

Livville

River

	1034	1210	1034.1	1210	1034.9	1210	1035	1208.2	1040
GR1204.0	1050	1200.7	1060	1199.4	1070	1199.3	1075	1199.3	1075.1
GR1199.3	1075.9	1199.3	1076	1199.2	1080	1197.3	1090	1200.6	1100
GR1200.7	1110	1202	1114.5	1202	1114.6	1202	1115.4	1202	1115.5
GR1202.5	1120	1204.0	1125	1204.7	1130	1211.2	1140	1210.3	1150
GR1210.3	1154	1210.3	1154.1	1210.1	1156.9	1210.1	1157	1210.1	1160
GR1210.9	1170	1210.9	1180	1210.9	1190	1210.9	1194	1210.9	1194.1
GR1208.8	1196.9	1208.8	1197	1208.8	1200	1211.0	1210	1210.7	1220
GR1206.6	1230	1206.6	1234.7	1206.6	1234.8	1206.0	1237.6	1206.0	1237.7
GR1206.0	1240	1206.0	1250	1207.6	1260	1214.4	1270	1218.1	1275
GR1218.2	1276	1221.0	1277	1221.5	1336	1240	1360		
NC	.04	.03	.01	.01					
ET						9.1		460	1276
X1	3516	0	0	1	1	1			
X3	10						1213.0	1221	
BT	-30	999	1221.4	1221.4	1000	1221.4	1220.7	1001	1224.3
BT	0	1034	1224.3	1218.8	1034.1	1224.3	1210.0	1034.9	1224.3
BT	0	1035	1224.3	1218.8	1075	1224.2	1218.7	1075.1	1224.2
BT	0	1075.9	1224.2	1199.3	1076	1224.2	1218.7	1114.5	1224.2
BT	0	1114.6	1224.2	1202	1115.4	1224.2	1202	1115.5	1224.2
BT	0	1154	1224.1	1218.5	1154.1	1224.1	1210.3	1156.9	1224.1
BT	0	1157	1224.1	1218.5	1194	1224.0	1218.4	1194.1	1224.0
BT	0	1196.9	1224.0	1208.8	1197	1224.0	1218.4	1234.7	1224.0
BT	0	1234.8	1224.0	1206.6	1237.6	1224.0	1206.0	1237.7	1224.0
BT	0	1275	1221.0	1218.2	1276	1221.0	1218.2	1277	1221.0
ET						9.1		460	1276
X1	3534	0	0	18	18	18			
X2			0	0		1			
X3	10						1213.0	1221	
NC	.07	.06	.04	.1	.3				
ET						9.1		460	1276
X1	3535	0	0	1	1	1			
X3	10						1213.0	1221	
ET						9.1		450	1150
X1	3560	17	1040	1130	25	25			
X4	1	1213	600						
GR	1240	0	1213	100	1214	835	1214	880	1213
GR	1212	1020	1208	1040	1204	1050	1197.2	1060	1197.2
GR	1204	1125	1205	1130	1206	1150	1208	1160	1221
GR	1222	1240	1240	1260					
ET						9.1		450	1150
X1	3585	17	1040	1130	25	25			
X4	1	1213	600						
GR	1240	0	1213	100	1214	835	1214	880	1213
GR	1212	1020	1208	1040	1204	1050	1198	1060	1198
GR	1204	1125	1205	1130	1206	1150	1208	1160	1221
GR	1222	1240	1240	1260					
ET						9.1		450	1150
X1	3645	19	1040	1132	160	160			
GR	1240	0	1213	100	1213	600	1214	835	1214
GR	1213	1000	1212	1020	1209	1040	1204.5	1044	1203.5
GR	1199	1072	1199	1088	1203.0	1112	1206.0	1132	1206.8
GR1208.6	1160	1221	1180	1222	1240	1240	1260		
ET						9.1		500	1150
X1	3900	19	1040	1132	155	155			
GR	1240	0	1213	100	1213	600	1214	835	1214
GR	1213	1000	1212	1020	1209	1040	1206	1044	1205
GR1203.0	1072	1203.0	1088	1204.5	1112	1206.0	1132	1206.8	1151
GR1208.6	1160	1221	1180	1222	1240	1240	1260		
NC	.10	.09	.05						
ET						9.1		530	1123
X1	4000	9	1050	1120	100	100			
GR	1240	300	1214	400	1214.3	1000	1206.9	1030	1206.9
GR1202.0	1060	1202.0	1113	1208.5	1120	1240	1130		
ET						9.1		530	1124
X1	4200			200	200	200			
ET						9.1		530	1124
X1	4400	9	1050	1120	200	200			
GR	1240	300	1214	400	1214.3	1000	1206.9	1030	1206.9
GR1205.0	1060	1205.0	1113	1208.5	1120	1240	1130		
QT	8	10900	22340	29340	52655	29340	29340	4120	14200
ET						9.1		600	1300
X1	4750	17	1119	1258	350	350			
GR	1240	400	1215	500	1213	800	1211.0	1090	1212.2
GR1215.6	1100	1215.6	1119	1211.8	1125	1209.5	1154	1208	1160
GR	1208	1230	1209.5	1236	1213.3	1258	1215.6	1288	1218.5
GR	1219	1350	1240	1360					
ET						9.1		850	1400
X1	5200	17	1119	1250	450	450			
GR	1240	600	1218	650	1218	800	1218	1000	1218
GR	1218	1100	1217.6	1119	1213.8	1125	1211.5	1154	1211
GR	1211	1210	1212.5	1226	1215.3	1230	1220	1288	1220
GR	1220	1350	1240	1360					
ET						9.1		1000	1480
X1	5600	17	1119	1220	400	400			
GR	1240	720	1220	800	1218	800	1218.0	1000	1218.0
GR	1218	1100	1218	1119	1216.0	1125	1214.5	1154	1213
GR	1218	1100	1218	1119	1216.0	1125	1214.5	1154	1213

	1200	1214.1	1218	1224	1220	1224	1288	1224	1337
GR 1215	1750	1240	1800						
NC .07	.09	.05							
ET						9.1		5	1100
X1 6700	15	5	90	1100	1100	1100			
GR 1250	0	1225	5	1219.9	10	1220.4	82	1222.4	90
GR1225.2	116	1227.4	132	1230.9	167	1232.0	270	1233.3	305
GR 1233	840	1230	850	1233	860	1233	1800	1240	1900
ET						9.1		30	630
X1 7600	15	30	120	900	200	900			
GR 1250	0	1232	30	1226.4	40	1227.8	110	1229.8	120
GR1231.6	145	1233.4	165	1234.9	175	1235.0	270	1235	310
GR 1235	540	1232	550	1235	1100	1240	1200	1250	1400
NC .09	.09								
ET						9.1		1	300
X1 8600	17	1	111	1000	1000	1000			
GR 1280	0	1236	1	1232.6	15	1232.6	94	1235.7	111
GR1239.1	120	1242.2	137	1241.5	155	1243.4	176	1243.2	253
GR1244.3	296	1243.5	428	1243.6	476	1243.4	503	1245.0	536
GR1246.1	597	1280	600						
NH 5	.09	180	.045	215	.07	450	.045	500	.09
NH 1100									
ET						9.1		150	510
X1 9500	16	180	500	900	900	900			
X4 1	1243	100							
GR 1280	0	1243	180	1239.3	185	1239.3	210	1242.4	215
GR 1245	220	1245	450	1239	455	1239	495	1243	500
GR1245.8	510	1248.9	525	1253	550	1253	600	1253	1000
GR 1280	1100								
NC .09	.09	.045							
ET						9.1		1	500
X1 10400	17	1	111	900	900	900			
GR 1280	0	1249	1	1245.3	15	1245.3	94	1248.4	111
GR1251.8	120	1254.9	137	1254.2	155	1256.1	176	1255.9	253
GR1257.0	296	1256.2	428	1251.3	476	1256.1	503	1257.7	536
GR1259.1	597	1280	600						
ET						9.1		50	350
X1 12550	10	130	227	2150	2150	2150			
GR 1290	0	1268	1	1267.7	100	1265.6	.130	1262.5	191
GR1262.5	222	1265.1	227	1264.7	331	1265	360	1290	365
QT 8	10580	21690	28490	51150	28490	28490	4120	14200	
ET						9.1		200	600
X1 15000	14	377	523	2450	2450	2450			
GR 1300	0	1295	1	1292	99	1289	100	1288.3	345
GR1288.0	365	1284.8	377	1280.8	385	1280.8	514	1285.7	523
GR1286.4	571	1287.9	580	1288.0	600	1300	601		
ET						9.1		24	234
X1 17250	8	117	234	2250	2250	2250			
GR 1320	0	1305	20	1292.4	100	1291.9	117	1291.8	145
GR1291.8	203	1310.0	234	1309.5	240				

BURKE COUNTY LMM CESAW-PD WRB 11/91
100-YR ENCHROACHED
LINVILLE RIVER BURKE CO.

J1 7
J2 15
J1 -1
J2 1206.71
ER
EOT..

BURKE COUNTY LMM CESAW-PD WRB 11/91
100-YEAR NATURAL
LINVILLE RIVER BURKE CO.

J1 4
J2 3
J1 -1
J2 1206.71
ER

BURKE COUNTY LMM CESAW-PD WRB 11/91
500-YEAR NATURAL
LINVILLE RIVER BURKE CO.

J1 5
J2 15
J1 -1
J2 1208.55
ER

 * HEC-2 WATER SURFACE PROFILES *
 * Version 4.6.0; February 1991 *
 * RUN DATE 08JAN92 TIME 07:23:03 *

LINVILLE RIVER

NATURAL S

BURKE CO. LMM

```

X   X   XXXXXX   XXXXX   XXXXX
X   X   X   X   X   X
X   X   X   X   X   X
XXXXXX   XXXX   X   XXXXX   XXXXX
X   X   X   X   X   X
X   X   X   X   X   X
X   X   XXXXXX   XXXXX   XXXXXX

```

08JAN92 07:23:03

PAGE 1

THIS RUN EXECUTED 08JAN92 07:23:03

 HEC-2 WATER SURFACE PROFILES
 Version 4.6.0; February 1991.

T1 BURKE COUNTY LMM CESAW-PD WRB 11/91
 T2 10-YEAR NATURAL
 T3 LINVILLE RIVER BURKE CO.

J1 ICHECK INO NINV IDIR STRT METRIC HVINS Q WSEL FQ
 2 1202.45
 J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 1 -1

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
 150 0

NC	.05	.07	.03	.1	.3					
QT	8	11350	23225	30500	54710	30500	30500	4120	14200	1660
ET							9.1		860	
X1	10	13	2300	2429	10	10	10			
GR	1240	500	1210	600	1203	2030	1203	2200	1200	2300
GR	1194	2305	1194	2380	1194	2400	1194	2424	1201.0	2428
GR	1203	2452	1203	2950	1240	3000				
ET							9.1		860	1660
X1	11				1	1	1			
ET							9.1		860	1660
X1	13				2	2	2			
ET							9.1		860	1660
X1	15				2	2	2			
ET							9.1		860	1660
X1	20				5	5	5		.02	
ET							9.1		860	1660
X1	60				40	40	40		.08	
NC	.06	.07	.04	.1	.3					
ET							9.1		860	1660

08JAN92 07:23:03

PAGE 2

*** SURVEYED SECTION #1 10/91
 *** FIELD 8 DT 15 2-YR; FIELD 9 DT 15 JULY 89 FLOOD

X1	2200	24	1328	1428	2140	2140	2140
GR	1240	0	1210	100	1204	1070	1035

ET	1196.8	1153	1199.7	1189	1206.7	1210	1204.9	1238	1199.7	1261
GR	1194.6	1275	1196.7	1297	1198.0	1308	1199.6	1328	1196.6	1347
GR	1201.2	1380	1194.6	1400	1196.6	1424	1201.0	1428	1202.8	1452
		1479	1203	1541	1205	1700	1240	2000		
ET							9.1		860	1660
X1	2300	24	1328	1428	100	100	100		.20	
GR	1240	0	1210	100	1209	1030	1209	1091	1208	1134
GR	1207	1153	1207	1189	1206.7	1210	1204.9	1238	1199.7	1261
GR	1196.8	1275	1196.7	1297	1198.0	1308	1199.6	1328	1196.6	1347
GR	1194.6	1380	1194.6	1400	1196.6	1424	1201.0	1428	1202.8	1452
GR	1201.2	1479	1203	1541	1205	1700	1240	2000		

ET							9.1		860	1660
X1	2650	24	1328	1428	350	350	350			
GR	1240	0	1210	100	1210	1030	1210	1091	1209	1134
GR	1208	1153	1208	1189	1208	1210	1206	1238	1200.8	1261
GR	1197.9	1275	1197.8	1297	1199.1	1308	1200.7	1328	1197.7	1347
GR	1195.7	1380	1195.7	1400	1197.7	1424	1201.0	1428	1205.8	1452
GR	1202.2	1479	1204	1541	1206	1700	1240	2000		

ET							9.1		860	1660
X1	3000	24	1328	1428	350	350	350			
GR	1240	0	1210	100	1211	1030	1211	1091	1210	1134
GR	1209	1153	1209	1189	1209	1210	1207	1238	1201.7	1261
GR	1198.8	1275	1198.7	1297	1200.0	1308	1201.6	1328	1198.6	1347
GR	1196.6	1380	1196.6	1400	1198.6	1424	1203.0	1428	1204.8	1452
GR	1203.2	1479	1205	1541	1207	1700	1240	2000		

NC	.06	.07								
ET							9.1		480	1250
X1	3220	12	1030	1130	220	220	220			
X4	1	1211	600							
GR	1240	0	1211	100	1211	835	1210	1030	1198.3	1050
GR	1198.3	1125	1202	1130	1204	1250	1206.6	1260	1221	1280
GR	1222	1340	1240	1360						

ET							9.1		460	1240
X1	3440	12	1030	1130	220	220	220			
X4	1	1211	600							
GR	1240	0	1211	100	1211	835	1211	1030	1200.0	1050
GR	1200.0	1125	1203	1130	1205	1250	1207.6	1260	1221	1280
GR	1222	1340	1240	1360						

ET							9.1		460	1276
X1	3515	64	1000	1276	75	75	75			
X3	10							1213.0	1221	
X4	1	1213	600							
GR	1240	0	1213	100	1214.7	835	1219.8	680	1221.4	999
GR	1220.7	1000	1218.4	1001	1217.8	1010	1215.8	1020	1212.5	1030

08JAN92

07:23:03

PAGE 3

GR	1210	1034	1210	1034.1	1210	1034.9	1210	1035	1208.2	1040
GR	1204.0	1050	1200.7	1060	1199.4	1070	1199.3	1075	1199.3	1075.1
GR	1199.3	1075.9	1199.3	1076	1199.2	1080	1197.3	1090	1200.6	1100
GR	1200.7	1110	1202	1114.5	1202	1114.6	1202	1115.4	1202	1115.5
GR	1202.5	1120	1204.0	1125	1204.7	1130	1211.2	1140	1210.3	1150
GR	1210.3	1154	1210.3	1154.1	1210.1	1156.9	1210.1	1157	1210.1	1160
GR	1210.9	1170	1210.9	1180	1210.9	1190	1210.9	1194	1210.9	1194.1
GR	1208.8	1196.9	1208.8	1197	1208.8	1200	1211.0	1210	1210.7	1220
GR	1206.6	1230	1206.6	1234.7	1206.6	1234.8	1206.0	1237.6	1206.0	1237.7
GR	1206.0	1240	1206.0	1250	1207.6	1260	1214.4	1270	1218.1	1275
GR	1218.2	1276	1221.0	1277	1221.5	1336	1240	1360		

NC	.04	.04	.03	.01	.01					
ET							9.1		460	1276
X1	3516	0	0	0	1	1	1			
X3	10							1213.0	1221	
BT	-50	999	1221.4	1221.4	1000	1221.4	1220.7	1001	1224.3	1218.8
BT	0	1034	1224.3	1218.8	1034.1	1224.3	1210.0	1034.9	1224.3	1210
BT	0	1035	1224.3	1218.8	1075	1224.2	1218.7	1075.1	1224.2	1199.3
BT	0	1075.9	1224.2	1199.3	1076	1224.2	1218.7	1114.5	1224.2	1218.6
BT	0	1114.6	1224.2	1202	1115.4	1224.2	1202	1115.5	1224.2	1218.6
BT	0	1154	1224.1	1218.5	1154.1	1224.1	1210.3	1156.9	1224.1	1210.1
BT	0	1157	1224.1	1218.5	1194	1224.0	1218.4	1194.1	1224.0	1210.9
BT	0	1196.9	1224.0	1208.8	1197	1224.0	1218.4	1234.7	1224.0	1218.3
BT	0	1234.8	1224.0	1206.6	1237.6	1224.0	1206.0	1237.7	1224.0	1218.3
BT	0	1275	1221.0	1218.2	1276	1221.0	1218.2	1277	1221.0	1221.0

ET							9.1		460	1276
X1	3534	0	0	0	18	18	16			
X2			0	0	0		1			
X3	10							1213.0	1221	

NC	.07	.06	.04	.1	.3					
----	-----	-----	-----	----	----	--	--	--	--	--

[illegible]

	540	1232	550	1235	1100	1240	1200	1250	1400
NC	.09	.09							
ET						9.1		1	300
X1	8600	17	1	111	1000	1000			
GR	1280	0	1236	1	1232.6	15	1232.6	1235.7	111
GR	1239.1	120	1242.2	137	1241.5	155	1243.4	1243.2	253
GR	1244.3	296	1243.5	428	1243.6	476		1245.0	536
GR	1246.1	597	1280	600					
NH	5	.09	180	.045	215	.07	450	.045	500
NH	1100								.09
ET						9.1		150	510
X1	9500	16	180	500	900	900			
X4	1	1243	100						
GR	1280	0	1243	180	1239.3	185	1239.3	210	1242.4
GR	1245	220	1245	450	1239	455	1239	495	1243
GR	1245.8	510	1248.9	525	1253	550	1253	600	1253
GR	1280	1100							1000
NC	.09	.09	.045						
ET						9.1		1	500
X1	10400	17	1	111	900	900			
GR	1280	0	1249	1	1245.3	15	1245.3	94	1248.4
GR	1251.8	120	1254.9	137	1254.2	155	1256.1	176	1255.9
GR	1257.0	296	1256.2	428	1251.3	476	1256.1	503	1257.7
GR	1259.1	597	1280	600					
ET						9.1		50	350
X1	12550	10	130	227	2150	2150	2150		
GR	1290	0	1268	1	1267.7	100	1265.6	130	1262.5
GR	1262.5	222	1265.1	227	1264.7	331	1265	360	1290
BT	8	10580	21690	28490	51150	28490	28490	4120	14200
ET						9.1		200	600
X1	15000	14	377	523	2450	2450	2450		
GR	1300	0	1295	1	1292	59	1289	100	1288.3
GR	1288.0	365	1284.8	377	1280.8	385	1280.8	514	1285.7
GR	1286.4	571	1287.9	580	1288.0	600	1300	601	

08JAN92 07:23:03

PAGE 6

ET						9.1		24	234
X1	17250	8	117	234	2250	2250	2250		
GR	1320	0	1305	20	1292.4	100	1291.9	117	1291.8
GR	1291.8	203	1310.0	234	1309.5	240			145

08JAN92 07:23:03

PAGE 7

SECND	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK	ELEV
D	DLOB	QCH	GRCB	ALOB	ACH	ARCB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLDBL	XLCH	XLGBR	ITRIAL	IDC	IDCNT	CORAR	TOPWID	ENDST	

*PROF 1

CCHV= .100 CEHV= .300

*SECND 10.000

10.000	8.45	1202.45	.00	1202.45	1204.16	1.71	.00	.00	1200.00
11350.0	185.0	11153.3	11.7	100.0	1052.6	12.6	.0	.0	1201.00
.00	1.85	10.60	.93	.050	.030	.070	.000	1194.00	2218.33
.002956	10.	10.	10.	0	0	0	.00	227.06	2445.40

*SECND 11.000

11.000	8.45	1202.45	.00	.00	1204.17	1.71	.00	.00	1200.00
11350.0	185.5	11152.8	11.8	100.3	1053.0	12.7	.0	.0	1201.00
.00	1.85	10.59	.93	.050	.030	.070	.000	1194.00	2218.24
.002952	1.	1.	1.	0	0	0	.00	227.20	2445.43

*SECND 13.000

13.000	8.46	1202.46	.00	.00	1204.17	1.71	.01	.00	1200.00
11350.0	186.7	11151.4	11.9	100.9	1053.9	12.8	.1	.0	1201.00
.00	1.85	10.58	.93	.050	.030	.070	.000	1194.00	2217.99
.002942	2.	2.	2.	0	0	0	.00	227.53	2445.52

*SECND 15.000

15.000	8.48	1202.48	.00	.00	1204.18	1.70	.01	.00	1200.00
11350.0	188.3	11149.6	12.1	101.7	1055.2	13.0	.1	.0	1201.00
.00	1.85	10.57	.93	.050	.030	.070	.000	1194.00	2217.66
.002938	2.	2.	2.	0	0	0	.00	227.68	2445.54

*SECND 20.000	20.000	8.47	1202.49	.00	.00	1204.14	1.70	.01	.00	1200.02
11350.0	188.3	11149.6	12.1	101.7	1055.2	13.0	.3	.1	1201.02	
.00	1.85	10.57	.93	.050	.030	.070	.000	1194.02	2217.66	
.002929	5.	5.	5.	0	0	0	.00	227.99	2445.64	

*SECND 60.000	60.000	8.55	1202.65	.00	.00	1204.31	1.67	.12	.00	1200.10
11350.0	200.8	11135.5	13.6	108.1	1065.0	14.4	1.4	.3	1201.10	
.00	1.86	10.46	.95	.050	.030	.070	.000	1194.10	2215.11	
.002834	40.	40.	40.	2	0	0	.00	231.45	2446.56	

08JAN92 07:23:03

PAGE 8

SECND	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECND 2200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.81

