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REC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53  
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E  
71 ORANGE COUNTY FIA STUDY  
72 MC GOWAN CREEK

MC GOWAN  
CREEK

.000 0.000  
0.000 0.000

.000 0.000  
0.000 1050.000  
0.000 1210.000  
0.000 0.000  
0.000 0.000

.000 0.000  
0.000 1050.000  
0.000 1112.000  
0.500 1263.000  
0.000 0.000

.000 0.000  
0.700 1050.000  
0.000 0.000

.500 0.000

0.000 0.000

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 MEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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C  
 T1 ORANGE COUNTY FIA STUDY  
 T2 MC GOWAN CREEK  
 T3 10-YR FLOOD DEC 1977 CAF

J1	ICHECK	INH	GINV	IOIK	STRI	METRIC	RVING	G	WELL	FN
	0.	2.	0.	0.	0.000200	0.00	0.0	0.	543.000	0.000
J2	NPROF	IPLUT	PREVS	XSECV	XSECF	FN	ALLDC	IRA	GENIP	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE LOADS FOR SUMMARY PRINTOUT									
	38.000	1.000	3.000	42.000	41.000	4.000	0.000	38.000	1.000	13.000
	14.000	15.000	55.000	26.000	58.000	0.000	150.000	201.000	0.000	0.000
AC	0.120	0.120	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
GT	5.000	5035.000	4653.000	4654.000	4654.000	4654.000	0.000	0.000	0.000	0.000

END RIVER VALLEY SECTION

X1	10100.000	15.000	1050.000	1160.000	0.000	0.000	0.000	0.000	-1.000	0.000
CR	500.000	420.000	550.000	490.000	540.000	460.000	530.000	1000.000	530.000	1000.000
GR	530.000	1000.000	530.000	1050.000	530.000	1100.000	530.000	1150.000	530.000	1010.000
CR	540.000	1050.000	530.000	1310.000	560.000	1180.000	0.000	0.000	0.000	0.000
GR	5.000	1200.000	530.000	2021.000	0.000	0.000	0.000	0.000	0.000	0.000

CRG-1 VALLEY

X1	500.000	10.000	1050.000	1115.000	500.000	500.000	500.000	0.000	0.000	0.000
CR	557.500	100.000	547.500	520.000	500.000	420.000	537.000	1000.000	530.000	1000.000
GR	535.700	1053.000	535.700	1063.000	535.700	1073.000	530.000	1042.000	530.000	1112.000
CR	530.000	1123.000	530.000	1133.000	537.100	1163.000	530.000	1153.000	537.500	1000.000
GR	530.000	1228.000	540.000	1320.000	557.700	1428.000	0.000	0.000	0.000	0.000

X1	1100.000	0.000	1100.000	1090.000	500.000	500.000	500.000	0.000	0.000	0.000
CR	505.000	100.000	540.000	475.000	500.000	1050.000	507.000	1055.000	537.000	1000.000
GR	501.500	1090.000	501.500	1225.000	507.000	1300.000	500.000	1100.000	0.000	0.000

X1	500.000	0.000	0.000	0.000	500.000	500.000	500.000	0.000	0.500	0.000
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CRG-2 VALLEY

X1	1030.000	14.000	1000.000	1033.000	230.000	230.000	230.000	0.000	0.000	0.000
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PRINTED IN U.S.A.

GR	541.600	1015.000	541.500	1025.000	541.400	1029.000	545.900	1033.000	545.700	1074.000
GR	546.200	1174.000	548.900	1255.000	551.000	1274.000	566.500	1374.000	0.000	0.000
XI	2000.000	0.000	0.000	0.000	170.000	170.000	170.000	0.000	1.100	0.000
GI	5.000	1092.000	2030.000	2569.000	4264.000	2569.000	0.000	0.000	0.000	0.000
XI	4200.000	11.000	1000.000	1050.000	2200.000	2200.000	2200.000	0.000	0.000	0.000
GR	590.000	780.000	580.000	860.000	570.000	930.000	562.700	1000.000	558.600	1004.000
GR	558.100	1011.000	558.600	1021.000	564.100	1030.000	570.000	1230.000	580.000	1360.000
GR	590.000	1470.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

XI	4279.000	0.000	0.000	0.000	79.000	79.000	79.000	0.000	0.400	0.000
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DMG-3 SR 1327

XI	4280.000	9.000	1000.000	1050.000	1.000	1.000	1.000	0.000	0.000	0.000
GR	567.400	808.000	575.200	908.000	570.000	930.000	569.200	1000.000	568.400	1010.000
GR	564.100	1050.000	565.500	1208.000	573.500	1308.000	584.200	1408.000	0.000	0.000

