / 141673. / 1.14 / 364. / 557.
2722.57 / 0.55 / 6.01 / 0.0 / 2723.13 / 5.57 / 0.34 / 0.001 *XS*
=====
AQ-TW AT 28514 / 649 / 6700. / 569. / 60436. / 1.19 / 56. / 176.
2724.96 / 2.58 / 3.40 / 1.01 / 2727.54 / 11.78 / 0.86 / 0.000 *XS*
=====
BRIDG AT 28514 / / 3580. / 282. / 16845. / 1.00 / 0. / 47.
2722.40 / 2.51 / ...3... (0.021) / / 12.72 / 0.90 / *B0*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 1092. / RIGHT 2159. / *RG*
=====
AR AT 28602 / 88 / 6700. / 850. / 95736. / 1.07 / 46. / 182.
2727.19 / 1.04 / 0.68 / 0.0 / 2728.22 / 7.88 / 0.47 / -0.000 *AS*
=====
M = **** / E = **** / K* = **** / 981. / 113066. / 1.09 / 5. / 197.
2728.10 / 0.79 / / 2728.89 / 6.83 / 0.41 / *AS*
=====
END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 6700. / 855. / 99558. / 1.06 / 15. / 154.
2728.71 / 1.02 / 0.73 / 0.11 / 2729.73 / 7.83 / 0.48 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE







\*\*\* INPUT CARD PRINTOUT \*\*\*

	1	2	3	4	5	6	7	8
5	5307	450	3 27152	451	3 27142	456	3 27138	457 3 27119
5	5308	471	3 27118	483	3 27109	486	4 27128	550 4 27162
5	5309	557	4 27236	590	4 27270			556 4 27211
6	5315	1 2 035	035 1	2 050	040 1	2 055	045 1	2 055 050
3	5400	AQ-TW 0	22 4 2716	28514	99 99			
5	5405	0	1 27291	30	1 27263	44	1 27259	60 1 27246
5	5406	94	1 27195	105	2 27184	111	2 27169	112 2 27149
5	5407	125	2 27141	131	2 27142	135	2 27148	137 2 27162
5	5408	147	3 27235	167	3 27233	173	3 27230	178 4 27268
5	5409	250	4 27288	267	4 27291			200 4 27276
6	5415	1 2 065	045 1	2 055	045 1	2 035	035 1	2 050 050
3	5500	BRIDG 2	20 1 2717	28514		15 27223	2 0	
5	5505	0	1 27224	0	1 27202	5	1 27197	8 1 27186
5	5506	15	1 27152	18	1 27151	20	1 27152	20 1 27164
5	5507	27	1 27153	31	1 27144	37	1 27134	44 1 27126
5	5508	45	1 27207	47	1 27208	47	1 27221	23 1 27224
6	5515	1 2 050	050					0 -9 27224
3	5520	PIER 3	2			3		
5	5525	1	27164	1	27224			
3	5550	ROAD 4	9 3 28	1	3	1 1 1	2	
5	5555	0	1 27288	27	1 27274	50	1 27260	92 2 27242
5	5556	150	3 27242	200	3 27252	250	3 27273	296 3 27296
3	5600	AR 5	20 3 2716	28602	1 3			
5	5605	0	1 27300	6	1 27279	27	1 27287	44 1 27285
5	5606	56	1 27212	79	2 27202	94	2 27170	96 2 27152
5	5607	107	2 27146	114	2 27148	118	2 27153	119 2 27174
5	5608	137	3 27215	148	3 27230	162	3 27259	200 3 27283
6	5615	1 2 050	040 1	2 050	055 1	2 045	040	
3	5700	AS-TW 0	16 3 2716	28785	99 99			
5	5705	0	1 27307	4	1 27294	27	1 27280	42 2 27267
5	5706	52	2 27190	58	2 27166	59	2 27161	62 2 27150
5	5707	71	2 27151	75	2 27165	78	3 27197	122 3 27217
5	5708	172	3 27307					144 3 27276
6	5715	1 2 035	035 1	2 055	050 1	2 045	045	



PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 4,DATE= 1/21/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 13 TYPE 3 CARDS

KEPT 13 CROSS SECTIONS FOR EDITING

13 " " VALID FOR PROPERTY COMPUTATIONS

13 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AM AT DISTANCE= 25875 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2703.0	38	1174	1.00	31	31	191	222	237
2703.5	53	2091	1.00	33	34	190	222	388
2704.0	70	3274	1.00	35	36	188	223	568
2704.5	89	4671	1.03	43	45	180	224	721
2705.0	114	6362	1.10	53	55	171	224	898
2705.5	143	8382	1.17	63	65	161	225	1121
2706.0	178	10856	1.26	81	83	152	233	1336
2706.5	225	13873	1.39	107	109	138	245	1564
2707.0	286	17674	1.52	136	139	125	262	1899
2707.5	360	22592	1.58	160	162	120	281	2432
2708.0	446	28694	1.59	184	186	116	300	3123
2708.5	542	37018	1.47	198	200	111	309	4187
2709.0	644	47445	1.35	212	214	106	319	5490
2709.5	754	60227	1.24	226	228	102	328	7012
2710.0	870	73860	1.19	242	244	95	337	8592
2710.5	995	89265	1.15	258	261	88	346	10319
2711.0	1128	107380	1.12	272	275	80	353	12320
2711.5	1267	127416	1.09	284	287	73	357	14505
2712.0	1413	148234	1.09	297	299	65	362	16779
2712.5	1564	170864	1.08	309	311	58	367	19205
2713.0	1721	195197	1.08	321	324	50	371	21763
2713.5	1886	220995	1.08	336	338	40	376	24393
2714.0	2056	250117	1.08	346	349	33	379	27384
2714.5	2231	281718	1.07	355	357	27	382	30630
2715.0	2411	315214	1.07	363	366	22	385	34627
2715.5	2595	350614	1.07	372	374	16	388	37576
2716.0	2782	387928	1.07	380	383	11	391	41278
2716.5	2975	427168	1.07	389	392	5	394	45135
2717.0	3171	469185	1.07	396	399	0	396	49202