*** SURVEYED SECTION #1 10/91
*** FIELD 8 QT IS 2-YR; FIELD 9 QT IS JULY 89 FLOOD

2200.000	12.65	1207.25	.00	.00	1207.52	.27	3.07	.14	1199.60
11350.0	3453.4	6070.4	1826.2	1461.9	1124.5	1127.3	121.7	28.3	1201.00
.16	2.36	5.40	1.62	.060	.040	.070	.000	1194.60	810.96
.000864	2140.	2140.	2140.	3	0	0	.00	908.31	1719.27

*SECND 2300.000	2300.000	12.45	1207.26	.00	.00	1207.66	.40	.10	.04	1199.80
11350.0	2599.7	6802.3	1949.0	773.3	1105.6	1072.3	129.4	30.0	1201.20	
.16	3.36	6.15	1.82	.060	.040	.070	.000	1194.80	1151.88	
.001148	100.	100.	100.	2	0	0	.00	565.76	1717.65	

*SECND 2650.000	2650.000	11.95	1207.65	.00	.00	1208.12	.47	.44	.02	1200.70
11350.0	2555.8	6961.4	1832.8	705.0	1057.1	967.5	152.2	34.2	1201.00	
.18	3.63	6.59	1.89	.060	.040	.070	.000	1195.70	1214.88	
.001383	350.	350.	350.	2	0	0	.00	499.70	1714.57	

*SECND 3000.000	3000.000	11.52	1208.12	.00	.00	1208.69	.56	.54	.03	1201.60
11350.0	2597.8	7211.9	1540.3	655.1	1012.1	805.6	173.1	38.2	1203.00	
.20	3.97	7.13	1.91	.060	.040	.070	.000	1196.60	1222.27	
.001733	350.	350.	350.	2	0	0	.00	487.95	1710.22	

*SECND 3220.000

3301 HV CHANGED MORE THAN HVINS

08JAN92 07:23:03

PAGE 9

SECND	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3220.000	9.90	1208.20	.00	.00	1209.46	1.26	.56	.21	1210.00
11350.0	.0	8706.1	2643.9	.0	866.7	655.0	183.2	40.0	1202.00
.20	.00	10.05	4.04	.000	.040	.070	.000	1198.30	1033.07
.004152	220.	220.	220.	2	0	0	.00	229.15	1262.22

*SECND 3440.000

0	2488.2	2861.8	0	798.0	644.7	190.7	41.2	1203.00
21	00	10.64	4.44	000	040	070	000	1200.00
005124	220.	220.	220.	2	0	0	00	228.86

*SECNO 3515.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3515.000	11.84	1209.14	1209.14	.00	1212.12	2.98	.60	.48	1220.70
11350.0	.0	11350.0	.0	.0	819.8	.0	192.6	41.5	1218.20
.21	.00	13.84	.00	.000	.040	.000	.000	1197.30	1037.39
.014228	75.	75.	75.	20	11	0	.00	143.01	1262.27

CCHV= .010 CEHV= .010

*SECNO 3516.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

1

08JAN72 07:23:03

PAGE 10

SECNO	DEPTH	CWSEL	CRWS	WSELK	EB	HV	HL	GLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XLN	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3516.000	12.04	1209.34	1209.34	.00	1212.28	2.94	.01	.00	1220.70
11350.0	.0	11350.0	.0	.0	825.1	.0	192.7	41.5	1218.20
.21	.00	13.76	.00	.000	.030	.000	.000	1197.30	1036.83
.010699	1.	1.	1.	20	12	0	-23.54	145.83	1262.56

*SECNO 3534.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3534.000	13.02	1210.32	.00	.00	1212.45	2.13	.16	.01	1220.70
11350.0	.0	11350.0	.0	.0	968.6	.0	193.0	41.6	1218.20
.21	.00	11.72	.00	.000	.030	.000	.000	1197.30	1033.50
.007687	18.	18.	18.	4	0	0	-29.97	172.93	1263.99

CCHV= .100 CEHV= .300

*SECNO 3535.000

3265 DIVIDED FLOW

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3535.000	13.52	1210.82	.00	.00	1212.50	1.69	.01	.05	1220.70
11350.0	.0	11350.0	.0	.0	1091.8	.0	193.0	41.6	1218.20
.21	.00	10.40	.00	.000	.040	.000	.000	1197.30	1032.68
.008327	1.	1.	1.	3	0	0	.00	195.38	1264.74

SECNO D TIME SLOPE	DEPTH GLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRWS DROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	CLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

*SECNO 3560.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

3560.000	13.89	1211.08	.00	.00	1212.63	1.55	.12	.01	1208.00
11350.0	37.1	10673.4	639.5	23.7	1039.9	159.8	193.7	41.7	1205.00
.21	1.56	10.26	4.03	.070	.040	.060	.000	1197.20	1024.59
.003115	25.	25.	25.	2	0	0	.00	140.15	1164.74

*SECNO 3585.000

3585.000	13.06	1211.06	.00	.00	1212.76	1.70	.08	.04	1208.00
11350.0	39.3	10625.3	655.3	23.5	988.3	159.2	194.4	41.7	1205.00
.21	1.68	10.75	4.31	.070	.040	.060	.000	1198.00	1024.68
.003619	25.	25.	25.	2	0	0	.00	140.04	1164.72

*SECNO 3645.000

3301 HV CHANGED MORE THAN HVINS

3645.000	12.37	1211.37	.00	.00	1213.70	2.33	.75	.19	1209.00
11350.0	35.2	10607.5	707.2	18.8	842.4	133.8	198.4	42.3	1206.00
.22	1.87	12.59	5.29	.070	.040	.060	.000	1199.00	1024.17
.006295	160.	160.	160.	2	0	0	.00	140.30	1164.47

*SECNO 3900.000

3301 HV CHANGED MORE THAN HVINS

3900.000	9.21	1212.21	.00	.00	1215.04	2.64	1.19	.15	1209.00
11350.0	100.8	10086.7	1162.5	34.6	714.0	161.4	201.8	42.8	1206.00
.22	2.92	14.13	7.20	.070	.040	.060	.000	1205.00	1015.87
.009587	155.	155.	155.	2	0	0	.00	149.95	1165.82

*SECNO 4000.000

4000.000	11.17	1213.17	.00	.00	1216.07	2.90	1.01	.02	1206.90
11350.0	910.3	10435.0	4.7	205.1	734.7	3.5	203.9	43.1	1208.50
.22	4.44	14.20	1.35	.100	.050	.090	.000	1202.00	1004.58
.010643	100.	100.	100.	2	0	0	.00	116.90	1121.48

08JAN92

07:23:03

PAGE 12

SECNO D TIME SLOPE	DEPTH GLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRWS DROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	CLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

*SECNO 4200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.92

4200.000	14.36	1216.36	.00	.00	1217.27	.91	1.00	.20	1206.90
11350.0	2899.4	8440.9	9.7	1693.1	957.4	9.8	212.2	45.0	1208.50
.23	1.71	8.82	.99	.100	.050	.090	.000	1202.00	390.96
.002881	200.	200.	200.	3	0	0	.00	731.54	1122.49

*SECNO 4400.000

4400.000	12.20	1217.20	.00	.00	1217.87	.67	.58	.02	1206.90
11350.0	4445.6	6891.5	12.9	2256.6	832.6	12.0	225.4	48.4	1208.50
.24	1.97	8.28	1.07	.100	.050	.090	.000	1205.00	367.68
.002912	200.	200.	200.	3	0	0	.00	735.09	1122.76

*SECNO 4750.000

3301 HV CHANGED MORE THAN HVINS

CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

4750.000	10.38	1218.38	.00	.00	1218.55	.17	.62	.05	1215.60
10900.0	5219.9	5467.4	212.7	3292.5	1247.7	183.1	256.8	54.8	1213.30
.27	1.59	4.38	1.16	.100	.050	.090	.000	1208.00	484.48
.001186	350.	350.	350.	2	0	0	.00	848.47	1334.96

*SECNO 5200.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5200.000	8.42	1219.42	1219.42	.00	1221.11	1.69	1.18	.46	1217.60
10900.0	1262.0	9359.2	278.7	.671.7	833.4	104.7	289.5	62.4	1215.30
.29	1.88	11.23	2.66	.100	.050	.090	.000	1211.00	646.77
.009964	450.	450.	450.	20	15	0	.00	634.06	1280.83

08JAN92 07:23:03

PAGE 13

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5600.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

5600.000	9.99	1222.99	.00	.00	1223.57	.58	2.35	.11	1218.00
10900.0	4293.2	6606.8	.0	1609.3	878.3	.0	308.4	67.3	1224.00
.31	2.67	7.52	.00	.100	.050	.000	.000	1213.00	788.04
.003860	400.	400.	400.	2	0	0	.00	431.53	1219.57

*SECNO 6700.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

6700.000	8.78	1228.68	.00	.00	1231.62	2.94	7.34	.71	1225.00
10900.0	1.7	10034.9	863.4	1.4	704.0	173.4	350.9	74.5	1222.40
.33	1.29	14.25	4.98	.070	.050	.090	.000	1219.90	4.26
.014243	1100.	1100.	1100.	3	0	0	.00	140.59	144.85

*SECNO 7600.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.87

7600.000	9.89	1236.29	.00	.00	1236.89	.60	5.03	.23	1232.00
10900.0	31.2	6298.0	4570.3	15.3	768.9	2287.9	372.1	78.9	1229.80
.37	2.04	7.98	2.00	.070	.050	.090	.000	1226.40	22.85
.004090	900.	900.	200.	5	0	0	.00	1102.91	1125.77

*SECNO 8600.000

3301 HV CHANGED MORE THAN HVINS

08JAN92 07:23:03

PAGE 14

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00

1.0. NH CARD USED
 *SECND 9500.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56

9500.000	9.56	1248.56	.00	.00	1249.02	.46	5.43	.17	1243.00
10900.0	1548.4	9218.0	133.6	486.0	1601.2	59.9	450.5	98.9	1243.00
.44	3.19	5.76	2.23	.090	.047	.090	.000	1239.00	84.99
.004057	900.	900.	900.	3	0	0	.00	438.33	523.32

*SECND 10400.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .56

10400.000	7.54	1252.84	1252.57	.00	1255.80	2.95	6.03	.75	1249.00
10900.0	.1	10779.7	120.2	.2	777.6	46.1	481.1	105.0	1248.40
.45	.30	13.86	2.61	.090	.045	.090	.000	1245.30	.88
.013108	900.	900.	900.	6	15	0	.00	148.66	484.69

*SECND 12550.000

3301 HV CHANGED MORE THAN HVINS

1 OBJAN92 07:23:03 PAGE 15

SECND	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
D	QLOB	OCH	ORGB	ALOB	ACH	AROB	VGL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLDBR	ITR1AL	IDC	ICONT	CCRAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

12550.000	8.64	1271.14	.00	.00	1271.93	.79	15.92	.22	1265.60
10900.0	1222.6	6459.3	3218.1	461.3	737.6	835.9	551.7	117.5	1265.10
.54	2.65	8.76	3.23	.090	.045	.090	.000	1262.50	.86
.004749	2150.	2150.	2150.	3	0	0	.00	360.37	341.23

*SECND 15000.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

15000.000	6.41	1287.21	.00	.00	1289.28	2.07	16.97	.39	1284.80
10580.0	21.2	10448.4	110.4	11.0	698.8	58.0	536.1	133.5	1285.70
.68	1.94	11.62	1.90	.090	.045	.090	.000	1280.80	367.94
.011203	2450.	2450.	2450.	3	0	0	.00	207.96	575.90

*SECND 17250.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.70

17250.000	10.36	1302.16	.00	.00	1303.26	1.10	13.88	.10	1291.90
10580.0	1701.3	8878.7	.0	472.0	980.1	.0	698.6	143.6	1310.00
.68	3.60	9.06	.00	.090	.045	.090	.000	1291.80	38.08
.003898	2250.	2250.	2250.	4	0	0	.00	182.55	220.63

1 OBJAN92 07:23:03 PAGE 16

12
13
COUNTY LHM CESAR PD MRB 11/91
30-YR NATURAL
LINVILLE RIVER BURKE CO.

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
		3							1205.82	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

OBJAN92 07:23:03

PAGE 17

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
Q	QLOB	CCH	OROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

0
CCHV= .100 CCHV= .300
*SECNO 10.000
10.000 11.82 1205.82 .00 1205.82 1207.14 1.32 .00 .00 1200.00
23225.0 4139.6 16214.9 2870.5 1723.6 1484.0 1501.4 .0 .0 1201.00
.00 2.40 10.93 1.91 .050 .030 .070 .000 1194.00 1453.93
.001988 10. 10. 10. 0 0 0 .00 1499.89 2953.81

*SECNO 11.000
11.000 11.82 1205.82 .00 .00 1207.14 1.32 .00 .00 1200.00
23225.0 4142.4 16210.4 2872.1 1725.3 1484.2 1502.4 .1 .0 1201.00
.00 2.40 10.92 1.91 .050 .030 .070 .000 1194.00 1453.53
.001988 1. 1. 1. 0 0 0 .00 1500.29 2953.81

*SECNO 13.000
13.000 11.83 1205.83 .00 .00 1207.14 1.31 .00 .00 1200.00
23225.0 4150.9 16197.1 2877.1 1730.3 1485.0 1505.5 .3 .1 1201.00
.00 2.40 10.91 1.91 .050 .030 .070 .000 1194.00 1452.33
.001979 2. 2. 2. 0 0 0 .00 1501.49 2953.82

*SECNO 15.000
15.000 11.84 1205.84 .00 .00 1207.15 1.30 .00 .00 1200.00
23225.0 4163.3 16177.3 2884.4 1737.6 1486.1 1510.1 .5 .2 1201.00
.00 2.40 10.89 1.91 .050 .030 .070 .000 1194.00 1450.56
.001970 2. 2. 2. 0 0 0 .00 1503.27 2953.83

*SECNO 20.000
20.000 11.83 1205.85 .00 .00 1207.16 1.31 .01 .00 1200.02
23225.0 4159.3 16183.7 2882.0 1735.2 1485.7 1508.6 1.1 .3 1201.02
.00 2.40 10.89 1.91 .050 .030 .070 .000 1194.02 1451.13
.001973 5. 5. 5. 0 0 0 .00 1502.70 2953.83

*SECNO 60.000
60.000 11.83 1205.93 .00 .00 1207.24 1.31 .08 .00 1200.10
23225.0 4155.3 16189.5 2879.9 1733.0 1485.4 1507.2 5.4 1.7 1201.10
.00 2.40 10.90 1.91 .050 .030 .070 .000 1194.10 1451.66
.001976 40. 40. 40. 0 0 0 .00 1502.17 2953.83

OBJAN92 07:23:03

PAGE 18

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
Q	QLOB	CCH	OROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CCHV= .300
*SECNO 2200.000

3301 HV CHANGED MORE THAN HVINS

*** SURVEYED SECTION #1 10/91

*** FIELD 8 QT IS 2-YR; FIELD 9 QT IS JULY 89 FLOOD

2200.000	15.36	1209.76	.00	.00	1210.31	.35	2.97	.10	1199.60
23225.0	9035.4	9506.8	4682.8	3818.5	1395.1	1949.9	297.5	78.7	1201.00

2140. 2140. 2140. 2 0 0 .00 1633.12 1742.54

*SECND 2300.000

2300.000	15.06	1209.86	.00	.00	1210.54	.69	.13	.10	1199.80
23225.0	5752.4	11865.4	5607.2	1559.9	1365.4	1854.0	311.2	82.1	1201.20
.15	3.69	8.69	3.02	.060	.040	.070	.000	1194.80	418.55
.001728	100.	100.	100.	2	0	0	.00	1321.37	1739.92

*SECND 2650.000

2650.000	14.77	1210.46	.00	.00	1211.17	.71	.62	.01	1200.70
23225.0	5754.3	11899.8	5570.9	1717.0	1338.4	1868.7	349.9	94.0	1201.00
.16	3.35	8.89	3.08	.060	.040	.070	.000	1195.70	98.45
.001840	350.	350.	350.	2	0	0	.00	1640.95	1739.40

*SECND 3000.000

3000.000	14.50	1211.10	.00	.00	1211.87	.77	.68	.02	1201.60
23225.0	5856.5	12100.5	5268.0	1737.9	1309.3	1684.6	388.5	107.2	1205.00
.18	3.37	9.24	3.13	.060	.040	.070	.000	1196.60	96.35
.002068	350.	350.	350.	1	0	0	.00	1640.89	1737.24

*SECND 3220.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

3220.000	12.15	1210.45	.00	.00	1213.27	2.81	.78	.61	1210.00
23225.0	15.8	16660.9	6548.2	20.0	1089.0	956.1	405.7	112.2	1202.00
.18	.79	15.30	6.85	.060	.040	.070	.000	1198.30	941.76
.007439	220.	220.	220.	3	0	0	.00	323.59	1265.35

08JAN92 07:23:03

PAGE 19

SECND	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
0	GLOB	OCH	OROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLGBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECND 3440.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.70

3440.000	13.47	1213.47	.00	.00	1214.36	.89	.90	.19	1211.00
23225.0	5310.9	12087.6	5826.5	2309.9	1229.7	1234.1	422.9	116.0	1203.00
.19	2.30	9.83	4.72	.060	.040	.070	.000	1200.00	91.47
.002587	220.	220.	220.	6	0	0	.00	1177.29	1269.76

*SECND 3515.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3605 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSURED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3515.000	16.76	1214.06	1214.06	.00	1216.12	2.06	.30	.35	1220.70
23225.0	1256.8	21968.2	.0	607.7	1856.8	.0	429.2	117.8	1218.20
.19	2.07	11.83	.00	.060	.040	.070	.000	1197.30	96.09
.007151	75.	75.	75.	20	18	0	.00	894.23	1269.50

CCHV= .010 CEHV= .010

*SECND 3516.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

08JAN92 07:23:03 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

PAGE 20

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3516.000	17.49	1214.79	1214.53	.00	1216.13	1.34	.01	.01	1220.70
23225.0	3633.9	19591.1	.0	1117.6	1955.1	.0	429.2	117.8	1218.20
.19	3.25	10.02	.00	.040	.030	.000	.000	1197.30	93.39
.004100	1.	1.	1.	6	15	0	-80.47	989.79	1270.52

*SECNO 3534.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3534.000	17.78	1215.08	.00	.00	1216.20	1.11	.07	.00	1220.70
23225.0	4429.4	18795.6	.0	1339.6	2025.7	.0	430.6	118.2	1218.20
.20	3.31	9.28	.00	.040	.030	.000	.000	1197.30	92.29
.003418	18.	18.	18.	3	0	0	-83.93	994.84	1270.92

CCHV= .100 CEHV= .300

*SECNO 3535.000

3265 DIVIDED FLOW

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3535.000	17.57	1214.87	.00	.00	1216.30	1.43	.00	.09	1220.70
23225.0	2418.7	20806.3	.0	1182.1	2057.1	.0	430.6	118.2	1218.20
.20	2.05	10.11	.00	.070	.040	.000	.000	1197.30	93.07
.004655	1.	1.	1.	2	0	0	.09	991.26	1270.64

*SECNO 3560.000

3301 HV CHANGED MORE THAN HVINS

08JAN92 07:23:03

PAGE 21

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3560.000	17.71	1214.91	1214.91	.00	1217.09	2.18	.10	.23	1208.00
23225.0	3152.9	18276.2	1795.9	1646.2	1384.1	303.9	432.5	118.8	1205.00
.20	1.92	13.20	5.91	.070	.040	.060	.000	1197.20	92.94
.003522	25.	25.	25.	4	5	0	.00	1077.69	1170.63

*SECNO 3585.000

3301 HV CHANGED MORE THAN HVINS

3585.000	17.62	1215.62	.00	.00	1217.22	1.61	.08	.06	1208.00
23225.0	4833.8	18555.3	1824.9	2322.1	1398.2	333.2	434.6	119.4	1205.00
.20	2.08	11.85	5.48	.070	.040	.060	.000	1198.00	90.30
.002768	25.	25.	25.	6	0	0	.00	1031.42	1171.72

*SECNO 3645.000

3301 HV CHANGED MORE THAN HVINS

23225.0	7720.0	13851.5	1653.5	3249.5	1323.6	325.7	451.1	123.4	1206.00
.20	2.38	10.47	5.08	.070	.040	.060	.000	1199.00	86.65
.002381	160.	160.	160.	3	0	0	.00	1085.26	1172.91

*SECNO 3900.000

3900.000	14.32	1217.32	.00	.00	1218.07	.75	.35	.03	1209.00
23225.0	10180.3	11237.8	1806.9	3941.6	1185.3	355.8	469.5	127.3	1206.00
.21	2.58	9.48	5.08	.070	.040	.060	.000	1203.00	83.97
.002197	155.	155.	155.	2	0	0	.00	1090.11	1174.08

*SECNO 4000.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4000.000	15.34	1217.34	1217.34	.00	1219.77	2.43	.37	.50	1206.90
23225.0	7672.9	15530.3	21.8	2343.3	1026.2	12.4	479.7	129.4	1208.50
.21	3.27	15.13	1.76	.100	.050	.090	.000	1202.00	387.17
.007757	100.	100.	100.	20	8	0	.00	735.63	1122.60

08JAN92 07:23:03

PAGE 22

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

4200.000	17.90	1219.90	.00	.00	1220.80	.90	.88	.15	1206.90
23225.0	10927.1	12271.9	26.0	4051.6	1205.3	20.6	499.6	132.8	1208.50
.22	2.70	10.18	1.26	.100	.050	.090	.000	1202.00	377.33
.002826	200.	200.	200.	3	0	0	.00	746.28	1123.62

*SECNO 4400.000

4400.000	15.70	1220.70	.00	.00	1221.37	.68	.55	.02	1206.90
23225.0	13028.2	10166.4	30.4	4594.7	1077.2	23.6	524.8	136.2	1208.50
.23	2.84	9.44	1.29	.100	.050	.090	.000	1205.00	374.23
.002655	200.	200.	200.	2	0	0	.00	749.64	1123.87