XI	4300.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
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XI	4301.000	12.000	1000.000	1050.000	1.000	1.000	1.000	0.000	-2.200	0.000
GR	589.300	840.000	567.700	928.000	566.900	940.000	565.400	1000.000	561.500	1004.000
GR	560.800	1011.000	561.500	1021.000	566.800	1030.000	567.000	1040.000	566.800	1140.000
GR	505.100	1240.000	588.700	1263.000	0.000	0.000	0.000	0.000	0.000	0.000

XI	4300.000	0.000	0.000	0.000	79.000	79.000	79.000	0.000	0.400	0.000
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DMG-4 U.S. VALLEY

XI	4850.000	0.000	0.000	0.000	450.000	450.000	450.000	0.000	1.000	0.000
GI	5.000	485.000	1233.000	2323.000	3803.000	2323.000	0.000	0.000	0.000	0.000

DMG-5 VALLEY

XI	7100.000	10.000	1000.000	1025.000	2000.000	2050.000	2050.000	0.000	0.000	0.000
GR	602.500	840.000	582.500	940.000	567.100	974.000	572.500	1000.000	574.500	1002.000
GR	570.000	1010.000	575.000	1020.000	575.000	1025.000	580.100	1030.000	575.500	1125.000

XI	8700.000	11.000	1000.000	1020.000	1020.000	1020.000	1020.000	0.000	-1.900	0.000
GR	605.700	750.000	594.900	858.000	505.800	958.000	562.000	1000.000	575.700	1005.000
GR	575.100	1011.000	575.000	1016.000	560.000	1020.000	561.000	1020.000	561.500	1028.000
GR	593.800	1090.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DMG-6 SR 1324

XI	8805.000	0.000	1000.000	1024.000	105.000	105.000	105.000	0.000	0.500	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	507.500	507.500	0.000
SB	0.000	1.600	2.800	0.000	17.000	20.100	182.000	0.380	577.600	577.500

X1	8835.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	586.500	588.200	0.000	0.000	0.000	0.000	0.000

PRINTED IN U.S.A.

BT	7.000	756.000	604.200	0.000	867.000	592.200	0.000	956.000	588.500	0.000
BT	1000.000	588.200	0.000	1024.000	588.200	0.000	1051.000	589.000	0.000	1092.000
BT	598.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

XI	8900.000	0.000	0.000	0.000	65.000	65.000	65.000	0.000	0.300	0.000
AC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000

ORG-7 U.S. VALLEY

XI	9170.000	0.000	0.000	0.000	270.000	270.000	270.000	0.000	1.200	0.000
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XI	9570.000	0.000	0.000	0.000	400.000	400.000	400.000	0.000	1.500	0.000
QI	5.000	870.000	1627.000	2064.000	3441.000	2064.000	0.000	0.000	2.000	0.000

XI	11300.000	9.000	1000.000	1029.000	1730.000	1730.000	1730.000	0.000	-1.900	0.000
GR	614.700	700.000	602.300	800.000	596.000	900.000	595.600	1000.000	591.100	1011.000
GR	590.700	1018.000	591.100	1026.000	593.200	1029.000	612.600	1029.000	0.000	0.000
AC	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000

ORG-8 SR 1004

XI	11450.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	1.250	1.270	2.900	0.000	29.000	2.000	297.000	0.000	205.000	289.000

XI	11510.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	1.200	0.000
XC	0.000	0.000	1.000	660.000	607.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	9.000	626.000	615.700	0.000	700.000	619.200	0.000	620.000	611.100	0.000
BT	926.000	607.100	0.000	1000.000	600.000	0.000	1025.000	600.000	0.000	1100.000
BT	610.600	0.000	1200.000	610.300	0.000	1277.000	619.700	0.000	0.000	0.000

ORG-9 U.S. VALLEY

XI	11600.000	0.000	0.000	0.000	90.000	90.000	90.000	0.000	1.100	0.000
BT	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.000

ORG-10 U.S. VALLEY

XI	12070.000	12.000	1000.000	1020.000	600.000	600.000	600.000	0.000	1.000	0.000
BB	619.900	617.000	600.100	800.000	597.000	600.000	597.700	1000.000	597.000	1070.000
GR	593.000	1017.000	597.000	1020.000	597.000	1020.000	612.000	1020.000	0.000	0.000
BB	610.000	1015.000	615.700	1020.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ORG-11 U.S. VALLEY

XI	12550.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	1.000	0.000
SB	0.000	1.000	2.000	0.000	0.100	0.000	1.000	0.000	0.000	0.000

XI	12570.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.500	0.000
XC	0.000	0.000	1.000	600.000	605.000	0.000	0.000	0.000	0.000	0.000
Y3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	604.000	605.000	0.000
BT	9.000	868.000	619.900	0.000	905.000	611.700	0.000	926.000	611.500	0.000
BT	950.000	610.900	0.000	975.000	610.100	0.000	1000.000	609.000	0.000	1050.000

PRINTED IN U.S.A.