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AM+15 AT DISTANCE= 25988 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2704.0	33	2091	1.00	33	34	190	222	388
2704.5	70	3274	1.00	35	36	188	223	568
2705.0	89	4671	1.03	43	45	180	224	721
2705.5	114	6362	1.10	53	55	171	224	898
2706.0	143	8382	1.17	63	65	161	225	1121
2706.5	178	10856	1.26	81	83	152	233	1336
2707.0	225	13873	1.39	107	109	138	245	1564
2707.5	286	17674	1.52	136	139	125	262	1899
2708.0	360	22592	1.58	160	162	120	281	2432



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-AS  
 SECID=AM\*.5 AT DISTANCE= 25988 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2708.5	446	28694	1.59	184	186	116	300	3123
2709.0	542	37018	1.47	198	200	111	309	4187
2709.5	644	47445	1.35	212	214	106	319	5490
2710.0	754	60227	1.24	226	228	102	328	7012
2710.5	870	73860	1.19	242	244	95	337	8592
2711.0	995	89265	1.15	258	261	88	346	10319
2711.5	1128	107383	1.12	272	275	80	353	12320
2712.0	1267	127416	1.09	284	287	73	357	14505
2712.5	1413	148234	1.09	297	299	65	362	16779
2713.0	1564	170864	1.08	309	311	58	367	19205
2713.5	1721	195197	1.08	321	324	50	371	21763
2714.0	1886	220995	1.08	336	338	40	376	24393
2714.5	2056	250177	1.08	346	349	33	379	27384
2715.0	2237	281718	1.07	355	357	27	382	30630
2715.5	2411	315214	1.07	363	366	22	385	34027
2716.0	2595	350614	1.07	372	374	16	388	37576
2716.5	2782	387928	1.07	380	383	11	391	41278
2717.0	2975	427168	1.07	389	392	5	394	45135
2717.5	3171	469185	1.07	396	399	0	396	49202

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-AS  
 SECID=COMP AT DISTANCE= 25994 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2705.7	91	4989	1.00	40	43	200	240	778
2705.5	111	6842	1.00	40	44	200	240	1049
2706.0	131	8882	1.00	40	45	200	240	1344
2706.5	155	11130	1.04	68	73	200	309	1303
2707.0	200	13979	1.22	110	117	200	345	1381
2707.5	263	17934	1.35	133	141	200	368	1805
2708.0	331	23250	1.32	142	153	200	377	2498
2708.5	405	30683	1.18	152	164	200	387	3447
2709.0	481	41540	1.04	157	171	200	387	4681
2709.5	566	50521	1.04	182	197	200	387	5561
2710.0	669	61052	1.05	239	255	175	414	6198
2710.5	804	77406	1.07	283	299	135	418	7409
2711.0	951	96297	1.10	306	322	115	421	9049
2711.5	1110	117810	1.13	327	343	98	425	10900
2712.0	1277	142513	1.14	340	356	88	429	13135
2712.5	1450	170412	1.14	354	370	79	432	15622
2713.0	1630	200920	1.14	367	383	69	436	18287
2713.5	1817	233599	1.14	380	396	60	440	21088
2714.0	2010	268914	1.15	393	410	50	443	24076



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=COMP AT DISTANCE= 25994 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2714.5	2210	307295	1.15	404	420	43	447	27387
2715.0	2413	349300	1.15	412	429	37	449	30912
2715.5	2622	393928	1.15	421	437	30	451	34611
2716.0	2834	441167	1.15	429	446	24	453	38483
2716.5	3051	491010	1.15	438	455	17	455	42527
2717.0	3272	543454	1.16	447	463	11	457	46743
2717.5	3498	598499	1.16	455	472	4	459	51131
2718.0	3727	657186	1.15	461	478	0	461	55928
2718.2	3820	681991	1.15	462	479	0	462	58037

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AN-.5 AT DISTANCE= 26005 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2705.0	53	2445	1.00	30	31	96	126	405
2705.5	70	3412	1.00	37	38	94	130	547
2706.0	90	4793	1.00	43	44	91	134	739
2706.5	135	6964	1.29	147	148	90	250	646
2707.0	212	10809	1.41	164	165	89	259	1155
2707.5	290	16226	1.33	181	183	88	269	1891
2708.0	392	24915	1.15	191	193	87	278	2969
2708.5	490	37378	1.04	203	205	84	287	4231
2709.0	595	51503	1.03	217	219	79	296	5512
2709.5	707	66789	1.03	228	230	74	302	6950
2710.0	823	84341	1.04	236	238	69	305	8544
2710.5	943	103838	1.05	245	247	65	309	10264
2711.0	1067	125294	1.05	253	256	60	313	12113
2711.5	1196	148743	1.06	262	264	55	317	14097
2712.0	1329	173990	1.07	270	273	50	320	16193
2712.5	1467	201069	1.07	280	282	44	324	18384
2713.0	1609	230074	1.08	289	291	39	328	20702
2713.5	1756	261021	1.09	298	301	33	331	23148
2714.0	1907	293927	1.10	307	310	28	335	25724
2714.5	2063	329946	1.11	315	318	22	337	28478
2715.0	2222	368224	1.11	321	324	18	339	31467
2715.5	2384	408452	1.12	327	330	14	341	34577
2716.0	2549	450625	1.12	332	335	11	343	37809
2716.5	2716	494739	1.12	338	341	7	345	41163
2717.0	2887	540791	1.13	344	347	3	347	44637
2717.5	3060	588998	1.13	349	353	0	349	48306
2717.7	3130	609156	1.13	356	354	0	350	49923



