

[illegible]

5	502	194	2	30819	215	2	30817	241	2	30816	242	2	30834	243	3	30843
5	503	255	3	30881	272	3	30869	280	3	31008						
6	504	1	2	0480040	1	2	050050	2	3	0000075						
3	505	0	17	4	3087		0385	99	99							
5	601	0	1	31023	5	1	30949	17	1	30949	32	2	30883	38	2	30847
5	602	61	2	30829	54	2	30825	70	2	30835	73	2	30847	74	3	30898
5	603	91	3	30903	150	4	30895	166	4	30912	170	4	30920	216	4	30951
5	604	261	4	31000	268	4	31020									
6	605	1	2	075065	1	2	045045	2	4	050040	1	2	070070			
3	700	0	19	4	3088		10595	99	99							
5	701	0	1	31044	7	1	31028	19	1	31023	30	1	30972	82	2	30936
5	702	93	2	30864	100	2	30894	114	2	30948	125	2	30852	134	2	30864
5	703	144	2	30924	154	3	30937	200	3	30932	400	3	30927	600	3	30929
5	704	500	3	30914	1000	3	30916	1000	3	30955	1080	3	31060			
5	705	2	3	060050	1	2	045045	1	3	045040						
3	800	1	25	4	3089		12435	99	99							
4	801	5140	5140	5140	5140	5140	5140	5140								
5	802	0	1	31040	11	1	31013	16	1	30998	26	1	30989	40	1	30965
5	803	100	1	30947	120	1	30958	128	1	30948	134	1	30965	164	1	30960
5	804	200	1	30960	400	1	30966	500	2	30961	5575	3	30936	553	3	30996
5	805	558	3	30895	570	3	30862	583	3	30862	611	3	30859	612	3	30873
5	806	614	3	30920	633	4	30957	700	4	30950	800	4	30935	807	4	30988
5	807	900	4	31047												
6	808	1	2	035035	1	3	060065	2	4	050040	2	4	050065			
3	900	0	24	3	3092		13545	99	99							
5	901	0	1	31059	10	1	31014	175	1	31008	193	1	31010	300	1	30998
5	902	400	1	30990	500	1	30936	530	1	30996	548	1	30992	600	1	30989
5	903	700	1	30992	755	2	30986	809	2	30921	823	2	30922	828	2	30887
5	904	832	2	30879	847	2	30882	851	2	30888	884	2	30888	889	2	30925
5	905	908	3	30989	1000	3	30993	1100	3	31010	1175	3	31059			
6	906	1	3	065040	1	2	050050	1	3	070060						
3	1000	0	25	4	3093		14075	99	99							
5	1001	0	1	31059	200	1	31040	253	1	31039	275	1	31038	314	1	31017
5	1002	400	1	31022	488	1	31019	506	1	31019	600	1	31012	800	1	31006
5	1003	625	1	31005	836	2	31023	858	2	31021	856	2	30999	1000	2	30970
5	1004	1080	3	30953	1086	3	30928	1059	3	30898	1095	3	30890	1109	3	30862
5	1005	1129	3	30885	1132	3	30892	1162	3	30933	1160	4	31030	1200	4	31050
5	1006	1240	4	31062												
6	1007	1	2	100150	2	3	065040	1	2	045045	1	2	060060			
3	1100	0	10	1			14075		0	31030	10					
5	1101	0	1	31030	0	1	30908	5	1	30894	10	1	30888	20	1	30860
5	1102	29	1	30896	47	1	30883	56	1	30897	58	1	31030	0	49	31030
3	1200	0	2													
5	1201	1	30888	1	31030											
3	1300	8049	4	8	2	25	1	2	11							
5	1301	0	1	31063	200	1	31037	400	1	31033	600	1	31022	800	1	31020
5	1302	1000	1	31035	1167	2	31045	1284	2	31073						
3	1400	0	27	3	3092		14150	1	3							
5	1401	0	1	31066	100	1	31014	200	1	31007	300	1	31027	500	1	31009
5	1402	400	1	31018	452	1	31026	510	1	31025	600	1	31025	714	1	31027
5	1403	735	1	31025	800	1	31001	900	1	30968	1000	1	30976	1100	1	30955
5	1404	1113	1	30950	1130	2	30959	1141	2	30979	1144	2	30896	1165	2	30887
5	1405	1161	2	30885	1168	2	30887	1164	2	30898	1183	3	30912	1194	3	30934
5	1406	1246	3	31011	1260	3	31077									
6	1407	1	3	065040	2	4	045035	1	2	080080						

SOUTH FORK NEW RIVER

EXTRA RUNS &
CARBONS

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 1, DATE= 1/ 6/77

*** INPUT CARD PRINTOUT ***

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PAGE 1 OF EDITING NOTES FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO 1	WARNING	STATION	16	IS LESS THAN	STATION	15	
BO 1	WARNING	SA	16	OUT OF ORDER			
BO 1	WARNING	STATION	17	IS LESS THAN	STATION	16	
BO 1	WARNING	SA	17	OUT OF ORDER			
BO 1	WARNING	STATION	18	IS LESS THAN	STATION	17	
NO BO	WARNING	STATION	10	IS LESS THAN	STATION	9	

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 5 DATE= 1/ 6/77

INPUT SUMMARY FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

20 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 20 TYPE 3 CARDS

KEPT 20 CROSS SECTIONS FOR EDITING

20 " " VALID FOR PROPERTY COMPUTATIONS

20 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

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.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 20000

8 20001

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USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 22,DATE= 1/ 6/77

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES
INITIAL VALUES ARE: Q = 3390. H = 3079.60

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

E ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

G ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

K ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

L ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 1 OF 2

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SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
A-TW	AT	3050	0	3390.	599.	77227.	1.15	133.	252.
3079.60		0.57			3080.17	5.66	0.39		*IS*
===== BEGIN BRIDGE ANALYSIS =====									
B0	1 AT	3050		3390.	616.	83202.	1.10	21.	123.
3079.60		0.47		...1... (0.071)		5.50	0.40		*B0*

NO ROAD-GRADE DATA

RG

B-APP	AT	3247	197	3390.	730.	87108.	1.34	341.	646.
3080.06		0.45	0.34	0.0	3080.51	4.64	0.34	0.002	*AS*
M = 0.03 / E = 0.0 / K* = 0.47 / 816. / 94377. / 1.45 / 341. / 646.									
3080.34		0.39			3080.73	4.16	0.32		*AS*
===== END BRIDGE ANALYSIS =====									
C	AT	3525	278	3390.	972.	67334.	1.44	58.	573.
3080.96		0.27	0.50	0.0	3081.23	3.49	0.30	-0.002	*XS*
D	AT	3970	445	3390.	970.	72285.	1.14	71.	431.
3082.07		0.22	1.05	0.0	3082.28	3.50	0.26	-0.000	*XS*
E	AT	5530	1560	3390.	1541.	105621.	1.46	101.	1123.
3084.52		0.11	2.35	0.0	3084.63	2.20	0.20	0.002	*XS*
F	AT	6920	1390	3260.	1238.	123450.	1.30	43.	262.
3085.69		0.14	1.18	0.02	3085.83	2.63	0.20	0.000	*XS*
G	AT	8260	1340	3260.	623.	60502.	1.15	64.	158.
3087.44		0.49	1.91	0.18	3087.93	5.24	0.35	0.019	*XS*
H	AT	9195	935	3170.	726.	80106.	1.14	127.	330.
3089.59		0.34	1.99	0.0	3089.92	4.37	0.29	-0.000	*XS*
I	AT	11070	1875	3170.	733.	84127.	1.12	98.	263.
3092.40		0.33	2.80	0.0	3092.72	4.32	0.27	0.000	*XS*
J	AT	12385	1315	3170.	929.	99801.	1.35	10.	200.
3094.05		0.25	1.57	0.0	3094.30	3.41	0.25	0.001	*XS*
K	AT	13895	1510	3170.	2867.	223430.	1.25	62.	1053.
3094.95		0.02	0.68	0.0	3094.98	1.11	0.11	0.002	*XS*
L	AT	15435	1540	3100.	835.	73081.	1.89	67.	032.
3095.70		0.41	0.93	0.19	3095.11	3.71	0.36	0.014	*XS*

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 2 OF 2

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	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
M		AT	16545	/	1110	/	3100.	/	836.	/	79910.	/	1.00	/	762.	/	904.			
			3097.70	/	0.21	/	1.83	/	0.0	/	3097.92	/	3.71	/	0.27	/	-0.018		*XS*	

N-TW	AT	17075	/	530	/	3100.	/	798.	/	78817.	/	1.50	/	933.	/	1152.			
			3098.45	/	0.35	/	0.81	/	0.07	/	3098.81	/	3.88	/	0.31	/	0.010		*XS*

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

NO	BO	AT	17075	/		/	3100.	/	552.	/	68832.	/	1.00	/	0.	/	58.		
			3098.45	/	0.49	/	...1...	/	(0.017)	/	5.61	/	0.32	/					*BO*

NO ROAD OVERFLOW

RG

0-APP	AT	17150	/	75	/	3100.	/	935.	/	98839.	/	2.20	/	922.	/	1229.			
			3098.54	/	0.38	/	0.09	/	0.01	/	3098.91	/	3.32	/	0.33	/	0.001		*AS*

M	=	0.17	/	E	=	0.42	/	K*	=	0.25	/	981.	/	103185.	/	2.25	/	910.	/	1230.
			3098.68	/	0.35	/		/		/	3099.03	/	3.16	/	0.31	/			*AS*	

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

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES
INITIAL VALUES ARE: Q = 5540. H = 3081.89

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

B-APP,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
D ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
E ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
G ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
H ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
K ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
L ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
M ,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES
 PAGE 1 OF 2

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

 A-TW AT 3050 / 0 / 5540. / 936. / 126898. / 1.25 / 107. / 304.
 3081.89 / 0.68 / / 3082.57 / 5.92 / 0.40 / *IS*

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

 B0 1 AT 3050 / / 5540. / 868. / 134190. / 1.13 / 18. / 135.
 3081.89 / 0.63 / ...1... (0.071) / 6.38 / 0.41 / *B0*

NO ROAD-GRADE DATA

RG

 B-APP AT 3247 / 197 / 5540. / 1734. / 181937. / 1.80 / 143. / 650.
 3082.55 / 0.29 / 0.26 / 0.0 / 3082.83 / 3.19 / 0.28 / -0.001 *AS*

 M = 0.26 / E = 0.0 / K* = 1.04 / 2086. / 224855. / 1.72 / 141. / 651.
 3083.30 / 0.19 / / 3083.49 / 2.66 / 0.23 / *AS*

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

 C AT 3525 / 278 / 5540. / 2354. / 231562. / 1.01 / 25. / 576.
 3083.55 / 0.09 / 0.16 / 0.0 / 3083.64 / 2.35 / 0.22 / -0.016 *XS*

 D AT 3970 / 445 / 5540. / 1590. / 132867. / 1.09 / 56. / 436.
 3083.94 / 0.21 / 0.44 / 0.06 / 3084.14 / 3.48 / 0.23 / -0.000 *XS*

 E AT 5530 / 1560 / 5540. / 2656. / 194433. / 1.42 / 98. / 1150.
 3085.90 / 0.10 / 1.85 / 0.0 / 3086.00 / 2.09 / 0.19 / 0.001 *XS*

 F AT 6920 / 1390 / 5330. / 1560. / 168024. / 1.28 / 35. / 275.
 3087.09 / 0.23 / 1.26 / 0.07 / 3087.32 / 3.42 / 0.24 / 0.000 *XS*

 G AT 8260 / 1340 / 5330. / 825. / 86634. / 1.20 / 49. / 161.
 3089.43 / 0.78 / 2.62 / 0.27 / 3090.21 / 6.46 / 0.41 / 0.000 *XS*

 H AT 9195 / 935 / 5180. / 1312. / 139654. / 1.34 / 50. / 336.
 3092.02 / 0.32 / 2.13 / 0.0 / 3092.35 / 3.95 / 0.28 / 0.000 *XS*

 I AT 11070 / 1875 / 5180. / 1153. / 133378. / 1.31 / 52. / 268.
 3094.68 / 0.41 / 2.70 / 0.04 / 3095.09 / 4.49 / 0.29 / 0.000 *XS*

 J AT 12385 / 1315 / 5180. / 1407. / 170713. / 1.37 / 6. / 228.
 3096.35 / 0.29 / 1.55 / 0.0 / 3096.64 / 3.68 / 0.25 / 0.000 *XS*

 K AT 13895 / 1510 / 5180. / 5003. / 540194. / 1.07 / 32. / 1064.
 3097.06 / 0.02 / 0.44 / 0.0 / 3097.08 / 1.04 / 0.08 / 0.000 *XS*

 L AT 15435 / 1540 / 5070. / 2007. / 156133. / 2.33 / 35. / 857.
 3097.44 / 0.23 / 0.48 / 0.11 / 3097.67 / 2.53 / 0.29 / -0.000 *XS*

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

M AT 16545 / 1110 / 5070. / 1086. / 108995. / 1.09 / 395. / 941.

3099.04 / 0.37 / 1.68 / 0.07 / 3099.41 / 4.67 / 0.33 / -0.000 *XS*

=====

N-TW AT 17075 / 530 / 5070. / 1206. / 121339. / 1.56 / 865. / 1155.

3100.04 / 0.43 / 1.03 / 0.03 / 3100.47 / 4.20 / 0.34 / -0.001 *XS*

=====

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

NO BO AT 17075 / / 5070. / 645. / 86612. / 1.00 / 0. / 58.

3100.04 / 0.96 / ...1... (0.017) / 7.87 / 0.42 / *BO*

=====

NO ROAD OVERFLOW

RG

=====

O-APP AT 17150 / 75 / 5070. / 1551. / 162073. / 2.41 / 798. / 1240.

3100.17 / 0.40 / 0.10 / 0.0 / 3100.57 / 3.27 / 0.34 / 0.002 *AS*

=====

M = 0.38 / E = 0.19 / K* = 0.68 / 1918. / 202811. / 2.41 / 162. / 1245.