81 809,000 0.000 1150,000 612,200 0.000 1255,000 619,500 0.000 0.000

X1	12450.000	0.000	0.000	0.000	80.000	80.000	80.000	0.000	0.400	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000

X1	12500.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.400	0.000
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X1	12600.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.800	0.000
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X1	12700.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.800	0.000
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CFG-12 VALLIY

X1	13400.000	19.000	1600.000	1045.000	1240.000	1240.000	1240.000	0.000	0.000	0.000
GR	628.403	452.000	621.500	532.000	628.300	632.000	621.700	722.000	615.500	632.000
CO	610.000	890.000	700.000	952.000	609.500	1000.000	600.800	1005.000	607.700	1010.000
CR	607.700	1032.000	605.700	1045.000	620.500	1152.000	622.000	1125.000	0.000	0.000

X1	14000.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	0.100	0.000
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X1	14100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.100	0.000
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X1	14200.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.100	0.000
CO	0.000	652.000	1700.000	1675.000	1779.000	1955.000	0.000	0.000	0.000	0.000

CFG-13 VALLIY

X1	14300.000	15.000	1300.000	1000.000	1100.000	1100.000	1100.000	0.000	0.000	0.000
GR	627.800	450.000	625.000	700.000	610.500	690.000	610.000	722.000	615.100	690.000
CO	610.000	890.000	711.000	1000.000	610.100	1012.000	610.000	1020.000	616.000	1000.000
CR	610.000	1030.000	612.000	1100.000	627.000	1200.000	625.000	1220.000	621.700	1200.000

X1	14400.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	0.000	0.000
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X1	14500.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	0.000	0.000
CO	0.000	652.000	1700.000	1700.000	1779.000	1955.000	0.000	0.000	0.000	0.000

X1	14600.000	15.000	1300.000	1000.000	1100.000	1100.000	1100.000	0.000	-1.000	0.000
GR	627.800	450.000	625.000	700.000	610.500	690.000	610.000	722.000	615.100	690.000
CO	610.000	890.000	711.000	1000.000	610.100	1012.000	610.000	1020.000	616.000	1000.000
CR	610.000	1030.000	612.000	1100.000	627.000	1200.000	625.000	1220.000	621.700	1200.000

CFG-14 VALLIY

X1	18615.000	0.000	0.000	0.000	115.000	115.000	115.000	0.000	0.500	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	625.200	625.200	0.000
SD	0.000	1.000	2.500	0.000	0.000	0.100	60.000	1.750	619.700	619.500

X1	18645.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	625.900	625.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	625.200	625.200	0.000

PRINTED IN U.S.A.

BT	1000.000	625.200	0.000	1018.000	625.200	0.000	1062.000	623.700	0.000	1090.000
BT	623.900	0.000	1149.000	625.900	0.000	1249.000	633.400	0.000	0.000	0.000

ORG-15 U.S. VALLEY

XI	18730.000	0.000	0.000	0.000	85.000	85.000	85.000	0.000	0.500	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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T1 ORANGE COUNTY FIA STUDY  
 T2 MC GORAN CREEK  
 T3 50-YR FLOOD DEC 1977 CWF

J1	ICHECK	INO	NPV	IDIR	SERI	METRIC	RVINS	G	WSEL	FR
	-10.	3.	0.	0.	0.000200	0.00	0.0	0.	544.600	0.000
J2	NPROF	IPLC%	PREVS	XSECV	XSECH	FN	ALLC	IBW	CPH%	ITRALT
	2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PROF 2  
 CCHV= 0.100 CCHV= 0.300  
 \*SECD 181000.000

SECD	DEPTH	CNSL	CRWS	WSELK	EG	HV	PL	GLOSS	HARK	LEY
W	GLUB	WCH	WRUB	ALUB	ACH	ARUB	VOL	TAA	LEFT	RIGHT
TIME	VLOS	VCH	VRUB	XAL	XACH	XAR	WIA	ELFIA	SSIA	
SLOPE	XLOBL	XLCH	XLOBR	ITRALT	IDC	ICENT	CORAK	ICPAC	LEGST	