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AN AT DISTANCE= 26048 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2705.0	40	1601	1.00	25	26	99	124	284
2705.5	53	2444	1.00	30	31	96	126	405
2706.0	70	3416	1.00	37	38	94	130	547
2706.5	90	4977	1.01	43	44	91	134	736
2707.0	131	7242	1.28	130	132	90	233	661
2707.5	206	11050	1.50	161	162	89	256	1081
2708.0	291	16413	1.47	178	180	88	266	1736
2708.5	383	24661	1.26	189	191	87	276	2754
2709.0	480	36476	1.10	202	204	84	286	4007
2709.5	585	50668	1.06	217	219	79	296	5304
2710.0	697	65706	1.05	228	230	74	302	6738
2710.5	813	83059	1.05	236	238	69	306	8334
2711.0	933	102381	1.06	245	247	65	309	10055
2711.5	1058	123683	1.06	253	256	60	313	11906
2712.0	1186	146930	1.06	262	264	55	317	13884
2712.5	1319	171997	1.07	270	273	50	320	15976
2713.0	1457	198912	1.08	280	282	44	324	18164
2713.5	1599	227761	1.09	289	291	39	328	20478
2714.0	1746	258556	1.09	298	301	33	331	22921
2714.5	1897	291316	1.10	307	310	28	335	25493
2715.0	2053	327178	1.11	315	318	22	337	28245
2715.5	2212	365312	1.11	321	324	18	339	31230
2716.0	2374	405401	1.12	327	330	14	341	34337
2716.5	2539	447436	1.12	332	335	11	343	37566
2717.0	2706	491414	1.13	338	341	7	345	40916
2717.5	2877	537333	1.13	344	347	3	347	44388
2718.0	3050	585414	1.13	349	352	0	349	48052
2718.2	3120	605530	1.13	350	354	0	350	49669

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AO AT DISTANCE= 26760 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2707.0	29	921	1.00	22	23	168	190	184
2707.5	40	1604	1.00	24	25	168	191	296
2708.0	52	2460	1.00	25	26	167	192	429
2708.5	65	3404	1.00	26	28	166	193	581
2709.0	79	4484	1.00	28	30	166	194	752
2709.5	93	5683	1.00	29	32	165	194	939
2710.0	109	7076	1.02	38	41	157	196	1037
2710.5	132	8765	1.08	53	55	144	197	1136
2711.0	162	10870	1.16	68	71	130	198	1314
2711.5	199	13558	1.19	78	81	122	199	1649



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=A0 AT DISTANCE= 26760 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2712.0	240	16910	1.17	86	89	115	201	2101
2712.5	285	21017	1.11	95	98	108	203	2657
2713.0	334	26185	1.05	104	107	101	205	3318
2713.5	388	31948	1.03	112	116	95	207	4035
2714.0	447	38348	1.02	121	124	88	209	4822
2714.5	510	45356	1.01	131	134	81	212	5685
2715.0	577	53690	1.00	139	143	74	214	6656
2715.5	649	62853	1.00	148	151	68	215	7708
2716.0	725	72487	1.00	158	161	61	219	8821
2716.5	807	83197	1.00	168	171	54	222	10030
2717.0	893	95024	1.00	178	181	47	225	11340
2717.5	984	109042	1.00	185	189	41	226	12844
2718.0	1078	124173	1.00	193	197	34	226	14449
2718.5	1176	140444	1.00	200	204	27	227	16156
2719.0	1279	155452	1.01	212	216	20	232	17748
2719.5	1388	171948	1.02	224	228	14	238	19455
2720.0	1503	189953	1.02	236	240	7	243	21282
2720.5	1624	210058	1.03	247	252	0	247	23311

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AP AT DISTANCE= 27865 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2712.0	9	149	1.00	19	20	457	485	36
2712.5	23	508	1.00	29	30	457	486	113
2713.0	38	1200	1.01	33	35	456	490	225
2713.5	57	2346	1.10	43	45	456	499	352
2714.0	81	3754	1.17	55	57	453	509	512
2714.5	112	5504	1.22	67	69	451	518	740
2715.0	148	7899	1.25	77	79	450	527	1037
2715.5	189	10912	1.27	90	92	447	537	1382
2716.0	238	14632	1.30	104	107	442	546	1791
2716.5	293	19466	1.26	113	116	437	550	2376
2717.0	351	25044	1.24	119	122	432	551	3073
2717.5	412	31364	1.22	125	127	427	552	3847
2718.0	476	38477	1.20	130	133	422	552	4704
2718.5	542	46424	1.18	136	139	417	553	5646
2719.0	611	55274	1.17	141	145	412	553	6680
2719.5	684	64895	1.15	147	151	407	554	7787
2720.0	759	75227	1.15	152	157	402	555	8960
2720.5	837	86228	1.14	160	164	395	555	10149
2721.0	918	98023	1.15	168	172	388	556	11382
2721.5	1004	110843	1.15	176	180	380	556	12723



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-AS  
 SECID=AP AT DISTANCE= 27865 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2722.0	1094	124643	1.14	184	189	373	556	14160
2722.5	1188	139430	1.14	191	197	365	557	15693
2723.0	1286	155230	1.14	199	205	358	557	17323
2723.5	1387	172073	1.14	207	213	350	557	19054
2724.0	1526	190014	1.17	341	347	220	561	16902
2724.5	1709	210952	1.22	387	393	179	563	18405
2725.0	1913	235412	1.26	427	433	144	571	20463
2725.5	2135	263479	1.28	463	469	112	575	22981
2726.0	2377	294183	1.30	516	523	64	580	25325
2726.5	2650	330201	1.31	561	567	24	585	28488
2727.0	2937	371565	1.30	586	592	4	590	32662
2727.1	2996	380925	1.30	590	596	0	590	33590