3100.96 / 0.26 / / 3101.23 / 2.64 / 0.27 / *AS*

=====

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

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES
INITIAL VALUES ARE: Q = 10100. H = 3084.74

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

B-APP,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

D ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

E ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

F ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

G ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

H ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

K ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

L ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

M ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

O-APP,WSU > BELMX (1)

,CHECKED Q80 (2)

O-APP,YU/Z < 1.1 (1)

,ASSUMED Q80 (1)

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 1 OF 2

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS	ELEV	HV	HF	HE	EG	V	FN	ACC	ID							
A-TW	AT	3050	/	0	/	10100.	/	1600.	/	231968.	/	1.36	/	96.	/	368.
		3084.74	/	0.84	/		/	3085.58	/	6.31	/	0.42	/		/	*IS*
===== BEGIN BRIDGE ANALYSIS =====																
BD 1	AT	3050	/		/	10100.	/	1229.	/	216251.	/	1.16	/	14.	/	150.
		3084.74	/	1.05	/	...	/	(0.069)	/	8.22	/	0.48	/		/	*BO*

NO ROAD-GRADE DATA

RG

B-APP	AT	3247	/	197	/	10100.	/	3245.	/	391107.	/	1.49	/	136.	/	655.
		3085.58	/	0.22	/	0.22	/	0.0	/	3085.81	/	3.11	/	0.24	/	-0.001 *AS*

M = 0.42 / E = 0.0 / K* = 1.41 / 4066. / 523640. / 1.43 / 47. / 657.																
		3087.15	/	0.14	/		/	3087.29	/	2.48	/	0.18	/		/	*AS*
===== END BRIDGE ANALYSIS =====																
C	AT	3525	/	278	/	10100.	/	4452.	/	652680.	/	1.02	/	11.	/	582.
		3087.29	/	0.08	/	0.08	/	0.0	/	3087.37	/	2.27	/	0.16	/	-0.000 *XS*

D	AT	3970	/	445	/	10100.	/	2996.	/	331010.	/	1.04	/	28.	/	473.
		3087.45	/	0.18	/	0.21	/	0.05	/	3087.63	/	3.37	/	0.27	/	-0.000 *XS*

E	AT	5530	/	1560	/	10100.	/	5269.	/	518706.	/	1.12	/	89.	/	1156.
		3088.49	/	0.06	/	0.93	/	0.0	/	3088.56	/	1.92	/	0.13	/	0.000 *XS*

F	AT	6920	/	1390	/	9720.	/	2137.	/	256332.	/	1.26	/	24.	/	293.
		3089.35	/	0.41	/	1.03	/	0.17	/	3089.76	/	4.55	/	0.30	/	0.000 *XS*

G	AT	8260	/	1340	/	9720.	/	1227.	/	139542.	/	1.26	/	19.	/	166.
		3092.48	/	1.23	/	3.54	/	0.41	/	3093.71	/	7.92	/	0.48	/	0.000 *XS*

H	AT	9195	/	935	/	9460.	/	2371.	/	300964.	/	1.12	/	19.	/	345.
		3095.48	/	0.28	/	2.05	/	0.0	/	3095.76	/	3.99	/	0.24	/	-0.001 *XS*

I	AT	11070	/	1875	/	9460.	/	1842.	/	242769.	/	1.25	/	27.	/	274.
		3097.66	/	0.51	/	2.30	/	0.12	/	3098.17	/	5.13	/	0.30	/	0.000 *XS*

J	AT	12385	/	1315	/	9460.	/	2123.	/	295096.	/	1.41	/	3.	/	255.
		3099.38	/	0.43	/	1.64	/	0.0	/	3099.51	/	4.46	/	0.27	/	0.000 *XS*

K	AT	13895	/	1510	/	9460.	/	8237.	/	1204860.	/	1.03	/	24.	/	1071.
		3100.17	/	0.02	/	0.38	/	0.0	/	3100.19	/	1.15	/	0.07	/	-0.000 *XS*

L	AT	15435	/	1540	/	9280.	/	4496.	/	489358.	/	1.42	/	14.	/	883.
		3100.37	/	0.09	/	0.23	/	0.04	/	3100.46	/	2.06	/	0.18	/	-0.000 *XS*

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 2 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

M AT 16545 / 1110 / 9280. / 2691. / 214578. / 2.00 / 82. / 1102.

3101.14 / 0.37 / 0.91 / 0.14 / 3101.51 / 3.45 / 0.32 / 0.000 *XS*

=====

N-TW AT 17075 / 530 / 9280. / 2126. / 227200. / 1.53 / 312. / 1158.

3102.04 / 0.45 / 0.94 / 0.04 / 3102.49 / 4.37 / 0.34 / 0.002 *XS*

=====

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

NO BO AT 17075 / / 7158. / 760. / 110313. / 1.00 / 0. / 58.

3102.04 / 1.38 / ...1... (0.017) / 9.42 / 0.46 / *BO*

=====

ROAD OVERFLOW (CFS) / LEFT 2247. / RIGHT 0. /

RG

=====

O-APP AT 17150 / 75 / 9280. / 2686. / 267109. / 2.82 / 86. / 1251.

3102.11 / 0.52 / 0.11 / 0.03 / 3102.63 / 3.45 / 0.38 / -0.000 *AS*

=====

M = 0.41 / E = 0.24 / K* = 0.76 / 4105. / 400771. / 2.80 / 60. / 1258.

3103.46 / 0.22 / / 3103.68 / 2.26 / 0.17 / *AS*

=====

END OF THIS PROFILE.

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 31, DATE= 1/ 6/77

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES
INITIAL VALUES ARE: Q = 6700. H = 3082.78

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

B-APP, KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

D ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

E ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

G ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

H ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

K ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

L ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

M ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 1 OF 2

=====

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	LEW	REW	ID
A-TW	AT	3050	/	0	/	6700.	/	1117.	/	153854.	/	1.31 / 103. / 324.
		3082.78	/	0.73	/		/	3083.51	/	6.00 / 0.40 /		*IS*
===== BEGIN BRIDGE ANALYSIS =====												
B0 1	AT	3050	/		/	6700.	/	975.	/	157531.	/	1.14 / 16. / 140.
		3082.78	/	0.73	/	...1...	/	(0.071)	/	6.87 / 0.43 /		*B0*

NO ROAD-GRADE DATA

RG

B-APP	AT	3247	/	197	/	6700.	/	2182.	/	237324.	/	1.70 / 141. / 651.
		3083.50	/	0.25	/	0.24	/	0.0	/	3083.75	/	3.07 / 0.26 / -0.000 *AS*
M = 0.32 / E = 0.0 / K* = 1.20 / 2672. / 301819. / 1.62 / 139. / 653.												
		3084.47	/	0.16	/		/	3084.63	/	2.51 / 0.21 /		*AS*

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

C	AT	3525	/	278	/	6700.	/	2976.	/	337690.	/	1.00 / 21. / 578.
		3084.67	/	0.08	/	0.12	/	0.0	/	3084.75	/	2.25 / 0.19 / -0.000 *XS*

D	AT	3970	/	445	/	6700.	/	1980.	/	180827.	/	1.06 / 48. / 439.
		3084.95	/	0.19	/	0.33	/	0.05	/	3085.13	/	3.38 / 0.21 / -0.000 *XS*

E	AT	5530	/	1560	/	6700.	/	3269.	/	257464.	/	1.31 / 95. / 1151.
		3086.56	/	0.09	/	1.50	/	0.0	/	3086.64	/	2.05 / 0.17 / 0.002 *XS*

F	AT	6920	/	1390	/	6450.	/	1706.	/	189283.	/	1.28 / 32. / 280.
		3087.69	/	0.28	/	1.23	/	0.10	/	3087.97	/	3.78 / 0.26 / 0.000 *XS*

G	AT	8260	/	1340	/	6450.	/	930.	/	99944.	/	1.23 / 38. / 163.
		3090.32	/	0.92	/	2.95	/	0.32	/	3091.24	/	6.94 / 0.44 / 0.000 *XS*

H	AT	9195	/	935	/	6270.	/	1612.	/	179535.	/	1.26 / 41. / 339.
		3093.05	/	0.30	/	2.11	/	0.0	/	3093.35	/	3.89 / 0.26 / 0.000 *XS*

I	AT	11070	/	1875	/	6270.	/	1342.	/	160614.	/	1.30 / 45. / 269.
		3095.53	/	0.44	/	2.56	/	0.07	/	3095.98	/	4.67 / 0.29 / 0.0 *XS*

J	AT	12385	/	1315	/	6270.	/	1606.	/	203332.	/	1.38 / 5. / 236.
		3097.23	/	0.33	/	1.58	/	0.0	/	3097.56	/	3.90 / 0.25 / 0.000 *XS*

K	AT	13895	/	1510	/	6270.	/	5925.	/	707573.	/	1.05 / 29. / 1066.
		3097.95	/	0.02	/	0.41	/	0.0	/	3097.97	/	1.06 / 0.08 / 0.000 *XS*

L	AT	15435	/	1540	/	6140.	/	2684.	/	228671.	/	1.92 / 30. / 869.
		3098.25	/	0.16	/	0.37	/	0.07	/	3098.41	/	2.29 / 0.24 / 0.000 *XS*

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 2 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

M AT 16545 / 1110 / 6140. / 1392.7 / 126874. / 1.41 / 330. / 1015.

3099.56 / 0.43 / 1.44 / 0.14 / 3099.99 / 4.41 / 0.75 / 0.000 *XS*

=====

N-TW AT 17075 / 530 / 6140. / 1375. / 154193. / 1.26 / 794. / 1156.

3100.62 / 0.39 / 1.02 / 0.0 / 3101.01 / 4.47 / 0.33 / 0.002 *XS*

=====

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

NO BO AT 17075 / / 6140. / 678. / 93295. / 1.00 / 0. / 58.

3100.62 / 1.28 / ...1... (0.017) / 9.06 / 0.47 / *BO*

=====

NO ROAD OVERFLOW

RG

0-APP AT 17150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

=====

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

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

[illegible]

9 20002	203	VHD	100	128	200
9 20003	239	VHD	100	572	9999
9 20004	259	VHD	100	486	9999
9 20005	279	VHD	100	338	9999
9 20006	299	VHD	100	650	717
9 20007	1200	VHD	100	98	158
9 20008	1300	VHD	100	96	9999
9 20009	1390	VHD	100	260	9999
9 20010	1500	VHD	100	170	9999
9 20011	1600	VHD	100	-999	74
9 20012	1700	VHD	100	-999	154
9 20013	1790	VHD	100	557	633
9 20014	1900	VHD	100	755	908
9 20015	11000	VHD	100	1080	9999
9 20016	11400	VHD	100	1130	9999
9 20017		END			

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

100 YR DISCHARGE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES
INITIAL VALUES ARE: Q = 6700. H = 3082.78

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

B-APP,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

D ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

E ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

G ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

H ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

K ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

L ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

M ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 1 OF 2

*** FLOODWAY ANALYSIS *** 100 YR DISCHARGE

=====

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

=====

A-TW AT 3050 / 0 / 6700. / 899. / 153855. / 1.04 / 128. / 212.
3083.78 / 0.90 / / 3084.68 / 7.45 / 0.40 / *IS*

=====

BEGIN BRIDGE ANALYSIS =====

BO 1 AT 3050 / / 6700. / 1102. / 186211. / 1.15 / 15. / 145.
3083.78 / 0.58 / ...1... (0.070) / 6.08 / 0.37 / *BO*

NO ROAD-GRADE DATA

RG

B-APP AT 3247 / 197 / 6700. / 1954. / 258943. / 1.38 / 374. / 653.
3084.65 / 0.25 / 0.22 / 0.0 / 3084.90 / 3.43 / 0.24 / -0.000 *AS*

M = 0.20 / E = 0.0 / K* = 0.90 / 2110. / 287753. / 1.35 / 374. / 654.
3085.21 / 0.21 / / 3085.42 / 3.18 / 0.22 / *AS*

=====

END BRIDGE ANALYSIS =====

C AT 3525 / 278 / 6700. / 2576. / 320367. / 1.00 / 195. / 579.
3085.46 / 0.11 / 0.14 / 0.0 / 3085.56 / 2.60 / 0.20 / 0.009 *XS*

D AT 3970 / 445 / 6700. / 1795. / 173093. / 1.06 / 154. / 442.
3085.76 / 0.23 / 0.36 / 0.06 / 3085.99 / 3.73 / 0.22 / 0.000 *XS*

E AT 5530 / 1560 / 6700. / 2599. / 251513. / 1.21 / 347. / 920.
3087.47 / 0.13 / 1.61 / 0.0 / 3087.59 / 2.58 / 0.18 / 0.000 *XS*

F AT 6920 / 1390 / 6450. / 1402. / 187403. / 1.12 / 82. / 214.
3088.62 / 0.37 / 1.27 / 0.12 / 3088.99 / 4.60 / 0.27 / 0.000 *XS*

G AT 8260 / 1340 / 6450. / 825. / 99859. / 1.00 / 90. / 164.
3091.31 / 0.95 / 2.98 / 0.29 / 3092.26 / 7.82 / 0.41 / 0.000 *XS*

H AT 9195 / 935 / 6270. / 1403. / 178861. / 1.14 / 174. / 341.
3094.03 / 0.35 / 2.12 / 0.0 / 3094.38 / 4.47 / 0.27 / 0.000 *XS*

I AT 11070 / 1875 / 6270. / 1137. / 159992. / 1.15 / 167. / 271.
3096.51 / 0.55 / 2.58 / 0.10 / 3097.05 / 5.52 / 0.30 / -0.000 *XS*

J AT 12385 / 1315 / 6270. / 1366. / 204099. / 1.14 / 4. / 142.
3098.26 / 0.37 / 1.58 / 0.0 / 3098.63 / 4.59 / 0.26 / -0.004 *XS*

K AT 13895 / 1510 / 6270. / 5481. / 716601. / 1.05 / 26. / 850.
3099.01 / 0.02 / 0.41 / 0.0 / 3099.03 / 1.14 / 0.08 / -0.010 *XS*

L AT 15435 / 1540 / 6140. / 2003. / 229013. / 1.45 / 191. / 647.
3099.26 / 0.21 / 0.36 / 0.10 / 3099.47 / 3.07 / 0.24 / -0.016 *XS*

=====

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER FLOOD & FLOODWAY ANALYSES

PAGE 2 OF 2

*** FLOODWAY ANALYSIS *** 100 YR DISCHARGE

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

M AT 16545 / 1110 / 6140. / 1247. / 145990. / 1.00 / 755. / 908.

3100.43 / 0.38 / 1.25 / 0.08 / 3100.80 / 4.92 / 0.30 / 0.000 *XS*

N-TW AT 17075 / 530 / 6140. / 1053. / 145305. / 1.05 / 1029. / 1157.

3101.28 / 0.55 / 0.94 / 0.09 / 3101.83 / 5.83 / 0.35 / 0.000 *XS*

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

NO 80 AT 17075 / / 6021. / 716. / 101160. / 1.00 / 0. / 58.

3101.28 / 1.10 / ...1... (0.017) / 8.41 / 0.42 / *80*

ROAD OVERFLOW (CFS) / LEFT 41. / RIGHT 0. /

RG

O-APP AT 17150 / 75 / 6140. / 1292. / 190822. / 1.54 / 1065. / 1248.