*SECNO 4750.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

4750.000	13.79	1221.79	.00	.00	1222.03	.24	.61	.04	1215.60
22340.0	11983.4	9454.9	901.7	5472.1	1721.7	493.7	578.6	142.7	1213.30
.26	2.19	5.49	1.83	.100	.050	.090	.000	1208.00	472.85
.001213	350.	350.	350.	2	0	0	.00	878.48	1351.33

*SECNO 5200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

5200.000	10.87	1221.87	.00	.00	1223.68	1.62	1.18	.47	1217.60
22340.0	6499.4	14538.0	1302.6	1836.6	1105.6	361.8	635.3	150.9	1215.30
.27	3.54	13.15	3.60	.100	.050	.090	.000	1211.00	641.20
.009372	450.	450.	450.	3	0	0	.00	709.73	1350.94

08JAN92 07:23:03

PAGE 23

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

5600.000	12.55	1225.53	.00	.00	1226.49	.96	2.72	.09	1218.00
22340.0	9927.1	11620.2	792.7	2482.1	1134.4	603.1	669.8	158.7	1224.00
.29	4.03	10.24	1.31	.100	.050	.090	.000	1213.00	777.89
.005158	400.	400.	400.	3	0	0	.00	973.86	1751.76

*SECNO 6700.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

6700.000	14.63	1234.53	1234.53	.00	1236.15	1.62	5.74	.20	1225.00
22340.0	13.4	14987.2	7439.4	9.1	1200.8	3236.3	778.9	193.9	1222.40
.32	1.48	12.40	2.30	.070	.050	.090	.000	1219.90	3.09
.005286	1100.	1100.	1100.	3	12	0	.00	1818.77	1821.86

*SECNO 7600.000

3301 HV CHANGED MORE THAN HVINS

7600.000	11.96	1238.36	.00	.00	1239.01	.66	2.77	.10	1232.00
22340.0	92.0	9238.3	13009.7	33.7	575.3	4414.9	819.4	202.3	1229.80
.35	2.73	9.47	2.95	.070	.050	.090	.000	1228.40	19.40
.004341	900.	900.	200.	2	0	0	.00	1147.77	1167.17

*SECNO 8600.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

8600.000	12.82	1245.42	1245.42	.00	1248.35	2.93	5.90	.68	1236.00
22340.0	.3	19792.1	2547.6	1.0	1359.6	900.3	907.6	221.8	1235.70
.37	.34	14.56	2.83	.090	.050	.090	.000	1232.60	.79
.008465	1000.	1000.	1000.	2	8	0	.00	559.25	559.04

08JAN92 07:23:03

PAGE 24

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XACH	XNR	WTN	ELMIN	R-BANK ELEV
SLOPE	XLDBL	XLCH	XLDBR	ITRIAL	ICC	ICCNT	CCRAR	TOPWID	ENDST

1450 KH CARD USED

*SECNO 9500.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

9500.000	13.39	1252.39	.00	.00	1252.97	.53	4.39	.23	1243.00
22340.0	3400.5	18397.9	541.6	859.7	2826.8	192.3	971.2	232.5	1243.00
.41	3.91	6.51	2.82	.090	.054	.090	.000	1239.00	74.64
.003167	900.	900.	900.	2	0	0	.00	471.60	546.24

*SECNO 10400.000

3301 HV CHANGED MORE THAN HVINS

3665 20 TRIALS ATTEMPTED WSEL, CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

10400.000	12.45	1257.75	1257.75	.00	1260.60	3.05	4.19	.74	1249.00
22340.0	.5	19631.1	2708.4	1.2	1317.3	927.9	1034.6	242.9	1248.40
.43	.39	14.5	2.92	.090	.045	.090	.000	1245.30	.72
.007501	900.	900.	900.	20	11	0	.00	537.48	538.20

*SECNO 12550.000

3301 HV CHANGED MORE THAN HVINS

12550.000	11.41	1275.34	1275.34	.00	1275.34	1.43	14.38	.16	1265.60
22340.0	3499.2	1006.0	1208.1	818.9	1006.0	1208.1	1164.8	265.1	1265.10

00000 2150. 2150. 2150. 2 0 0 0 0 1282.30 361.78

*SECNO 15000.000

3301 HV CHANGED MORE THAN HVINS

15000.000	9.79	1290.59	1290.42	.00	1293.16	2.58	17.48	.34	1284.80
21690.0	1470.7	19049.4	1169.9	575.0	1391.4	302.0	1313.9	269.3	1285.70
.55	2.54	13.69	3.87	.090	.045	.090	.000	1280.80	99.47
.068676	2450.	2450.	2450.	4	15	0	.00	500.75	600.22

08JAN92 07:23:03

PAGE 25

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*SECNO 17250.000

3301 HV CHANGED MORE THAN HVINS

17250.000	14.19	1305.99	.00	.00	1308.05	2.06	14.83	.05	1291.90
21690.0	4192.6	17497.4	.0	818.7	1390.0	.0	1429.6	307.6	1310.00
.61	5.12	12.59	.00	.090	.045	.000	.000	1291.80	18.69
.005179	2250.	2250.	2250.	3	0	0	.00	208.48	227.16

08JAN92 07:23:03

PAGE 26

71 BURKE COUNTY LHM CESAW-PD WRB 11/91
 72 100-YEAR NATURAL
 73 LINVILLE RIVER BURKE CO.

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4							1206.71	
J2	NPROF	IPLOT	FRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3		-1							

08JAN92 07:23:03

PAGE 27

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*PROF 3

0 CCHV= .100 CEHV= .300

*SECNO 10.000

10.000	12.71	1206.71	.00	1206.71	1208.08	1.37	.00	.00	1200.00
30500.0	7067.4	18814.0	4618.6	2557.6	1597.9	1959.9	.0	.0	1201.00
.00	2.76	11.77	2.34	.050	.030	.070	.000	1194.00	1272.11
.002092	10.	10.	10.	0	0	0	.00	1682.91	2955.01

*SECNO 11.000

11.000	12.71	1206.71	.00	.00	1208.08	1.37	.00	.00	1200.00
30500.0	7071.1	18808.7	4620.2	2559.7	1598.1	1971.0	.1	.0	1201.00
.00	2.76	11.77	2.34	.050	.030	.070	.000	1194.00	1271.69
.002089	1.	1.	1.	0	0	0	.00	1683.33	2955.02

*SECNO 13.000

13.000	12.72	1206.72	.00	.00	1208.09	1.36	.00	.00	1200.00
30500.0	7081.4	18793.6	4624.9	2565.7	1598.9	1974.1	.4	.1	1201.00
.00	2.76	11.75	2.34	.050	.030	.070	.000	1194.00	1270.49
.002083	2.	2.	2.	0	0	0	.00	1684.54	2955.02

*SECNO 15.000

15.000	12.73	1206.73	.00	.00	1208.09	1.36	.00	.00	1200.00
30500.0	7097.4	18770.5	4632.1	2577.0	1600.0	1978.8	.7	.2	1201.00
.00	2.76	11.77	2.34	.050	.030	.070	.000	1194.00	1270.49
.002083	2.	2.	2.	0	0	0	.00	1684.54	2955.02

	2.	2.	2.	0	0	0	0.00	1686.39	2955.04
*SECNO 20.000									
20.000	12.72	1205.74	.00	.00	1208.10	1.36	.01	.00	1200.02
30500.0	7093.7	18775.8	4630.5	2572.9	1599.8	1977.7	1.4	.4	1201.02
.00	2.76	11.74	2.34	.050	.030	.070	.000	1194.02	1269.07
.002075	5.	5.	5.	0	0	0	.00	1685.97	2955.03

	2.	2.	2.	0	0	0	0.00	1686.39	2955.04
*SECNO 60.000									
60.000	12.73	1206.83	.00	.00	1208.18	1.36	.08	.00	1200.10
30500.0	7097.2	18770.8	4632.0	2574.9	1600.0	1978.8	7.1	1.9	1201.10
.00	2.76	11.73	2.34	.050	.030	.070	.000	1194.10	1268.67
.002073	40.	40.	40.	0	0	0	.00	1686.37	2955.04

08JAN92 07:23:03

PAGE 28

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK	ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .100 CEHV= .300
*SECNO 2200.000

3301 HV CHANGED MORE THAN HVINS

*** SURVEYED SECTION #1 10/91
*** FIELD B QT IS 2-YR; FIELD 9 QT IS JULY 89 FLOOD

2200.000	16.44	1211.04	.00	.00	1211.41	.37	3.13	.10	1199.60
30500.0	13292.9	11032.7	6174.3	5138.1	1503.4	2292.4	377.7	64.0	1201.00
.14	2.59	7.34	2.69	.060	.040	.070	.000	1194.60	96.54
.001084	2140.	2140.	2140.	2	0	0	.00	1655.20	1751.74

*SECNO 2300.000									
2300.000	16.12	1210.92	.00	.00	1211.66	.74	.14	.11	1199.80
30500.0	8850.8	14055.7	7593.5	2809.2	1471.6	2189.6	395.3	87.8	1201.20
.14	3.15	9.55	3.47	.060	.040	.070	.000	1194.80	97.60
.001890	100.	100.	100.	2	0	0	.00	1651.41	1749.02

*SECNO 2650.000									
2650.000	15.91	1211.61	.00	.00	1212.32	.71	.66	.00	1200.70
30500.0	9317.7	13740.1	7442.3	3124.5	1452.7	2170.4	448.5	101.1	1201.00
.16	2.98	9.46	3.43	.060	.040	.070	.000	1195.70	94.64
.001866	350.	350.	350.	3	0	0	.00	1654.85	1749.48

*SECNO 3000.000									
3000.000	15.67	1212.27	.00	.00	1213.01	.75	.68	.01	1201.60
30500.0	9626.7	13797.0	7076.3	3180.8	1426.3	2052.5	502.3	114.4	1203.00
.18	3.03	9.67	3.45	.060	.040	.070	.000	1196.60	92.45
.002021	350.	350.	350.	0	0	0	.00	1655.42	1747.87

*SECNO 3220.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3220.000	14.36	1212.66	1212.66	.00	1214.63	1.97	.65	.37	1210.00
30500.0	4132.7	18178.1	8189.2	1642.9	1309.4	1257.8	529.8	121.5	1202.00
.18	2.52	13.83	6.51	.060	.040	.070	.000	1198.30	94.29
.004791	220.	220.	220.	20	12	0	.00	1174.12	1268.41

09JAN92 07:23:03

PAGE 29

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK	ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 3440.000

3301 HV CHANGED MORE THAN HVINS

3440.000	14.62	1214.62	7.00	.00	1215.48	.86	.74	.11	1211.00
30500.0	9830.7	13729.0	6940.3	3390.1	1344.6	1394.5	555.9	121.5	1203.00
.19	2.90	10.21	4.98	.060	.040	.070	.000	1200.00	87.51
.002478	220.	220.	220.	4	0	0	.00	1182.97	1270.48

*SECNO 3515.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL, CNSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3515.000	17.89	1215.19	1215.19	.00	1217.18	1.99	.28	.34	1220.70
30500.0	4461.8	26038.2	.0	1419.4	2136.2	.0	564.2	129.4	1218.20
.19	3.14	12.19	.00	.060	.040	.000	.000	1197.30	91.89
.006480	75.	75.	75.	20	12	0	.00	996.64	1271.07

CCHV= .010 CEHV= .010

*SECNO 3516.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

08JAN92 07:23:03

PAGE 30

SECNO	DEPTH	CNSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	CCH	OROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLDBL	XLCH	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3516.000	18.87	1216.17	1215.17	.00	1217.20	1.02	.00	.01	1220.70
30500.0	9220.4	21279.6	.0	2166.8	2288.9	.0	564.3	129.4	1218.20
.19	4.26	9.30	.00	.040	.030	.000	.000	1197.30	88.22
.003130	1.	1.	1.	15	10	0	-96.77	1014.16	1272.41

*SECNO 3534.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3534.000	18.97	1216.27	.00	.00	1217.25	.98	.06	.00	1220.70
30500.0	9451.0	21049.0	.0	2231.4	2309.5	.0	566.2	129.8	1218.20
.19	4.24	9.11	.00	.040	.030	.000	.000	1197.30	87.90
.002989	18.	18.	18.	1	0	0	-97.76	1015.77	1272.52

CCHV= .100 CEHV= .300

*SECNO 3535.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3535.000	18.60	1215.90	.00	.00	1217.42	1.51	.00	.16	1220.70
30500.0	5449.9	25050.1	.0	1955.1	2314.9	.0	566.3	129.8	1218.20

08JAN92 07:23:03

PAGE 31

SECNO D TIME SLOPE	DEPTH GLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRWS GROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH KNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	CLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

*SECNO 3560.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3560.000	18.82	1216.02	1216.02	.00	1218.26	2.23	.10	.22	1208.00
30500.0	7162.9	21065.6	2271.5	2706.1	1484.6	350.2	568.8	130.4	1205.00
.19	2.65	14.19	6.49	.070	.040	.060	.000	1197.20	88.80
.003704	25.	25.	25.	20	5	0	.00	1083.54	1172.34

*SECNO 3585.000

3301 HV CHANGED MORE THAN HVINS

3585.000	18.78	1216.78	.00	.00	1218.40	1.62	.08	.06	1208.00
30500.0	9246.3	18981.0	2272.7	3427.0	1502.7	382.7	571.6	131.1	1205.00
.19	2.70	12.63	5.94	.070	.040	.060	.000	1198.00	86.00
.002858	25.	25.	25.	6	0	0	.00	1087.51	1173.51

*SECNO 3645.000

3301 HV CHANGED MORE THAN HVINS

3645.000	18.81	1217.81	.00	.00	1218.87	1.06	.42	.06	1209.00
30500.0	12665.7	15800.0	2034.3	4398.8	1434.2	376.1	592.8	135.1	1206.00
.20	2.88	11.02	5.41	.070	.040	.060	.000	1199.00	82.20
.002370	160.	160.	160.	3	0	0	.00	1092.65	1174.85

*SECNO 3900.000

3900.000	15.48	1218.48	.00	.00	1219.25	.77	.35	.03	1209.00
30500.0	15324.7	12987.9	2187.4	5049.2	1291.6	405.5	615.8	139.0	1206.00
.21	3.04	10.06	5.39	.070	.040	.060	.000	1203.00	79.68
.002204	155.	155.	155.	2	0	0	.00	1096.26	1175.94

*SECNO 4000.000

08JAN92 07:23:03

PAGE 32

SECNO D TIME SLOPE	DEPTH GLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRWS GROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH KNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	CLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

4000.000	16.37	1218.37	1218.37	.00	1221.09	2.73	.39	.59	1206.90
30500.0	12065.4	18403.6	31.0	3028.3	1098.3	15.4	628.3	141.1	1208.50
.21	3.98	15.76	2.01	.100	.050	.090	.000	1202.00	383.21
.008664	100.	100.	100.	20	8	0	.00	739.92	1123.13

*SECNO 4200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

4200.000	19.21	1221.21	.00	.00	1222.24	1.03	.98	.17	1206.90
30500.0	15836.6	14626.7	36.7	4941.2	1297.5	25.6	652.2	144.5	1208.50
.22	3.21	11.27	1.43	.100	.050	.090	.000	1202.00	372.27
.003149	200.	200.	200.	3	0	0	.00	751.77	1124.04

*SECNO 4400.000

4400.000	17.10	1222.10	.00	.00	1222.87	.77	.60	.03	1206.90
29340.0	18279.6	12178.3	42.1	5548.6	1175.6	29.4	682.1	147.9	1208.50
.23	3.29	10.36	1.43	.100	.050	.090	.000	1205.00	368.83
.002879	200.	200.	200.	2	0	0	.00	755.49	1124.32

*SECNO 4750.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

4750.000	15.28	1223.28	.00	.00	1223.57	.29	.66	.05	1215.60
29340.0	16138.6	11817.6	1383.8	6440.6	1929.1	633.4	745.4	154.5	1213.30
.25	2.51	6.13	2.18	.100	.050	.090	.000	1208.00	466.88
.001297	350.	350.	350.	2	0	0	.00	885.16	1352.04

08JAN92 07:23:03

PAGE 33

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*SECNO 5200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .42

5200.000	12.55	1223.55	.00	.00	1225.11	1.56	1.15	.38	1217.60
29340.0	10446.3	16599.3	2294.4	2641.6	1291.9	565.4	815.1	162.8	1215.30
.27	3.95	12.85	4.06	.100	.050	.090	.000	1211.00	637.39
.007271	450.	450.	450.	3	0	0	.00	714.39	1351.77

*SECNO 5600.000

5600.000	13.59	1226.59	.00	.00	1227.68	1.09	2.53	.05	1218.00
29340.0	12881.1	14015.3	2443.5	2827.2	1241.9	1170.6	859.9	170.6	1224.00
.28	4.56	11.29	2.09	.100	.050	.090	.000	1213.00	773.64
.005550	400.	400.	400.	3	0	0	.00	981.66	1755.30

*SECNO 6700.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

6700.000	15.46	1235.36	1235.36	.00	1236.95	1.59	6.10	.15	1225.00
29340.0	17.1	16762.8	12560.1	10.7	1270.9	4669.8	1001.2	206.1	1222.40
.32	1.60	13.19	2.69	.070	.050	.090	.000	1219.90	2.93
.005547	1100.	1100.	1100.	3	8	0	.00	1830.72	1833.65

*SECNO 7600.000

3301 HV CHANGED MORE THAN HVINS

7600.000	12.68	1239.08	.00	.00	1239.87	.79	2.84	.08	1232.00
29340.0	132.2	11135.2	16072.5	41.6	1039.0	5161.8	1048.1	214.5	1229.90
.34	3.18	10.72	3.50	.070	.050	.090	.000	1226.40	18.22
.005107	900.	900.	200.	1	0	0	.00	1163.12	1181.34

*SECNO 8600.000

3301 HV CHANGED MORE THAN HVINS

08JAN92 07:23:03

PAGE 34

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

8600.000	14.30	1246.90	1246.90	.00	1249.93	3.03	6.39	.67	1236.00
29340.0	.5	23571.3	5768.2	1.4	1523.1	1609.9	1155.8	234.7	1235.70
.36	3.37	15.48	3.58	.090	.050	.090	.000	1232.60	.75
.008222	1000.	1000.	1000.	3	8	0	.00	596.32	597.07

WALSH CARD USED
*SECNO 9500.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

9500.000	14.88	1253.68	.00	.00	1254.57	.69	4.41	.23	1243.00
29340.0	4471.6	23675.1	1193.2	1030.7	3306.6	665.0	1239.8	250.5	1243.00
.40	4.34	7.16	1.79	.090	.055	.090	.000	1239.00	70.59
.003250	900.	900.	900.	2	0	0	.00	932.69	1003.27

*SECNO 10400.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

10400.000	13.98	1259.28	1259.28	.00	1262.46	3.18	4.20	.75	1249.00
29340.0	.7	23575.6	5763.7	1.7	1485.2	1630.1	1323.7	266.3	1248.40
.42	.42	15.87	3.54	.090	.045	.090	.000	1245.30	.67
.007252	900.	900.	900.	20	11	0	.00	596.36	597.03

*SECNO 12550.000

3301 HV CHANGED MORE THAN HVINS

12550.000	12.87	1275.37	.00	.00	1277.13	1.76	14.53	.14	1265.60
29340.0	5023.8	15546.7	8769.5	1007.2	1147.3	1404.6	1488.5	289.9	1265.10
.48	4.99	13.55	6.24	.090	.045	.090	.000	1262.50	.67
.006309	2150.	2150.	2150.	3	0	0	.00	361.41	362.07

08JAN92 07:23:03

PAGE 35

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	OCH	GROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLGBL	XLCH	XLGBR	ITRIAL	IDC	ICONT	CORAR	TDPWID	ENDST

*SECNO 15000.000

3301 HV CHANGED MORE THAN HVINS

15000.000	11.25	1292.05	.00	.00	1294.75	2.70	17.34	.28	1284.80
28490.0	3386.4	23234.7	1868.9	980.2	1604.7	414.9	1672.9	314.2	1285.70
.53	3.45	14.48	4.50	.090	.045	.090	.000	1280.80	97.32
.008024	2450.	2450.	2450.	2	0	0	.00	503.02	600.34

*SECNO 17250.000

17250.000	15.78	1307.58	.00	.00	1310.24	2.66	15.49	.00	1291.90
28490.0	5936.5	22553.5	.0	977.2	1567.8	.0	1815.1	332.7	1310.00
.58	6.07	14.38	.00	.090	.045	.000	.000	1291.00	16.56
.005972	2250.	2250.	2250.	3	0	0	.00	213.32	229.88

08JAN92 07:23:03

PAGE 36

T1 BURKE COUNTY LHM CESAK-PD WRB 11/91
T2 500-YEAR NATURAL
T3 LINVILLE RIVER BURKE CO.