ENG RIVER VALLEY SECTION

181000.00	17.69	546.09	0.00	544.60	546.13	0.04	0.00	0.00	534.40	
4063.	802.	1799.	1062.	1089.	824.	1806.	0.	0.	534.40	
0.00	0.74	2.14	0.91	0.120	0.060	0.120	0.000	528.00	906.16	
0.000202	0.	0.	0.	0	0	?	0.00	392.26	1290.44	

\*SECD 520.000

CMG-1 VALLEY

520.00	11.15	546.25	0.00	0.00	546.26	0.01	0.13	0.00	535.70	
2230.	598.	801.	831.	1225.	634.	1613.	69.	9.	536.40	
0.30	0.49	1.26	0.52	0.120	0.060	0.120	0.060	535.10	890.04	
0.000112	840.	840.	840.	0	0	0	0.00	494.40	1340.48	

\*SECD 1100.000

1100.00	8.65	546.35	0.00	0.00	546.42	0.07	0.14	0.02	540.00	
2230.	441.	981.	808.	415.	331.	815.	103.	14.	541.50	
0.34	1.06	2.97	0.99	0.120	0.060	0.120	0.060	537.70	957.89	
0.000909	580.	580.	580.	1	0	0	0.00	333.25	1291.12	

\*SECD 1600.000

1600.00	7.01	547.01	0.00	0.00	547.10	0.17	0.73	0.03	542.30	
2230.	390.	1171.	670.	270.	265.	504.	118.	18.	543.80	
0.43	1.44	4.41	0.33	0.120	0.060	0.120	0.060	540.00	965.17	
0.002703	500.	500.	500.	2	0	0	0.00	303.82	1268.79	

PRINTED IN U.S.A.

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 HECE RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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11 ORANGE COUNTY FIA STUDY  
 12 MC GONAR CREEK  
 13 100-YR FLOOD DEL 1977 CWT

J1	ICHECK	LRG	KRV	LDIS	STRI	PEIRIT	BVINS	G	WDEL	FL
	-10.	0.	0.	0.	0.000200	0.00	0.0	0.	545.000	0.000
J2	KPROI	ICRUI	PROVST	XSEV	XOFF	FR	ALIDL	LOS	CPNIP	THALL
	5.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PRDF 5  
 \*ECHO 0.100 11000 0.100  
 \*SECR0 101000.000

SECR0	DEP10	LSSEL	UPLES	CSOLF	FR	DV	RI	OLGSS	DALE	FLIV
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FOR RIVER VALLEY SECTION

101000.00	18.69	547.09	0.00	0.00	547.13	0.00	0.00	0.00	530.00	
4050.	960.	1542.	1713.	1230.	670.	2069.	0.	0.	530.00	
0.27	0.78	2.27	0.85	0.120	0.060	0.120	0.000	528.00	899.19	
0.000201	0.	0.	0.	0	0	0	0.00	462.75	1303.40	

\*SECR0 520.000

GORG-Y VALLEY

520.00	12.15	547.25	0.00	0.00	547.27	0.01	0.10	0.00	535.70	
2021.	778.	970.	1060.	1435.	690.	1008.	70.	9.	530.00	
0.27	0.54	1.00	0.50	0.120	0.060	0.120	0.000	525.10	899.70	
0.000123	800.	800.	800.	0	0	0	0.00	516.01	1351.77	

\*SECR0 1100.000

1100.00	9.60	547.30	0.00	0.00	547.43	0.07	0.15	0.00	540.00	
2321.	582.	1141.	1099.	510.	371.	1024.	117.	15.	540.00	
0.30	1.14	3.07	1.07	0.120	0.060	0.120	0.000	527.70	953.42	
0.000838	580.	580.	580.	0	0	0	0.00	548.76	1302.15	

\*SECR0 1600.000

1600.00	7.95	547.95	0.00	0.00	548.11	0.16	0.64	0.03	542.50	
2821.	536.	1327.	1458.	352.	303.	677.	136.	18.	543.80	
0.41	1.52	4.38	1.41	0.120	0.060	0.120	0.000	540.00	961.01	
0.002236	500.	800.	500.	0	0	0	0.00	320.56	1281.57	

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\*\*\*\*\*  
 REC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