3101.40 / 0.54 / 0.10 / 0.0 / 3101.94 / 4.75 / 0.35 / 0.001 *AS*

M = 0.30 / E = 0.34 / K* = 0.51 / 1411. / 214831. / 1.54 / 1065. / 1251.

3102.04 / 0.45 / / 3102.50 / 4.35 / 0.32 / *AS*

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

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

.....5.....¹0.....²5.....³0.....⁴5.....⁵0.....⁶5.....⁷0.....⁸5.....0

44
88

41
85

L

*** INPUT CARD PRINTOUT ***

1	2	3	4	5	6	7	8
1	1	SOUTH FORK NEW RIVER	10,50,100,6500	YR FLOOD	25	4	02 05 15
2	2	307350 307580 307570 307865					
3	50	000 1 1 19 3 3069					0 99 99
4	51	3390 5540 6700 10100					
5	53	0 1 30836 10 1 30829			31 1 30835	56 1 30839	80 1 30830
5	54	108 1 30755 112 1 30762			128 2 30762	141 2 30692	146 2 30651
5	55	155 2 30642 166 2 30634			181 2 30639	190 2 30652	200 3 30708
5	56	260 3 30740 300 3 30757			400 3 30802	475 3 30844	
6	57	1 2 040 040 2 3 045 040			1 2 045 040		
3	78	000 2 0 19 3 3070			500 99 99		
5	75	0 1 30845 10 1 30839			31 1 30845	56 1 30849	80 1 30840
5	76	108 1 30765 112 1 30772			128 2 30772	141 2 30702	146 2 30661
5	77	155 2 30652 166 2 30644			181 2 30649	190 2 30662	200 3 30718
5	78	260 3 30750 300 3 30767			400 3 30812	475 3 30854	
6	79	1 2 040 040 2 3 045 040			1 2 045 040		
3	90	000 3 0 19 3 3071			1000 99 99		
5	95	0 1 30856 10 1 30849			31 1 30855	56 1 30859	80 1 30850
5	96	108 1 30775 112 1 30782			128 2 30782	141 2 30712	146 2 30671
5	97	155 2 30662 166 2 30654			181 2 30659	190 2 30672	200 3 30728
5	98	260 3 30760 300 3 30777			400 3 30822	475 3 30864	
6	99	1 2 040 040 2 3 045 040			1 2 045 040		
3	110	000 4 0 19 3 3072			1500 99 99		
5	115	0 1 30866 10 1 30859			31 1 30865	56 1 30869	80 1 30860
5	116	108 1 30785 112 1 30792			128 2 30792	141 2 30722	146 2 30681
5	117	155 2 30672 166 2 30664			181 2 30669	190 2 30662	200 3 30736
5	118	260 3 30770 300 3 30787			400 3 30832	475 3 30874	
6	119	1 2 040 040 2 3 045 040			1 2 045 040		
3	130	000 5 0 19 3 3073			2000 99 99		
5	135	0 1 30876 10 1 30869			31 1 30875	56 1 30879	80 1 30870
5	136	108 1 30795 112 1 30802			128 2 30802	141 2 30732	146 2 30691
5	137	155 2 30682 166 2 30674			181 2 30679	190 2 30692	200 3 30748
5	138	260 3 30780 300 3 30797			400 3 30842	475 3 30884	
6	139	1 2 040 040 2 3 045 040			1 2 045 040		
3	150	000 6 0 19 3 3074			2500 99 99		
5	155	0 1 30885 10 1 30879			31 1 30885	56 1 30889	80 1 30880
5	156	108 1 30805 112 1 30812			128 2 30812	141 2 30742	146 2 30701
5	157	155 2 30692 166 2 30684			181 2 30689	190 2 30702	200 3 30758
5	158	260 3 30790 300 3 30807			400 3 30852	475 3 30894	
6	159	1 2 040 040 2 3 045 040			1 2 045 040		
3	203	0 19 3 3075			3050 99 99		
5	220	0 1 30896 10 1 30889			31 1 30895	56 1 30899	80 1 30890
5	221	108 1 30815 112 1 30822			128 2 30822	141 2 30752	146 2 30711
5	222	155 2 30702 166 2 30694			181 2 30699	190 2 30712	200 3 30768
5	223	260 3 30800 300 3 30817			400 3 30862	475 3 30904	

FINAL

South Fork New R.

A - End

1

	1	2	3	4	5	6	7	8
6	224	1	2 040 040	2	3 045 040	1	2 045 040	
3	225	00	1 2 18 3 3074	3050	0 30909	3 0		
5	226		5 1 30884	10 1 30872	25 1 30767	43 2 30763	53 2 30720	
5	227		55 2 30713	63 2 30698	75 2 30701	95 2 30708	100 2 30713	
5	228		105 2 30745	110 3 30770	155 3 30858	164 3 30929	167 3 30933	
5	229		110 2 30917	43 1 30901	5 -9 30884			
6	230	1	2 040 040	2	3 045 040	1	2 045 040	
3	235	PIER 1	3 6			7		
5	236		4 30705	4 30775	8 30778	8 30901	4 30901	
5	237		4 30917					
3	239	B	5 27 3 3074	3247 99 99				
5	240		0 1 30896	50 1 30870	115 1 30872	132 1 30874	137 1 30853	
5	241		146 1 30810	155 1 30837	175 1 30837	180 1 30837	318 1 30837	
5	242		323 1 30837	338 2 30836	345 2 30760	354 2 30772	357 2 30801	
5	243		361 2 30800	477 2 30799	548 2 30787	562 2 30786	572 3 30786	
5	244		580 3 30714	590 3 30694	600 3 30695	614 3 30701	625 3 30713	
5	245		640 3 30762	661 3 30897				
6	246	1	2 050 050	1 2 045 050	2 4 045 040			
3	259		0 17 2 3074	3525 99 99				
5	260		0 1 30903	25 1 30835	60 1 30808	100 1 30799	200 1 30803	
5	261		300 1 30804	400 1 30802	470 1 30793	486 2 30794	497 2 30783	
5	262		513 2 30719	521 2 30710	533 2 30711	549 2 30712	559 2 30720	
5	263		585 2 30892	595 2 30911				
6	264	1	2 040 035	2 3 050 060				
3	279		0 19 3 3075	3970 99 99				
5	280		0 1 30910	85 1 30803	185 1 30799	285 2 30841	310 2 30818	
5	281		328 2 30816	338 3 30822	350 3 30777	355 3 30726	361 3 30716	
5	282		382 3 30718	402 3 30715	408 3 30726	410 3 30746	441 3 30856	
5	283		448 3 30870	468 3 30867	472 3 30872	480 3 30909		
6	284	1	2 045 040	1 2 060 060	2 4 045 065			
3	299		0 28 4 3078	5530 99 99				
5	1100		0 1 30926	86 1 30894	100 1 30852	103 1 30835	300 1 30848	
5	1101		400 1 30853	500 1 30864	575 1 30874	590 1 30878	594 1 30899	
5	1102		598 2 30890	600 2 30863	610 2 30851	622 2 30829	636 2 30790	
5	1103		650 3 30819	663 3 30754	672 3 30752	686 3 30752	702 3 30748	
5	1104		714 3 30755	717 3 30792	804 4 30811	900 4 30833	1000 4 30840	
5	1105		1100 4 30839	1148 4 30852	1166 4 30927			
6	1106	1	2 045 040	1 2 075 075	1 2 055 055	2 4 050 045		
3	1200		1 15 3 3076	6920 99 99				
4	1201		3260 5330 6450	9720				
5	1203		-10 1 30950	0 1 30939	50 1 30843	71 1 30819	98 2 30817	
5	1204		102 2 30766	107 2 30759	122 2 30758	146 2 30750	156 2 30766	
5	1205		160 3 30778	214 3 30807	247 3 30840	292 3 30890	312 3 30943	
6	1206	2	4 060 055	1				

*** INPUT CARD PRINTOUT ***

1 2 3 4 5 6 7 8
.....0.....0.....0.....0.....0.....0.....0.....0

5	1301	-5	1	30962	0	1	30958	25	1	30914	60	1	30885	75	1	30845
5	1302	96	2	30825	103	2	30784	108	2	30773	116	2	30768	135	2	30776
5	1303	144	2	30784	172	2	30962									
6	1304	2	4	080 070	1	2	055 055									
3	1390 H	1	16	3	3082		9195	99	99							
4	1391	3170		5180	6270		9450									
5	1402	0	1	30976	50	1	30920	100	1	30898	150	1	30894	185	1	30893
5	1403	217	2	30912	230	2	30900	244	2	30852	260	3	30851	265	3	30804
5	1404	269	3	30798	287	3	30790	310	3	30789	314	3	30804	331	3	30899
5	1405	350	3	30975												
6	1406	1	2	040 040	2	4	065 060	1	2	050 050						
3	1500 I	0	13	3	3084		11070	99	99							
5	1501	0	1	31009	60	1	30937	110	1	30920	170	2	30936	188	2	30835
5	1502	194	2	30819	215	2	30817	241	2	30816	242	2	30834	243	3	30863
5	1503	255	3	30881	272	3	30969	280	3	31008						
6	1504	1	2	045 040	1	2	050 050	2	4	080 075						
3	1600 J	0	17	4	3087		12385	99	99							
5	1601	0	1	31023	8	1	30949	17	1	30899	32	2	30883	38	2	30847
5	1602	41	2	30829	54	2	30829	70	2	30835	73	2	30847	74	3	30898
5	1603	91	3	30903	150	4	30895	160	4	30910	170	4	30920	216	4	30951
5	1604	261	4	31000	268	4	31020									
6	1605	1	2	075 055	1	2	045 045	2	4	050 040	1	2	070 070			
3	1700 K	0	19	3	3088		13895	99	99							
5	1701	0	1	31044	7	1	31028	19	1	31028	30	1	30972	82	2	30936
5	1702	93	2	30864	100	2	30844	114	2	30848	128	2	30852	134	2	30864
5	1703	144	2	30924	154	3	30937	200	3	30932	400	3	30927	600	3	30929
5	1704	800	3	30914	1000	3	30910	1060	3	30955	1080	3	31040			
6	1705	2	3	060 050	1	2	045 045	1	3	045 040						
3	1790 L	1	25	4	3089		15435	99	99							
4	1721	3180		5070	6140		9280									
5	1802	0	1	31046	11	1	31013	16	1	30996	26	1	30989	40	1	30965
5	1803	100	1	30947	120	1	30938	126	1	30948	134	1	30965	164	1	30960
5	1804	200	1	30960	400	1	30956	500	2	30961	557	3	30936	563	3	30896
5	1805	500	3	3085												

6705500
6705500

	1	2	3	4	5	6	7	8
5 11001	0	1 31059	200	1 31040	253	1 31039	275	1 31038 319 1 31017
5 11002	400	1 31022	488	1 31019	506	1 31019	600	1 31012 800 1 31006
5 11003	825	1 31005	836	2 31023	858	2 31021	866	2 30999 1000 2 30970
5 11004	1080	3 30953	1086	3 30926	1089	3 30898	1095	3 30890 1109 3 30862
5 11005	1129	3 30885	1132	3 30898	1142	3 30933	1160	4 31030 1200 4 31050
5 11006	1240	4 31068						
5 11007	1 2 100	100 2	3 065	040 1	2 045	045 1	2 060	060
3 11100	00 80 2	10 1 3089	17075		0 31030	1 0		
5 11101	0	1 31030	0	1 30908	5	1 30898	10	1 30888 28 1 30880
5 11102	29	1 30896	47	1 30683	58	1 30897	58	1 31030 0 -9 31030
6 11103	2 3 045	045						
3 11200	PIER 3	2				5		
5 11201	1	30888	1	31030				
3 11300	ROAD 4	8 2 29		1 2		1 1		2
5 11301	0	1 31063	200	1 31037	400	1 31033	600	1 31022 800 1 31020
5 11302	1000	1 31035	1167	2 31046	1284	2 31070		
3 11400	0 APP 5	27 3 3092	17150	1 3				
5 11401	0	1 31066	100	1 31014	200	1 31007	300	1 31027 360 1 31009
5 11402	400	1 31018	452	1 31026	510	1 31028	600	1 31025 714 1 31027
5 11403	735	1 31025	800	1 31001	900	1 30988	1000	1 30976 1100 1 30956
5 11404	1113	1 30950	1130	2 30959	1141	2 30929	1144	2 30898 1148 2 30887
5 11405	1161	2 30885	1168	2 30887	1184	2 30898	1188	3 30912 1194 3 30934
5 11406	1246	3 31011	1280	3 31077				
6 11407	1 3 065	040 2	4 045	035 1	2 080	080		

PAGE 1 OF EDITING NOTES FOR: SOUTH FORK NEW RIVER 10,50,100,500 YR FLOOD

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
80	1	WARNING	STATION	16	IS LESS THAN	STATION	15
80	1	WARNING	SA	16	OUT OF ORDER		
80	1	WARNING	STATION	17	IS LESS THAN	STATION	16
80	1	WARNING	SA	17	OUT OF ORDER		
80	1	WARNING	STATION	18	IS LESS THAN	STATION	17
NO 80	WARNING	STATION	10	IS LESS THAN	STATION	9	

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 6, DATE=12/31/76

INPUT SUMMARY FOR: SOUTH FORK NEW RIVER 10, 50, 100, & 500 YR FLOOD

26 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 26 TYPE 3 CARDS

KEPT 26 CROSS SECTIONS FOR EDITING

26 " " VALID FOR PROPERTY COMPUTATIONS

26 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 10.50', 100, & 500 YR FLOOD
INITIAL VALUES ARE: Q = 3390, H = 3073.50

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

C	KU/KD < 0.7 OR > 1.4	USED COMPUTED WSU
E	KU/KD < 0.7 OR > 1.4	USED COMPUTED WSU
G	KU/KD < 0.7 OR > 1.4	USED COMPUTED WSU
K	KU/KD < 0.7 OR > 1.4	USED COMPUTED WSU
L	KU/KD < 0.7 OR > 1.4	USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10,50,100, & 500 YR FLOOD

PAGE 1 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

MS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 3390. / 587. / 75493. / 1.14 / 133. / 251.

3073.50 / 0.59 / / 3074.09 / 5.78 / 0.40 / *IS*

=====

DUM 2 AT 500 / 500 / 3390. / 587. / 75493. / 1.14 / 133. / 251.

3074.50 / 0.59 / 1.01 / 0.0 / 3075.09 / 5.78 / 0.40 / -0.009 *XS*

=====

DUM 3 AT 1000 / 500 / 3390. / 587. / 75493. / 1.14 / 133. / 251.