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FD
		5							1208.55	

J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

08JAN92 07:23:03

PAGE 37

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	OCH	GROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLGBL	XLCH	XLGBR	ITRIAL	IDC	ICONT	CORAR	TDPWID	ENDST

2

ALDBL XLCH XLOBR ITRIAL IDC ICONT CORAR TOPWID ENDST

PROF 4

CCHV= .100 CEHV= .300
 *SECNO 10.000
 10.000 14.55 1208.55 .00 1208.55 1210.25 1.70 .00 .00 1200.00
 54710.0 17988.2 26618.6 10103.2 4794.8 1833.4 2941.9 .0 .0 1201.00
 .00 3.75 14.52 3.43 .050 .030 .070 .000 1194.00 896.20
 .002648 10. 10. 10. 0 0 0 .00 2061.30 2957.50

*SECNO 11.000
 11.000 14.56 1208.56 .00 .00 1210.25 1.70 .00 .00 1200.00
 54710.0 17995.1 26610.0 10104.9 4798.6 1833.8 2943.4 .2 .0 1201.00
 .00 3.75 14.51 3.43 .050 .030 .070 .000 1194.00 895.66
 .002644 1. 1. 1. 0 0 0 .00 2061.85 2957.50

*SECNO 13.000
 13.000 14.57 1208.57 .00 .00 1210.26 1.69 .01 .00 1200.00
 54710.0 18014.8 26585.7 10109.6 4809.2 1834.7 2947.4 .7 .1 1201.00
 .00 3.75 14.49 3.43 .050 .030 .070 .000 1194.00 894.11
 .002635 2. 2. 2. 0 0 0 .00 2063.40 2957.51

*SECNO 15.000
 15.000 14.66 1208.66 .00 .00 1210.27 1.61 .01 .01 1200.00
 54710.0 18289.3 26247.4 10173.3 4960.2 1848.4 3003.8 1.1 .2 1201.00
 .00 3.69 14.20 3.39 .050 .030 .070 .000 1194.00 872.34
 .002506 2. 2. 2. 2 0 0 .00 2085.32 2957.66

*SECNO 20.000
 20.000 14.65 1208.67 .00 .00 1210.29 1.61 .01 .00 1200.02
 54710.0 18264.9 26277.3 10167.7 4946.6 1847.1 2998.8 2.2 .5 1201.02
 .00 3.69 14.23 3.39 .050 .030 .070 .000 1194.02 874.28
 .002517 5. 5. 5. 0 0 0 .00 2083.36 2957.65

*SECNO 60.000
 60.000 14.74 1208.84 .00 .00 1210.39 1.55 .10 .01 1200.10
 54710.0 18485.6 26007.3 10217.1 5070.8 1858.2 3044.6 11.3 2.4 1201.10
 .00 3.65 14.00 3.36 .050 .030 .070 .000 1194.10 856.60
 .002417 40. 40. 40. 2 0 0 .00 2101.16 2957.76

08JAN92 07:23:03 PAGE 38

SECNO	DEPTH	CNSL	CRWS	WSELK	EG	HV	HL	OLSS	L-BANK	ELEV
B	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTA	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .100 CEHV= .300
 *SECNO 2200.000
 3301 HV CHANGED MORE THAN HVINS
 *** SURVEYED SECTION #1 10/91
 *** FIELD 8 DT IS 2-YR: FIELD 9 DT IS JULY 87 FLOOD
 2200.000 19.05 1213.65 .00 .00 1214.11 .46 3.61 .11 1199.60
 54710.0 28401.1 15435.2 10873.7 8359.9 1764.1 3165.5 582.7 95.4 1201.00
 .12 3.40 8.75 3.44 .060 .040 .070 .000 1194.60 87.85
 .001245 2140. 2140. 2140. 2 0 0 .00 1686.24 1774.09

*SECNO 2300.000
 2300.000 18.76 1213.56 .00 .00 1214.37 .80 .16 .10 1199.80
 54710.0 22550.2 19028.3 13131.5 6077.7 1736.3 3069.5 610.5 99.3 1201.20
 .13 3.71 10.96 4.28 .060 .040 .070 .000 1194.80 88.78
 .001996 100. 100. 100. 2 0 0 .00 1682.92 1771.70

*SECNO 2650.000
 2650.000 18.61 1214.31 .00 .00 1215.05 .74 .68 .01 1200.70
 54710.0 23589.6 18358.2 12762.2 6471.7 1723.1 3072.0 699.5 112.8 1201.00
 .14 3.65 10.65 4.15 .060 .040 .070 .000 1195.70 85.63
 .001886 350. 350. 350. 2 0 0 .00 1687.72 1773.34

*SECNO 3000.000
 3000.000 18.38 1214.88 .00 .00 1215.77 .75 .67 .01 1200.60

SECNO 3534.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3534.000	21.61	1218.91	.00	.00	1219.82	.91	.07	.00	1220.70
54710.0	31395.9	23314.1	.0	4295.6	2881.3	.0	890.4	142.1	1218.20
.17	7.31	8.09	.00	.040	.030	.000	.000	1197.30	78.07
.003938	18.	18.	18.	1	0	0	-229.66	1069.40	1276.00

CCHV= .100 CEHV= .300

*SECNO 3535.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3535.000	20.93	1218.23	.00	.00	1220.12	1.89	.00	.30	1220.70
54710.0	16913.5	37796.5	.0	3752.2	2921.8	.0	890.6	142.1	1218.20
.17	4.51	12.94	.00	.070	.040	.000	.000	1197.30	80.62
.005423	1.	1.	1.	3	0	0	.00	1058.05	1276.00

08JAN92 07:23:03

PAGE 41

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
B	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSFA
SLOPE	XLOBL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3560.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3560.000	21.10	1218.30	1218.30	.00	1221.08	2.77	.15	.26	1208.00
54710.0	21351.6	29634.9	3723.5	4885.3	1689.9	450.8	894.5	142.7	1205.00
.18	4.37	17.54	8.26	.070	.040	.060	.000	1197.20	80.36
.004760	25.	25.	25.	20	5	0	.00	1095.50	1175.85

*SECNO 3585.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3585.000	21.35	1219.35	1218.61	.00	1221.27	1.91	.10	.09	1208.00
54710.0	24651.8	26392.7	3665.6	5890.1	1733.9	499.5	898.9	143.3	1205.00
.18	4.19	15.22	7.34	.070	.040	.060	.000	1198.00	76.49
.003429	25.	25.	25.	22	6	0	.00	1100.97	1177.46

*SECNO 3645.000

3301 HV CHANGED MORE THAN HVINS

3645.000	21.56	1220.56	.00	.00	1221.82	1.26	.48	.07	1209.00
54710.0	29347.6	22094.7	3267.7	7044.1	1697.0	499.9	930.7	147.4	1206.00
.18	4.17	13.10	6.54	.070	.040	.060	.000	1199.00	72.02
.002698	160.	160.	160.	3	0	0	.00	1107.26	1179.28

*SECNO 3900.000

3900.000	18.29	1221.29	.00	.00	1222.24	.96	.40	.03	1209.00
54710.0	32739.5	18535.5	3435.0	7754.6	1549.4	537.4	964.7	151.4	1206.00
.19	4.22	11.96	6.39	.070	.040	.060	.000	1203.00	69.31
.002447	155.	155.	155.	2	0	0	.00	1127.92	1197.23

*SECNO 4000.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

4000.000	18.95	1220.95	1220.95	.00	1224.53	3.59	.45	.79	1206.90
54710.0	27927.0	26718.0	64.9	4763.2	1279.1	24.6	982.9	153.5	1208.50
.19	5.86	20.69	2.64	.100	.050	.090	.000	1202.00	373.28
.010988	100.	100.	100.	20	8	0	.00	750.68	1123.95

*SECNO 4200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

4200.000	22.55	1224.55	.00	.00	1225.98	1.43	1.24	.22	1206.90
54710.0	32936.7	21696.3	76.9	7226.7	1531.4	40.9	1017.0	157.0	1208.50
.20	4.56	14.17	1.88	.100	.050	.090	.000	1202.00	359.42
.003977	200.	200.	200.	3	0	0	.00	765.68	1125.10

*SECNO 4400.000

4400.000	20.68	1225.68	.00	.00	1226.76	1.08	.74	.04	1206.90
54710.0	36233.0	18391.1	85.9	8010.3	1426.1	46.9	1059.0	160.5	1208.50
.20	4.52	12.90	1.83	.100	.050	.090	.000	1205.00	355.07
.003449	200.	200.	200.	2	0	0	.00	770.39	1125.45

*SECNO 4750.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

4750.000	19.14	1227.14	.00	.00	1227.60	.46	.78	.06	1215.60
52655.0	30145.4	19371.6	3137.9	8987.1	2465.5	999.9	1147.1	167.2	1213.30
.22	3.35	7.86	3.14	.100	.050	.090	.000	1208.00	451.44
.001538	350.	350.	350.	2	0	0	.00	902.43	1353.88

1. 08JAN92 07:23:03

PAGE 43

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

5200.000	16.56	1227.56	.00	.00	1229.13	1.58	1.20	.33	1217.60
52655.0	23008.0	24070.8	5576.2	4593.6	1737.5	1058.4	1249.6	175.7	1215.30
.24	5.01	13.85	5.27	.100	.050	.090	.000	1211.00	628.26
.005693	450.	450.	450.	2	0	0	.00	725.52	1353.78

*SECNO 5600.000

5600.000	17.14	1230.14	.00	.00	1231.26	1.12	2.08	.05	1218.00
52655.0	21540.1	19848.0	11266.9	4078.5	1600.4	3092.0	1323.8	183.6	1224.00
.25	5.28	12.40	3.64	.100	.050	.090	.000	1213.00	759.44
.004779	400.	400.	400.	3	0	0	.00	1007.70	1767.14

*SECNO 6700.000

3301 HV CHANGED MORE THAN HVINS

3720 CRITICAL DEPTH ASSUMED

7600.000	17.07	1236.97	1236.97	.00	1238.91	1.94	7.47	.25	1225.00
52655.0	29.1	22984.9	29841.0	14.3	1408.5	7510.7	1547.4	219.7	1222.40
.28	2.03	16.32	3.95	.070	.050	.090	.000	1219.90	2.61
.007404	1100.	1100.	1100.	3	6	0	.00	1854.16	1856.77

*SECNO 7600.000

3301 HV CHANGED MORE THAN HVINS

7600.000	14.68	1241.08	.00	.00	1242.23	1.14	3.23	.09	1232.00
52655.0	292.3	16485.5	35877.2	68.8	1220.5	7342.8	1609.5	228.3	1229.80
.30	4.25	13.51	4.89	.070	.050	.090	.000	1226.40	14.86
.006544	900.	900.	200.	2	0	0	.00	1206.81	1221.67

08JAN92 07:23:03

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	LOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8600.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

8600.000	17.29	1249.89	1249.89	.00	1253.87	3.98	7.88	.85	1236.00
52655.0	1.0	35409.4	17244.6	2.2	1851.3	3060.6	1765.0	249.0	1235.70
.32	.47	19.13	5.62	.090	.050	.090	.000	1232.60	.68
.009681	1000.	1000.	1000.	20	11	0	.00	596.65	597.34

1490 NH CARD USED
*SECNO 9500.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATID = 1.79

9500.000	18.81	1257.81	.00	.00	1258.64	.83	4.46	.32	1243.00
52655.0	7443.3	37671.7	7540.0	1480.9	4562.5	2668.7	1905.7	265.1	1243.00
.34	5.03	8.26	2.83	.090	.057	.090	.000	1239.00	59.98
.003006	900.	900.	900.	2	0	0	.00	957.83	1017.81

*SECNO 10400.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

10400.000	17.14	1262.44	1262.44	.00	1266.55	4.11	4.20	.98	1249.00
52655.0	1.6	35626.4	17027.0	2.9	1833.1	3168.0	2047.4	281.1	1248.40
.37	.54	19.43	5.37	.090	.045	.090	.000	1245.30	.57
.008211	900.	900.	900.	20	15	0	.00	595.91	597.48

*SECNO 12550.000

08JAN92 07:23:03

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	LOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

12550.000	17.18	1279.68	.00	.00	1282.34	2.66	15.64	.15	1265.60
52655.0	10385.1	26466.0	15803.9	1565.2	1565.5	1988.8	2297.3	304.8	1265.10
.42	6.63	16.91	7.95	.090	.045	.090	.000	1262.50	.47
.006489	2150.	2150.	2150.	2	0	0	.00	362.47	362.94

1000.000	15.08	1295.88	.00	.00	1298.96	3.08	16.50	.13	1284.80
51150.0	11268.6	35731.3	4150.1	2279.6	2164.1	711.8	2586.2	331.9	1285.70
.47	4.94	16.51	5.83	.090	.045	.090	.000	1280.80	.82
.007003	2450.	2450.	2450.	3	0	0	.00	599.83	600.66

SECNO 17250.000
3280 CROSS SECTION 17250.00 EXTENDED 2.09 FEET

3301 HV CHANGED MORE THAN HVINS

17250.000	19.79	1311.59	.00	.00	1316.29	4.69	16.84	.48	1291.90
51150.0	11928.8	39201.1	20.1	1390.9	2032.2	11.1	2808.1	353.3	1310.00
.51	8.58	19.29	1.82	.090	.045	.090	.000	1291.80	11.21
.008015	2250.	2250.	2250.	2	0	0	.00	228.79	240.00

OBJAN92 07:23:03

PAGE 46

THIS RUN EXECUTED OBJAN92 07:23:38

HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1971

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LINVILLE RIVER BURYE CO.

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CNSL	CRWS	EG	10*KS	VCH	AREA	.01K
10.000	.00	.00	.00	1194.00	11350.00	1202.45	.00	1204.16	29.56	10.60	1165.25	2087.72
10.000	.00	.00	.00	1194.00	23225.00	1205.82	.00	1207.14	19.88	10.93	4708.97	5208.65
10.000	.00	.00	.00	1194.00	30500.00	1206.71	.00	1208.08	20.92	11.77	6125.34	6668.69
10.000	.00	.00	.00	1194.00	54710.00	1208.55	.00	1210.25	26.48	14.52	9570.17	10632.43
11.000	1.00	.00	.00	1194.00	11350.00	1202.45	.00	1204.17	29.52	10.59	1165.91	2089.06
11.000	1.00	.00	.00	1194.00	23225.00	1205.82	.00	1207.14	19.86	10.92	4711.90	5211.55
11.000	1.00	.00	.00	1194.00	30500.00	1206.71	.00	1208.08	20.89	11.77	6128.83	6672.43
11.000	1.00	.00	.00	1194.00	54710.00	1208.56	.00	1210.25	26.44	14.51	9575.71	10639.20
13.000	2.00	.00	.00	1194.00	11350.00	1202.46	.00	1204.17	29.42	10.58	1167.60	2092.47
13.000	2.00	.00	.00	1194.00	23225.00	1205.83	.00	1207.14	19.79	10.91	4720.70	5220.25
13.000	2.00	.00	.00	1194.00	30500.00	1206.72	.00	1208.09	20.83	11.75	6138.70	6682.99
13.000	2.00	.00	.00	1194.00	54710.00	1208.57	.00	1210.26	26.35	14.49	9591.32	10658.30
15.000	2.00	.00	.00	1194.00	11350.00	1202.48	.00	1204.18	29.29	10.57	1169.88	2097.05
15.000	2.00	.00	.00	1194.00	23225.00	1205.84	.00	1207.15	19.70	10.89	4733.72	5233.13
15.000	2.00	.00	.00	1194.00	30500.00	1206.73	.00	1208.09	20.73	11.73	6153.92	6699.31
15.000	2.00	.00	.00	1194.00	54710.00	1208.66	.00	1210.27	25.06	14.20	9812.38	10929.76
20.000	5.00	.00	.00	1194.02	11350.00	1202.49	.00	1204.19	29.29	10.57	1169.88	2097.05
20.000	5.00	.00	.00	1194.02	23225.00	1205.85	.00	1207.16	19.73	10.89	4729.50	5228.96
20.000	5.00	.00	.00	1194.02	30500.00	1206.74	.00	1208.10	20.75	11.74	6150.42	6695.56
20.000	5.00	.00	.00	1194.02	54710.00	1208.67	.00	1210.29	25.17	14.23	9792.53	10905.31
60.000	40.00	.00	.00	1194.10	11350.00	1202.65	.00	1204.31	28.34	10.46	1187.41	2132.18
60.000	40.00	.00	.00	1194.10	23225.00	1205.93	.00	1207.24	19.76	10.90	4725.65	5225.14
60.000	40.00	.00	.00	1194.10	30500.00	1206.83	.00	1208.13	20.73	11.73	6153.72	6699.09
60.000	40.00	.00	.00	1194.10	54710.00	1208.84	.00	1210.39	24.17	14.00	9973.61	11128.91
* 2200.000	2140.00	.00	.00	1194.60	11350.00	1207.25	.00	1207.52	8.64	5.40	3713.68	3861.09
2200.000	2140.00	.00	.00	1194.60	23225.00	1209.96	.00	1210.31	10.30	6.81	7164.40	7234.89
2200.000	2140.00	.00	.00	1194.60	30500.00	1211.04	.00	1211.41	10.84	7.34	8933.80	9262.70
2200.000	2140.00	.00	.00	1194.60	54710.00	1213.65	.00	1214.11	12.45	8.75	13289.46	15503.53

OBJAN92 07:23:03

PAGE 47

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CNSL	CRWS	EG	10*KS	VCH	AREA	.01K
2300.000	100.00	.00	.00	1194.80	11350.00	1207.26	.00	1207.66	11.48	6.15	2951.22	3349.57
2300.000	100.00	.00	.00	1194.80	23225.00	1209.86	.00	1210.54	17.28	8.69	4779.38	5586.49
2300.000	100.00	.00	.00	1194.80	30500.00	1210.92	.00	1211.66	18.90	9.55	6470.52	7015.87
2300.000	100.00	.00	.00	1194.80	54710.00	1213.57	.00	1214.37	19.90	10.10	8933.80	9262.70

250.000	350.00	.00	.00	1195.70	11350.00	1207.65	.00	1208.12	13.83	8.59	2729.53	3052.33
2650.000	350.00	.00	.00	1195.70	23225.00	1210.46	.00	1211.17	18.40	8.89	4864.21	5414.79
2650.000	350.00	.00	.00	1195.70	30500.00	1211.61	.00	1212.32	18.66	9.46	6747.67	7059.74
2650.000	350.00	.00	.00	1195.70	54710.00	1214.31	.00	1215.05	18.86	10.65	11266.78	12597.13
3000.000	350.00	.00	.00	1196.60	11350.00	1208.12	.00	1208.69	17.33	7.13	2472.77	2726.73
3000.000	350.00	.00	.00	1196.60	23225.00	1211.10	.00	1211.87	20.68	9.24	4731.78	5107.66
3000.000	350.00	.00	.00	1196.60	30500.00	1212.27	.00	1213.01	20.21	9.67	6659.59	6784.58
3000.000	350.00	.00	.00	1196.60	54710.00	1214.98	.00	1215.73	19.61	10.71	11215.88	12355.69
3220.000	220.00	.00	.00	1198.30	11350.00	1208.20	.00	1209.46	41.52	19.05	1521.62	1761.36
3220.000	220.00	.00	.00	1198.30	23225.00	1210.45	.00	1213.27	74.39	15.30	2065.10	2692.68
3220.000	220.00	.00	.00	1198.30	30500.00	1212.66	1212.66	1214.63	47.91	13.88	4210.13	4406.53
3220.000	220.00	.00	.00	1198.30	54710.00	1214.79	1214.79	1217.13	56.50	16.67	6727.20	7278.66
3440.000	220.00	.00	.00	1200.00	11350.00	1209.12	.00	1210.51	51.24	10.64	1442.71	1585.60
3440.000	220.00	.00	.00	1200.00	23225.00	1213.47	.00	1214.36	25.87	9.83	4773.77	4566.36
3440.000	220.00	.00	.00	1200.00	30500.00	1214.62	.00	1215.48	24.78	10.21	6129.22	6126.97
3440.000	220.00	.00	.00	1200.00	54710.00	1217.04	.00	1218.11	28.43	12.21	9003.75	10261.07
3515.000	75.00	.00	.00	1197.30	11350.00	1209.14	1209.14	1212.12	142.28	13.84	819.80	951.54
3515.000	75.00	.00	.00	1197.30	23225.00	1214.06	1214.06	1216.12	71.51	11.83	2464.51	2746.44
3515.000	75.00	.00	.00	1197.30	30500.00	1215.19	1215.19	1217.18	64.80	12.19	3555.67	3788.93
3515.000	75.00	.00	.00	1197.30	54710.00	1217.11	1217.11	1219.73	78.51	14.94	5507.67	6174.63
3516.000	1.00	1221.00	1220.70	1197.30	11350.00	1207.34	1209.34	1212.28	106.99	13.76	825.12	1077.31
3516.000	1.00	1221.00	1220.70	1197.30	23225.00	1214.79	1214.53	1216.13	41.00	10.02	3072.79	3627.12
3516.000	1.00	1221.00	1220.70	1197.30	30500.00	1216.17	1215.17	1217.20	31.30	9.30	4455.73	5451.99
3516.000	1.00	1221.00	1220.70	1197.30	54710.00	1218.82	.00	1219.75	40.70	8.23	7100.80	8576.07
3534.000	18.00	1221.00	1220.70	1197.30	11350.00	1210.32	.00	1212.45	76.87	11.72	968.60	1294.57
3534.000	18.00	1221.00	1220.70	1197.30	23225.00	1215.08	.00	1216.20	34.18	9.28	3365.26	3972.47
3534.000	18.00	1221.00	1220.70	1197.30	30500.00	1216.27	.00	1217.25	29.89	9.11	4540.97	5578.87
3534.000	18.00	1221.00	1220.70	1197.30	54710.00	1218.91	.00	1219.82	39.38	8.09	7176.96	8717.89
3535.000	1.00	.00	.00	1197.30	11350.00	1210.82	.00	1212.50	83.27	10.40	1091.83	1243.82
3535.000	1.00	.00	.00	1197.30	23225.00	1214.87	.00	1216.30	46.55	10.11	3239.23	3404.13
3535.000	1.00	.00	.00	1197.30	30500.00	1215.90	.00	1217.42	46.75	10.82	4269.98	4460.65
3535.000	1.00	.00	.00	1197.30	54710.00	1218.23	.00	1220.12	54.23	12.94	6674.06	7429.59
3560.000	25.00	.00	.00	1197.20	11350.00	1211.08	.00	1212.63	31.15	10.26	1223.42	2033.56
3560.000	25.00	.00	.00	1197.20	23225.00	1214.91	1214.91	1217.09	35.22	13.20	3334.18	3913.72
3560.000	25.00	.00	.00	1197.20	30500.00	1216.02	1216.02	1218.26	37.04	14.19	4540.90	5011.71
3560.000	25.00	.00	.00	1197.20	54710.00	1218.30	1218.30	1221.08	47.60	17.54	7025.96	7929.92