T1 ORANGE COUNTY FIA STUDY  
 T2 MC GOWAN CREEK  
 T3 500-YR FLOOD DEC 1977 CWF

J1	ICHECK	INO	MINV	IOIR	SIRI	METRIC	EVINS	G	ASLL	FW
	-10.	5.	0.	0.	0.000300	0.00	0.0	0.	547.000	0.000

J2	APROF	IPLDT	PRFVS	XSECV	XSECH	IN	ALLOL	IN	CPNIF	ITRACL
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PROF 4

CCRV= 0.100 CCHV= 0.300

\*SECD 181000.000

SECD	DEPTH	CRSEL	CRINS	WSEEN	IG	HV	HL	GLSS	BANK	ELEV
H	WLOB	WCH	WRDB	ALOP	ALH	ARDB	VGL	TA	LIFT/RIGHT	
LINE	VLOB	VCH	VRDB	XMI	XBLH	XBR	SIR	LETR	SSIF	
SLOPE	XLGBL	XUCF	XLGBR	ITRSL	IG	ICONT	EDRWF	ICPWL	FLST	

TRG RIVER VALLEY SECTION

181000.00	19.09	548.09	0.00	547.00	548.10	0.00	0.00	0.00	554.40
6504.	1393.	2071.	2440.	1591.	925.	2210.	0.	0.	554.40
0.00	1.00	2.09	1.10	0.120	0.000	0.120	0.000	528.00	292.10
0.000300	0.	0.	0.	0	0	0	0.00	418.50	1307.40

\*SECD 520.000

ORG-T VALLEY

520.00	13.26	548.38	0.00	0.00	548.39	0.03	0.23	0.00	552.70
4671.	1330.	1551.	1790.	1681.	760.	2113.	00.	9.	550.40
0.19	0.79	2.04	0.85	0.120	0.000	0.120	0.000	528.10	222.24
0.000230	840.	840.	840.	1	0	0	0.00	527.23	1359.76

\*SECD 1100.000

1100.00	10.86	548.58	0.00	0.00	548.60	0.12	0.26	0.03	540.00
4671.	993.	1735.	1943.	629.	719.	1283.	153.	15.	541.50
0.25	1.58	4.14	1.51	0.120	0.000	0.120	0.000	527.70	948.09
0.001293	580.	580.	580.	2	0	0	0.00	521.49	1309.57

\*SECD 1600.000

1600.00	9.39	549.39	0.00	0.00	549.60	0.22	0.50	0.03	542.30
4671.	955.	1931.	1785.	484.	360.	967.	157.	19.	543.60
0.30	1.77	5.36	1.85	0.120	0.000	0.120	0.000	540.00	954.62
0.002651	500.	500.	500.	2	0	0	0.00	345.91	1300.53

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

NOTE - ASTERISK (\*) AT END OF CROSS-SECTION NUMBER INDICATES REASON TO APPEND TO CROSS LIST

FLOOD DEC 1977 CSE

SUMMARY PRELIM

SECTNO	USSR	IB	FINN	SWIT	TOTAL
101000.000	563.10	564.24	568.90	0.00	596.15
101000.000	568.09	568.13	572.00	0.00	598.22
101000.000	567.07	567.15	572.00	0.00	599.22
101000.000	568.09	568.17	572.00	0.00	600.26
500.000	566.31	566.36	572.10	0.00	598.77
500.000	566.07	566.07	572.10	0.00	598.24
500.000	567.07	567.07	572.10	0.00	599.17
500.000	566.31	566.39	572.10	0.00	598.80
1100.000	566.57	566.65	572.10	0.00	599.32
1100.000	566.75	566.74	572.10	0.00	599.59
1100.000	567.50	567.50	572.10	0.00	600.10
1100.000	566.57	566.65	572.10	0.00	599.32
1600.000	565.17	565.27	566.00	0.00	576.44
1700.000	567.01	567.10	566.00	0.00	592.11
1000.000	567.55	567.51	566.00	0.00	591.06
1600.000	569.59	569.60	566.00	0.00	605.19
1930.000	566.95	567.05	561.00	0.00	575.00
1870.000	567.79	567.57	561.00	0.00	576.36
1930.000	568.50	568.05	561.00	0.00	577.55
1830.000	550.12	550.25	561.00	0.00	561.37
2000.000	547.10	548.95	562.10	0.00	558.15
2000.000	549.75	549.62	562.10	0.00	561.47
2000.000	549.76	549.10	562.10	0.00	561.77
2000.000	551.17	551.51	562.10	0.00	565.99
4200.000	564.62	565.27	558.10	0.00	65.99
4200.000	566.47	567.46	558.10	0.00	146.57
4200.000	567.10	568.25	558.10	0.00	173.57
4200.000	568.69	569.96	558.10	0.00	267.75
4279.000	565.50	566.09	558.50	0.00	86.94
4279.000	567.45	568.15	558.50	0.00	171.20
4279.000	568.20	568.55	558.50	0.00	204.56
4279.000	569.80	570.74	558.50	0.00	277.99