3075.50 / 0.59 / 1.01 / 0.0 / 3076.09 / 5.78 / 0.40 / -0.009 *XS*

=====

DUM 4 AT 1500 / 500 / 3390. / 587. / 75493. / 1.14 / 133. / 251.

3076.50 / 0.59 / 1.01 / 0.0 / 3077.09 / 5.78 / 0.40 / -0.009 *XS*

=====

DUM 5 AT 2000 / 500 / 3390. / 587. / 75493. / 1.14 / 133. / 251.

3077.50 / 0.59 / 1.01 / 0.0 / 3078.09 / 5.78 / 0.40 / -0.009 *XS*

=====

DUM 6 AT 2500 / 500 / 3390. / 587. / 75493. / 1.14 / 133. / 251.

3078.50 / 0.59 / 1.01 / 0.0 / 3079.09 / 5.78 / 0.40 / -0.009 *XS*

=====

4 AT 3050 / 550 / 3390. / 599. / 77308. / 1.15 / 133. / 253.

3079.60 / 0.57 / 1.08 / 0.0 / 3080.18 / 5.66 / 0.39 / 0.000 *XS*

=====

BEGIN BRIDGE ANALYSIS

30 1 AT 3050 / / 3390. / 617. / 83292. / 1.10 / 21. / 123.

3079.60 / 0.47 / ...1... (0.071) / 5.50 / 0.39 / *BD*

=====

NO ROAD-GRADE DATA

=====

H AT 3247 / 197 / 3390. / 739. / 88994. / 1.36 / 341. / 646.

3080.06 / 0.45 / 0.33 / 0.0 / 3080.51 / 4.54 / 0.34 / 0.003 *AS*

=====

H = 0.0 / E = 1.00 / K* = 0.41 / 813. / 95404. / 1.45 / 341. / 646.

3080.39 / 0.39 / / 3080.70 / 4.17 / 0.32 / *AS*

=====

END BRIDGE ANALYSIS

C AT 3525 / 278 / 3390. / 951. / 65883. / 1.44 / 58. / 572.

3080.92 / 0.28 / 0.51 / 0.0 / 3081.20 / 3.57 / 0.30 / -0.002 *XS*

=====

D AT 3970 / 445 / 3390. / 968. / 72174. / 1.14 / 71. / 431.

3082.06 / 0.22 / 1.08 / 0.0 / 3082.28 / 3.50 / 0.26 / -0.000 *XS*

=====

E AT 5530 / 1500 / 3390. / 1541. / 105610. / 1.46 / 101. / 1123.

3084.52 / 0.11 / 2.35 / 0.0 / 3084.63 / 2.20 / 0.20 / 0.001 *XS*

=====

F AT 6920 / 1390 / 3260. / 1238. / 123443. / 1.30 / 3. / 262.

3085.69 / 0.14 / 1.18 / 0.02 / 3085.83 / 2.63 / 0.20 / 0.000 *XS*

=====

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10,50,100,1500 YR FLOOD

PAGE 2 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FH / ACC *ID*

=====

G AT 8260 / 1340 / 3260. / 623. / 60499. / 1.15 / 64. / 158.

3087.44 / 0.49 / 1.91 / 0.18 / 3087.93 / 5.24 / 0.35 / 0.019 *XS*

=====

H AT 9195 / 935 / 3170. / 726. / 80106. / 1.14 / 127. / 330.

3089.59 / 0.34 / 1.99 / 0.0 / 3089.92 / 4.37 / 0.29 / -0.000 *XS*

=====

I AT 11070 / 1875 / 3170. / 733. / 84127. / 1.12 / 98. / 263.

3092.40 / 0.33 / 2.80 / 0.0 / 3092.72 / 4.32 / 0.27 / 0.000 *XS*

=====

J AT 12385 / 1315 / 3170. / 929. / 99801. / 1.35 / 10. / 200.

3094.05 / 0.25 / 1.57 / 0.0 / 3094.30 / 3.41 / 0.25 / 0.001 *XS*

=====

K AT 13895 / 1510 / 3170. / 2867. / 223430. / 1.25 / 62. / 1053.

3094.95 / 0.02 / 0.68 / 0.0 / 3094.98 / 1.11 / 0.11 / 0.002 *XS*

=====

L AT 15435 / 1540 / 3100. / 835. / 73081. / 1.89 / 67. / 932.

3095.70 / 0.41 / 0.93 / 0.19 / 3096.11 / 3.71 / 0.36 / 0.014 *XS*

=====

M AT 16545 / 1110 / 3100. / 836. / 79910. / 1.00 / 762. / 904.

3097.70 / 0.21 / 1.83 / 0.0 / 3097.92 / 3.71 / 0.27 / -0.018 *XS*

=====

N-TW AT 17075 / 530 / 3100. / 798. / 78817. / 1.50 / 933. / 1152.

3098.45 / 0.35 / 0.81 / 0.07 / 3098.81 / 3.88 / 0.31 / 0.010 *XS*

=====

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

NO RD AT 17075 / / 3100. / 552. / 68832. / 1.00 / 0. / 58.

3098.45 / 0.49 / ...1... (0.017) / 5.61 / 0.32 / *RD*

=====

NO ROAD OVERFLOW

RG

=====

O APP AT 17150 / 75 / 3100. / 935. / 98839. / 2.20 / 922. / 1229.

3098.54 / 0.38 / 0.09 / 0.01 / 3098.91 / 3.32 / 0.33 / 0.001 *AS*

=====

M = 0.17 / E = 0.42 / K* = 0.25 / 981. / 103185. / 2.25 / 910. / 1230.

3098.68 / 0.35 / / 3099.03 / 3.15 / 0.31 / *AS*

=====

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

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 31, DATE=12/31/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 10,50,100,500 YR FLOOD
INITIAL VALUES ARE: N = 5540. H = 3075.80

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

U	,KU/KD < 0.7 OR > 1.4		
E	,KU/KD < 0.7 OR > 1.4		,USED COMPUTED WSU
G	,KU/KD < 0.7 OR > 1.4		,USED COMPUTED WSU
H	,KU/KD < 0.7 OR > 1.4		,USED COMPUTED WSU
K	,KU/KD < 0.7 OR > 1.4		,USED COMPUTED WSU
L	,KU/KD < 0.7 OR > 1.4		,USED COMPUTED WSU
M	,KU/KD < 0.7 OR > 1.4		,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10.50,100,8500 YR FLOOD

PAGE 1 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 5540. / 920. / 124537. / 1.25 / 107. / 302.

3075.80 / 0.70 / / 3076.50 / 6.02 / 0.41 / *IS*

=====

DUM 2 AT 500 / 500 / 5540. / 920. / 124537. / 1.25 / 107. / 302.

3076.80 / 0.70 / 0.99 / 0.0 / 3077.50 / 6.02 / 0.41 / 0.010 *XS*

=====

DUM 3 AT 1000 / 500 / 5540. / 920. / 124537. / 1.25 / 107. / 302.

3077.80 / 0.70 / 0.99 / 0.0 / 3078.50 / 6.02 / 0.41 / 0.010 *XS*

=====

DUM 4 AT 1500 / 500 / 5540. / 920. / 124537. / 1.25 / 107. / 302.

3078.80 / 0.70 / 0.99 / 0.0 / 3079.50 / 6.02 / 0.41 / 0.010 *XS*

=====

DUM 5 AT 2000 / 500 / 5540. / 920. / 124537. / 1.25 / 107. / 302.

3079.80 / 0.70 / 0.99 / 0.0 / 3080.50 / 6.02 / 0.41 / 0.010 *XS*

=====

DUM 6 AT 2500 / 500 / 5540. / 920. / 124537. / 1.25 / 107. / 302.

3080.80 / 0.70 / 0.99 / 0.0 / 3081.50 / 6.02 / 0.41 / 0.010 *XS*

=====

A AT 3050 / 550 / 5540. / 936. / 126892. / 1.25 / 107. / 304.

3081.89 / 0.68 / 1.07 / 0.0 / 3082.57 / 5.92 / 0.40 / -0.001 *XS*

=====

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

BO 1 AT 3050 / / 5540. / 868. / 134184. / 1.13 / 18. / 135.

3081.89 / 0.63 / ...1... (0.071) / 6.38 / 0.41 / *BO*

=====

NO ROAD-GRADE DATA

=====

AT 3247 / 197 / 5540. / 1498. / 173482. / 1.60 / 143. / 650.

3082.51 / 0.34 / 0.27 / 0.0 / 3082.85 / 3.70 / 0.29 / -0.001 *AS*

=====

M = 0.0 / E = 1.00 / K* = 0.41 / 1596. / 187179. / 1.57 / 142. / 650.

3082.81 / 0.29 / / 3083.11 / 3.47 / 0.27 / *AS*

=====

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

C AT 3525 / 278 / 5540. / 2176. / 205056. / 1.02 / 29. / 576.

3083.23 / 0.16 / 0.22 / 0.0 / 3083.33 / 2.55 / 0.24 / 0.000 *XS*

=====

D AT 3970 / 445 / 5540. / 1504. / 123602. / 1.10 / 58. / 436.

3083.70 / 0.23 / 0.54 / 0.06 / 3083.93 / 3.68 / 0.25 / 0.000 *XS*

=====

E AT 5530 / 1550 / 5540. / 2620. / 191083. / 1.42 / 98. / 1150.

3085.86 / 0.10 / 2.02 / 0.0 / 3085.96 / 2.11 / 0.19 / 0.003 *XS*

=====

F AT 4920 / 1340 / 5330. / 1557. / 157866. / 1.28 / 36. / 275.

3087.00 / 0.23 / 1.23 / 0.07 / 3087.31 / 3.42 / 0.24 / -0.000 *XS*

=====

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10,50,100, & 500 YR FLOOD

PAGE 2 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

G AT 8250 / 1340 / 5330. / 824. / 86575. / 1.20 / 49. / 161.

3089.43 / 0.78 / 2.62 / 0.27 / 3090.21 / 6.47 / 0.41 / 0.000 *XS*

=====

H AT 9195 / 935 / 5180. / 1311. / 139602. / 1.34 / 50. / 336.

3092.02 / 0.32 / 2.14 / 0.03 / 3092.34 / 3.95 / 0.28 / -0.000 *XS*

=====

I AT 11070 / 1875 / 5180. / 1153. / 133364. / 1.31 / 52. / 266.

3094.68 / 0.41 / 2.70 / 0.04 / 3095.09 / 4.49 / 0.29 / 0.000 *XS*

=====

J AT 12335 / 1315 / 5180. / 1407. / 170713. / 1.37 / 6. / 228.

3096.35 / 0.29 / 1.55 / 0.0 / 3096.64 / 3.68 / 0.25 / 0.001 *XS*

=====

K AT 13895 / 1510 / 5180. / 5003. / 540194. / 1.07 / 32. / 1064.

3097.06 / 0.02 / 0.44 / 0.0 / 3097.08 / 1.04 / 0.08 / 0.000 *XS*

=====

L AT 15435 / 1540 / 5070. / 2007. / 156133. / 2.33 / 35. / 857.

3097.44 / 0.23 / 0.48 / 0.11 / 3097.67 / 2.53 / 0.29 / -0.000 *XS*

=====

M AT 16545 / 1410 / 5070. / 1066. / 108995. / 1.09 / 395. / 941.

3099.04 / 0.37 / 1.68 / 0.07 / 3099.41 / 4.67 / 0.33 / -0.000 *XS*

=====

-I- AT 17075 / 530 / 5070. / 1206. / 121339. / 1.55 / 865. / 1155.

3100.04 / 0.43 / 1.03 / 0.03 / 3100.47 / 4.20 / 0.34 / -0.001 *XS*

=====

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

NO BD AT 17075 / / 5070. / 645. / 86612. / 1.00 / 0. / 58.

3100.04 / 0.96 / ...1... (0.017) / 7.87 / 0.42 / *BD*

=====

NO ROAD OVERFLOW

/

=====

O APP AT 17150 / 75 / 5070. / 1551. / 162073. / 2.41 / 798. / 1240.

3100.17 / 0.40 / 0.10 / 0.0 / 3100.57 / 3.27 / 0.34 / 0.002 *AS*

=====

W = 0.38 / E = 0.19 / K* = 0.68 / 1918. / 202811. / 2.41 / 162. / 1245.

3100.96 / 0.25 / / / 3101.23 / 2.64 / 0.27 / *AS*

=====

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

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 34, DATE=12/31/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 10,50,100, & 500 YR FLOOD
INITIAL VALUES ARE: Q = 8700. H = 3076.70

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

B	, KU/KD < 0.7 OR > 1.4		
D	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU
E	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU
G	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU
H	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU
K	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU
L	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU
M	, KU/KD < 0.7 OR > 1.4		, USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10,50,100, & 500 YP FLOOD

PAGE 1 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FH / ACC *ID*

=====

DUM 1 AT 0 / 0 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3076.70 / 0.75 / / 3077.45 / 6.09 / 0.41 / *IS*

=====

DUM 2 AT 500 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3077.70 / 0.75 / 0.98 / 0.0 / 3078.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 3 AT 1000 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3078.70 / 0.75 / 0.98 / 0.0 / 3079.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 4 AT 1500 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3079.70 / 0.75 / 0.98 / 0.0 / 3080.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 5 AT 2000 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3080.70 / 0.75 / 0.98 / 0.0 / 3081.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 6 AT 2500 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3081.70 / 0.75 / 0.98 / 0.0 / 3082.45 / 6.09 / 0.41 / 0.018 *XS*

=====

AT 3050 / 550 / 6700. / 1118. / 153936. / 1.31 / 103. / 324.

3082.78 / 0.73 / 1.06 / 0.0 / 3083.51 / 5.99 / 0.40 / -0.000 *XS*

=====

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

BO 1 AT 3050 / / 6700. / 975. / 157597. / 1.14 / 16. / 140.

3082.78 / 0.73 / ... (0.071) / 6.87 / 0.43 / *BO*

=====

NO ROAD-GRADE DATA

=====

AT 3247 / 197 / 6700. / 1801. / 217484. / 1.52 / 141. / 651.

3083.45 / 0.33 / 0.28 / 0.0 / 3083.78 / 3.72 / 0.29 / -0.000 *AS*

=====

A = 0.0 / E = 1.00 / K* = 0.41 / 1230. / 22552. / 1.53 / 146. / 652.

3083.79 / 0.29 / / 3084.08 / 3.47 / 0.27 / *AS*

=====

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

C AT 3525 / 278 / 6700. / 2693. / 287282. / 1.00 / 23. / 577.