08JAN92 07:23:03

PAGE 48

SECNO	XLCH	ELTPD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10+KS	VCH	AREA	.01K
3585.000	25.00	.00	.00	1198.00	11350.00	1211.06	.00	1212.76	36.19	10.75	1171.00	1886.72
3585.000	25.00	.00	.00	1198.00	23225.00	1215.62	.00	1217.22	27.68	11.85	4053.52	4414.65
3585.000	25.00	.00	.00	1198.00	30500.00	1216.78	.00	1218.40	28.58	12.63	5312.33	5705.65
3585.000	25.00	.00	.00	1198.00	54710.00	1219.35	1218.61	1221.27	34.29	15.22	8123.53	9343.41
3645.000	160.00	.00	.00	1199.00	11350.00	1211.37	.00	1213.70	62.95	12.59	995.03	1430.56
3645.000	160.00	.00	.00	1199.00	23225.00	1216.61	.00	1217.69	23.81	10.47	4898.83	4760.04
3645.000	160.00	.00	.00	1199.00	30500.00	1217.81	.00	1218.87	23.70	11.02	6209.05	6264.77
3645.000	160.00	.00	.00	1199.00	54710.00	1220.56	.00	1221.82	26.98	13.10	9230.97	10532.46
3900.000	155.00	.00	.00	1203.00	11350.00	1212.21	.00	1215.04	95.87	14.13	909.93	1159.17
3900.000	155.00	.00	.00	1203.00	23225.00	1217.32	.00	1218.07	21.97	9.48	5482.60	4955.09
3900.000	155.00	.00	.00	1203.00	30500.00	1218.48	.00	1219.25	22.04	10.06	6746.33	6497.33
3900.000	155.00	.00	.00	1203.00	54710.00	1221.29	.00	1222.24	24.47	11.96	9841.33	11059.99
4000.000	100.00	.00	.00	1202.00	11350.00	1213.17	.00	1216.07	106.43	14.20	943.20	1100.16
4000.000	100.00	.00	.00	1202.00	23225.00	1217.34	1217.34	1219.77	77.37	15.13	3381.86	2640.35
4000.000	100.00	.00	.00	1202.00	30500.00	1218.37	1218.37	1221.09	86.64	16.76	4142.07	3276.78
4000.000	100.00	.00	.00	1202.00	54710.00	1220.95	1220.95	1224.53	109.88	20.89	6066.91	5219.26
4200.000	200.00	.00	.00	1202.00	11350.00	1216.36	.00	1217.27	28.81	8.82	2660.19	2114.53
4200.000	200.00	.00	.00	1202.00	23225.00	1219.90	.00	1220.80	28.26	10.18	5277.49	4368.75
4200.000	200.00	.00	.00	1202.00	30500.00	1221.21	.00	1222.24	31.40	11.27	6264.34	5442.99
4200.000	200.00	.00	.00	1202.00	54710.00	1224.55	.00	1225.98	39.77	14.17	8798.92	8675.69
4400.000	200.00	.00	.00	1205.00	11350.00	1217.20	.00	1217.87	29.12	8.28	3101.13	2103.42
4400.000	200.00	.00	.00	1205.00	23225.00	1220.70	.00	1221.37	26.85	9.44	5695.51	4482.32
4400.000	200.00	.00	.00	1205.00	30500.00	1222.10	.00	1222.87	28.79	10.36	6753.62	5684.76
4400.000	200.00	.00	.00	1205.00	54710.00	1225.68	.00	1226.76	34.49	12.90	9483.24	9316.45
4750.000	350.00	.00	.00	1208.00	10900.00	1218.38	.00	1218.55	11.86	4.38	4723.51	3165.32
4750.000	350.00	.00	.00	1208.00	22340.00	1221.79	.00	1222.03	12.13	5.49	7687.55	6415.06
4750.000	350.00	.00	.00	1208.00	29340.00	1223.28	.00	1223.57	12.97	6.13	9003.17	8147.59
4750.000	350.00	.00	.00	1208.00	52655.00	1227.14	.00	1227.60	15.38	7.86	12452.56	13426.65
5200.000	450.00	.00	.00	1211.00	10800.00	1218.42	1218.42	1219.14	88.44	11.85	4723.51	3165.32

5200.000	450.00	.00	.00	1211.00	22340.00	1221.87	.00	1223.68	93.72	13.15	3303.96	2307.67
5200.000	450.00	.00	.00	1211.00	29340.00	1223.55	.00	1225.11	72.71	12.85	4498.87	3440.89
5200.000	450.00	.00	.00	1211.00	52655.00	1227.56	.00	1229.13	56.93	13.85	7389.50	6978.78
5600.000	400.00	.00	.00	1213.00	10900.00	1222.99	.00	1223.57	38.60	7.52	2487.67	1754.53
5600.000	400.00	.00	.00	1213.00	22340.00	1225.53	.00	1226.49	51.58	10.24	4199.58	3110.54
5600.000	400.00	.00	.00	1213.00	29340.00	1226.59	.00	1227.68	55.50	11.29	5239.65	3938.40
5600.000	400.00	.00	.00	1213.00	52655.00	1230.14	.00	1231.26	47.79	12.40	8770.93	7617.17
6700.000	1100.00	.00	.00	1219.90	10900.00	1228.68	.00	1231.62	142.43	14.25	878.78	913.33
6700.000	1100.00	.00	.00	1219.90	22340.00	1234.53	1234.53	1236.15	52.86	12.40	4446.40	3072.70
6700.000	1100.00	.00	.00	1219.90	29340.00	1235.36	1235.36	1236.95	55.47	13.19	5951.51	3939.46
6700.000	1100.00	.00	.00	1219.90	52655.00	1236.97	1236.97	1238.91	74.04	16.32	8933.55	6119.49

OBJAN92 07:23:03

PAGE 49

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10*KS	VCH	AREA	.01K
7600.000	900.00	.00	.00	1226.40	10900.00	1236.29	.00	1236.89	40.90	7.98	3094.18	1704.34
7600.000	900.00	.00	.00	1226.40	22340.00	1238.36	.00	1239.01	43.41	9.47	5423.85	3390.65
7600.000	900.00	.00	.00	1226.40	29340.00	1239.08	.00	1239.87	51.07	10.72	6242.48	4105.77
7600.000	900.00	.00	.00	1226.40	52655.00	1241.08	.00	1242.23	65.44	13.51	8632.08	6508.86
8600.000	1000.00	.00	.00	1232.60	10900.00	1241.23	.00	1243.42	98.83	11.94	946.98	1096.46
8600.000	1000.00	.00	.00	1232.60	22340.00	1245.42	1245.42	1248.35	84.65	14.56	2260.90	2428.16
8600.000	1000.00	.00	.00	1232.60	29340.00	1246.90	1246.90	1249.93	82.22	15.48	3134.36	3235.77
8600.000	1000.00	.00	.00	1232.60	52655.00	1249.89	1249.89	1253.87	96.81	19.13	4914.13	5351.53
9500.000	900.00	.00	.00	1239.00	10900.00	1248.56	.00	1249.02	40.57	5.76	2147.05	1711.36
9500.000	900.00	.00	.00	1239.00	22340.00	1252.59	.00	1252.97	31.67	6.51	3888.85	3969.64
9500.000	900.00	.00	.00	1239.00	29340.00	1253.88	.00	1254.57	32.50	7.16	5002.36	5146.61
9500.000	900.00	.00	.00	1239.00	52655.00	1257.81	.00	1258.64	30.06	8.26	8712.08	9604.12
10400.000	900.00	.00	.00	1245.30	10900.00	1252.84	1252.57	1255.80	131.08	13.86	823.91	952.04
10400.000	900.00	.00	.00	1245.30	22340.00	1257.75	1257.75	1260.80	75.01	14.90	2246.44	2579.42
10400.000	900.00	.00	.00	1245.30	29340.00	1259.28	1259.28	1262.46	72.52	15.87	3116.94	3445.23
10400.000	900.00	.00	.00	1245.30	52655.00	1262.44	1262.44	1266.55	82.11	19.43	5004.07	5810.82
12550.000	2150.00	.00	.00	1262.50	10900.00	1271.14	.00	1271.93	47.49	8.76	2034.80	1581.63
12550.000	2150.00	.00	.00	1262.50	22340.00	1273.91	.00	1275.34	60.00	12.11	3032.88	2884.01
12550.000	2150.00	.00	.00	1262.50	29340.00	1275.37	.00	1277.13	63.09	13.55	3559.11	3693.74
12550.000	2150.00	.00	.00	1262.50	52655.00	1279.68	.00	1282.34	64.89	16.91	5119.48	6536.68
15000.000	2450.00	.00	.00	1280.80	10580.00	1287.21	.00	1289.28	112.03	11.62	967.76	999.59
15000.000	2450.00	.00	.00	1280.80	21690.00	1290.59	1290.42	1293.16	86.76	15.69	2268.45	2328.58
15000.000	2450.00	.00	.00	1280.80	28490.00	1292.05	.00	1294.75	80.24	14.48	3000.37	3180.44
15000.000	2450.00	.00	.00	1280.80	51150.00	1295.88	.00	1298.96	70.03	16.51	5155.53	6112.47
17250.000	2250.00	.00	.00	1291.80	10580.00	1302.16	.00	1303.26	38.98	9.06	1452.09	1694.48
17250.000	2250.00	.00	.00	1291.80	21690.00	1305.99	.00	1308.05	51.79	12.59	2208.68	3014.03
17250.000	2250.00	.00	.00	1291.80	28490.00	1307.58	.00	1310.24	59.72	14.38	2545.09	3686.54
17250.000	2250.00	.00	.00	1291.80	51150.00	1311.59	.00	1316.29	80.15	19.29	3434.15	5713.35

OBJAN92 07:23:03

PAGE 50

LINVILLE RIVER BURKE CO.

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
10.000	11350.00	1202.45	.00	.00	.00	227.06	.00
10.000	23225.00	1205.82	3.37	.00	.00	1499.89	.00
10.000	30500.00	1206.71	.89	.00	.00	1682.91	.00
10.000	54710.00	1208.55	1.84	.00	.00	2061.30	.00
11.000	11350.00	1202.45	.00	.00	.00	227.20	1.00
11.000	23225.00	1205.82	3.37	.00	.00	1500.29	1.00
11.000	30500.00	1206.71	.89	.00	.00	1683.33	1.00
11.000	54710.00	1208.56	1.84	.01	.00	2061.85	1.00
13.000	11350.00	1202.46	.00	.01	.00	227.53	2.00
13.000	23225.00	1205.83	3.37	.01	.00	1501.49	2.00
13.000	30500.00	1206.72	.89	.01	.00	1684.54	2.00
13.000	54710.00	1208.57	1.84	.01	.00	2063.40	2.00
15.000	11350.00	1202.48	.00	.01	.00	227.99	2.00
15.000	23225.00	1205.84	3.37	.01	.00	1503.27	2.00
15.000	30500.00	1206.73	.89	.01	.00	1686.39	2.00
15.000	54710.00	1208.66	1.93	.10	.00	2085.32	2.00
20.000	11350.00	1202.49	.00	.01	.00	227.99	5.00
20.000	23225.00	1205.85	3.37	.01	.00	1503.27	5.00

3000.00	11350.00	1206.74	.89	.01	.00	1685.97	5.00
3000.00	23225.00	1208.67	1.93	.01	.00	2083.36	5.00
60.000	11350.00	1202.65	.00	.16	.00	231.45	40.00
60.000	23225.00	1205.93	3.28	.08	.00	1502.17	40.00
60.000	30500.00	1206.83	.90	.08	.00	1686.37	40.00
60.000	54710.00	1208.84	2.01	.17	.00	2101.16	40.00
* 2200.000	11350.00	1207.25	.00	4.60	.00	908.31	2140.00
* 2200.000	23225.00	1209.96	2.71	4.03	.00	1633.12	2140.00
* 2200.000	30500.00	1211.04	1.07	4.21	.00	1655.20	2140.00
* 2200.000	54710.00	1213.65	2.61	4.80	.00	1686.24	2140.00
2300.000	11350.00	1207.26	.00	.01	.00	565.76	100.00
2300.000	23225.00	1209.86	2.60	-.11	.00	1321.37	100.00
2300.000	30500.00	1210.92	1.06	-.12	.00	1651.41	100.00
2300.000	54710.00	1213.56	2.65	-.08	.00	1682.92	100.00
2650.000	11350.00	1207.65	.00	.39	.00	499.70	350.00
2650.000	23225.00	1210.46	2.81	.61	.00	1640.95	350.00
2650.000	30500.00	1211.61	1.14	.69	.00	1654.85	350.00
2650.000	54710.00	1214.31	2.70	.75	.00	1687.72	350.00

08JAN92 07:23:03

PAGE 51

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
3000.000	11350.00	1208.12	.00	.47	.00	487.95	350.00
3000.000	23225.00	1211.10	2.98	.64	.00	1640.89	350.00
3000.000	30500.00	1212.27	1.16	.66	.00	1655.42	350.00
3000.000	54710.00	1214.98	2.72	.67	.00	1689.27	350.00
* 3220.000	11350.00	1208.20	.00	.08	.00	229.15	220.00
* 3220.000	23225.00	1210.45	2.25	-.65	.00	323.59	220.00
* 3220.000	30500.00	1212.66	2.20	.39	.00	1174.12	220.00
* 3220.000	54710.00	1214.79	2.13	-.19	.00	1184.45	220.00
3440.000	11350.00	1209.12	.00	.92	.00	228.86	220.00
* 3440.000	23225.00	1213.47	4.35	3.02	.00	1177.29	220.00
3440.000	30500.00	1214.62	1.15	1.96	.00	1182.97	220.00
* 3440.000	54710.00	1217.04	2.42	2.25	.00	1194.91	220.00
* 3515.000	11350.00	1209.14	.00	.02	.00	143.01	75.00
* 3515.000	23225.00	1214.00	4.92	.58	.00	894.23	75.00
* 3515.000	30500.00	1215.19	1.13	.57	.00	996.64	75.00
* 3515.000	54710.00	1217.11	1.93	.07	.00	1031.79	75.00
* 3516.000	11350.00	1209.34	.00	.20	.00	145.83	1.00
3516.000	23225.00	1214.79	5.45	.73	.00	989.79	1.00
* 3516.000	30500.00	1216.17	1.39	.98	.00	1014.16	1.00
3516.000	54710.00	1218.82	2.65	1.70	.00	1068.16	1.00
3534.000	11350.00	1210.32	.00	.98	.00	172.95	18.00
3534.000	23225.00	1215.08	4.77	.30	.00	994.84	18.00
3534.000	30500.00	1216.27	1.19	.10	.00	1015.77	18.00
3534.000	54710.00	1218.91	2.64	.09	.00	1069.40	18.00
3535.000	11350.00	1210.82	.00	.51	.00	195.38	1.00
3535.000	23225.00	1214.87	4.04	-.22	.00	991.26	1.00
3535.000	30500.00	1215.90	1.03	-.37	.00	1008.89	1.00
3535.000	54710.00	1218.23	2.33	-.68	.00	1059.05	1.00
* 3560.000	11350.00	1211.08	.00	.26	.00	140.15	25.00
* 3560.000	23225.00	1214.91	3.82	.04	.00	1077.69	25.00
* 3560.000	30500.00	1216.02	1.12	.12	.00	1083.54	25.00
* 3560.000	54710.00	1218.30	2.28	.07	.00	1095.50	25.00
3585.000	11350.00	1211.06	.00	-.02	.00	140.04	25.00
3585.000	23225.00	1215.62	4.55	.71	.00	1081.42	25.00
3585.000	30500.00	1216.78	1.17	.76	.00	1087.51	25.00
* 3585.000	54710.00	1219.35	2.57	1.05	.00	1100.97	25.00
3645.000	11350.00	1211.37	.00	.31	.00	140.30	160.00
3645.000	23225.00	1216.61	5.24	1.00	.00	1086.26	160.00
3645.000	30500.00	1217.81	1.20	1.03	.00	1092.65	160.00
3645.000	54710.00	1220.55	2.74	1.20	.00	1107.26	160.00

08JAN92 07:23:03

PAGE 52

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
3900.000	11350.00	1212.21	.00	.83	.00	149.95	155.00
3900.000	23225.00	1217.32	5.11	.71	.00	1090.11	155.00
3900.000	30500.00	1218.48	1.14	.17	.00	1091.51	155.00

	4710.00	1221.27	2.80	.73	.00	1127.92	155.00
* 4000.000	11350.00	1213.17	.00	.96	.00	116.90	100.00
* 4000.000	23225.00	1217.34	4.17	.02	.00	735.63	100.00
* 4000.000	30500.00	1218.37	1.03	-.11	.00	739.92	100.00
* 4000.000	54710.00	1220.95	2.58	-.34	.00	750.68	100.00
* 4200.000	11350.00	1216.36	.00	3.1	.00	731.54	200.00
* 4200.000	23225.00	1219.90	3.53	2.56	.00	744.28	200.00
* 4200.000	30500.00	1221.21	1.32	2.85	.00	751.77	200.00
* 4200.000	54710.00	1224.55	3.34	3.61	.00	765.68	200.00
4400.000	11350.00	1217.20	.00	.84	.00	735.09	200.00
4400.000	23225.00	1220.70	3.49	.80	.00	749.64	200.00
4400.000	30500.00	1222.10	1.41	.89	.00	755.49	200.00
4400.000	54710.00	1225.68	3.58	1.13	.00	770.39	200.00
* 4750.000	10900.00	1218.38	.00	1.18	.00	848.47	350.00
* 4750.000	22340.00	1221.79	3.41	1.09	.00	878.48	350.00
* 4750.000	29340.00	1223.28	1.49	1.18	.00	885.16	350.00
* 4750.000	52655.00	1227.14	3.86	1.46	.00	902.43	350.00
* 5200.000	10900.00	1219.42	.00	1.04	.00	634.06	450.00
* 5200.000	22340.00	1221.87	2.45	.08	.00	709.73	450.00
* 5200.000	29340.00	1223.55	1.68	.27	.00	714.39	450.00
* 5200.000	52655.00	1227.56	4.01	.42	.00	725.52	450.00
* 5600.000	10900.00	1222.99	.00	3.57	.00	431.53	400.00
5600.000	22340.00	1225.53	2.54	3.66	.00	973.86	400.00
5600.000	29340.00	1226.59	1.06	3.04	.00	981.66	400.00
5600.000	52655.00	1230.14	3.55	2.58	.00	1007.70	400.00
* 6700.000	10900.00	1228.68	.00	5.69	.00	140.59	1100.00
* 6700.000	22340.00	1234.53	5.85	9.00	.00	1818.77	1100.00
* 6700.000	29340.00	1235.36	.82	8.77	.00	1830.72	1100.00
* 6700.000	52655.00	1236.97	1.62	6.83	.00	1854.16	1100.00
* 7600.000	10900.00	1236.29	.00	7.60	.00	1102.91	900.00
7600.000	22340.00	1238.36	2.07	3.83	.00	1147.77	900.00
7600.000	29340.00	1239.08	.72	3.72	.00	1163.12	900.00
7600.000	52655.00	1241.08	2.01	4.11	.00	1206.81	900.00
* 8600.000	10900.00	1241.23	.00	4.95	.00	130.83	1000.00
* 8600.000	22340.00	1245.42	4.18	7.06	.00	558.26	1000.00
* 8600.000	29340.00	1246.90	1.49	7.83	.00	596.32	1000.00
* 8600.000	52655.00	1249.89	2.98	8.80	.00	596.65	1000.00

08JAN72 07:23:03

PAGE 53

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 9500.000	10900.00	1248.56	.00	7.33	.00	438.33	900.00
* 9500.000	22340.00	1252.39	3.83	6.97	.00	471.60	900.00
* 9500.000	29340.00	1253.88	1.50	6.98	.00	932.69	900.00
* 9500.000	52655.00	1257.81	3.93	7.93	.00	957.83	900.00
* 10400.000	10900.00	1252.84	.00	4.28	.00	148.66	900.00
* 10400.000	22340.00	1257.75	4.91	5.36	.00	537.48	900.00
* 10400.000	29340.00	1259.28	1.53	5.39	.00	596.36	900.00
* 10400.000	52655.00	1262.44	3.16	4.63	.00	596.91	900.00
* 12550.000	10900.00	1271.14	.00	18.30	.00	360.37	2150.00
12550.000	22340.00	1273.91	2.77	16.16	.00	361.05	2150.00
12550.000	29340.00	1275.37	1.46	16.09	.00	361.41	2150.00
12550.000	52655.00	1279.68	4.31	17.24	.00	362.47	2150.00
* 15000.000	10580.00	1287.21	.00	16.07	.00	207.96	2450.00
15000.000	21690.00	1290.59	3.38	16.68	.00	500.75	2450.00
15000.000	28490.00	1292.05	1.46	16.68	.00	503.02	2450.00
15000.000	51150.00	1295.88	3.83	15.20	.00	599.83	2450.00
* 17250.000	10580.00	1302.16	.00	14.95	.00	182.55	2250.00
17250.000	21690.00	1305.99	3.83	15.40	.00	208.43	2250.00
17250.000	28490.00	1307.58	1.60	15.53	.00	213.32	2250.00
17250.000	51150.00	1311.59	.01	15.71	.00	228.79	2250.00

08JAN72 07:23:03

PAGE 54

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING: SECNO = 2200.000, PROFILE = 1, CONFORMANCE CHANGE OUTSIDE ACCEPTABLE RANGE

08JAN92 07:44:17

PAGE 1

THIS RUN EXECUTED 08JAN92 07:44:17

HEC-2 WATER SURFACE PROFILESVersion 4.6.0; February 1991
*****T1 BURKE COUNTY LHM CESAH-PD WRB 11/91
T2 100-YEAR NATURAL
T3 LINVILLE RIVER BURKE CO.