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SECO	CWSEL	EG	ELMIN	ELLC	TOPKID
4280.000	565.94	568.08	564.10	0.00	180.64
4280.000	568.04	568.22	564.10	0.00	220.10
4280.000	568.86	569.02	564.10	0.00	245.65
4280.000	570.63	570.62	564.10	0.00	248.95
4300.000	567.11	567.25	564.20	0.00	204.01
4300.000	568.51	568.47	564.20	0.00	230.21
4300.000	569.05	569.21	564.20	0.00	242.11
4300.000	570.76	570.94	564.20	0.00	245.41
4301.000	567.10	567.04	558.00	0.00	221.02
4301.000	568.28	568.09	558.00	0.00	232.50
4301.000	569.00	569.04	558.00	0.00	241.63
4301.000	570.09	570.90	558.00	0.00	252.19
4304.000	567.23	567.40	559.00	0.00	217.61
4304.000	568.07	568.72	559.00	0.00	231.39
4304.000	569.20	569.46	559.00	0.00	238.56
4304.000	570.91	571.63	559.00	0.00	251.01
4350.000	568.00	568.01	560.00	0.00	197.01
4350.000	569.50	569.25	560.00	0.00	227.55
4350.000	570.80	571.05	560.00	0.00	235.20
4350.000	572.00	572.00	560.00	0.00	251.00
7500.000	561.80	561.00	570.00	0.00	111.00
7500.000	568.50	568.01	570.00	0.00	150.72
7500.000	569.19	569.19	570.00	0.00	161.50
7500.000	570.25	570.17	570.00	0.00	175.12
8700.000	565.57	565.10	577.00	0.00	104.09
8700.000	567.10	568.10	577.00	0.00	135.50
8700.000	568.70	569.07	577.00	0.00	150.13
8700.000	571.15	571.54	577.00	0.00	160.07
8805.000	565.14	566.40	577.50	0.00	70.00
8805.000	566.03	566.15	577.50	0.00	135.85
8805.000	567.02	567.32	577.50	0.00	149.09
8805.000	571.45	571.62	577.50	0.00	166.13
8835.000	565.74	566.04	577.00	500.50	20.00
8835.000	569.59	569.57	577.00	500.50	153.82
8835.000	590.25	590.47	577.00	500.50	166.04
8835.000	592.07	592.29	577.00	500.50	194.50
8900.000	566.62	566.61	577.90	0.00	104.55
8900.000	569.48	569.68	577.90	0.00	150.25
8900.000	590.35	590.59	577.90	0.00	165.02
8900.000	592.21	592.25	577.90	0.00	191.06
9170.000	565.21	567.58	579.10	0.00	100.23
9170.000	565.95	566.22	579.10	0.00	140.28
9170.000	590.86	591.16	579.10	0.00	152.44
9170.000	592.07	593.28	579.10	0.00	182.61