3084.17 / 0.10 / 0.19 / 0.0 / 3084.25 / 2.49 / 0.22 / 0.000 *XS*

=====

D AT 3970 / 445 / 6700. / 1820. / 160030. / 1.07 / 51. / 438.

3084.54 / 0.23 / 0.43 / 0.06 / 3084.76 / 3.58 / 0.24 / 0.000 *XS*

=====

E AT 5536 / 1560 / 6700. / 3166. / 246146. / 1.32 / 96. / 1151.

3085.45 / 0.09 / 1.75 / 0.0 / 3085.54 / 2.12 / 0.18 / 0.002 *XS*

=====

F AT 6920 / 1390 / 6450. / 1697. / 157875. / 1.29 / 33. / 280.

3087.65 / 0.29 / 1.30 / 0.10 / 3087.94 / 3.55 / 0.25 / 0.000 *XS*

=====

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10,50,100,500 YR FLOOD

PAGE 2 OF 2

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS.ELEV / PV / HF / HE / EG / V / FN / ACC *ID*

=====

G AT 8260 / 1340 / 6450. / 929. / 99769. / 1.23 / 38. / 103.

3090.31 / 0.92 / 2.97 / 0.32 / 3091.23 / 6.95 / 0.44 / 0.000 *XS*

=====

H AT 9195 / 935 / 6270. / 1615. / 179906. / 1.26 / 41. / 339.

3093.06 / 0.30 / 2.11 / 0.0 / 3093.35 / 3.88 / 0.26 / 0.017 *XS*

=====

I AT 11070 / 1875 / 6270. / 1342. / 160680. / 1.30 / 45. / 269.

3095.54 / 0.44 / 2.55 / 0.07 / 3095.98 / 4.67 / 0.29 / 0.000 *XS*

=====

J AT 12385 / 1315 / 6270. / 1606. / 203351. / 1.38 / 5. / 236.

3097.23 / 0.33 / 1.58 / 0.0 / 3097.56 / 3.90 / 0.25 / -0.000 *XS*

=====

K AT 13895 / 1510 / 6270. / 5925. / 707622. / 1.05 / 29. / 1066.

3097.95 / 0.02 / 0.41 / 0.0 / 3097.97 / 1.06 / 0.08 / -0.000 *XS*

=====

L AT 15435 / 1540 / 6140. / 2685. / 228695. / 1.92 / 30. / 869.

3098.25 / 0.15 / 0.37 / 0.07 / 3098.41 / 2.29 / 0.24 / -0.000 *XS*

=====

M AT 16545 / 1110 / 6140. / 1392. / 126865. / 1.41 / 330. / 1015.

3099.56 / 0.43 / 1.44 / 0.14 / 3099.99 / 4.41 / 0.35 / -0.000 *XS*

=====

N-TW AT 17075 / 530 / 6140. / 1375. / 154193. / 1.26 / 794. / 1156.

3100.62 / 0.39 / 1.02 / 0.0 / 3101.01 / 4.47 / 0.33 / 0.002 *XS*

=====

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

NO 80 AT 17075 / / 6140. / 678. / 93295. / 1.60 / 0. / 58.

3100.62 / 1.28 / ...1... (0.017) / 9.06 / 0.47 / *B0*

=====

NO ROAD OVERFLOW

R6

O APP AT 17150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

W = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.69 / 2.49 / 0.28 / *AS*

=====

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

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 37, DATE=12/31/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 10,50,100,6500 YR FLOOD
INITIAL VALUES ARE: Q = 10100. H = 3078.65

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

D	,KU/KD < 0.7 OR > 1.4	
D	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
E	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
F	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
G	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
H	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
K	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
L	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
M	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
O	APP,WSU > BELMX (1)	,USED COMPUTED WSU
O	APP,YD/Z < 1.1 (1)	,CHECKED QBO (2)
		,ASSUMED QBO (1)

=====
WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10,50,100, & 500 YR FLOOD

PAGE 1 OF 2

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

=====
DUM 1 AT 0 / 0 / 10100. / 1575. / 227841. / 1.36 / 96. / 366.
3078.65 / 0.87 / / 3079.52 / 6.41 / 0.42 / *IS*

=====
DUM 2 AT 500 / 500 / 10100. / 1575. / 227841. / 1.36 / 96. / 366.
3079.65 / 0.87 / 0.98 / 0.0 / 3080.52 / 6.41 / 0.42 / 0.017 *XS*

=====
DUM 3 AT 1000 / 500 / 10100. / 1575. / 227841. / 1.36 / 96. / 366.
3080.65 / 0.87 / 0.98 / 0.0 / 3081.52 / 6.41 / 0.42 / 0.017 *XS*

=====
DUM 4 AT 1500 / 500 / 10100. / 1575. / 227841. / 1.36 / 96. / 366.
3081.65 / 0.87 / 0.98 / 0.0 / 3082.52 / 6.41 / 0.42 / 0.017 *XS*

=====
DUM 5 AT 2000 / 500 / 10100. / 1575. / 227841. / 1.36 / 96. / 366.
3082.65 / 0.87 / 0.98 / 0.0 / 3083.52 / 6.41 / 0.42 / 0.017 *XS*

=====
DUM 6 AT 2500 / 500 / 10100. / 1575. / 227841. / 1.36 / 96. / 366.
3083.65 / 0.87 / 0.98 / 0.0 / 3084.52 / 6.41 / 0.42 / 0.017 *XS*

=====
A AT 3050 / 550 / 10100. / 1599. / 231811. / 1.36 / 96. / 367.
3084.74 / 0.85 / 1.06 / 0.0 / 3085.58 / 6.32 / 0.42 / -0.001 *XS*

===== BEGIN BRIDGE ANALYSIS =====
BO 1 AT 3050 / / 10100. / 1229. / 216139. / 1.16 / 14. / 150.
3084.74 / 1.05 / ...1... (0.069) / 8.22 / 0.48 / *BO*

===== NO ROAD-GRADE DATA

=====
B AT 3247 / 197 / 10100. / 2822. / 349714. / 1.55 / 136. / 654.
3085.52 / 0.31 / 0.25 / 0.0 / 3085.63 / 3.58 / 0.27 / -0.000 *AS*

=====
M = -0.0 / E = 1.00 / R* = 0.40 / 3086. / 386876. / 1.52 / 135. / 655.
3085.99 / 0.26 / / 3086.25 / 3.29 / 0.25 / *AS*

===== END BRIDGE ANALYSIS =====
C AT 3525 / 278 / 10100. / 3880. / 520797. / 1.01 / 15. / 581.
3086.28 / 0.11 / 0.14 / 0.0 / 3086.39 / 2.60 / 0.20 / -0.000 *XS*

=====
D AT 3970 / 445 / 10100. / 2614. / 272613. / 1.04 / 35. / 446.
3085.53 / 0.24 / 0.32 / 0.07 / 3085.77 / 3.85 / 0.32 / -0.003 *XS*

=====
E AT 5530 / 1560 / 10100. / 4753. / 443631. / 1.15 / 91. / 1155.
3088.01 / 0.08 / 1.32 / 0.0 / 3088.09 / 2.12 / 0.15 / 0.000 *XS*

=====
F AT 6926 / 1390 / 9720. / 2067. / 244542. / 1.27 / 25. / 242.
3089.69 / 0.44 / 1.26 / 0.18 / 3089.52 / 4.70 / 0.31 / 0.000 *XS*

=====

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 10.50, 100, 8500 YP: FLOOD

PAGE 2 OF 2

=====

RECID AT DISTANCE/ LENGTH/ DISCHARGE/ AREA / CONVEYANCE/ ALPHA/ LFW / NEW

WS ELEV / HV / HF / HL / LG / V / FH / ACC *XS*

=====

4 AT 6260 / 1340 / 9720. / 1219. / 130408. / 1.26 / 19. / 166.

3092.42 / 1.25 / 3.74 / 0.41 / 3093.67 / 7.67 / 0.48 / 0.000 *XS*

=====

5 AT 5195 / 935 / 9460. / 2365. / 300036. / 1.12 / 19. / 345.

3095.46 / 0.28 / 2.07 / 0.0 / 3095.74 / 4.00 / 0.24 / 0.000 *XS*

=====

1 AT 11070 / 1875 / 9460. / 1341. / 242492. / 1.25 / 27. / 274.

3097.65 / 0.31 / 2.31 / 0.12 / 3098.17 / 5.14 / 0.30 / 0.000 *XS*

=====

3 AT 12385 / 1315 / 9460. / 2123. / 294459. / 1.41 / 3. / 255.

3099.38 / 0.43 / 1.65 / 0.0 / 3099.81 / 4.46 / 0.27 / 0.000 *XS*

=====

6 AT 13495 / 1510 / 9460. / 3235. / 1204315. / 1.03 / 24. / 1071.

3100.17 / 0.02 / 0.38 / 0.0 / 3100.19 / 1.15 / 0.07 / -0.000 *XS*

=====

1 AT 15435 / 1540 / 9280. / 4494. / 469075. / 1.42 / 14. / 883.

3100.35 / 0.09 / 0.23 / 0.04 / 3100.46 / 2.05 / 0.18 / -0.000 *XS*

=====

1 AT 16545 / 1110 / 9280. / 2590. / 214489. / 2.00 / 32. / 1102.

3101.14 / 0.37 / 0.91 / 0.14 / 3101.51 / 3.45 / 0.32 / -0.000 *XS*

=====

1 AT 17075 / 530 / 9280. / 2125. / 227156. / 1.53 / 312. / 1158.

3102.03 / 0.45 / 0.96 / 0.04 / 3102.49 / 4.37 / 0.34 / 0.002 *XS*

=====

MO 60 AT 17375 / / 7159. / 760. / 110304. / 1.00 / 0. / 58.

3102.03 / 1.38 / ...1... (0.017) / 9.42 / 0.46 / *XS*

=====

ROAD OVERFLOW (CFS) / LEFT 2247. / RIGHT 0. /

=====

0 VAPP AT 17150 / 75 / 9280. / 2685. / 267051. / 2.82 / 96. / 1251.

3102.11 / 1.52 / 0.11 / 0.03 / 3102.63 / 3.45 / 0.34 / -0.001 *XS*

=====

4 = 0.41 / 5 = 0.25 / XS = 0.76 / 4105. / 400771. / 2.89 / 60. / 1258.

3103.46 / 0.22 / / 3103.68 / 2.25 / 0.17 / *XS*

=====

END BRIDGE ANALYSIS

=====

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

1	2	3	4	5	6	7	8
1	1	SOUTH FORK NEW RIVER	100 YR FLOOD	510 TR	14	15	15
2	2	307650 307660 307670 307680 307690 307700					
3	50	000 1 1 19 3 3067	0 99 99				
4	51	6700 6700 6700 6700 6700 6700					
5	53	0 1 30835 10 1 30829 31 1 30835 53 1 30834 80 1 30830					
6	54	108 1 30755 112 1 30752 128 2 30752 141 2 30692 146 2 30651					
7	55	155 2 30642 166 2 30634 181 2 30639 190 2 30652 200 3 30708					
8	56	260 3 30740 300 3 30757 400 3 30802 475 3 30844					
9	57	1 2 040 040 2 3 045 040 1 2 045 040					
10	73	00 2 0 19 3 3070	500 99 99				
11	75	0 1 30846 10 1 30839 31 1 30845 53 1 30849 80 1 30840					
12	76	108 1 30765 112 1 30772 128 2 30772 141 2 30702 146 2 30661					
13	77	155 2 30652 166 2 30644 181 2 30649 190 2 30662 200 3 30718					
14	78	260 3 30750 300 3 30767 400 3 30812 475 3 30854					
15	79	1 2 040 040 2 3 045 040 1 2 045 040					
16	90	000 3 0 19 3 3071	1000 99 99				
17	92	0 1 30856 10 1 30849 31 1 30855 53 1 30859 80 1 30850					
18	93	108 1 30775 112 1 30782 128 2 30782 141 2 30712 146 2 30671					
19	97	155 2 30662 166 2 30654 181 2 30659 190 2 30672 200 3 30728					
20	99	260 3 30750 300 3 30771 400 3 30822 475 3 30864					
21	99	1 2 040 040 2 3 045 040 1 2 045 040					
22	110	000 4 0 19 3 3072	1500 99 99				
23	115	0 1 30866 10 1 30859 31 1 30865 53 1 30869 80 1 30860					
24	116	108 1 30785 112 1 30792 128 2 30792 141 2 30722 146 2 30681					
25	117	155 2 30672 166 2 30664 181 2 30669 190 2 30682 200 3 30738					
26	118	260 3 30770 300 3 30787 400 3 30832 475 3 30874					
27	119	1 2 040 040 2 3 045 040 1 2 045 040					
28	130	000 5 0 19 3 3073	2000 99 99				
29	135	0 1 30876 10 1 30869 31 1 30875 53 1 30879 80 1 30870					
30	136	108 1 30795 112 1 30802 128 2 30802 141 2 30732 146 2 30691					
31	137	155 2 30682 166 2 30674 181 2 30679 190 2 30692 200 3 30798					
32	138	260 3 30760 300 3 30797 400 3 30842 475 3 30884					
33	139	1 2 040 040 2 3 045 040 1 2 045 040					
34	150	00 5 0 19 3 3074	2500 99 99				
35	155	0 1 30886 10 1 30879 31 1 30885 53 1 30889 80 1 30880					
36	156	108 1 30805 112 1 30812 128 2 30812 141 2 30742 146 2 30701					
37	157	155 2 30692 166 2 30684 181 2 30689 190 2 30702 200 3 30758					
38	158	260 3 30790 300 3 30807 400 3 30852 475 3 30894					
39	159	1 2 040 040 2 3 045 040 1 2 045 040					
40	200	0 19 3 3075	3050 99 99				
41	220	0 1 30896 10 1 30899 31 1 30895 53 1 30899 80 1 30890					
42	241	108 1 30815 112 1 30822 128 2 30822 141 2 30752 146 2 30711					
43	242	155 2 30702 166 2 30694 181 2 30699 190 2 30712 200 3 30755					
44	273	260 3 30800 300 3 30817 400 3 30862 475 3 30904					