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-AS  
 SECID=AQ-TW AT DISTANCE= 28514 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	39	1507	1.00	25	26	111	137	273
2716.5	52	2587	1.00	26	28	111	137	413
2717.0	65	3660	1.00	27	29	111	138	571
2717.5	79	4787	1.00	29	32	109	138	735
2718.0	94	6087	1.00	32	34	107	138	921
2718.5	110	7624	1.00	35	38	104	139	1121
2719.0	129	9572	1.02	40	43	99	139	1303
2719.5	150	11742	1.06	45	49	94	139	1511
2720.0	174	14159	1.10	49	53	90	139	1769
2720.5	199	16844	1.13	53	57	87	140	2060
2721.0	227	19773	1.15	57	62	83	141	2386
2721.5	257	22970	1.15	62	67	79	142	2755
2722.0	289	26728	1.13	67	72	76	143	3204
2722.5	324	30752	1.13	71	76	73	144	3687
2723.0	361	35107	1.12	76	81	70	146	4209
2723.5	404	39929	1.14	107	112	67	174	4172
2724.0	458	46284	1.17	111	116	64	174	4885
2724.5	515	53445	1.18	114	120	61	175	5692
2725.0	573	60991	1.20	121	127	55	176	6485
2725.5	635	69267	1.20	127	134	49	176	7336
2726.0	701	77975	1.22	136	143	40	177	8152
2726.5	773	87165	1.25	150	156	28	178	8926
2727.0	850	98590	1.24	161	168	22	184	9961
2727.5	935	111080	1.24	180	187	17	197	10861
2728.0	1031	124683	1.25	205	212	12	217	11721
2728.5	1140	139591	1.28	231	238	6	238	12706



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AQ-TW AT DISTANCE= 28514 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2729.0	1263	155916	1.31	260	267	1	261	13780
2729.1	1289	159359	1.32	267	274	0	267	13993

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=BRIDG AT DISTANCE= 28514 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2717.0	79	3708	1.00	34	40	11	45	680
2717.5	96	5022	1.00	35	41	10	45	902
2718.0	114	6493	1.00	36	43	9	45	1147
2718.5	132	8114	1.00	37	44	8	45	1414
2719.0	150	9849	1.00	38	46	7	45	1696
2719.5	170	11725	1.00	39	48	6	45	1999
2720.0	190	13415	1.00	43	52	2	45	2270
2720.5	213	15584	1.00	45	55	0	45	2620
2721.0	236	17873	1.00	47	58	0	47	2991
2721.5	259	20705	1.00	47	59	0	47	3450
2722.0	283	23662	1.00	47	60	0	47	3929
2722.4	298	17498	1.00	0	107	0	47	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AR AT DISTANCE= 28602 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	30	981	1.00	23	24	95	118	189
2716.5	41	1589	1.00	24	25	95	119	308
2717.0	54	2305	1.00	25	27	94	119	446
2717.5	67	3082	1.00	28	30	92	119	587
2718.0	81	3969	1.00	31	34	89	121	744
2718.5	98	5031	1.00	35	37	87	122	930
2719.0	116	6283	1.00	39	41	85	123	1145
2719.5	136	7738	1.00	42	45	82	124	1391
2720.0	158	9406	1.00	46	49	80	126	1670
2720.5	183	11656	1.01	57	60	72	129	1853
2721.0	216	14436	1.07	72	76	61	133	2047
2721.5	255	17746	1.11	81	85	56	137	2426
2722.0	297	21656	1.12	86	89	55	141	2952
2722.5	341	26275	1.11	90	94	54	144	3567
2723.0	387	31574	1.09	95	99	53	148	4253
2723.5	435	37388	1.02	98	102	52	150	5020
2724.0	485	43773	1.06	101	105	52	153	5844



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AR AT DISTANCE= 28602 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2724.5	537	50653	1.06	104	109	51	155	6715
2725.0	590	58088	1.05	108	112	50	155	7639
2725.5	644	66070	1.05	111	116	49	160	8614
2726.0	701	74435	1.05	115	120	48	164	9582
2726.5	761	82823	1.06	124	129	47	172	10383
2727.0	825	92060	1.07	133	138	47	179	11277
2727.5	893	102143	1.08	142	147	46	187	12265
2728.0	967	111883	1.09	153	159	6	195	13204
2728.5	1049	119780	1.12	175	181	4	202	13771
2729.0	1147	129920	1.16	203	209	3	206	14349
2729.5	1250	145951	1.14	209	215	1	211	16233
2730.0	1356	163128	1.12	215	221	0	215	18225
2730.1	1378	166752	1.12	216	222	0	216	18652

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AS-TW AT DISTANCE= 28785 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	13	310	1.00	14	15	59	74	67
2716.5	20	629	1.00	17	17	58	75	128
2717.0	29	1102	1.00	18	19	57	75	209
2717.5	39	1715	1.00	20	21	56	76	306
2718.0	49	2424	1.00	22	23	54	76	421
2718.5	61	3240	1.00	24	25	53	77	553
2719.0	73	4179	1.00	25	27	52	77	703
2719.5	86	5296	1.00	26	29	51	78	880
2720.0	100	6594	1.02	34	37	51	85	974
2720.5	120	8159	1.08	45	48	50	96	1069
2721.0	146	10064	1.15	57	60	49	107	1235
2721.5	177	12390	1.20	69	72	49	118	1474
2722.0	214	15326	1.21	75	78	48	123	1865
2722.5	252	18823	1.18	77	81	48	125	2376
2723.0	291	22777	1.14	80	84	47	127	2949
2723.5	332	27174	1.11	82	87	46	129	3578
2724.0	374	31997	1.09	85	89	46	131	4257
2724.5	417	37236	1.07	87	92	45	132	4984
2725.0	461	42903	1.06	90	95	44	134	5759
2725.5	507	48996	1.04	93	98	44	136	6579
2726.0	553	55517	1.03	95	101	43	138	7446
2726.5	602	62467	1.03	98	103	42	140	8357
2727.0	652	70155	1.03	103	109	39	142	9169
2727.5	705	78555	1.03	111	117	33	144	9938
2728.0	763	86788	1.04	121	127	27	148	10660