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SECNO	CWSEL	EG	ELMIN	EELC	TUPRID
9570.000	588.54	588.90	581.00	0.00	92.51
9570.000	590.96	591.36	581.00	0.00	127.75
9570.000	591.93	592.35	581.00	0.00	141.50
9570.000	594.11	594.63	581.00	0.00	173.60
11300.000	595.43	595.66	588.80	0.00	162.86
11300.000	597.03	597.29	588.80	0.00	193.64
11300.000	597.83	598.09	588.80	0.00	208.33
11300.000	599.90	600.17	588.80	0.00	247.83
11450.000	595.99	596.46	589.40	0.00	29.00
11450.000	597.43	598.50	589.40	0.00	29.00
11450.000	598.06	599.50	589.40	0.00	29.00
11450.000	599.49	602.29	589.40	0.00	29.00
11510.000	596.11	596.62	589.60	600.00	29.00
11510.000	597.66	598.21	589.60	600.60	29.00
11510.000	598.63	599.94	589.60	600.60	29.00
11510.000	601.15	603.22	589.60	600.60	29.00
11600.000	596.85	597.21	590.70	0.00	153.76
11600.000	599.25	599.46	590.70	0.00	199.54
11600.000	600.44	600.62	590.70	0.00	222.11
11600.000	603.90	604.02	590.70	0.00	275.00
12200.000	599.76	600.35	593.00	0.00	70.12
12200.000	601.37	601.78	593.00	0.00	94.51
12200.000	602.15	602.70	593.00	0.00	103.59
12200.000	604.75	605.17	593.00	0.00	137.90
12350.000	599.99	600.31	593.60	0.00	77.71
12350.000	601.62	602.14	593.60	0.00	91.70
12350.000	602.46	603.03	593.60	0.00	100.07
12350.000	605.65	605.70	593.60	0.00	132.63
12370.000	611.10	611.11	593.90	608.90	220.30
12370.000	611.25	611.66	593.90	608.90	231.56
12370.000	612.17	612.20	593.90	608.90	236.80
12370.000	612.84	613.03	593.90	608.90	248.53
12450.000	611.11	611.11	594.30	0.00	214.36
12450.000	611.60	611.67	594.30	0.00	225.59
12450.000	612.16	612.22	594.30	0.00	230.75
12450.000	612.97	613.07	594.30	0.00	242.80
12500.000	611.11	611.12	594.70	0.00	208.31
12500.000	611.85	611.67	594.70	0.00	219.52
12500.000	612.14	612.23	594.70	0.00	224.76
12500.000	612.99	613.09	594.70	0.00	237.05
12600.000	611.11	611.12	595.50	0.00	199.17
12600.000	611.86	611.89	595.50	0.00	207.56
12600.000	612.20	612.26	595.50	0.00	212.64
12600.000	613.02	613.15	595.50	0.00	225.04

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SECNO	CWSEL	EG	ELMIN	ELLC	TCFWD
12700.000	611.12	611.13	596.30	0.00	184.04
12700.000	611.87	611.91	596.30	0.00	195.56
12700.000	612.22	612.29	596.30	0.00	200.94
12700.000	613.07	613.21	596.30	0.00	213.91
13940.000	611.35	611.46	606.80	0.00	177.92
13940.000	612.50	612.67	606.80	0.00	201.04
13940.000	613.09	613.29	606.80	0.00	212.95
13940.000	614.68	614.93	606.80	0.00	244.81
14000.000	611.56	611.66	606.90	0.00	180.14
14000.000	612.74	612.90	606.90	0.00	203.79
14000.000	613.34	613.51	606.90	0.00	215.69
14000.000	614.92	615.15	606.90	0.00	247.47
14100.000	611.86	611.95	607.00	0.00	184.09
14100.000	613.08	613.22	607.00	0.00	208.64
14100.000	613.68	613.84	607.00	0.00	220.70
14100.000	615.27	615.49	607.00	0.00	252.74
14200.000	612.11	612.18	607.10	0.00	186.49
14200.000	613.37	613.49	607.10	0.00	212.34
14200.000	613.92	614.12	607.10	0.00	224.60
14200.000	615.56	615.78	607.10	0.00	256.77
16380.000	616.62	616.71	610.10	0.00	212.07
16380.000	618.10	618.19	610.10	0.00	254.86
16380.000	618.76	618.86	610.10	0.00	266.34
16380.000	620.46	620.56	610.10	0.00	295.87
16600.000	617.14	617.28	611.10	0.00	193.44
16600.000	618.56	618.70	611.10	0.00	245.52
16600.000	619.21	619.34	611.10	0.00	256.63
16600.000	620.88	621.02	611.10	0.00	285.72
16800.000	617.85	618.63	612.00	0.00	197.07
16800.000	619.18	619.36	612.00	0.00	236.27
16800.000	619.74	619.96	612.00	0.00	251.12
16800.000	621.39	621.56	612.00	0.00	275.60
18500.000	625.02	625.15	620.00	0.00	154.29
18500.000	626.10	626.27	620.00	0.00	191.40
18500.000	626.57	626.75	620.00	0.00	204.76
18500.000	627.76	627.99	620.00	0.00	238.63
18615.000	625.56	625.65	620.50	0.00	154.33
18615.000	626.63	626.79	620.50	0.00	192.21
18615.000	627.12	627.30	620.50	0.00	205.90
18615.000	628.34	628.56	620.50	0.00	240.84
18645.000	625.56	625.71	620.70	623.96	197.44
18645.000	626.64	626.83	620.70	623.96	198.81
18645.000	627.13	627.33	620.70	623.96	206.60
18645.000	628.37	628.61	620.70	623.96	236.61