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4							1206.71	

J2	NPROF	IFLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IEW	CHNIM	ITRACE
	1		-1							

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	150	0	200							
NC	.05	.07	.03	.1	.3					
QT	8	11350	23225	30500	54710	30500	30500	4120	14200	2860
ET							9.1		2000	
X1	10	13	2300	2428	10	10	10			
GR	1240	500	1210	600	1203	2030	1203	2200	1200	2300
GR	1194	2305	1194	2380	1194	2400	1194	2424	1201.0	2428
GR	1203	2452	1203	2950	1240	3000				
ET							9.1		2000	2860
X1	11				1	1	1			
ET							9.1		2000	2860
X1	13				2	2	2			
ET							9.1		2000	2860
X1	15				2	2	2			
ET							9.1		2000	2860
X1	20				5	5	5		.02	
ET							9.1		2000	2860
X1	60				40	40	40		.08	
NC	.06	.07	.04	.1	.3					
ET							9.1		860	1660

OBJA92

07:44:17

PAGE 2

*** SURVEYED SECTION #1 10/91

*** FIELD 8 QT IS 2-YR; FIELD 9 QT IS JULY 89 FLOOD

X1	2200	24	1328	1428	2140	2140	2140			
GR	1240	0	1210	100	1206.4	1030	1205.4	1091	1203.9	1134
GR	1202.4	1153	1199.7	1189	1206.7	1210	1204.9	1238	1199.7	1261
GR	1196.8	1275	1196.7	1297	1198.0	1308	1199.6	1328	1196.6	1347
GR	1194.6	1380	1194.6	1400	1196.6	1424	1201.0	1428	1202.8	1452
GR	1201.2	1479	1203	1541	1205	1700	1240	2000		
ET							9.1		860	1660
X1	2300	24	1328	1428	100	100	100		.20	
GR	1240	0	1210	100	1209	1030	1209	1091	1208	1134
GR	1207	1153	1207	1189	1206.7	1210	1204.9	1238	1199.7	1261
GR	1196.8	1275	1196.7	1297	1198.0	1308	1199.6	1328	1196.6	1347
GR	1194.6	1380	1194.6	1400	1196.6	1424	1201.0	1428	1202.8	1452
GR	1201.2	1479	1203	1541	1205	1700	1240	2000		
ET							9.1		860	1660
X1	2650	24	1328	1428	350	350	350			
GR	1240	0	1210	100	1210	1030	1210	1091	1209	1134
GR	1208	1153	1208	1189	1208	1210	1206	1238	1200.8	1261
GR	1197.9	1275	1197.8	1297	1199.1	1309	1200.7	1328	1197.7	1347
GR	1195.7	1380	1195.7	1400	1197.7	1424	1201.0	1428	1203.8	1452
GR	1202.2	1479	1204	1541	1206	1700	1240	2000		
ET							9.1		860	1660
X1	3000	24	1328	1428	350	350	350			
GR	1240	0	1210	100	1211	1030	1211	1091	1210	1134
GR	1209	1153	1209	1189	1209	1210	1207	1238	1201.7	1261
GR	1198.8	1275	1198.7	1297	1200.0	1308	1201.6	1328	1198.6	1347
GR	1196.6	1380	1196.6	1400	1198.6	1424	1203.0	1428	1204.8	1452
GR	1203.2	1479	1205	1541	1207	1700	1240	2000		
NC	.06	.07								
ET							9.1		480	1250
X1	3220	12	1030	1130	220	220	220			
X4	1	1211	600							
GR	1240	0	1211	100	1211	835	1210	1030	1198.3	1050
GR	1198.3	1125	1202	1130	1204	1250	1206.6	1260	1221	1280
GR	1222	1340	1240	1360						
ET							9.1		460	1240
X1	3440	12	1030	1130	220	220	220			
X4	1	1211	600							
GR	1240	0	1211	100	1211	835	1211	1030	1200.0	1050
GR	1200.0	1125	1203	1130	1205	1250	1207.6	1260	1221	1280
GR	1222	1340	1240	1360						
ET							9.1		460	1276
X1	3515	64	1000	1276	75	75	75			
X3	10							1213.0	1221	
X4	1	1213	600							
GR	1240	0	1211	100	1214.7	835	1219.8	880	1221.4	999
GR	1220.7	1000	1218.4	1001	1217.8	1010	1215.8	1020	1212.5	1030

08JAN92 07:44:17

PAGE 3

GR	1210	1034	1210	1034.1	1210	1034.9	1210	1035	1208.2	1040
GR	1204.0	1050	1200.7	1060	1199.4	1070	1199.3	1075	1199.3	1075.1
GR	1199.3	1075.9	1199.3	1076	1199.2	1080	1197.3	1090	1200.6	1100
GR	1200.7	1110	1202	1114.5	1202	1114.6	1202	1115.4	1202	1115.5
GR	1202.5	1120	1204.0	1125	1204.7	1130	1211.2	1140	1210.3	1150
GR	1210.3	1154	1210.3	1154.1	1210.1	1156.9	1210.1	1157	1210.1	1160
GR	1210.9	1170	1210.9	1180	1210.9	1190	1210.9	1154	1210.9	1194.1
GR	1208.8	1196.9	1208.8	1197	1208.8	1200	1211.0	1210	1210.7	1220
GR	1206.6	1230	1206.6	1234.7	1206.6	1234.8	1206.6	1237.6	1206.0	1237.7
GR	1206.0	1240	1206.0	1250	1207.6	1260	1214.4	1270	1218.1	1275
GR	1218.2	1276	1221.0	1277	1221.5	1336	1240	1360		

NC	.04	.04	.03	.01	.01					
ET							9.1		460	1276
X1	3516	0	0	0	1	1	1			
X3	10							1213.0	1221	
BT	-30	999	1221.4	1221.4	1060	1221.4	1220.7	1001	1224.3	1218.8
BT	0	1034	1224.3	1218.8	1034.1	1224.3	1210.0	1034.9	1224.3	1210
BT	0	1035	1224.3	1218.8	1075	1224.2	1218.7	1075.1	1224.2	1199.3
BT	0	1075.9	1224.2	1199.3	1076	1224.2	1216.7	1114.5	1224.2	1213.6
BT	0	1114.6	1224.2	1202	1115.4	1224.2	1202	1115.5	1224.2	1218.6
BT	0	1154	1224.1	1218.5	1154.1	1224.1	1210.3	1156.9	1224.1	1210.1
BT	0	1157	1224.1	1218.5	1194	1224.0	1218.4	1194.1	1224.0	1210.9
BT	0	1196.9	1224.0	1208.8	1197	1224.0	1218.4	1234.7	1224.0	1218.3
BT	0	1234.8	1224.0	1206.6	1237.6	1224.0	1206.0	1237.7	1224.0	1218.3
BT	0	1275	1221.0	1218.2	1276	1221.0	1218.2	1277	1221.0	1221.0

ET							9.1		460	1276
X1	3534	0	0	0	18	18	18			
X2			0	0	0		1			
X3	10							1213.0	1221	

NC	.07	.06	.04	.1	.3					
ET							9.1		460	1276
X1	3535	0	0	0	1	1	1			
X3	10							1213.0	1221	

ET							9.1		450	1150
X1	3560	17	1040	1130	25	25	25			
X4	1	1213	600							
GR	1240	0	1213	100	1214	835	1214	380	1213	1000
GR	1212	1020	1208	1040	1204	1050	1197.2	1060	1197.2	1110
GR	1204	1125	1205	1130	1206	1150	1208	1160	1221	1180
GR	1222	1240	1240	1260						

ET							9.1		450	1150
X1	3585	17	1040	1130	25	25	25			
X4	1	1213	600							
GR	1240	0	1213	100	1214	835	1214	680	1213	1000
GR	1212	1020	1208	1040	1204	1050	1198	1060	1198	1110
GR	1204	1125	1205	1130	1206	1150	1208	1160	1221	1180
GR	1222	1240	1240	1260						

08JAN92

07:44:17

PAGE 4

ET						9.1		450	1150
X1	3645	19	1040	1132	160	160			
GR	1240	0	1213	100	1213	600	1214	835	1214
GR	1213	1000	1212	1020	1209	1040	1204.5	1044	1203.5
GR	1199	1072	1199	1088	1203.0	1112	1206.0	1132	1206.8
GR	1205.6	1160	1221	1180	1222	1240	1240	1260	1151
ET						9.1		500	1150
X1	3900	19	1040	1132	155	155	155		
GR	1240	0	1213	100	1213	600	1214	835	1214
GR	1213	1000	1212	1020	1209	1040	1206	1044	1205
GR	1203.0	1072	1203.0	1088	1204.5	1112	1206.0	1132	1206.8
GR	1208.6	1160	1221	1180	1222	1240	1240	1260	1151
NC	.10	.09	.05						
ET						9.1		530	1123
X1	4000	9	1050	1120	100	100	100		
GR	1240	300	1214	400	1214.3	1000	1206.9	1030	1206.9
GR	1202.0	1060	1202.0	1113	1208.5	1120	1240	1130	1050
ET						9.1		530	1124
X1	4200				200	200	200		
ET						9.1		530	1124
X1	4400	9	1050	1120	200	200	200		
GR	1240	300	1214	400	1214.3	1000	1206.9	1030	1206.9
GR	1205.0	1060	1205.0	1113	1208.5	1120	1240	1130	1050
QT	8	10900	22340	29340	52455	29340	29340	4120	14200
ET						9.1		600	1300
X1	4750	17	1119	1258	350	350	350		
GR	1240	400	1215	500	1213	800	1211.0	1000	1212.2
GR	1215.6	1100	1215.6	1119	1211.8	1125	1209.5	1154	1208
GR	1208	1230	1209.5	1236	1213.3	1258	1215.6	1288	1218.5
GR	1219	1350	1240	1360					1337
ET						9.1		650	1400
X1	5200	17	1119	1230	450	450	450		
GR	1240	600	1218	650	1218	800	1218	1000	1218
GR	1218	1100	1217.6	1119	1213.8	1125	1211.5	1154	1211
GR	1211	1210	1212.5	1226	1215.3	1230	1220	1288	1220
GR	1220	1350	1240	1360					1337
ET						9.1		1000	1480
X1	5600	17	1119	1220	400	400	400		
GR	1240	720	1220	800	1218	800	1218.0	1000	1218.0
GR	1218	1100	1218	1119	1216.0	1125	1214.5	1154	1213
GR	1213	1200	1214.5	1216	1224	1220	1224	1288	1224
GR	1225	1750	1240	1800					1337

08JAN92

07:44:17

PAGE 5

NC	.07	.09	.05				9.1		5	1100
ET							1100			
X1	6700	15	5	90	1100	1100	1220.4			
GR	1250	0	1225	5	1219.9	10	1232.0	62	1222.4	90
GR	1225.2	116	1227.4	132	1230.9	167	1232.0	270	1233.3	305
GR	1233	840	1230	850	1233	860	1233	1000	1240	1900
ET							9.1		30	630
X1	7600	15	30	120	900	200	900			
GR	1250	0	1232	30	1226.4	40	1227.8	110	1229.8	120
GR	1231.6	145	1233.4	165	1234.9	175	1235.0	270	1235	310
GR	1235	540	1232	550	1235	1100	1240	1200	1250	1400
NC	.09	.09					9.1		1	300
ET							1000			
X1	8600	17	1	111	1000	1000	1000			
GR	1280	0	1236	1	1232.6	15	1232.6	94	1235.7	111
GR	1239.1	120	1242.2	137	1241.5	155	1243.4	176	1243.2	253
GR	1244.3	296	1243.5	428	1243.6	476	1243.4	503	1245.0	536
GR	1246.1	597	1280	600						
NH	5	.09	180	.045	215	.07	450	.045	500	.09
NH	1100									
ET							9.1		150	510
X1	9500	16	180	500	900	900	900			
X4	1	1243	100							
GR	1280	0	1243	180	1239.3	165	1239.3	210	1242.4	215
GR	1245	220	1245	450	1239	455	1239	495	1243	500
GR	1245.8	510	1248.9	525	1253	550	1253	600	1253	1000
GR	1280	1100								
NC	.09	.09	.045				9.1		1	500
ET							900			
X1	10400	17	1	111	900	900	900			
GR	1280	0	1249	1	1245.3	15	1245.3	94	1248.4	111
GR	1251.8	120	1254.9	137	1254.2	155	1256.1	176	1255.9	253
GR	1257.0	296	1256.2	428	1251.3	476	1256.1	503	1257.7	536
GR	1259.1	597	1280	600						
ET							9.1		50	350
X1	12550	10	130	227	2150	2150	2150			
GR	1290	0	1268	1	1267.7	100	1265.6	130	1262.5	191
GR	1262.5	222	1265.1	227	1264.7	331	1265	360	1290	365
QT	8	10580	21690	28490	51150	28490	28490	4120	14200	
ET							9.1		200	600
X1	15000	14	377	523	2450	2450	2450			
GR	1300	0	1295	1	1292	99	1287	100	1288.3	345
GR	1288.0	365	1284.8	377	1280.8	385	1280.8	514	1285.7	523
GR	1286.4	571	1287.9	590	1289.0	600	1300	601		

08JAN92

07:44:17

PAGE 6

ET						9.1		24	234
Y1	17250	8	117	234	2250	2250			
GR	1320	0	1305	20	1292.4	100			
GR	1291.8	203	1310.0	234	1309.5	240	117	1291.8	145

08JAN92 07:44:17

PAGE 7

SECNO Q TIME SLOPE	DEPTH GLOB VLOB XLOB	CWSEL DCH VCH XLCH	CRWS BROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	GLASS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	-------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

#PROF 1

0

CCHV= .100 CEHV= .300

#SECNO 10.000

10.000	12.71	1206.71	.00	1206.71	1208.08	1.37	.00	.00	1200.00
30500.0	7067.4	18214.0	4618.6	2557.6	1597.9	1969.9	.0	.0	1201.00
.00	2.76	11.77	2.34	.050	.030	.070	.000	1194.00	1272.11
.002092	10.	10.	10.	0	0	0	.00	1682.91	2955.01

#SECNO 11.000

11.000	12.71	1206.71	.00	.00	1208.08	1.37	.00	.00	1200.00
30500.0	7071.1	18808.7	4620.2	2559.7	1598.1	1971.0	.1	.0	1201.00
.00	2.76	11.77	2.34	.050	.030	.070	.000	1194.00	1271.68
.002089	1.	1.	1.	0	0	0	.00	1683.33	2955.02

#SECNO 13.000

13.000	12.72	1206.72	.00	.00	1208.09	1.36	.00	.00	1200.00
30500.0	7081.4	18793.6	4624.9	2565.7	1598.9	1974.1	.4	.1	1201.00
.00	2.76	11.75	2.34	.050	.030	.070	.000	1194.00	1270.49
.002083	2.	2.	2.	0	0	0	.00	1634.54	2955.02

#SECNO 15.000

15.000	12.73	1206.73	.00	.00	1208.09	1.36	.00	.00	1200.00
30500.0	7097.4	18770.5	4632.1	2575.0	1600.0	1978.8	.7	.2	1201.00
.00	2.76	11.73	2.34	.050	.030	.070	.000	1194.00	1268.64
.002073	2.	2.	2.	0	0	0	.00	1686.39	2955.04

#SECNO 20.000

20.000	12.72	1206.74	.00	.00	1208.10	1.36	.01	.00	1200.02
30500.0	7093.7	18775.8	4630.5	2572.9	1599.8	1977.7	1.4	.4	1201.02
.00	2.76	11.74	2.34	.050	.030	.070	.000	1194.02	1269.07
.002075	5.	5.	5.	0	0	0	.00	1695.97	2955.03

#SECNO 60.000

60.000	12.73	1206.83	.00	.00	1208.18	1.36	.08	.00	1200.10
30500.0	7097.2	18770.8	4632.0	2574.9	1600.0	1978.8	7.1	1.9	1201.10
.00	2.76	11.73	2.34	.050	.030	.070	.000	1194.10	1268.67
.002073	40.	40.	40.	0	0	0	.00	1686.37	2955.04

08JAN92

07:44:17

PAGE 8

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HJ	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPNID	ENDST

CCHV= .100 CEHV= .300
 *SECNO 2200.000

3301 HV CHANGED MORE THAN HVINS

*** SURVEYED SECTION #1 10/91
 *** FIELD 8 QT IS 2-YR; FIELD 9 QT IS JULY 89 FLOOD

2200.000	16.44	1211.04	.00	.00	1211.41	.37	3.13	.10	1199.60
30500.0	13292.9	11032.7	6174.3	5130.1	1503.4	2292.4	377.7	84.0	1201.00
.14	2.59	7.34	2.69	.060	.040	.070	.000	1194.60	96.54
.001084	2140.	2140.	2140.	2	0	0	.00	1655.20	1751.74

*SECNO 2300.000

2300.000	16.12	1210.92	.03	.00	1211.66	.74	.14	.11	1199.80
30500.0	8950.8	14055.7	7593.5	2809.2	1471.6	2189.8	395.3	87.8	1201.20
.14	3.15	9.55	3.47	.060	.040	.070	.000	1194.80	97.60
.001890	100.	100.	100.	2	0	0	.00	1651.41	1749.02

*SECNO 2650.000

2650.000	15.91	1211.61	.00	.00	1212.32	.71	.66	.00	1200.70
30500.0	9317.7	13740.1	7442.3	3124.5	1452.7	2170.4	448.5	101.1	1201.00
.16	2.98	9.46	3.43	.060	.040	.070	.000	1195.70	94.64
.001866	350.	350.	350.	3	0	0	.00	1654.85	1749.48

*SECNO 3000.000

3000.000	15.67	1212.27	.00	.00	1213.01	.75	.68	.01	1201.60
30500.0	9626.7	13797.0	7076.3	3180.8	1426.3	2052.5	502.3	114.4	1203.00
.18	3.03	9.67	3.45	.060	.040	.070	.000	1196.60	92.45
.002021	350.	350.	350.	0	0	0	.00	1655.42	1747.87

*SECNO 3220.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3220.000	14.36	1212.66	1212.66	.00	1214.63	1.97	.65	.37	1210.00
30500.0	4132.7	18178.1	8189.2	1642.9	1309.4	1257.8	529.8	121.5	1202.00
.18	2.52	13.88	6.51	.060	.040	.070	.000	1198.30	94.29
.004791	220.	220.	220.	20	12	0	.00	1174.12	1268.41

OBJAN92 07:44:17

PAGE 9

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
Q	BLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TNA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CCRAR	TOPWID	ENDST

*SECNO 3440.000

3301 HV CHANGED MORE THAN HVINS

3440.000	14.62	1214.62	.00	.00	1215.48	.86	.74	.11	1211.00
30500.0	9830.7	13729.0	6940.3	3390.1	1344.6	1394.5	555.9	127.5	1203.00
.19	2.90	10.21	4.98	.060	.040	.070	.000	1200.00	87.51
.002478	220.	220.	220.	4	0	0	.00	1182.97	1270.48

*SECNO 3515.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3515.000	17.89	1215.19	1215.19	.00	1217.18	1.99	.28	.34	1220.70
30500.0	4461.8	26038.2	.0	1419.4	2136.2	.0	564.2	129.4	1218.20
.19	3.14	12.19	.00	.060	.040	.000	.000	1197.30	91.89
.006480	75.	75.	75.	20	12	0	.00	996.64	1271.07

CCHV= .010 CEHV= .010

*SECNO 3516.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

3370 NORMAL BRIDGE, NRQ= 30 MIN ELTAD= 1221.00 MAX ELLC= 1220.70

08JAN92 07:44:17

PAGE 10

SECNO Q TIME SLOPE	DEPTH ELDB VLOB XLOBL	CWSEL QC1 VCH XLCH	CRWS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	GLOSS TWA ELMIN TOFWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3516.000	18.87	1216.17	1215.17	.00	1217.20	1.02	.00	.01	1220.70
30500.0	9220.4	21279.6	.0	2166.8	2288.9	.0	564.3	129.4	1218.20
.19	4.26	9.30	.00	.040	.030	.000	.000	1197.30	88.22
.003130	1.	1.	1.	15	10	0	-96.77	1014.16	1272.41

*SECNO 3534.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3534.000	18.97	1216.27	.00	.00	1217.25	.98	.06	.00	1220.70
30500.0	9451.0	21049.0	.0	2231.4	2309.5	.0	566.2	129.8	1218.20
.19	4.24	9.11	.00	.040	.030	.000	.000	1197.30	87.90
.002989	18.	18.	19.	1	0	0	-97.76	1015.77	1272.52

CCHV= .100 CEHV= .300

*SECNO 3535.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3535.000	18.60	1215.90	.00	.00	1217.42	1.51	.00	.16	1220.70
30500.0	5449.9	25050.1	.0	1955.1	2314.9	.0	566.3	129.8	1218.20
.19	2.79	10.82	.00	.070	.040	.000	.000	1197.30	89.25
.004675	1.	1.	1.	3	0	0	.00	1008.89	1272.03

08JAN92 07:44:17

PAGE 11

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	W	GLOSS	L-BANK ELEV
D	QLOB	QCH	QROB	ALOB	ACH	AROB	COL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAP	TOPWID	ENDST

*SECNO 3560.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3560.000	18.82	1216.02	1216.02	.00	1218.26	2.23	.10	.22	1208.00
30530.0	7162.9	21065.6	2271.5	2706.1	1484.6	350.2	568.8	130.4	1205.00
.19	2.65	14.19	6.49	.070	.040	.060	.000	1197.20	88.60
.003704	25.	25.	25.	20	5	0	.00	1083.54	1172.34

*SECNO 3585.000

3301 HV CHANGED MORE THAN HVINS

3585.000	18.78	1216.78	.00	.00	1218.40	1.62	.08	.06	1208.00
30500.0	9246.3	18931.0	2272.7	3427.0	1502.7	382.7	571.6	131.1	1205.00
.19	2.70	12.63	5.94	.070	.040	.060	.000	1198.00	86.00
.002858	25.	25.	25.	6	0	0	.00	1087.51	1173.51

*SECNO 3645.000

3301 HV CHANGED MORE THAN HVINS

3645.000	18.81	1217.81	.00	.00	1218.87	1.06	.42	.06	1209.00
30500.0	12665.7	15800.0	2034.3	4398.8	1434.2	376.1	592.8	135.1	1206.00
.20	2.89	11.02	5.41	.070	.040	.060	.000	1199.00	82.20
.002370	160.	160.	160.	3	0	0	.00	1092.65	1174.85

*SECNO 3900.000

3900.000	15.48	1218.48	.00	.00	1219.25	.77	.35	.03	1209.90
30500.0	15324.7	12987.9	2187.4	5049.2	1291.6	405.5	615.8	139.0	1206.00
.21	3.04	10.06	5.39	.070	.040	.060	.000	1203.00	79.68
.002204	155.	155.	155.	2	0	0	.00	1096.26	1175.94

*SECNO 4000.000

08JAN92 07:44:17

PAGE 12

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VGL	TNA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	INC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