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
0	224	1	2 040 040	2	3 045 040	1	2 045 040	0
3	225	50	1 2 16 3 3074	3050	0	30909	3 0	
5	226	5	1 30884	10	1 30872	25	1 30767	43 2 30763 53 2 30720
5	227	55	2 30713	63	2 30698	75	2 30701	95 2 30708 100 2 30713
5	228	105	2 30745	110	3 30770	155	3 30858	164 3 30929 167 3 30933
5	229	110	2 30917	43	1 30901	5	4 30884	
5	230	1	2 040 040	2	3 045 040	1	2 045 040	
3	235	PIER1	3	0		7		
5	236	4	30705	4	30778	3	30778	8 30901 4 30901
5	237	4	30917					
5	239	B	5	27 3 3074	3247 99 99			
5	240	0	1 30896	50	1 30870	115	1 30872	132 1 30874 137 1 30853
5	241	146	1 30810	155	1 30837	175	1 30837	180 1 30837 318 1 30837
5	242	323	1 30837	338	2 30836	345	2 30760	354 2 30772 357 2 30801
5	243	381	2 30800	477	2 30799	548	2 30787	562 2 30786 572 3 30786
5	244	580	3 30714	590	3 30694	600	3 30695	614 3 30701 625 3 30713
5	245	640	3 30762	661	3 30897			
6	246	1	2 050 050	1	2 045 050	2	4 045 040	
3	254	0	17 2 3074	3525 99 99				
5	260	0	1 30903	25	1 30835	60	1 30808	100 1 30799 200 1 30803
5	261	300	1 30804	408	1 30802	470	1 30793	486 2 30794 497 2 30753
5	552	513	2 30719	521	2 30710	533	2 30711	549 2 30712 559 2 30720
5	263	585	2 30852	595	2 30911			
SEQUENCE								
5	264	1	2 040 035	2	3 050 060			
3	279	0	19 3 3075	3970 99 99				
5	280	0	1 30910	85	1 30803	185	1 30799	285 2 30841 310 2 30818
5	281	326	2 30810	338	3 30822	350	3 30777	355 3 30726 361 3 30718
5	282	337	3 30718	402	3 30715	408	3 30726	410 3 30746 441 3 30856
5	283	448	3 30870	468	3 30887	472	3 30872	480 3 30909
5	284	1	2 045 040	1	2 060 060	2	4 045 065	
3	294	0	28 4 3078	5530 99 99				
5	1100	0	1 30926	86	1 30894	100	1 30852	103 1 30835 300 1 30848
5	1101	400	1 30853	500	1 30864	575	1 30874	590 1 30878 594 1 30889
5	1102	596	2 30890	600	2 30863	618	2 30831	622 2 30829 636 2 30790
5	1103	654	3 30819	663	3 30754	672	3 30752	686 3 30752 702 3 30748
5	1104	714	3 30755	717	3 30792	804	4 30811	900 4 30833 1000 4 30840
5	1105	1100	4 30839	1148	4 30852	1166	4 30927	
5	1106	1	2 045 040	1	2 075 075	1	2 055 055	2 4 050 045
3	1200	1	15 3 3076	6920 99 99				
5	1201	6450	6450	6450	6450	6450		
5	1203	710	1 30950	0	1 30939	50	1 30843	71 1 30819 98 2 30817
5	1204	102	2 30765	107	2 30759	122	2 30758	146 2 30750 158 2 30756
5	1205	160	3 30778	214	3 3080			

USGS STEP-BACKWATCH PROGRAM - VERSION 76.170 *** PAGE COUNT= 3 DATE=12/17/75

PAGE 1 OF EDITING NOTES FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
80	1	WARNING	STATION	16	IS LESS THAN	STATION	15
80	1	WARNING	SA	16	OUT OF ORDER		
80	1	WARNING	STATION	17	IS LESS THAN	STATION	16
80	1	WARNING	SA	17	OUT OF ORDER		
80	1	WARNING	STATION	18	IS LESS THAN	STATION	17

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 4 DATE=12/17/76

INPUT SUMMARY FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY

14 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 14 TYPE 3 CARDS

KEPT 14 CROSS SECTIONS FOR EDITING

14 " " VALID FOR PROPERTY COMPUTATIONS

14 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 75.176 *** PAGE COUNT= 17 DATE=12/17/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY
INITIAL VALUES ARE: Q = 6700. H = 3076.50

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

B ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

D ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

E ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY

PAGE 1 OF 1

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 6700. / 1056. / 144642. / 1.29 / 104. / 318.

3076.50 / 0.81 / / 3077.31 / 6.34 / 0.43 / *IS*

=====

DUM 2 AT 500 / 500 / 6700. / 1073. / 147103. / 1.29 / 104. / 319.

3077.58 / 0.78 / 1.05 / 0.0 / 3078.36 / 6.25 / 0.42 / -0.000 *XS*

=====

DUM 3 AT 1000 / 500 / 6700. / 1081. / 148379. / 1.30 / 104. / 320.

3078.62 / 0.77 / 1.03 / 0.0 / 3079.39 / 6.20 / 0.42 / -0.000 *XS*

=====

DUM 4 AT 1500 / 500 / 6700. / 1081. / 148379. / 1.30 / 104. / 320.

3079.62 / 0.77 / 1.02 / 0.0 / 3080.39 / 6.20 / 0.42 / -0.020 *XS*

=====

DUM 5 AT 2000 / 500 / 6700. / 1081. / 148379. / 1.30 / 104. / 320.

3080.62 / 0.77 / 1.02 / 0.0 / 3081.39 / 6.20 / 0.42 / -0.020 *XS*

=====

DUM 6 AT 2500 / 500 / 6700. / 1081. / 148379. / 1.30 / 104. / 320.

3081.62 / 0.77 / 1.02 / 0.0 / 3082.39 / 6.20 / 0.42 / -0.020 *XS*

=====

A AT 3050 / 550 / 6700. / 1106. / 152498. / 1.30 / 103. / 323.

3082.74 / 0.74 / 1.09 / 0.0 / 3083.48 / 6.05 / 0.41 / -0.000 *XS*

=====

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

RD 1 AT 3050 / / 6700. / 970. / 156430. / 1.14 / 16. / 139.

3082.74 / 0.74 / ...1... (0.071) / 6.91 / 0.43 / *RD*

=====

RD ROAD-GRAD DATA

=====

RG

B AT 3247 / 197 / 6700. / 1791. / 215917. / 1.53 / 141. / 651.

3083.42 / 0.33 / 0.27 / 0.0 / 3083.75 / 3.74 / 0.29 / -0.001 *AS*

=====

M = 0.0 / E = 1.00 / K* = 0.41 / 1917. / 233085. / 1.53 / 140. / 652.

3083.76 / 0.29 / / 3084.05 / 3.50 / 0.27 / *AS*

=====

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

C AT 3525 / 275 / 6700. / 2681. / 285191. / 1.00 / 23. / 577.

3084.14 / 0.10 / 0.19 / 0.0 / 3084.24 / 2.50 / 0.22 / 0.000 *XS*

=====

D AT 3970 / 445 / 6700. / 1813. / 159208. / 1.07 / 51. / 438.

3084.52 / 0.23 / 0.44 / 0.07 / 3084.75 / 3.69 / 0.24 / 0.000 *XS*

=====

E AT 5530 / 1560 / 6700. / 3163. / 245764. / 1.33 / 96. / 1151.

3086.45 / 0.04 / 1.79 / 0.0 / 3086.54 / 2.12 / 0.18 / 0.002 *XS*

=====

F AT 6920 / 1390 / 6450. / 1696. / 187831. / 1.28 / 33. / 280.

3087.65 / 0.29 / 1.30 / 0.10 / 3087.94 / 3.80 / 0.26 / 0.000 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 78.170 *** PAGE COUNT= 19, DATE=12/17/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY
INITIAL VALUES ARE: Q = 6700, H = 3076.60

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

A KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

D KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

E KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY

PAGE 1 OF 1

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / MF / ME / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 6700. / 1078. / 147875. / 1.30 / 104. / 320.

3076.60 / 0.78 / / 3077.38 / 5.22 / 0.42 / *IS*

=====

DUM 2 AT 500 / 500 / 6700. / 1084. / 148787. / 1.30 / 104. / 321.

3077.63 / 0.77 / 1.02 / 0.0 / 3078.40 / 6.18 / 0.42 / -0.000 *XS*

=====

DUM 3 AT 1000 / 500 / 6700. / 1084. / 148787. / 1.30 / 104. / 321.

3078.63 / 0.77 / 1.01 / 0.0 / 3079.40 / 6.18 / 0.42 / -0.014 *XS*

=====

DUM 4 AT 1500 / 500 / 6700. / 1084. / 148787. / 1.30 / 104. / 321.

3079.63 / 0.77 / 1.01 / 0.0 / 3080.40 / 6.18 / 0.42 / -0.014 *XS*

=====

DUM 5 AT 2000 / 500 / 6700. / 1084. / 148787. / 1.30 / 104. / 321.

3080.63 / 0.77 / 1.01 / 0.0 / 3081.40 / 6.18 / 0.42 / -0.014 *XS*

=====

DUM 6 AT 2500 / 500 / 6700. / 1084. / 148787. / 1.30 / 104. / 321.

3081.63 / 0.77 / 1.01 / 0.0 / 3082.40 / 6.18 / 0.42 / -0.014 *XS*

=====

A AT 3050 / 550 / 6700. / 1110. / 152703. / 1.30 / 103. / 323.

3082.75 / 0.74 / 1.09 / 0.0 / 3083.48 / 6.04 / 0.41 / -0.000 *XS*

=====

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

BO 1 AT 3050 / / 6700. / 971. / 156596. / 1.14 / 16. / 139.

3082.75 / 0.74 / ...1... (0.071) / 6.90 / 0.43 / *BO*

=====

NO ROAD-GRADE DATA

=====

B AT 3247 / 197 / 6700. / 1792. / 216135. / 1.53 / 141. / 651.

3083.42 / 0.33 / 0.27 / 0.0 / 3083.75 / 3.74 / 0.29 / -0.001 *AS*

=====

M = 0.0 / E = 1.00 / K* = 0.41 / 1918. / 233285. / 1.53 / 140. / 652.

3083.77 / 0.29 / / 3084.06 / 3.49 / 0.27 / *AS*

=====

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

C AT 3525 / 278 / 6700. / 2683. / 285469. / 1.00 / 23. / 577.

3084.15 / 0.10 / 0.19 / 0.0 / 3084.24 / 2.50 / 0.22 / -0.000 *XS*

=====

D AT 3970 / 445 / 6700. / 1814. / 159303. / 1.07 / 51. / 438.

3084.52 / 0.23 / 0.44 / 0.06 / 3084.75 / 3.69 / 0.24 / -0.000 *XS*

=====

E AT 5530 / 1560 / 6700. / 3163. / 245815. / 1.33 / 96. / 1151.

3086.45 / 0.09 / 1.79 / 0.0 / 3086.54 / 2.12 / 0.18 / 0.002 *XS*

=====

F AT 6920 / 1390 / 6450. / 1696. / 187831. / 1.28 / 33. / 280.

3087.65 / 0.29 / 1.30 / 0.10 / 3087.74 / 3.80 / 0.26 / 0.000 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 21, DATE=12/17/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY
INITIAL VALUES ARE: Q = 6700. H = 3076.70

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

H , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

D , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

E , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY

PAGE 1 OF 1

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3076.70 / 0.75 / / 3077.45 / 6.09 / 0.41 / *JS*

=====

DUM 2 AT 500 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3077.70 / 0.75 / 0.98 / 0.0 / 3078.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 3 AT 1000 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3078.70 / 0.75 / 0.98 / 0.0 / 3079.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 4 AT 1500 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3079.70 / 0.75 / 0.98 / 0.0 / 3080.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 5 AT 2000 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3080.70 / 0.75 / 0.98 / 0.0 / 3081.45 / 6.09 / 0.41 / 0.018 *XS*

=====

DUM 6 AT 2500 / 500 / 6700. / 1100. / 151177. / 1.30 / 104. / 322.

3081.70 / 0.75 / 0.98 / 0.0 / 3082.45 / 6.09 / 0.41 / 0.018 *XS*

=====

A AT 3050 / 550 / 6700. / 1118. / 153936. / 1.31 / 103. / 324.

3082.78 / 0.73 / 1.06 / 0.0 / 3083.51 / 5.99 / 0.40 / -0.000 *XS*

=====

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

BO 1 AT 3050 / / 6700. / 975. / 157597. / 1.14 / 16. / 140.

3082.78 / 0.73 / ...1... (0.071) / 6.87 / 0.43 / *R0*

=====

NO ROAD-GRADE DATA

RG

AT 3247 / 197 / 6700. / 1801. / 217484. / 1.52 / 141. / 651.

3083.45 / 0.33 / 0.26 / 0.0 / 3083.78 / 3.72 / 0.29 / -0.000 *AS*

=====

M = 0.0 / E = 1.00 / K* = 0.41 / 1930. / 234552. / 1.53 / 140. / 652.

3083.79 / 0.29 / / 3084.08 / 3.47 / 0.27 / *AS*

=====

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

C AT 3525 / 278 / 6700. / 2693. / 287282. / 1.00 / 23. / 577.

3084.17 / 0.10 / 0.19 / 0.0 / 3084.26 / 2.49 / 0.22 / 0.000 *XS*

=====

D AT 3970 / 445 / 6700. / 1820. / 160030. / 1.07 / 51. / 438.

3084.54 / 0.23 / 0.43 / 0.06 / 3084.76 / 3.68 / 0.24 / 0.000 *XS*

=====

F AT 5530 / 1560 / 6700. / 3166. / 246146. / 1.32 / 96. / 1151.

3086.45 / 0.09 / 1.78 / 0.0 / 3086.54 / 2.12 / 0.18 / 0.002 *XS*

=====

F AT 6920 / 1390 / 6450. / 1697. / 187875. / 1.28 / 33. / 280.

3087.65 / 1.29 / 1.30 / 0.10 / 3087.94 / 3.80 / 0.25 / 0.000 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.176 *** PAGE COUNT= 23,DATE=12/17/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY
INITIAL VALUES ARE: J = 5700, H = 3076.80

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

R ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

D ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

E ,KU/KD < 0.7 OR > 1.4

,USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY

PAGE 1 OF 1

=====

SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 6700. / 1122. / 154531. / 1.31 / 103. / 324.

3076.80 / 0.73 / / 3077.52 / 5.97 / 0.40 / *IS*

DUM 2 AT 500 / 500 / 6700. / 1109. / 152654. / 1.30 / 103. / 323.

3077.74 / 0.74 / 0.95 / 0.01 / 3078.48 / 6.04 / 0.41 / -0.000 *XS*

DUM 3 AT 1000 / 500 / 6700. / 1102. / 151518. / 1.30 / 103. / 322.

3078.71 / 0.75 / 0.97 / 0.00 / 3079.46 / 6.08 / 0.41 / -0.000 *XS*

DUM 4 AT 1500 / 500 / 6700. / 1097. / 150836. / 1.30 / 104. / 322.