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 SECID=AS-TW AT DISTANCE= 28785 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2728.5	826	95551	1.06	133	139	19	152	11346
2729.0	896	105177	1.07	146	152	11	157	12156
2729.5	972	115803	1.09	157	164	4	161	13155
2730.0	1053	127614	1.09	164	170	2	166	14519
2730.5	1136	140387	1.09	170	176	1	170	15984
2730.7	1170	145772	1.09	172	178	0	172	16599



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AO	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AQ-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: WSU > BELMX (1)	:	CHECKED QBO (2)



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   MV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AM   AT 25875 /   0 / 2280. / 440. / 28271. / 1.59 / 116. / 299.
     2707.97 / 0.66 /           / 2708.63 / 5.18 / 0.55/      *IS*
-----
AM+.5 AT 25988 / 113 / 2280. / 495. / 32788. / 1.53 / 113. / 305.
     2708.76 / 0.51 / 0.63 / 0.0 / 2709.27 / 4.61 / 0.48 / -0.002 *XS*
-----
COMP AT 25994 /   6 / 2280. / 464. / 39601. / 1.05 / 200. / 387.
     2708.89 / 0.39 / 0.02 / 0.0 / 2709.28 / 4.91 / 0.39 / -0.008 *XS*
-----
AN-.5 AT 26005 / 11 / 2280. / 614. / 53950. / 1.03 / 78. / 298.
     2709.09 / 0.22 / 0.03 / 0.0 / 2709.31 / 3.71 / 0.43 / -0.001 *XS*
-----
AN   AT 26048 / 43 / 2280. / 507. / 40330. / 1.08 / 83. / 289.
     2709.13 / 0.34 / 0.10 / 0.06 / 2709.47 / 4.50 / 0.53 / -0.001 *XS*
-----
AO   AT 26760 / 712 / 2280. / 309. / 23492. / 1.08 / 105. / 204.
     2712.75 / 0.91 / 3.91 / 0.29 / 2713.67 / 7.37 / 0.64 / 0.003 *XS*
-----
AP   AT 27865 / 1105 / 2280. / 548. / 47111. / 1.18 / 417. / 553.
     2718.54 / 0.32 / 5.19 / 0.0 / 2718.86 / 4.16 / 0.37 / 0.003 *XS*
-----
AQ-TW AT 28514 / 649 / 2280. / 242. / 21361. / 1.15 / 81. / 141.
     2721.26 / 1.59 / 3.35 / 0.64 / 2722.85 / 9.42 / 0.77 / 0.006 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 28514 /   / 2283. / 282. / 16845. / 1.00 / 0. / 47.
     2722.40 / 1.02 /   ...2... (0.021) / 8.11 / 0.57 /      *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. /      *RG*
-----
AR   AT 28602 / 88 / 2280. / 381. / 30880. / 1.09 / 53. / 148.
     2722.94 / 0.61 / 0.69 / 0.0 / 2723.54 / 5.98 / 0.46 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 457. / 40101. / 1.07 / 52. / 151.
     2723.72 / 0.41 /           / 2724.13 / 4.99 / 0.36 /      *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 2280. / 401. / 35350. / 1.08 / 45. / 132.
     2724.32 / 0.54 / 0.67 / 0.06 / 2724.87 / 5.68 / 0.43 / -0.000 *XS*
=====
    
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END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AO	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AP	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AQ-TW	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AR	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AR	; MAX QBO < QT (3)	;	CHECKED QRD



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AM AT 25875 / 0 / 6700. / 1115. / 105430. / 1.12 / 81. / 352.
2710.95 / 0.63 / / 2711.58 / 6.01 / 0.46 / *IS*
-----
AM+.5 AT 25988 / 113 / 6700. / 1103. / 103738. / 1.12 / 82. / 352.
2711.41 / 0.65 / 0.46 / 0.01 / 2712.05 / 6.08 / 0.47 / -0.000 *XS*
-----
COMP AT 25994 / 6 / 6700. / 1079. / 113501. / 1.13 / 100. / 424.
2711.41 / 0.68 / 0.02 / 0.02 / 2712.08 / 6.21 / 0.62 / -0.008 *XS*
-----
AN-.5 AT 26005 / 11 / 6700. / 1228. / 154597. / 1.06 / 54. / 318.
2711.62 / 0.49 / 0.03 / 0.0 / 2712.11 / 5.46 / 0.49 / -0.001 *XS*
-----
AN AT 26048 / 43 / 6700. / 1096. / 130584. / 1.06 / 58. / 314.
2711.65 / 0.62 / 0.10 / 0.06 / 2712.27 / 6.11 / 0.57 / -0.000 *XS*
-----
AO AT 26760 / 712 / 6700. / 611. / 58139. / 1.00 / 71. / 214.
2715.24 / 1.88 / 4.21 / 0.63 / 2717.11 / 10.96 / 0.79 / 0.006 *XS*
-----
AP AT 27865 / 1105 / 6700. / 1203. / 141869. / 1.14 / 364. / 557.
2722.58 / 0.55 / 6.01 / 0.0 / 2723.13 / 5.57 / 0.34 / 0.002 *XS*
-----
AQ-TW AT 28514 / 649 / 6700. / 569. / 60448. / 1.19 / 56. / 176.
2724.97 / 2.58 / 3.40 / 1.01 / 2727.54 / 11.77 / 0.86 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 28514 / / 3580. / 282. / 16845. / 1.00 / 0. / 47.
2722.40 / 2.51 / ...3... (0.021) / 12.71 / 0.90 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1092. / RIGHT 2159. / *RG*
-----
AR AT 28602 / 88 / 6700. / 850. / 95731. / 1.07 / 46. / 182.
2727.19 / 1.04 / 0.68 / 0.0 / 2728.22 / 7.88 / 0.47 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 981. / 113066. / 1.09 / 5. / 197.
2728.10 / 0.79 / / 2728.89 / 6.83 / 0.41 / *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 29785 / 183 / 6700. / 855. / 99558. / 1.06 / 15. / 154.
2728.71 / 1.02 / 0.73 / 0.11 / 2729.73 / 7.83 / 0.48 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE







PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 3. DATE= 1/28/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10.50.100.500 W/BRIDGE AS-AV

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE "



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 SECID=AS-TW AT DISTANCE= 28785 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2716.0	13	310	1.00	14	15	59	74	67
2716.5	20	629	1.00	17	17	58	75	128
2717.0	29	1102	1.00	18	19	57	75	209
2717.5	39	1715	1.00	20	21	56	76	306
2718.0	49	2424	1.00	22	23	54	76	421
2718.5	61	3240	1.00	24	25	53	77	553
2719.0	73	4179	1.00	25	27	52	77	703
2719.5	86	5296	1.00	26	29	51	78	880
2720.0	100	6594	1.02	34	37	51	85	974
2720.5	120	8159	1.08	45	48	50	96	1069
2721.0	146	10064	1.15	57	60	49	107	1235
2721.5	177	12390	1.20	69	72	49	118	1474
2722.0	214	15326	1.21	75	78	48	123	1865
2722.5	252	18823	1.18	77	81	48	125	2376
2723.0	291	22777	1.14	80	84	47	127	2949
2723.5	332	27174	1.11	82	87	46	129	3578
2724.0	374	31997	1.09	85	89	46	131	4257
2724.5	417	37236	1.07	87	92	45	132	4984
2725.0	461	42903	1.06	90	95	44	134	5759
2725.5	507	48996	1.04	93	98	44	136	6579
2726.0	553	55517	1.03	95	101	43	138	7446
2726.5	602	62467	1.03	98	103	42	140	8357
2727.0	652	70155	1.03	103	109	39	142	9169
2727.5	705	78555	1.03	111	117	33	144	9938
2728.0	763	86788	1.04	121	127	27	148	10660
2728.5	826	95551	1.06	133	139	19	152	11346
2729.0	896	105177	1.07	146	152	11	157	12156
2729.5	972	115803	1.09	157	164	4	161	13155
2730.0	1053	127614	1.09	164	170	2	165	14519
2730.5	1136	140387	1.09	170	176	1	170	15984
2730.7	1170	145772	1.09	172	178	0	172	16599

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 SECID=BRIDG AT DISTANCE= 28785 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2717.0	28	830	1.00	23	24	0	23	175
2717.5	40	1437	1.00	24	26	0	24	292
2718.0	52	2159	1.00	24	27	0	24	428
2718.5	64	2982	1.00	24	28	0	24	582
2719.0	76	3897	1.00	25	29	0	25	753
2719.5	90	4384	1.00	32	37	0	32	850
2726.0	107	5333	1.00	38	43	0	38	1025



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 SECID=BRIDG AT DISTANCE= 28785 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2720.5	128	6208	1.00	47	53	0	47	1195
2721.0	151	8124	1.00	47	54	0	47	1540
2721.5	175	10209	1.00	47	55	0	47	1912
2722.0	198	12448	1.00	47	56	0	47	2310
2722.5	222	14827	1.00	47	57	0	47	2733
2723.0	245	17335	1.00	47	58	0	47	3178
2723.5	269	19963	1.00	47	59	0	47	3646
2724.0	292	22701	1.00	47	60	0	47	4134
2724.5	316	25541	1.00	47	61	0	47	4643
2725.0	339	28478	1.00	47	62	0	47	5171
2725.5	363	31504	1.00	47	63	0	47	5717
2726.0	386	34614	1.00	47	64	0	47	6281
2726.5	410	37802	1.00	47	65	0	47	6863
2727.0	424	29090	1.00	8	105	0	47	17673
2727.1	424	27748	1.00	0	113	0	47	0

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 SECID=AT AT DISTANCE= 28890 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2718.0	31	890	1.00	28	28	29	57	182
2718.5	45	1673	1.00	32	32	28	60	308
2719.0	62	2783	1.00	36	37	28	63	466
2719.5	81	4332	1.00	38	39	26	65	666
2720.0	101	5975	1.00	41	42	25	66	897
2720.5	122	7870	1.00	43	45	24	67	1159
2721.0	144	10022	1.00	46	48	23	69	1450
2721.5	170	12701	1.02	59	61	21	85	1615
2722.0	204	16016	1.09	76	78	20	97	1813
2722.5	243	19971	1.14	80	82	20	100	2256
2723.0	284	24537	1.15	83	86	19	102	2777
2723.5	326	29759	1.14	86	89	18	105	3367
2724.0	370	35620	1.13	89	92	18	107	4019
2724.5	416	41790	1.14	94	97	17	111	4655
2725.0	464	48547	1.14	99	102	16	115	5346
2725.5	515	55883	1.14	104	107	16	119	6088
2726.0	568	63831	1.15	108	112	15	123	6886
2726.5	623	72407	1.15	113	117	14	127	7741
2727.0	681	81334	1.16	119	124	14	164	8576
2727.5	743	89657	1.20	133	138	13	165	9105
2728.0	815	98212	1.26	155	160	12	167	9458
2728.5	893	111170	1.24	157	162	12	169	10860
2729.0	972	125009	1.22	159	165	11	170	12344