4000.000	16.37	1218.37	1218.37	.00	1221.09	2.73	.39	.59	1206.90
30500.0	12065.4	18403.6	31.0	3028.3	1098.3	15.4	628.3	141.1	1208.50
.21	3.98	16.76	2.01	.100	.050	.090	.000	1202.00	383.21
.008664	100.	100.	100.	20	8	0	.00	739.92	1123.13

*SECNO 4200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

4200.000	19.21	1221.21	.00	.00	1222.24	1.03	.98	.17	1206.90
30500.0	15836.6	14626.7	36.7	4941.2	1297.5	25.6	652.2	144.5	1208.50
.22	3.21	11.27	1.43	.100	.050	.090	.000	1202.00	372.27
.003140	200.	200.	200.	3	0	0	.00	751.77	1124.04

*SECNO 4400.000

4400.000	17.10	1222.10	.00	.00	1222.87	.77	.60	.03	1206.90
30500.0	18279.6	12178.3	42.1	5548.6	1175.6	29.4	682.1	147.9	1208.50
.23	3.29	10.36	1.43	.100	.050	.090	.000	1205.00	368.83
.002879	200.	200.	200.	2	0	0	.00	755.49	1124.32

*SECNO 4750.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

4750.000	15.28	1223.28	.00	.00	1223.57	.29	.66	.05	1215.60
29340.0	16138.6	11817.6	1383.8	6440.6	1929.1	633.4	745.4	154.5	1213.30
.25	2.51	6.13	2.18	.100	.050	.090	.000	1208.00	466.88
.001297	350.	350.	350.	2	0	0	.00	885.16	1352.04

08JAN92 07:44:17

PAGE 13

SECNO D TIME SLOPE	DEPTH GLOB VLOB XLOBL	CWSEL BCH VCH XLCH	CRWS GRDB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB YNR ICONT	HL VOL WTN CORAR	CLOSS TRA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	---------------------------------	---

*SECNO 5200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .42

5200.000	12.55	1223.55	.00	.00	1225.11	1.56	1.15	.38	1217.60
29340.0	10446.3	16599.3	2294.4	2641.6	1291.9	555.4	815.1	162.8	1215.30
.27	3.95	12.85	4.06	.100	.050	.090	.000	1211.00	637.39
.007271	450.	450.	450.	3	0	0	.00	714.39	1351.77

*SECNO 5600.000

5600.000	13.59	1226.59	.00	.00	1227.68	1.09	2.53	.05	1216.00
29340.0	12881.1	14015.3	2443.5	2827.2	1241.9	1170.5	859.9	170.6	1224.00
.28	4.56	11.29	2.09	.100	.050	.090	.000	1213.00	773.64
.005550	400.	400.	400.	3	0	0	.00	981.66	1755.30

*SECNO 6700.000

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

6700.000	15.46	1235.36	1235.36	.00	1236.95	1.59	6.10	.15	1225.00
29340.0	17.1	16762.8	12560.1	10.7	1270.9	4669.8	1001.2	206.1	1222.40
.32	1.60	13.19	2.69	.070	.050	.090	.000	1219.90	2.93
.005547	1100.	1100.	1100.	3	3	0	.00	1830.72	1833.65

*SECNO 7600.000

3301 HV CHANGED MORE THAN HVINS

7600.000	12.68	1239.08	.00	.00	1239.87	.79	2.84	.08	1232.00
29340.0	132.2	11135.2	18072.5	41.6	1039.0	5161.8	1049.1	214.5	1229.80
.34	3.18	10.72	3.50	.070	.050	.090	.000	1226.40	18.22
.005107	900.	900.	200.	1	0	0	.00	1163.12	1181.34

*SECNO 8600.000

3301 HV CHANGED MORE THAN HVINS

08JAN92

07:44:17

PAGE 14

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	GLOSS	L-BANK	ELEV
Q	BLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTH	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

7185 MINIMUM SPECIFIC ENERGY

720 CRITICAL DEPTH ASSUMED

8600.000	14.30	1246.90	1246.90	.00	1249.93	3.03	6.39	.67	1236.00	
29340.0	.5	23571.3	5768.2	1.4	1523.1	1609.9	1155.8	234.7	1235.70	
.36	.37	15.48	3.58	.090	.050	.090	.000	1232.60	.75	
.008222	1000.	1000.	1000.	3	8	0	.00	596.32	597.07	

1490 NH CARD USED

*SECNO 9500.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

9500.000	14.88	1253.88	.00	.00	1254.57	.69	4.41	.25	1243.00	
29340.0	4471.6	23675.1	1193.2	1030.7	306.6	665.0	1239.8	250.5	1243.00	
.40	4.34	7.16	1.79	.090	.055	.090	.000	1239.00	70.59	
.003250	900.	900.	900.	2	0	0	.00	932.69	1003.27	

*SECNO 12400.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

10400.000	13.98	1259.28	1259.28	.00	1262.46	3.18	4.20	.75	1249.00	
29340.0	.7	23575.6	5763.7	1.7	1495.2	1630.1	1323.7	265.3	1248.40	
.42	.42	15.87	3.54	.090	.045	.090	.000	1245.30	.67	
.007252	900.	900.	900.	20	11	0	.00	596.36	597.03	

*SECNO 12550.000

3301 HV CHANGED MORE THAN HVINS

12550.000	12.87	1275.37	.00	.00	1277.13	1.76	14.53	.14	1265.60	
29340.0	5023.8	15546.7	8769.5	1007.2	1147.3	1404.6	1488.5	289.9	1265.10	
.48	4.99	13.55	6.24	.090	.045	.090	.000	1262.50	.67	
.006309	2150.	2150.	2150.	3	0	0	.00	361.41	362.07	

08JAN92 07:44:17

PAGE 15

SECND Q TIME SLOPE	DEPTH QLOB VLOB XLOBL	CNSEL QCH VCH XLCB	CRINS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	QLOSS TWA ELMIN TDFWD	L-BANK ELEV R-BANK ELEV SSTA ENDST
-----------------------------	--------------------------------	-----------------------------	--------------------------------	--------------------------------	--------------------------	----------------------------	---------------------------	--------------------------------	---

*SECND 15000.000

3301 HV CHANGED MORE THAN H'INS

15000.000	11.25	1292.05	.00	.00	1294.75	2.70	17.34	.28	1284.80
28490.0	3386.4	23234.7	1868.9	980.8	1604.7	414.9	1672.9	314.2	1285.70
.53	3.45	14.48	4.50	.090	.045	.090	.000	1280.80	97.32
.008024	2450.	2450.	2450.	2	0	0	.00	503.02	600.34

*SECND 17250.000

17250.000	15.78	1307.58	.00	.00	1310.24	2.66	15.49	.00	1291.90
28490.0	5936.5	22553.5	.0	977.2	1567.8	.0	1816.1	332.7	1310.00
.58	5.07	14.38	.00	.090	.045	.000	.000	1291.80	16.56
.005972	2250.	2250.	2250.	3	0	0	.00	213.32	229.88

08JAN92

07:44:17

PAGE 16

T1 BURKE COUNTY LHM CESAN-PD WRB 11/91
T2 100-YR ENCHROACHED
T3 LINVILLE RIVER BURKE CO.

J1	ICHECK	INQ	NINW	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
		7							1206.71	
J2	NPROF	IPLJT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACE
	15		-1							

08JAN92

07:44:17

PAGE 17

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
B	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	QLOB	VCH	VROB	XL	XNCH	XNR	MTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CCHV= .100 CEHV= .300
 *SECNO 10.000

3470 ENCROACHMENT STATIONS=	2000.0	2860.0	TYPE=	1	TARGET=	860.000		
10.000	12.71	1206.71	.00	1206.71	1208.65	1.94	.00	.00 1200.00
30500.0	5067.6	21150.7	4281.7	1260.8	1597.9	1626.7	.0	.0 1201.00
.00	4.02	13.24	2.63	.050	.030	.070	.000	1194.00 2000.00
.002644	10.	10.	10.	0	0	0	.00	860.00 2860.00

*SECNO 11.000

3470 ENCROACHMENT STATIONS=	2000.0	2860.0	TYPE=	1	TARGET=	860.000		
11.000	12.71	1206.71	.00	1206.71	1208.66	1.94	.00	.00 1200.00
30500.0	5069.9	21145.9	4284.2	1261.6	1598.2	1627.9	.1	.0 1201.00
.00	4.02	13.23	2.63	.050	.030	.070	.000	1194.00 2000.00
.002641	1.	1.	1.	0	0	0	.00	860.00 2860.00

*SECNO 13.000

3470 ENCROACHMENT STATIONS=	2000.0	2860.0	TYPE=	1	TARGET=	860.000		
13.000	12.73	1206.73	.00	1206.72	1208.66	1.94	.01	.00 1200.00
30500.0	5076.3	21132.5	1291.3	1263.8	1599.2	1631.1	.3	.1 1201.00
.00	4.02	13.21	2.63	.050	.030	.070	.000	1194.00 2000.00
.002632	2.	2.	2.	0	0	0	.00	860.00 2860.00

*SECNO 15.000

3470 ENCROACHMENT STATIONS=	2000.0	2860.0	TYPE=	1	TARGET=	860.000		
15.000	12.74	1206.74	.00	1206.73	1208.67	1.93	.01	.00 1200.00
30500.0	5086.3	21111.4	4302.3	1267.3	1600.7	1636.1	.5	.1 1201.00
.00	4.01	13.19	2.63	.050	.030	.070	.000	1194.00 2000.00
.002617	2.	2.	2.	0	0	0	.00	860.00 2860.00

*SECNO 20.000

3470 ENCROACHMENT STATIONS=	2000.0	2860.0	TYPE=	1	TARGET=	860.000
-----------------------------	--------	--------	-------	---	---------	---------

08JAN92

07:44:17

PAGE 18

SECNO B TIME SLOPE	DEPTH DLOB VLOB XLOBL	CNSEL DCH VCH XLCH	CRWS DROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB VR ICONT	HL VOL MTN CORAR	DLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSA ENDST
-----------------------------	--------------------------------	-----------------------------	-------------------------------	--------------------------------	--------------------------	---------------------------	---------------------------	---------------------------------	--

20.000	12.74	1206.76	.00	1206.74	1208.68	1.92	.01	.00	1200.02
30500.0	5088.9	21105.9	4305.2	1268.3	1601.1	1637.5	1.0	.2	1201.02
.00	4.01	13.18	2.63	.050	.030	.070	.000	1194.02	2000.00
.002615	5.	5.	5.	.0	0	0	.00	860.00	2860.00

*SECNO 60.000

3470 ENCROACHMENT STATIONS=	2000.0	2860.0	TYPE=	1	TARGET=	860.000		
60.000	12.88	1206.78	.00	1206.83	1208.79	1.82	.10	.01
30500.0	5210.9	20848.3	4440.8	1312.1	1619.8	1700.5	5.2	1.0
.00	3.97	12.87	2.61	.050	.030	.070	.000	1194.10
.002455	40.	40.	40.	2	0	0	.00	860.00

CCHV= .100 CEHV= .300

*SECNO 2200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS=	860.0	1660.0	TYPE=	1	TARGET=	800.000		
*** SURVEYED SECTION #1 10/91								
*** FIELD 8 QT IS 2-YR; FIELD 9 QT IS JULY 89 FLOOD								
2200.000	17.23	1211.83	.00	1211.04	1212.28	.45	3.35	.14
30500.0	12359.0	12009.0	6131.9	3597.6	1581.8	2066.7	297.0	41.8
.12	3.44	7.59	2.97	.060	.040	.070	.000	1194.60
.001084	2140.	2140.	2140.	2	0	0	.00	800.00

*SECNO 2300.000

3470 ENCROACHMENT STATIONS=	860.0	1660.0	TYPE=	1	TARGET=	800.000		
2300.000	16.96	121.76	.00	1210.92	1212.49	.73	.13	.08
30500.0	9004.1	14328.9	7167.0	2346.9	1556.0	2006.7	312.1	43.6
.13	3.84	9.21	3.57	.060	.040	.070	.000	1194.80
.001631	100.	100.	100.	2	0	0	.00	800.00

08JAN92

07:44:17

PAGE 19

SECNO	DEPTH	CNSEL	CRWS	WSELK	EG	HV	HL	GLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICDIT	CORAR	TOPWID	ENDST	

*SECNO 2650.000

3470 ENCROACHMENT STATIONS=	860.0	1660.0	TYPE=	1	TARGET=	800.000		
2650.000	16.62	1212.32	.00	1211.61	1213.11	.79	.60	.02 1200.70
30500.0	8774.7	14510.7	7214.5	2230.1	1523.7	1961.9	358.8	50.0 1201.00
.14	3.93	9.52	3.68	.060	.040	.070	.000	1195.70 860.00
.001776	350.	350.	350.	2	0	0	.00	800.00 1660.00

*SECNO 3000.000

3470 ENCROACHMENT STATIONS=	860.0	1660.0	TYPE=	1	TARGET=	800.000		
3000.000	16.32	1212.92	.00	1212.27	1213.80	.88	.66	.03 1201.60
30500.0	8591.6	14675.8	7032.7	2064.4	1491.1	1856.2	403.5	56.5 1203.00
.15	4.16	9.98	3.79	.060	.040	.070	.000	1196.60 860.00
.002026	350.	350.	350.	0	0	0	.00	800.00 1660.00

*SECNO 3220.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	480.0	1250.0	TYPE=	1	TARGET=	770.000		
3220.000	14.25	1212.55	1212.55	1212.66	1215.12	2.58	.71	.51 1210.00
30500.0	2613.3	19867.1	8019.6	948.1	1298.4	1145.6	425.8	60.4 1202.00
.16	2.76	15.30	7.00	.060	.040	.070	.000	1198.30 480.00
.005886	220.	220.	220.	4	12	0	.00	770.00 1250.00

*SECNO 3440.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	460.0	1240.0	TYPE=	1	TARGET=	780.000		
3440.000	14.91	1214.91	.00	1214.62	1216.18	1.28	.93	.13 1211.00
30500.0	7667.4	16091.8	6740.7	2225.4	1372.9	1208.6	446.5	64.3 1203.00
.17	3.45	11.72	5.58	.060	.040	.070	.000	1200.00 460.00
.003176	220.	220.	220.	4	0	0	.00	780.00 1240.00

08JAN92 07:44:17

PAGE 20

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLSS	L-BANK ELEV
Q	JLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3515.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 460.0 1276.0 TYPE= 1 TARGET= 816.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3515.000	17.74	1215.04	1215.04	1215.19	1217.80	2.76	.36	.44	1220.70
30500.0	1735.5	28764.5	.0	564.4	2098.1	.0	452.9	65.5	100000.00
.17	3.08	13.71	.00	.060	.040	.000	.000	1197.30	460.00
.008365	75.	75.	75.	20	11	0	.00	626.51	1270.86

CEHV= .010 CEHV= .010

*SECNO 3516.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3470 ENCROACHMENT STATIONS= 460.0 1276.0 TYPE= 1 TARGET= 816.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3516.000	18.56	1215.85	1215.64	1216.17	1217.81	1.95	.01	.01	1220.70
30500.0	4179.7	26320.3	.0	878.5	2211.2	.0	453.0	65.6	100000.00
.17	4.76	11.90	.00	.040	.030	.000	.000	1197.30	460.00
.005256	1.	1.	1.	3	11	0	-92.99	637.50	1271.97

08JAN92

07:44:17

PAGE 21

SECNO	DEPTH	CWSEL	CRINS	WSELK	EE	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QRCB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROS	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3534.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 30 MIN ELTRD= 1221.00 MAX ELLC= 1220.70

3470 ENCROACHMENT STATIONS= 460.0 1276.0 TYPE= 1 TARGET= 816.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3534.000	18.93	1216.23	.00	1216.27	1217.90	1.67	.09	.00	1220.70
30500.0	4913.9	25586.1	.0	1022.4	2301.1	.0	454.3	65.8	100000.00
.17	4.81	11.12	.00	.040	.030	.000	.000	1197.30	460.00
.004460	18.	18.	18.	3	0	0	-97.36	643.14	1272.47

CCHV= .100 CEHV= .300

*SECNO 3535.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 460.0 1276.0 TYPE= 1 TARGET= 816.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1213.00 ELREA= 1221.00

3535.000	19.70	1216.00	.00	1215.90	1218.01	2.00	.00	.10	1220.70
30500.0	2718.3	27781.7	.0	936.0	2341.9	.0	454.4	65.8	100000.00
.17	2.90	11.86	.00	.070	.040	.000	.000	1197.30	460.00
.005553	1.	1.	1.	2	0	0	.00	639.76	1272.17

*SECNO 3560.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 450.0 1150.0 TYPE= 1 TARGET= 700.000

08JAN92

07:44:17

PAGE 22

SECND B TIME SLOPE	DEPTH QLOB VLOB XLOBL	CWSEL QCH VCH XLCB	CRIMS GROB VROB XLOBR	WSELK ALOP XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	GLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSA ENDST
3560.000	19.10	1216.30	1216.30	1216.02	1219.34	3.04	.12	.31	1208.00
30500.0	5436.7	23742.3	1321.0	1792.1	1509.1	215.9	456.3	66.2	1205.00
.17	3.03	15.73	6.12	.070	.040	.060	.000	1197.20	450.00
.004454	25.	25.	25.	20	8	0	.00	700.00	1150.00

*SECND 3585.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	450.0	1150.0	TYPE=	1	TARGET=	700.000		
3585.000	19.31	1217.31	.00	1216.78	1219.52	2.21	.10	.08
30500.0	7546.3	21651.8	1302.0	2394.6	1551.0	236.3	458.5	66.6
.17	3.15	13.96	5.51	.070	.040	.060	.000	1198.00
.003346	25.	25.	25.	10	0	0	.00	700.00

*SECND 3645.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	450.0	1150.0	TYPE=	f	TARGET=	700.000		
3645.000	19.48	1218.48	.00	1217.81	1220.08	1.59	.50	.06
30500.0	10580.9	18819.5	1097.6	3070.0	1496.1	217.8	475.0	69.2
.17	3.45	12.58	5.05	.070	.040	.060	.000	1199.00
.002921	160.	160.	160.	3	0	0	.00	700.00

*SECND 3900.000

3470 ENCROACHMENT STATIONS=	500.0	1150.0	TYPE=	1	TARGET=	650.000		
3900.000	16.06	1219.06	.00	1218.48	1220.57	1.51	.48	.01
30500.0	12201.4	17047.2	1251.4	3109.9	1344.5	228.2	491.8	71.6
.18	3.92	12.68	5.48	.070	.040	.060	.000	1203.00
.003321	155.	155.	155.	2	0	0	.00	650.00

*SECND 4000.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIS	NSLK	EG	HV	HL	LOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TNA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELNIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWTD	ENDST	

3685 20 TRIALS ATTEMPTED KSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	530.0	1123.0	TYPE=	1	TARGET=	593.000				
4000.000	16.62	1218.62	1218.62	1218.37	1221.73	3.10	.52	.48	1206.90	
30500.0	11030.0	19436.1	33.9	2562.2	1116.4	16.2	501.4	73.0	1208.50	
.18	4.30	17.41	2.10	.100	.050	.090	.000	1202.00	530.00	
.009153	100.	100.	100.	20	8	0	.00	593.00	1123.00	

*SECNO 4200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

3470 ENCROACHMENT STATIONS=	530.0	1124.0	TYPE=	1	TARGET=	594.000				
4200.000	19.72	1221.72	.00	1221.21	1222.96	1.24	1.05	.19	1206.90	
30500.0	14587.6	15870.2	42.1	4172.5	1333.1	27.7	522.6	75.7	1208.50	
.19	3.50	11.90	1.52	.100	.050	.090	.000	1202.00	530.00	
.003378	200.	200.	200.	3	0	0	.00	594.00	1124.00	

*SECNO 4400.000

3470 ENCROACHMENT STATIONS=	530.0	1124.0	TYPE=	1	TARGET=	594.000				
4400.000	17.68	1222.68	.00	1222.10	1223.64	.96	.65	.03	1206.90	
30500.0	16952.4	13499.2	48.4	4672.1	1215.9	31.5	548.9	78.5	1208.50	
.20	3.63	11.10	1.54	.100	.050	.090	.000	1205.00	530.00	
.003161	200.	200.	200.	2	0	0	.00	594.00	1124.00	

*SECNO 4750.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

08JAN92

07:44:17

PAGE 24

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	GLLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	600.0	1300.0	TYPE=	1	TARGET=	700.000			
4750.000	16.05	1224.05	.00	1223.28	1224.38	.33	.68	.06	1215.60
29340.0	15534.2	12871.3	934.5	5839.6	2035.5	385.0	605.9	83.7	1213.30
.22	2.66	5.32	2.43	.100	.050	.090	.000	1208.00	600.00
.001286	350.	350.	350.	2	0	0	.00	700.00	1300.00

*SECNO 5200.000

3301 HV CHANGED MORE THAN HVINS

3362 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .38

3470 ENCROACHMENT STATIONS=	850.0	1400.0	TYPE=	1	TARGET=	550.000			
5200.000	12.92	1223.92	.00	1223.55	1226.16	2.24	1.21	.57	1217.60
29340.0	7210.0	19269.0	2861.0	1598.5	1333.9	611.5	666.9	89.9	1215.30
.23	4.51	14.45	4.68	.100	.050	.090	.000	1211.00	850.00
.008806	450.	450.	450.	3	0	0	.00	501.96	1351.96

*SECNO 5600.000

3470 ENCROACHMENT STATIONS=	1000.0	1480.0	TYPE=	1	TARGET=	480.000			
5600.000	14.32	1227.32	.00	1226.59	1229.84	2.53	3.60	.09	1218.00
29340.0	6652.4	19821.9	2865.7	1108.3	1314.9	836.8	698.1	94.4	1224.00
.24	6.00	15.07	3.42	.100	.050	.090	.000	1213.00	1000.00
.009175	400.	400.	400.	3	0	0	.00	480.00	1480.00