3079.69 / 0.75 / 0.98 / 0.00 / 3080.44 / 6.11 / 0.41 / -0.000 *XS*

DUM 5 AT 2000 / 500 / 6700. / 1097. / 150836. / 1.30 / 104. / 322.

3080.69 / 0.75 / 0.99 / 0.0 / 3081.44 / 6.11 / 0.41 / 0.013 *XS*

DUM 6 AT 2500 / 500 / 6700. / 1097. / 150836. / 1.30 / 104. / 322.

3081.69 / 0.75 / 0.99 / 0.0 / 3082.44 / 6.11 / 0.41 / 0.013 *XS*

A AT 3050 / 550 / 6700. / 1117. / 153755. / 1.31 / 103. / 324.

3082.78 / 0.73 / 1.06 / 0.0 / 3083.51 / 6.00 / 0.40 / -0.000 *XS*

=====

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

BO 1 AT 3050 / / 6700. / 975. / 157450. / 1.14 / 16. / 140.

3082.78 / 0.73 / ...1... (0.071) / 6.87 / 0.43 / *BU*

NO ROAD-GRADE DATA

=====

B AT 3247 / 197 / 6700. / 1800. / 217277. / 1.52 / 141. / 651.

3083.44 / 0.33 / 0.26 / 0.0 / 3083.77 / 3.72 / 0.29 / -0.001 *AS*

M = 0.0 / E = 1.00 / K* = 0.41 / 1929. / 234392. / 1.53 / 140. / 652.

3083.79 / 0.29 / / 3084.07 / 3.47 / 0.27 / *AS*

=====

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

C AT 3525 / 278 / 6700. / 2692. / 287050. / 1.00 / 23. / 577.

3084.16 / 0.10 / 0.19 / 0.0 / 3084.26 / 2.49 / 0.22 / 0.000 *XS*

D AT 3970 / 445 / 6700. / 1819. / 159935. / 1.07 / 51. / 438.

3084.53 / 0.23 / 0.44 / 0.06 / 3084.76 / 3.68 / 0.24 / 0.000 *XS*

E AT 5530 / 1560 / 6700. / 3166. / 246095. / 1.32 / 96. / 1151.

3086.45 / 0.09 / 1.78 / 0.0 / 3086.54 / 2.12 / 0.18 / 0.002 *XS*

F AT 6920 / 1390 / 6450. / 1697. / 187866. / 1.28 / 33. / 280.

3087.65 / 0.29 / 1.30 / 0.10 / 3087.94 / 3.80 / 0.26 / 0.000 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 25, DATE=12/17/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100-YR FLOOD 5TH TRY
INITIAL VALUES ARE: Q = 6700. H = 3076.90

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

B KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

D KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

E KU/KD < 0.7 OR > 1.4

USED COMPUTED WSU

=====

WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100 YR FLOOD STR. TRY

PAGE 1 OF 1

=====

SECTION AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

DUM 1 AT 0 / 0 / 6700. / 1144. / 157954. / 1.31 / 103. / 327.

3075.90 / 0.70 / / 3077.60 / 5.86 / 0.39 / *IS*

=====

DUM 2 AT 500 / 500 / 6700. / 1123. / 154763. / 1.31 / 103. / 325.

3077.81 / 0.72 / 0.92 / 0.01 / 3078.53 / 5.97 / 0.40 / 0.000 *XS*

=====

DUM 3 AT 1000 / 500 / 6700. / 1110. / 152801. / 1.30 / 103. / 323.

3078.75 / 0.74 / 0.95 / 0.01 / 3079.49 / 6.03 / 0.41 / 0.000 *XS*

=====

DUM 4 AT 1500 / 500 / 6700. / 1102. / 151608. / 1.30 / 103. / 323.

3079.71 / 0.75 / 0.97 / 0.00 / 3080.46 / 6.08 / 0.41 / -0.000 *XS*

=====

DUM 5 AT 2000 / 500 / 6700. / 1098. / 150893. / 1.30 / 104. / 322.

3080.69 / 0.75 / 0.98 / 0.00 / 3081.44 / 6.10 / 0.41 / 0.000 *XS*

=====

DUM 6 AT 2500 / 500 / 6700. / 1098. / 150893. / 1.30 / 104. / 322.

3081.69 / 0.75 / 0.99 / 0.0 / 3082.44 / 6.10 / 0.41 / 0.014 *XS*

=====

A AT 3050 / 550 / 6700. / 1117. / 153788. / 1.31 / 103. / 324.

3082.78 / 0.73 / 1.06 / 0.0 / 3083.51 / 6.00 / 0.40 / -0.000 *XS*

=====

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

B0 1 AT 3050 / / 6700. / 975. / 157477. / 1.14 / 16. / 140.

3082.78 / 0.73 / ...1... (0.071) / 6.87 / 0.43 / *B0*

=====

NO ROAD-GRADE DATA

RG

B AT 3247 / 197 / 6700. / 1800. / 217314. / 1.52 / 141. / 651.

3083.44 / 0.33 / 0.26 / 0.0 / 3083.77 / 3.72 / 0.29 / -0.001 *AS*

=====

M = 0.0 / E = 1.00 / K* = 0.41 / 1929. / 234419. / 1.53 / 140. / 652.

3083.79 / 0.29 / / 3084.07 / 3.47 / 0.27 / *AS*

=====

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

C AT 3525 / 278 / 6700. / 2692. / 287073. / 1.00 / 23. / 577.

3084.16 / 0.10 / 0.19 / 0.0 / 3084.26 / 2.49 / 0.22 / -0.000 *XS*

=====

D AT 3970 / 445 / 6700. / 1819. / 159447. / 1.07 / 51. / 438.

3084.53 / 0.23 / 0.47 / 0.06 / 3084.76 / 3.68 / 0.24 / 0.000 *XS*

=====

E AT 5530 / 1560 / 6700. / 3166. / 246095. / 1.32 / 96. / 1151.

3086.45 / 0.09 / 1.78 / 0.0 / 3086.54 / 2.12 / 0.18 / 0.001 *XS*

=====

F AT 6920 / 1390 / 6450. / 1697. / 187866. / 1.28 / 33. / 280.

3087.65 / 0.29 / 1.30 / 0.10 / 3087.94 / 3.80 / 0.26 / 0.000 *XS*

=====

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 27, DATE=12/17/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100 YR FLOOD 5TH TRY
INITIAL VALUES ARE: Q = 6700. H = 3077.00

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

B , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

D , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

E , KU/KD < 0.7 OR > 1.4

, USED COMPUTED WSU

===== WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER

100 YR FLOOD 5TH TRY

PAGE 1 OF 1

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

=====
DUM 1 AT 0 / 0 / 6700. / 1166. / 161438. / 1.32 / 102. / 329.
3077.00 / 0.68 / / 3077.68 / 5.74 / 0.39 / *IS*

=====
DUM 2 AT 500 / 500 / 6700. / 1137. / 156938. / 1.31 / 103. / 326.
3077.87 / 0.71 / 0.89 / 0.02 / 3078.58 / 5.89 / 0.40 / -0.000 *XS*

=====
DUM 3 AT 1000 / 500 / 6700. / 1119. / 154134. / 1.31 / 103. / 324.
3078.79 / 0.73 / 0.93 / 0.01 / 3079.52 / 5.99 / 0.40 / 0.000 *XS*

=====
DUM 4 AT 1500 / 500 / 6700. / 1108. / 152408. / 1.30 / 103. / 323.
3079.74 / 0.74 / 0.96 / 0.01 / 3080.48 / 6.05 / 0.41 / -0.001 *XS*

=====
DUM 5 AT 2000 / 500 / 6700. / 1101. / 151372. / 1.30 / 103. / 322.
3080.71 / 0.75 / 0.97 / 0.00 / 3081.46 / 6.09 / 0.41 / 0.000 *XS*

=====
DUM 6 AT 2500 / 500 / 6700. / 1097. / 150747. / 1.30 / 104. / 322.
3081.69 / 0.75 / 0.98 / 0.00 / 3082.44 / 6.11 / 0.41 / -0.000 *XS*

=====
A AT 3050 / 550 / 6700. / 1116. / 153722. / 1.31 / 103. / 324.
3082.78 / 0.73 / 1.07 / 0.0 / 3083.51 / 6.00 / 0.40 / 0.000 *XS*

===== BEGIN BRIDGE ANALYSIS =====
BO 1 AT 3050 / / 6700. / 975. / 157424. / 1.14 / 16. / 140.
3082.78 / 0.73 / ...1... (10.071) / 6.87 / 0.43 / *BO*

=====
NO ROAD-GRADE DATA

RG

=====
B AT 3247 / 197 / 6700. / 1800. / 217253. / 1.53 / 141. / 651.
3083.44 / 0.33 / 0.26 / 0.0 / 3083.77 / 3.72 / 0.29 / -0.000 *AS*

=====
M = 0.0 / E = 1.00 / K* = 0.41 / 1928. / 234338. / 1.53 / 140. / 652.
3083.79 / 0.29 / / 3084.07 / 3.47 / 0.27 / *AS*

===== END BRIDGE ANALYSIS =====
C AT 3525 / 278 / 6700. / 2692. / 286980. / 1.00 / 23. / 577.
3084.16 / 0.10 / 0.19 / 0.0 / 3084.25 / 2.49 / 0.22 / -0.000 *XS*

=====
D AT 3970 / 445 / 6700. / 1819. / 159911. / 1.07 / 51. / 438.
3084.53 / 0.23 / 0.44 / 0.06 / 3084.76 / 3.68 / 0.24 / 0.000 *XS*

=====
E AT 5530 / 1560 / 6700. / 3166. / 246095. / 1.32 / 96. / 1151.
3086.45 / 0.09 / 1.78 / 0.0 / 3086.54 / 2.12 / 0.18 / 0.002 *XS*

=====
F AT 6920 / 1390 / 6450. / 1697. / 187866. / 1.28 / 33. / 280.
3087.65 / 0.29 / 1.30 / 0.10 / 3087.94 / 3.80 / 0.26 / 0.000 *XS*

=====
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.....5.....0.....5.....0.....5.....0.....

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SOUTH FORK VIEW

G- END

1

[illegible]



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##ERROR(S)##
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USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 4, DATE=12/ 7/76

PAGE 1 OF EDITING NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
NO 80	WARNING	STATION	10	IS LESS THAN	STATION	9	
NO 80	WARNING	HSUBO		IS LESS THAN	GMIN		> GMIN

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 5, DATE=12/ 7/76

INPUT SUMMARY FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

18 CROSS SECTIONS SPECIFIED (OR ASSUMED) "

FOUND 10 TYPE 3 CARDS

KEPT 18 CROSS SECTIONS FOR EDITING

18 " " VALID FOR PROPERTY COMPUTATIONS

18 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 20, DATE=12/ 7/76

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY
INITIAL VALUES ARE: Q = 6700. H = 3081.80

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

B	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
D	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
E	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
G	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
H	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
K	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
L	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
M	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 1 OF 2

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	SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEWD	REW
				HV	HF	HE	EG	V	FN	ACC
A	AT	0 /	0 /	6700.	920.	124537.	1.25	107.	302.	
		3081.80 /	1.03 /			3082.83 /	7.28 /	0.49 /		*IS*
B	AT	247 /	247 /	6700.	1617.	190219.	1.57	142.	650.	
		3082.88 /	0.42 /	0.47 /	0.0	3083.30 /	4.14 /	0.33 /	-0.001	*XS*
C	AT	525 /	278 /	6700.	2302.	223692.	1.02	26.	576.	
		3083.46 /	0.13 /	0.29 /	0.0	3083.59 /	2.91 /	0.27 /	-0.000	*XS*
D	AT	970 /	445 /	6700.	1627.	136807.	1.09	55.	437.	
		3084.03 /	0.29 /	0.65 /	0.08	3084.32 /	4.12 /	0.28 /	-0.001	*XS*
E	AT	2530 /	1560 /	6700.	3094.	238397.	1.34	96.	1151.	
		3086.37 /	0.10 /	2.15 /	0.0	3086.47 /	2.17 /	0.19 /	0.002	*XS*
F	AT	3920 /	1390 /	6450.	1690.	186863.	1.28	33.	280.	
		3087.62 /	0.29 /	1.35 /	0.10	3087.91 /	3.82 /	0.26 /	-0.004	*XS*
G	AT	5260 /	1340 /	6450.	928.	99649.	1.23	38.	163.	
		3090.30 /	0.92 /	2.99 /	0.32	3091.22 /	6.95 /	0.44 /	0.001	*XS*
H	AT	6195 /	935 /	6270.	1613.	179586.	1.26	41.	339.	
		3093.05 /	0.30 /	2.11 /	0.0	3093.35 /	3.89 /	0.26 /	0.010	*XS*
I	AT	8070 /	1875 /	6270.	1342.	160622.	1.30	45.	269.	
		3095.53 /	0.44 /	2.56 /	0.07	3095.98 /	4.67 /	0.29 /	0.000	*XS*
J	AT	9385 /	1315 /	6270.	1606.	203332.	1.38	5.	236.	
		3097.23 /	0.33 /	1.58 /	0.0	3097.56 /	3.90 /	0.25 /	0.000	*XS*
K	AT	10895 /	1510 /	6270.	5925.	707573.	1.05	29.	1066.	
		3097.95 /	0.02 /	0.41 /	0.0	3097.97 /	1.06 /	0.08 /	0.000	*XS*
L	AT	12435 /	1540 /	6140.	2684.	228671.	1.92	30.	869.	
		3098.25 /	0.16 /	0.37 /	0.07	3098.41 /	2.29 /	0.24 /	0.000	*XS*
M	AT	13545 /	1110 /	6140.	1392.	126874.	1.41	330.	1015.	
		3099.56 /	0.43 /	1.44 /	0.14	3099.99 /	4.41 /	0.35 /	0.000	*XS*
N-TW	AT	14075 /	530 /	6140.	1375.	154193.	1.26	794.	1156.	
		3100.62 /	0.39 /	1.02 /	0.0	3101.01 /	4.47 /	0.33 /	0.002	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
NO 80	AT	14075 /		6140.	678.	93295.	1.00	0.	58.	
		3100.62 /	1.28 /		...1... (0.017)		9.06 /	0.47 /		*B0*

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD. 2ND TRY

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

NO ROAD OVERFLOW.