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/RIDGE AS-AV  
 SECID=AT AT DISTANCE= 28890 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2729.5	1053	139714	1.20	162	167	10	172	13907
2730.0	1135	154665	1.19	166	172	10	176	15403
2730.5	1219	170331	1.19	172	177	8	180	16922
2731.0	1307	186484	1.19	180	186	4	183	18323
2731.4	1380	200784	1.19	185	191	0	185	19632

CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/RIDGE AS-AV  
 SECID=AU AT DISTANCE= 29625 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2722.0	23	575	1.00	31	31	29	60	115
2722.5	39	1298	1.00	33	34	27	60	243
2723.0	56	2259	1.00	35	36	26	61	404
2723.5	75	3413	1.00	39	40	24	63	591
2724.0	95	4805	1.00	42	43	22	64	812
2724.5	117	6444	1.00	46	47	20	66	1066
2725.0	141	8289	1.00	50	51	19	68	1349
2725.5	167	10361	1.00	54	56	18	72	1664
2726.0	195	12736	1.00	59	60	16	75	2020
2726.5	225	15430	1.00	63	65	15	78	2419
2727.0	258	18460	1.00	67	69	14	82	2862
2727.5	293	21845	1.00	72	74	13	85	3353
2728.0	330	25433	1.00	77	80	12	89	3871
2728.5	370	29430	1.00	83	85	11	93	4444
2729.0	413	33854	1.00	88	91	10	98	5072
2729.5	458	38724	1.00	93	96	8	102	5758
2730.0	506	44127	1.00	98	101	8	106	6512
2730.5	557	50039	1.00	103	106	7	110	7330
2731.0	610	56770	1.00	107	110	6	113	8246
2731.5	664	64182	1.00	110	114	6	116	9241
2732.0	720	72050	1.00	113	117	5	118	10290
2732.5	777	80380	1.00	116	120	4	121	11392
2733.0	836	89175	1.00	119	124	4	123	12548
2733.5	897	98442	1.00	123	127	3	126	13758
2734.0	966	99477	1.00	146	150	2	148	14099
2734.5	1040	108987	1.00	153	158	2	155	15379
2735.0	1118	120811	1.00	157	162	1	158	16924
2735.5	1197	134205	1.00	159	164	0	159	18639
2735.9	1260	145388	1.00	160	166	0	160	20066



CROSS-SECTION PROPERTIES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 SECID=AV AT DISTANCE= 30015 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2725.0	27	722	1.00	25	25	64	89	161
2725.5	40	1394	1.00	27	27	63	90	277
2726.0	54	2330	1.00	28	29	62	91	417
2726.5	68	3409	1.00	30	31	61	92	581
2727.0	84	4598	1.00	32	34	60	93	768
2727.5	101	5959	1.00	34	36	60	94	978
2728.0	118	7494	1.00	36	38	59	95	1211
2728.5	137	9209	1.00	40	42	27	96	1436
2729.0	158	11135	1.02	45	48	25	97	1667
2729.5	183	13446	1.05	55	58	24	98	1845
2730.0	213	16127	1.10	67	70	22	99	2066
2730.5	249	19254	1.15	77	81	21	100	2369
2731.0	289	23088	1.16	80	84	21	101	2892
2731.5	329	27670	1.13	81	86	20	101	3549
2732.0	370	32973	1.09	82	87	20	102	4281
2732.5	411	38442	1.07	83	88	20	102	5024
2733.0	453	44339	1.06	83	89	19	103	5805
2733.5	494	50649	1.05	84	91	19	103	6621
2734.0	537	57354	1.05	86	93	18	104	7419
2734.5	581	64471	1.05	88	95	16	104	8233
2735.0	625	71999	1.05	91	98	14	105	9073
2735.5	671	79937	1.06	93	100	13	105	9941
2736.0	718	88286	1.07	95	103	11	106	10836
2736.5	766	96392	1.08	98	106	9	107	11700
2737.0	816	104800	1.09	102	110	7	109	12579
2737.5	868	113687	1.10	105	114	6	111	13489
2738.0	922	123061	1.11	109	117	4	113	14433
2738.5	977	132929	1.13	112	121	2	115	15410
2739.0	1036	134586	1.18	127	136	1	128	15406
2739.2	1062	139591	1.19	128	137	0	128	15918



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 8. DATE= 1/28/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

AU : KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FM /   ACC *ID*
=====
AS-TW AT 28785 / 0 / 2280. / 401. / 35299. / 1.08 / 45. / 132.
2724.32 / 0.54 / / 2724.86 / 5.69 / 0.43/ *IS*
=====
REGIN BRIDGE ANALYSIS =====
BRIDG AT 28785 / / 2280. / 266. / 20707. / 1.00 / 0. / 47.
2724.32 / 1.14 / ...1... (0.026) / 8.57 / 0.59 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
-----
AT AT 28890 / 195 / 2280. / 437. / 44769. / 1.14 / 17. / 113.
2724.73 / 0.48 / 0.35 / 0.0 / 2725.21 / 5.21 / 0.40 / -0.001 *AS*
-----
    