*SECNO 6700.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	5.0	1100.0	TYPE=	1	TARGET=	1095.000			
6700.000	16.26	1236.16	.00	1235.36	1237.64	1.48	7.69	.11	1225.00
29340.0	.0	16822.0	12518.0	.0	1339.7	3799.1	804.1	114.3	1222.40
.28	.00	12.56	3.29	.000	.050	.090	.000	1219.90	5.00
.005501	1100.	1100.	1100.	2	0	0	.00	1095.00	1100.00

08JAN92 07:44:17

PAGE 25

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QRGB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 7600.000

3470 ENCROACHMENT STATIONS=	30.0	630.0	TYPE=	1	TARGET=	600.000		
7600.000	13.52	1239.92	.00	1239.08	1241.57	1.65	3.88	.05
29340.0	.0	15115.8	14224.2	.0	1116.2	2919.9	844.9	119.6
.29	.00	13.54	4.87	.000	.050	.090	.000	1226.40
.008277	900.	900.	200.	3	0	0	.00	600.00
								1232.00
								1229.80
								30.00
								630.00

*SECNO 8600.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	1.0	300.0	TYPE=	1	TARGET=	299.000		
8600.000	14.87	1247.47	.00	1246.90	1250.84	3.37	8.75	.52
29340.0	.0	25075.8	4264.2	.0	1585.9	907.5	919.9	129.9
.31	.00	15.81	4.70	.000	.050	.090	.000	1232.60
.009276	1000.	1000.	1000.	2	0	0	.00	299.00
								1236.00
								1235.70
								1.00
								300.00

1490 NH CARD USED

*SECNO 9500.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

3470 ENCROACHMENT STATIONS=	150.0	510.0	TYPE=	1	TARGET=	360.000		
9500.000	15.90	1254.90	.00	1253.88	1255.76	.86	4.67	.25
29340.0	1414.3	27619.3	306.4	357.0	3631.7	105.0	987.9	136.7
.35	3.96	7.61	2.92	.090	.056	.090	.000	1239.00
.003309	900.	900.	900.	2	0	0	.00	360.00
								1243.00
								1243.00
								150.00
								510.00

*SECNO 10400.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

08JAN92

07:44:17

PAGE 26

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTP	ELMIN	SSTA
SLOPE	XLDEL	XLCH	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	1.0	500.0	TYPE=	1	TARGET=	499.000		
10400.000	13.85	1259.15	1259.15	1259.28	1262.47	3.33	4.53	.74
29340.0	.0	23762.4	5577.6	.0	1470.7	1436.7	1060.3	145.6
.36	.00	16.16	3.83	.000	.045	.090	.000	1245.30
.008555	900.	900.	900.	20	15	0	.00	499.00

*SECNO 12550.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	50.0	350.0	TYPE=	1	TARGET=	300.000		
12550.000	13.63	1276.13	.00	1275.37	1278.12	1.99	15.51	.13
29340.0	3662.3	17050.8	8626.9	.702.1	1221.1	1363.2	1213.6	165.3
.42	5.22	13.96	6.24	.090	.045	.090	.000	1262.50
.006165	2150.	2150.	2150.	3	0	0	.00	300.00

*SECNO 15000.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	200.0	600.0	TYPE=	1	TARGET=	400.000		
15000.000	11.57	1292.37	.00	1292.05	1295.12	2.75	16.78	.23
28490.0	2622.0	23859.2	2008.8	717.5	1652.2	439.3	1385.6	185.0
.47	3.65	14.44	4.57	.090	.045	.090	.000	1280.80
.007676	2450.	2450.	2450.	3	0	0	.00	400.00

*SECNO 17250.000

3470 ENCROACHMENT STATIONS=	24.0	234.0	TYPE=	1	TARGET=	210.000		
17250.000	15.82	1307.62	.00	1307.58	1310.29	2.67	15.15	.01
28490.0	5876.8	22613.2	.0	964.6	1571.9	.0	1523.6	200.6
.52	6.09	14.39	.00	.090	.045	.000	.000	1291.80
.005957	2250.	2250.	2250.	2	0	0	.00	205.94

THIS RUN EXECUTED 08JAN92 07:44:35

HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LINVILLE RIVER BURKE CO.

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
10.000	.00	.00	.00	1194.00	30500.00	1206.71	.00	1208.08	20.92	11.77	6125.34	6668.69
10.000	.00	.00	.00	1194.00	30500.00	1206.71	.00	1208.65	26.44	13.24	4485.36	5931.95
11.000	1.00	.00	.00	1194.00	30500.00	1206.71	.00	1208.08	20.89	11.77	6128.83	6672.43
11.000	1.00	.00	.00	1194.00	30500.00	1206.71	.00	1208.66	26.41	13.23	4487.67	5935.43
13.000	2.00	.00	.00	1194.00	30500.00	1206.72	.00	1208.09	20.83	11.75	6138.70	6682.99
13.000	2.00	.00	.00	1194.00	30500.00	1206.73	.00	1208.66	26.32	13.21	4494.07	5945.10
15.000	2.00	.00	.00	1194.00	30500.00	1206.73	.00	1208.09	20.73	11.73	6153.92	6699.31
15.000	2.00	.00	.00	1194.00	30500.00	1206.74	.00	1208.67	26.19	13.19	4504.15	5960.34
20.000	5.00	.00	.00	1194.02	30500.00	1206.74	.00	1208.10	20.75	11.74	6150.42	6695.56
20.000	5.00	.00	.00	1194.02	30500.00	1206.76	.00	1208.68	26.15	13.18	4506.78	5964.31
60.000	40.00	.00	.00	1194.10	30500.00	1206.83	.00	1208.18	20.73	11.73	6153.72	6699.09
60.000	40.00	.00	.00	1194.10	30500.00	1206.98	.00	1208.79	24.55	12.87	4632.33	6155.92
2200.000	2140.00	.00	.00	1194.60	30500.00	1211.04	.00	1211.41	10.84	7.34	8933.80	9262.70
* 2200.000	2140.00	.00	.00	1194.60	30500.00	1211.83	.00	1212.28	10.84	7.59	7246.17	9262.74
2300.000	100.00	.00	.00	1194.80	30500.00	1210.92	.00	1211.66	18.90	9.55	6470.52	7015.87
2300.000	100.00	.00	.00	1194.80	30500.00	1211.76	.00	1212.49	16.31	9.21	5909.60	7552.75
2650.000	350.00	.00	.00	1195.70	30500.00	1211.61	.00	1212.32	18.66	9.46	6747.67	7059.74
2650.000	350.00	.00	.00	1195.70	30500.00	1212.32	.00	1213.11	17.76	9.52	5715.78	7238.02
3000.000	350.00	.00	.00	1196.60	30500.00	1212.27	.00	1213.01	20.21	9.67	6659.59	6784.58
3000.000	350.00	.00	.00	1196.60	30500.00	1212.92	.00	1213.80	20.26	9.98	5411.72	6776.58
* 3220.000	220.00	.00	.00	1198.30	30500.00	1212.66	1212.66	1214.63	47.91	13.88	4210.13	4406.53
* 3220.000	220.00	.00	.00	1198.30	30500.00	1212.55	1212.55	1215.12	58.86	15.30	3392.05	3975.55

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10*KS	VCH	AREA	.01K
3440.000	220.00	.00	.00	1200.00	30500.00	1214.62	.00	1215.48	24.78	10.21	6129.22	6126.97
3440.000	220.00	.00	.00	1200.00	30500.00	1214.91	.00	1216.18	31.76	11.72	4807.01	5412.20
* 3515.000	75.00	.00	.00	1197.30	30500.00	1215.19	1215.19	1217.18	64.80	12.19	3555.67	3788.93
* 3515.000	75.00	.00	.00	1197.30	30500.00	1215.04	1215.04	1217.80	83.65	13.71	2662.45	3334.78
* 3516.000	1.00	1221.00	1220.70	1197.30	30500.00	1216.17	1215.17	1217.20	31.30	9.30	4455.73	5451.99
3516.000	1.00	1221.00	1220.70	1197.30	30500.00	1215.86	1215.64	1217.81	52.56	11.90	3089.71	4206.92
3534.000	18.00	1221.00	1220.70	1197.30	30500.00	1216.27	.00	1217.25	29.89	9.11	4540.97	5578.87
3534.000	18.00	1221.00	1220.70	1197.30	30500.00	1216.23	.00	1217.90	44.60	11.12	3323.51	4567.01
3535.000	1.00	.00	.00	1197.30	30500.00	1215.90	.00	1217.42	46.75	10.82	4269.98	4460.65
3535.000	1.00	.00	.00	1197.30	30500.00	1216.00	.00	1218.01	55.53	11.86	3277.89	4093.00
* 3560.000	25.00	.00	.00	1197.20	30500.00	1216.02	1216.02	1218.26	37.04	14.19	4540.90	5011.71
* 3560.000	25.00	.00	.00	1197.20	30500.00	1216.30	1216.30	1219.34	44.54	15.73	3517.12	4569.94
3585.000	25.00	.00	.00	1198.00	30500.00	1216.78	.00	1218.40	28.58	12.63	5312.33	5705.65
3585.000	25.00	.00	.00	1198.00	30500.00	1217.31	.00	1219.52	33.46	13.96	4161.99	5273.03
3645.000	160.00	.00	.00	1199.00	30500.00	1217.81	.00	1218.87	23.70	11.02	6209.05	6264.77
3645.000	160.00	.00	.00	1199.00	30500.00	1218.48	.00	1220.09	29.21	12.58	4723.88	5642.90
3900.000	155.00	.00	.00	1203.00	30500.00	1218.48	.00	1219.25	22.04	10.06	6746.33	6497.33
3900.000	155.00	.00	.00	1203.00	30500.00	1219.06	.00	1220.57	33.21	12.68	4682.70	5292.64
* 4000.000	100.00	.00	.00	1202.00	30500.00	1218.37	1218.37	1221.09	86.64	16.76	4142.07	3276.78
* 4000.000	100.00	.00	.00	1202.00	30500.00	1218.62	1218.62	1221.73	91.53	17.41	3694.81	3198.07
* 4200.000	200.00	.00	.00	1202.00	30500.00	1221.21	.00	1222.24	31.40	11.27	6264.34	5442.99
* 4200.000	200.00	.00	.00	1202.00	30500.00	1221.72	.00	1222.96	33.78	11.90	5533.33	5248.08
4400.000	200.00	.00	.00	1205.00	30500.00	1222.10	.00	1222.87	28.79	10.36	6753.62	5684.76
4400.000	200.00	.00	.00	1205.00	30500.00	1222.68	.00	1223.64	31.61	11.10	5919.48	5424.72
* 4750.000	350.00	.00	.00	1208.00	29340.00	1223.28	.00	1223.57	12.97	6.13	9003.17	8147.59
* 4750.000	350.00	.00	.00	1208.00	29340.00	1224.05	.00	1224.38	12.86	6.32	8260.06	8181.06
* 5200.000	450.00	.00	.00	1211.00	29340.00	1223.55	.00	1225.11	72.71	12.85	4498.87	3440.89
* 5200.000	450.00	.00	.00	1211.00	29340.00	1223.92	.00	1226.16	88.06	14.45	3543.92	3126.57
5600.000	400.00	.00	.00	1213.00	29340.00	1226.59	.00	1227.68	55.50	11.29	5239.65	3938.40
5600.000	400.00	.00	.00	1213.00	29340.00	1227.32	.00	1229.84	91.75	15.07	3260.14	3063.12
* 6700.000	1100.00	.00	.00	1219.90	29340.00	1235.36	1235.36	1236.95	55.47	13.19	5951.51	3939.46
6700.000	1100.00	.00	.00	1219.90	29340.00	1236.16	.00	1237.64	55.01	12.56	5138.85	3955.98
7600.000	900.00	.00	.00	1226.40	29340.00	1239.08	.00	1239.87	51.07	10.72	6242.48	4105.77
7600.000	900.00	.00	.00	1226.40	29340.00	1239.92	.00	1241.57	82.77	13.54	4036.16	3225.03

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10*KS	VCH	AREA	.01K
*	8600.000	1000.00	.00	.00	1232.60	29340.00	1246.90	1246.90	1249.93	82.22	15.48	3134.36	3235.77
	8600.000	1000.00	.00	.00	1232.60	29340.00	1247.47	.00	1250.84	92.76	15.81	2493.31	3046.35
*	9500.000	900.00	.00	.00	1239.00	29340.00	1253.88	.00	1254.57	32.50	7.16	5002.36	5146.61
*	9500.000	900.00	.00	.00	1239.00	29340.00	1254.90	.00	1255.76	33.09	7.61	4093.60	5100.82
*	10400.000	900.00	.00	.00	1245.30	29340.00	1259.28	1259.28	1262.46	72.52	15.87	3116.94	3445.23
*	10400.000	900.00	.00	.00	1245.30	29340.00	1259.15	1259.15	1262.47	85.55	16.16	2907.44	3172.04
	12550.000	2150.00	.00	.00	1262.50	29340.00	1275.37	.00	1277.13	63.09	13.55	3559.11	3693.74
	12550.000	2150.00	.00	.00	1262.50	29340.00	1276.13	.00	1278.12	61.65	13.96	3306.43	3736.75
	15000.000	2450.00	.00	.00	1280.80	28490.00	1292.05	.00	1294.75	80.24	14.48	3000.37	3180.44
	15000.000	2450.00	.00	.00	1280.80	28490.00	1292.37	.00	1295.12	76.76	14.44	2809.02	3251.79
	17250.000	2250.00	.00	.00	1291.80	28490.00	1307.58	.00	1310.24	59.72	14.38	2545.09	3686.54
	17250.000	2250.00	.00	.00	1291.80	28490.00	1307.62	.00	1310.29	59.57	14.39	2536.47	3691.20

LINVILLE RIVER BURKE CO.

SUMMARY PRINTOUT TABLE 150

SECD	Q	CWSEL	DIFWSP	DIFWSX	DIFKHS	TCPWID	XLCH
10.000	30500.00	1206.71	.00	.00	.00	1682.91	.00
10.000	30500.00	1206.71	.00	.00	.00	860.00	.00
11.000	30500.00	1206.71	.00	.00	.00	1683.33	1.00
11.000	30500.00	1206.71	.00	.00	.00	860.00	1.00
13.000	30500.00	1206.72	.00	.01	.00	1684.54	2.00
13.000	30500.00	1206.73	.00	.01	.00	860.00	2.00
15.000	30500.00	1206.73	.00	.01	.00	1686.39	2.00
15.000	30500.00	1206.74	.01	.02	.01	860.00	2.00
20.000	30500.00	1206.74	.00	.01	.00	1695.97	5.00
20.000	30500.00	1206.76	.01	.02	.01	860.00	5.00
60.000	30500.00	1206.83	.00	.03	.00	1686.37	40.00
60.000	30500.00	1206.98	.15	.22	.15	860.00	40.00
* 2200.000	30500.00	1211.04	.00	4.21	.00	1655.20	2140.00
* 2200.000	30500.00	1211.83	.79	4.85	.79	800.00	2140.00
2300.000	30500.00	1210.92	.00	-.12	.00	1651.41	100.00
2300.000	30500.00	1211.76	.85	-.06	.85	800.00	100.00
2650.000	30500.00	1211.61	.00	.67	.00	1654.85	350.00
2650.000	30500.00	1212.32	.71	.56	.71	800.00	350.00
3000.000	30500.00	1212.27	.00	.66	.00	1655.42	350.00
3000.000	30500.00	1212.92	.65	.60	.65	800.00	350.00
* 3220.000	30500.00	1212.66	.00	.39	.00	1174.12	220.00
* 3220.000	30500.00	1212.55	-.11	-.37	-.11	770.00	220.00
3440.000	30500.00	1214.62	.00	1.96	.00	1182.97	220.00
3440.000	30500.00	1214.91	.28	2.36	.28	780.00	220.00
* 3515.000	30500.00	1215.19	.00	.57	.00	996.64	75.00
* 3515.000	30500.00	1215.04	-.15	.13	-.15	626.51	75.00
* 3516.000	30500.00	1216.17	.00	.98	.00	1014.16	1.00
3516.000	30500.00	1215.86	-.31	.83	-.31	637.50	1.00
3534.000	30500.00	1216.27	.00	.10	.00	1015.77	18.00
3534.000	30500.00	1216.23	-.04	.37	-.04	643.14	18.00
3535.000	30500.00	1217.90	.00	-.37	.00	1008.89	1.00
3535.000	30500.00	1216.00	.10	-.23	.10	639.76	1.00

	SECNO	C	CWSEL	DIFWSP	DIFWEA	DIFKNS	TOPWID	XLCH
*	3560.000	30500.00	1216.02	.00	.12	.00	1033.54	25.00
*	3560.000	30500.00	1216.30	.27	.29	.27	700.00	25.00
	3585.000	30500.00	1216.78	.00	.76	.00	1087.51	25.00
	3585.000	30500.00	1217.31	.53	1.02	.53	700.00	25.00
	3645.000	30500.00	1217.81	.00	1.03	.00	1092.65	160.00
	3645.000	30500.00	1218.48	.67	1.17	.67	700.00	160.00
	3900.000	30500.00	1218.48	.00	.67	.00	1096.26	155.00
	3900.000	30500.00	1219.06	.58	.58	.58	650.00	155.00
*	4000.000	30500.00	1218.37	.00	-.11	.00	739.92	100.00
*	4000.000	30500.00	1218.62	.26	-.44	.26	593.00	100.00
*	4200.000	30500.00	1221.21	.00	2.85	.00	751.77	200.00
*	4200.000	30500.00	1221.72	.51	3.10	.51	594.00	200.00
	4400.000	30500.00	1222.10	.00	.89	.00	755.49	200.00
	4400.000	30500.00	1222.68	.58	.96	.58	594.00	200.00
*	4750.000	29340.00	1223.28	.00	1.18	.00	885.16	350.00
*	4750.000	29340.00	1224.05	.77	1.37	.77	700.00	350.00
*	5200.000	29340.00	1223.55	.00	.27	.00	714.39	450.00
*	5200.000	29340.00	1223.92	.38	-.12	.38	501.96	450.00
	5600.000	29340.00	1226.59	.00	3.06	.00	981.66	400.00
	5600.000	29340.00	1227.32	.73	3.39	.73	480.00	400.00
*	6700.000	29340.00	1235.36	.00	8.77	.00	1830.72	1100.00
	6700.000	29340.00	1236.16	.81	8.95	.81	1095.00	1100.00
	7600.000	29340.00	1239.08	.00	3.72	.00	1163.12	900.00
	7600.000	29340.00	1239.92	.85	3.76	.85	600.00	900.00
*	8600.000	29340.00	1246.90	.00	7.83	.00	596.32	1000.00
	8600.000	29340.00	1247.47	.57	7.55	.57	299.00	1000.00
*	9500.000	29340.00	1253.88	.00	6.98	.00	932.69	900.00
*	9500.000	29340.00	1254.90	1.02	7.43	1.02	360.00	900.00
*	10400.000	29340.00	1259.28	.00	5.39	.00	596.36	900.00
*	10400.000	29340.00	1259.15	-.13	4.24	-.13	499.00	900.00
	12550.000	29340.00	1275.37	.00	16.07	.00	361.41	2150.00
	12550.000	29340.00	1276.13	.76	16.98	.76	300.00	2150.00
	15000.000	28490.00	1292.05	.00	16.68	.00	503.02	2450.00
	15000.000	28490.00	1292.37	.32	16.24	.32	400.00	2450.00

08JAN92 07:44:17

PAGE 32

SECNO	Q	CKSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
17250.000	28490.00	1307.58	100	15.53	.00	213.32	2250.00
17250.000	28490.00	1307.62	100	15.25	.04	205.94	2250.00

08JAN92

07:44:17

PAGE 35

FLOODWAY DATA, LINVILLE RIVER BURKE CO.
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
10.000	860.	4485.	6.8	1206.7	1206.7	.0
11.000	860.	4488.	6.8	1206.7	1206.7	.0
13.000	860.	4494.	6.9	1206.7	1206.7	.0
15.000	860.	4504.	6.8	1206.7	1206.7	.0
20.000	860.	4507.	6.8	1206.7	1206.7	.0
60.000	860.	4632.	6.6	1206.9	1206.8	.1
2200.000	800.	7246.	4.2	1211.8	1211.0	.8 A
2300.000	800.	5910.	5.2	1211.7	1210.9	.8
2650.000	800.	5716.	5.3	1212.3	1211.6	.7
3000.000	600.	5412.	5.6	1213.0	1212.3	.7
3220.000	770.	3392.	9.0	1212.6	1212.7	-.1
3440.000	780.	4807.	6.3	1214.9	1214.6	.3
3515.000	811.	2662.	11.5	1215.0	1215.2	-.2
3516.000	812.	3090.	9.9	1215.9	1216.2	-.3
3534.000	812.	3324.	9.2	1216.3	1216.3	.0
3535.000	812.	3278.	9.3	1216.0	1215.9	.1
3560.000	700.	3517.	8.7	1216.3	1216.0	.3
3585.000	700.	4182.	7.3	1217.3	1216.8	.5
3645.000	700.	4784.	6.4	1218.5	1217.8	.7
3900.000	650.	4683.	6.5	1219.1	1218.5	.6
4000.000	593.	3695.	8.3	1218.7	1218.4	.3
4200.000	594.	5533.	5.5	1221.7	1221.2	.5
4400.000	594.	5919.	5.2	1222.7	1222.1	.6
4750.000	700.	8260.	3.6	1224.1	1223.3	.8
5200.000	502.	3544.	8.3	1223.9	1223.5	.4
5600.000	480.	3260.	9.0	1227.3	1226.6	.7
6700.000	1095.	5139.	5.7	1236.2	1235.4	.8
7600.000	600.	4036.	7.3	1239.9	1239.1	.8
8600.000	299.	2493.	11.8	1247.5	1246.9	.6
9500.000	360.	4094.	7.2	1254.9	1253.9	1.0
10400.000	499.	2907.	10.1	1259.2	1259.3	-.1
12559.000	302.	3306.	8.9	1276.2	1275.4	.8
15000.000	400.	2809.	10.1	1292.4	1292.1	.3
17250.000	206.	2536.	11.2	1307.6	1307.6	.0