RG

0 APP AT 14150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

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END BRIDGE ANALYSIS

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 76.170 *** PAGE COUNT= 23, DATE=12/ 7/76

PAGE 1 OF 23 PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY
INITIAL VALUES ARE: Q = 6700. H = 3082.00

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

B	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
D	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
E	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
G	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
H	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
K	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
L	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
M	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 1 OF 2

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	SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
A		AT	3082.00	0.96	0	6700.	956.	129836.	1.26	106.	307.	*IS*
B		AT	3083.00	0.40	0.44	0.0	3083.40	4.05	0.32	-0.000	651.	*XS*
C		AT	3083.54	0.13	0.28	0.0	3083.67	2.85	0.26	-0.000	576.	*XS*
D		AT	3084.09	0.28	0.62	0.08	3084.37	4.06	0.27	-0.000	437.	*XS*
E		AT	3086.38	0.10	2.11	0.0	3086.48	2.16	0.19	0.001	1151.	*XS*
F		AT	3087.63	0.29	1.34	0.10	3087.92	3.81	0.26	0.002	280.	*XS*
G		AT	3090.30	0.92	2.99	0.32	3091.23	6.95	0.44	0.000	163.	*XS*
H		AT	3093.05	0.30	2.11	0.0	3093.35	3.89	0.26	0.012	339.	*XS*
I		AT	3095.54	0.44	2.55	0.07	3095.98	4.67	0.29	0.000	269.	*XS*
J		AT	3097.23	0.33	1.58	0.0	3097.56	3.90	0.25	0.000	236.	*XS*
K		AT	3097.95	0.02	0.41	0.0	3097.97	1.06	0.08	0.000	1066.	*XS*
L		AT	3098.25	0.16	0.37	0.07	3098.41	2.29	0.24	0.000	869.	*XS*
M		AT	3099.56	0.43	1.44	0.14	3099.99	4.41	0.35	-0.000	1015.	*XS*
N-TW		AT	3100.62	0.39	1.02	0.0	3101.01	4.47	0.33	0.002	1156.	*XS*
===== BEGIN BRIDGE ANALYSIS =====												
NO 80		AT	3100.62	1.28	...	6140.	678.	93295.	1.00	0.	58.	*80*

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

NO ROAD OVERFLOW

RG

0 APP AT 14150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

=====

END BRIDGE ANALYSIS

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY
INITIAL VALUES ARE: Q = 6700. H = 3082.20

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

B	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
D	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
E	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
G	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
H	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
K	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
L	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
M	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 1 OF 2

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	SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	LEW	REW	ID
A		0 /	0 /	6700. /	993. /	135323. /	1.27 /	105. /	311. /				
		3082.20 /	0.90 /		3083.10 /	6.74 /	0.46 /						*IS*
B		247 /	247 /	6700. /	1696. /	201742. /	1.55 /	142. /	651. /				
		3083.13 /	0.38 /	0.41 /	0.0 /	3083.50 /	3.95 /	0.31 /	-0.001 /				*XS*
C		525 /	278 /	6700. /	2395. /	237991. /	1.01 /	25. /	577. /				
		3083.63 /	0.12 /	0.26 /	0.0 /	3083.75 /	2.80 /	0.26 /	-0.013 /				*XS*
D		970 /	445 /	6700. /	1669. /	141545. /	1.09 /	54. /	437. /				
		3084.14 /	0.27 /	0.59 /	0.07 /	3084.42 /	4.01 /	0.27 /	0.000 /				*XS*
E		2530 /	1560 /	6700. /	3114. /	240495. /	1.33 /	96. /	1151. /				
		3086.39 /	0.10 /	2.06 /	0.0 /	3086.49 /	2.15 /	0.19 /	0.016 /				*XS*
F		3920 /	1390 /	6450. /	1695. /	187617. /	1.28 /	33. /	280. /				
		3087.64 /	0.29 /	1.33 /	0.10 /	3087.93 /	3.81 /	0.26 /	0.014 /				*XS*
G		5260 /	1340 /	6450. /	928. /	99738. /	1.23 /	38. /	163. /				
		3090.31 /	0.92 /	2.98 /	0.32 /	3091.23 /	6.95 /	0.44 /	0.000 /				*XS*
H		6195 /	935 /	6270. /	1615. /	179823. /	1.26 /	41. /	339. /				
		3093.06 /	0.30 /	2.11 /	0.0 /	3093.35 /	3.88 /	0.26 /	0.015 /				*XS*
I		8070 /	1875 /	6270. /	1342. /	160672. /	1.30 /	45. /	269. /				
		3095.54 /	0.44 /	2.55 /	0.07 /	3095.98 /	4.67 /	0.29 /	0.000 /				*XS*
J		9385 /	1315 /	6270. /	1606. /	203351. /	1.38 /	5. /	236. /				
		3097.23 /	0.33 /	1.58 /	0.0 /	3097.56 /	3.90 /	0.25 /	0.000 /				*XS*
K		10895 /	1510 /	6270. /	5925. /	707622. /	1.05 /	29. /	1066. /				
		3097.95 /	0.02 /	0.41 /	0.0 /	3097.97 /	1.06 /	0.08 /	-0.000 /				*XS*
L		12435 /	1540 /	6140. /	2685. /	228695. /	1.92 /	30. /	869. /				
		3098.25 /	0.16 /	0.37 /	0.07 /	3098.41 /	2.29 /	0.24 /	0.000 /				*XS*
M		13545 /	1110 /	6140. /	1392. /	126865. /	1.41 /	330. /	1015. /				
		3099.56 /	0.43 /	1.44 /	0.14 /	3099.99 /	4.41 /	0.35 /	-0.000 /				*XS*
N-TW		14075 /	530 /	6140. /	1375. /	154193. /	1.26 /	794. /	1156. /				
		3100.62 /	0.39 /	1.02 /	0.0 /	3101.01 /	4.47 /	0.33 /	0.002 /				*XS*
===== BEGIN BRIDGE ANALYSIS =====													
NO BO AT		14075 /		6140. /	678. /	93295. /	1.00 /	0. /	58. /				
		3100.62 /	1.28 /	...	1... (0.017) /	9.06 /	0.47 /						*BO*

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *1D*

=====

NO ROAD OVERFLOW

RG

0 APP AT 14150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

=====

END BRIDGE ANALYSIS

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END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY
INITIAL VALUES ARE: Q = 6700. H = 3082.30

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

B	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
D	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
E	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
G	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
H	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
K	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
L	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU
M	.KU/KD < 0.7 OR > 1.4		.USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 1 OF 2

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	SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	LEW	REW	ID
A		0	3082.30	0.87	0	6700.	1014.	138346.	1.27	105.	313.		*IS*
B		247	3083.19	0.37	0.39	6700.	1717.	204858.	1.54	141.	651.		*XS*
C		525	3083.69	0.12	0.25	6700.	2430.	243687.	1.01	24.	577.		*XS*
D		970	3084.19	0.27	0.57	6700.	1687.	143656.	1.08	54.	437.		*XS*
E		2530	3086.39	0.10	2.03	6700.	3111.	240198.	1.33	96.	1151.		*XS*
F		3920	3087.64	0.29	1.33	6450.	1694.	187511.	1.28	33.	280.		*XS*
G		5260	3090.31	0.92	2.98	6450.	928.	99726.	1.23	38.	163.		*XS*
H		6195	3093.06	0.30	2.11	6270.	1614.	179792.	1.26	41.	339.		*XS*
I		8070	3095.54	0.44	2.55	6270.	1342.	160663.	1.30	45.	269.		*XS*
J		9385	3097.23	0.33	1.58	6270.	1606.	203351.	1.38	5.	236.		*XS*
K		10895	3097.95	0.02	0.41	6270.	5925.	707622.	1.05	29.	1066.		*XS*
L		12435	3098.25	0.16	0.37	6140.	2685.	228695.	1.92	30.	869.		*XS*
M		13545	3099.56	0.43	1.44	6140.	1392.	126865.	1.41	330.	1015.		*XS*
N-TW		14075	3100.62	0.39	1.02	6140.	1375.	154193.	1.26	794.	1156.		*XS*
===== BEGIN BRIDGE ANALYSIS =====													
NO BO	AT	14075	3100.62	1.28		6140.	678.	93295.	1.00	0.	58.		*BO*
							...	9.06	0.47				

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

NO ROAD OVERFLOW

R6

0 APP AT 14150 / 75 / 6140. / 1791. / 190611. / 2.17 / 199. / 1243.

3100.71 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

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

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY
INITIAL VALUES ARE: Q = 6700. H = 3082.40

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

B	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
D	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
E	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
G	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
H	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
K	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
L	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU
M	,KU/KD < 0.7 OR > 1.4	,USED COMPUTED WSU

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 1 OF 2

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	SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
		WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
A	AT	0	0	6700.	1035.	141463.	1.28	105.	316.	
		3082.40	0.84			3083.24	6.47	0.44		*IS*
B	AT	247	247	6700.	1739.	208049.	1.54	141.	651.	
		3083.26	0.36	0.38	0.0	3083.61	3.85	0.30	-0.000	*XS*
C	AT	525	278	6700.	2467.	249535.	1.01	24.	577.	
		3083.76	0.12	0.24	0.0	3083.87	2.72	0.25	0.020	*XS*
D	AT	970	445	6700.	1704.	145661.	1.08	54.	437.	
		3084.23	0.26	0.55	0.07	3084.49	3.93	0.26	-0.000	*XS*
E	AT	2530	1560	5700.	3117.	240793.	1.33	96.	1151.	
		3086.40	0.10	2.00	0.0	3086.49	2.15	0.19	0.002	*XS*
F	AT	3920	1390	6450.	1696.	187724.	1.28	33.	280.	
		3087.65	0.29	1.33	0.10	3087.93	3.80	0.26	0.016	*XS*
G	AT	5260	1340	6450.	929.	99754.	1.23	38.	163.	
		3090.31	0.92	2.98	0.32	3091.23	6.95	0.44	0.000	*XS*
H	AT	6195	935	6270.	1615.	179864.	1.26	41.	339.	
		3093.06	0.30	2.11	0.0	3093.35	3.88	0.26	0.016	*XS*
I	AT	8070	1875	6270.	1842.	160672.	1.30	45.	269.	
		3095.54	0.44	2.55	0.07	3095.98	4.07	0.29	0.000	*XS*
J	AT	9385	1315	6270.	1606.	203351.	1.38	5.	236.	
		3097.23	0.33	1.58	0.0	3097.56	3.90	0.25	0.000	*XS*
K	AT	10895	1510	6270.	5925.	707622.	1.05	29.	1066.	
		3097.95	0.02	0.41	0.0	3097.97	1.06	0.08	-0.000	*XS*
L	AT	12435	1540	6140.	2685.	226695.	1.92	30.	869.	
		3098.25	0.16	0.37	0.07	3098.41	2.29	0.24	0.000	*XS*
M	AT	13545	1110	6140.	1392.	126865.	1.41	330.	1015.	
		3099.56	0.43	1.44	0.14	3099.99	4.41	0.35	-0.000	*XS*
N-TW	AT	14075	530	6140.	1375.	154193.	1.26	794.	1156.	
		3100.62	0.39	1.02	0.0	3101.01	4.47	0.33	0.002	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
NO 80	AT	14075		6140.	678.	93295.	1.00	0.	58.	
		3100.62	1.28	...	1.0017	9.06	0.47			*B0*

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

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NO ROAD OVERFLOW

RG

0 APP AT 14150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.83 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

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END BRIDGE ANALYSIS

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY
 INITIAL VALUES ARE: Q = 6700. H = 3082.50

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

B	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
D	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
E	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
G	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
H	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
K	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
L	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU
M	, KU/KD < 0.7 OR > 1.4	, USED COMPUTED WSU

===== WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY PAGE 1 OF 2 =====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
A	AT	0	0	6700	1056	144642	1.29	104	318
3082.50	0.81			3083.31	6.34	0.43		*IS*	
B	AT	247	247	6700	1761	211327	1.53	141	651
3083.32	0.35	0.36	0.0	3083.67	3.81	0.29	-0.000	*XS*	
C	AT	525	278	6700	2485	252462	1.01	24	577
3083.79	0.11	0.23	0.0	3083.90	2.70	0.25	-0.000	*XS*	
D	AT	970	445	6700	1712	146715	1.08	54	437
3084.26	0.26	0.54	0.07	3084.51	3.91	0.26	-0.000	*XS*	
E	AT	2530	1560	6700	3120	241118	1.33	96	1151
3086.40	0.10	1.98	0.0	3086.50	2.15	0.19	0.002	*XS*	
F	AT	3920	1390	6450	1697	187840	1.28	33	280
3087.65	0.29	1.33	0.10	3087.94	3.80	0.26	0.019	*XS*	
G	AT	5260	1340	6450	929	99765	1.23	38	163
3090.31	0.92	2.97	0.32	3091.23	6.95	0.44	0.000	*XS*	
H	AT	6195	935	6270	1615	179895	1.26	41	339
3093.06	0.30	2.11	0.0	3093.35	3.88	0.26	0.017	*XS*	
I	AT	8070	1875	6270	1342	160680	1.30	45	269
3095.54	0.44	2.55	0.07	3095.98	4.67	0.29	0.000	*XS*	
J	AT	9385	1315	6270	1606	203351	1.38	5	236
3097.23	0.33	1.58	0.0	3097.56	3.90	0.25	-0.000	*XS*	
K	AT	10895	1510	6270	5925	707622	1.05	29	1066
3097.95	0.02	0.41	0.0	3097.97	1.06	0.08	-0.000	*XS*	
L	AT	12435	1540	6140	2683	228695	1.92	30	869
3098.25	0.16	0.37	0.07	3098.41	2.29	0.24	0.000	*XS*	
M	AT	13545	1110	6140	1392	126865	1.41	330	1015
3099.56	0.43	1.44	0.14	3099.99	4.41	0.35	-0.000	*XS*	
N-TW	AT	14075	530	6140	1375	154193	1.26	794	1156
3100.62	0.39	1.02	0.0	3101.01	4.47	0.33	0.002	*XS*	
===== BEGIN BRIDGE ANALYSIS =====									
NO 80	AT	14075		6140	678	93295	1.00	0	58
3100.62	1.28	9.06	0.47		*80*	

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WATER-SURFACE PROFILE FOR: SOUTH FORK NEW RIVER 100YR FLOOD 2ND TRY

PAGE 2 OF 2

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW

WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*

=====

NO ROAD OVERFLOW

RG

0 APP AT 14150 / 75 / 6140. / 1791. / 196611. / 2.17 / 199. / 1243.

3100.70 / 0.40 / 0.09 / 0.00 / 3101.10 / 3.43 / 0.34 / -0.005 *AS*

=====

M = 0.41 / E = 0.18 / K* = 0.77 / 2468. / 245542. / 2.02 / 92. / 1250.

3101.82 / 0.27 / / 3102.09 / 2.49 / 0.28 / *AS*

=====

END BRIDGE ANALYSIS

END OF THIS PROFILE