```

PRINT SUSPENDED BY OPERATOR



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AS-TW AT 28785 /    0 / 2280. / 401. / 35299. / 1.08 / 45. / 132.
  2724.32 / 0.54 /           / 2724.86 / 5.69 / 0.43/   *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 28785 /    / 2280. / 266. / 20707. / 1.00 / 0. / 47.
  2724.32 / 1.14 / ...1... (0.026) / 8.57 / 0.59 /   *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT    0. / RIGHT    0. /   *RG*
-----
AT AT 28890 / 105 / 2280. / 437. / 44769. / 1.14 / 17. / 113.
  2724.73 / 0.48 / 0.35 / 0.0 / 2725.21 / 5.21 / 0.40 / -0.001 *AS*
-----
M = 0.19 / E = 0.06 / K* = 0.29 / 477. / 50399. / 1.14 / 16. / 116.
  2725.13 / 0.41 /           / 2725.54 / 4.78 / 0.36 /   *AS*
===== END BRIDGE ANALYSIS =====
AU AT 29625 / 735 / 2280. / 328. / 25191. / 1.00 / 12. / 89.
  2727.97 / 0.75 / 3.01 / 0.17 / 2728.72 / 6.96 / 0.59 / 0.002 *XS*
-----
AV AT 30015 / 390 / 2190. / 297. / 23889. / 1.16 / 21. / 101.
  2731.09 / 0.98 / 3.24 / 0.11 / 2732.07 / 7.38 / 0.61 / 0.003 *XS*
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END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AT : WSU > BELMX (1)

CHECKED Q80 (2)

AU : KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10 (50) 100.500 W/BRIDGE AS-AV  
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AS-TW AT 28785 / 0 / 3870. / 586. / 60194. / 1.03 / 42. / 139.
2726.34 / 0.70 / / 2727.04 / 6.60 / 0.44 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 28785 / / 3522. / 358. / 23606. / 1.00 / 0. / 47.
2727.10 / 1.51 / ...2... (0.025) / 9.84 / 0.59 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 16. / RIGHT 305. / *RG*
-----
AT AT 28890 / 105 / 3870. / 651. / 76865. / 1.15 / 14. / 129.
2726.75 / 0.63 / 0.34 / 0.0 / 2727.38 / 5.94 / 0.41 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 985. / 127193. / 1.21 / 11. / 171.
2729.08 / 0.29 / / 2729.37 / 3.93 / 0.26 / *AS*
===== END BRIDGE ANALYSIS =====
AU AT 29625 / 735 / 3870. / 563. / 50775. / 1.00 / 7. / 111.
2730.56 / 0.73 / 1.70 / 0.22 / 2731.29 / 6.87 / 0.52 / 0.000 *XS*
-----
AV AT 30015 / 390 / 3720. / 445. / 43237. / 1.06 / 19. / 103.
2732.91 / 1.16 / 2.56 / 0.21 / 2734.06 / 8.36 / 0.59 / 0.001 *XS*
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END OF THIS PROFILE



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 \*\*\* PAGE COUNT= 12,DATE= 1/28/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AU ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100.500 W/BRIDGE AS-AV  
 PAGE 1 OF 1. PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AS-TW AT 28785 / 0 / 4640. / 674. / 73614. / 1.03 / 36. / 143.
2727.21 / 0.76 / / 2727.97 / 6.89 / 0.44 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28785 / / 3850. / 358. / 23606. / 1.00 / 0. / 47.
2727.10 / 1.80 / ...3... (0.025) / 10.76 / 0.64 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 103. / RIGHT 618. / *RG*
-----
AT AT 28890 / 105 / 4640. / 756. / 91159. / 1.21 / 13. / 166.
2727.60 / 0.71 / 0.34 / 0.0 / 2728.30 / 6.13 / 0.42 / 0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1082. / 144930. / 1.20 / 10. / 173.
2729.68 / 0.34 / / 2730.02 / 4.29 / 0.28 / *A5*
===== END BRIDGE ANALYSIS =====
AU AT 29625 / 735 / 4640. / 636. / 60347. / 1.00 / 6. / 115.
2731.25 / 0.83 / 1.81 / 0.24 / 2732.07 / 7.30 / 0.53 / 0.001 *XS*
-----
AV AT 30015 / 390 / 4460. / 502. / 51877. / 1.05 / 19. / 103.
2733.59 / 1.29 / 2.58 / 0.23 / 2734.88 / 8.88 / 0.60 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AT : MAX QBO < QT (3)

AT : MAX QTC < QT (3)

AT : RIGHT BANK EXTENDED

AU : KU/KD < 0.7 OR > 1.4

CHECKED QRD

ASSUMED WSU = GMAX

ALERTED USER

ALERTED USER

OK



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV  
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
AS-TW AT 28785 /   0 / 6700. / 855. / 99483. / 1.06 / 15. / 154.
      2728.71 / 1.02 /           / 2729.73 / 7.84 / 0.48/      *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28785 /           / 4060. / 358. / 23606. / 1.00 / 0. / 47.
      2727.10 / 2.00 /   ...3... (0.025) / 11.35 / 0.67 /      *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 609. / RIGHT 1881. /      *RG*
-----
AT AT 28890 / 105 / 6700. / 1015. / 132663. / 1.21 / 11. / 171.
      2729.26 / 0.82 / 0.36 / 0.0 / 2730.08 / 6.60 / 0.43 / -0.601 *AS*
-----
M = **** / E = **** / K* = **** / 1380. / 200784. / 1.19 / 0. / 185.
      2731.40 / 0.43 /           / 2731.83 / 4.85 / 0.29 /      *AS*
===== END BRIDGE ANALYSIS =====
AU AT 29625 / 735 / 6700. / 832. / 88607. / 1.00 / 4. / 123.
      2732.97 / 1.01 / 1.85 / 0.29 / 2733.98 / 8.05 / 0.54 / -0.000 *XS*
-----
AV AT 30015 / 390 / 6450. / 642. / 74885. / 1.06 / 14. / 105.
      2735.18 / 1.56 / 2.54 / 0.33 / 2736.84 / 13.04 / 0.61 / 0.001 *XS*
-----
    
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END OF THIS PROFILE