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SECNO	CWSEL	EG	ELMIN	ELLC	TOPWID
18730.000	626.01	626.18	621.20	0.00	145.90
18730.000	627.11	627.31	621.20	0.00	185.90
18730.000	627.59	627.80	621.20	0.00	199.68
18730.000	628.84	629.08	621.20	0.00	234.99

SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QROB	VLOH	VCH	VRQB
181000.000	544.16	539.56	1466.52	1028.92	0.65	2.01	0.72
181000.000	546.09	802.32	1799.09	1461.59	0.74	2.18	0.81
181000.000	547.09	959.59	1981.52	1712.89	0.78	2.27	0.85
181000.000	548.09	1392.88	2671.04	2440.08	1.00	2.89	1.10
520.000	544.51	302.36	472.12	427.52	0.35	0.91	0.36
520.000	546.25	598.38	800.58	831.03	0.49	1.26	0.52
520.000	547.25	778.31	974.41	1068.29	0.54	1.40	0.58
520.000	548.36	1330.35	1550.69	1789.95	0.79	2.04	0.89
1100.000	544.38	201.88	659.57	300.55	0.83	2.61	0.76
1100.000	546.35	441.47	980.65	807.88	1.06	2.97	0.99
1100.000	547.36	581.75	1140.72	1098.52	1.14	3.07	1.07
1100.000	548.56	992.98	1735.10	1942.93	1.58	4.14	1.51
1600.000	545.19	138.70	865.67	197.63	1.13	4.50	0.99
1600.000	547.01	389.70	1170.72	669.58	1.44	4.43	1.33
1600.000	547.95	535.55	1327.20	958.25	1.52	4.38	1.41
1600.000	549.39	955.19	1930.98	1784.83	1.97	5.36	1.85
1830.000	546.43	115.37	1022.42	64.20	1.72	6.81	0.86
1830.000	547.79	313.48	1403.58	512.94	2.27	7.20	1.69
1830.000	548.59	428.86	1534.50	857.63	2.34	6.93	1.84
1830.000	550.12	751.50	2028.79	1890.71	2.72	7.46	2.33
2000.000	548.10	144.35	897.74	159.91	1.51	5.32	0.90
2000.000	549.23	325.67	1318.43	585.89	2.08	6.41	1.59
2000.000	549.76	430.66	1519.01	871.33	2.30	6.79	1.82
2000.000	551.17	750.66	2041.92	1878.42	2.75	7.55	2.35
4200.000	564.62	21.87	1067.75	2.37	1.24	7.03	0.52
4200.000	566.47	130.34	1765.55	134.11	1.91	8.51	1.41
4200.000	567.18	207.10	2092.11	269.78	2.16	9.16	1.69
4200.000	568.69	473.16	2465.45	825.39	2.75	10.22	2.31
4279.000	565.50	33.50	1646.98	11.52	1.21	8.29	0.60
4279.000	567.43	157.63	1674.40	197.90	1.75	7.46	1.35
4279.000	568.20	242.11	1961.58	385.33	1.94	7.93	1.57
4279.000	569.88	527.15	2727.79	1009.06	2.39	9.16	2.06
4280.000	565.94	0.00	142.97	949.03	0.00	9.07	5.23
4280.000	568.04	0.00	324.20	1700.80	0.00	4.56	3.68
4280.000	568.86	0.00	450.28	2118.72	0.00	4.27	2.90
4280.000	570.63	73.90	934.84	3250.27	1.00	4.85	2.99
4300.000	567.11	0.00	156.13	935.87	0.00	3.96	2.57
4300.000	568.31	0.00	355.96	1694.04	0.00	4.27	2.89
4300.000	569.05	0.00	458.24	2114.76	0.00	4.13	2.89
4300.000	570.76	76.46	941.69	3245.85	1.01	4.82	2.97
4301.000	567.10	231.67	747.26	113.07	1.06	3.53	0.68
4301.000	568.28	445.37	1174.08	300.55	1.58	4.76	1.19
4301.000	569.00	659.47	1362.34	547.19	1.76	5.08	1.40
4301.000	570.69	1174.93	1927.11	1161.97	2.23	6.04	1.91

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SECRU	CNSL	OLUB	QCH	QROB	VLOB	VCR	VROB
4380.000	567.23	219.94	781.38	90.68	1.12	3.85	0.68
4380.000	568.47	408.28	1206.84	336.89	1.64	5.02	1.22
4380.000	569.20	651.36	1393.93	523.71	1.82	5.31	1.43
4380.000	570.91	1168.52	1955.07	1140.41	2.29	6.23	1.95
4830.000	568.40	184.16	860.94	46.91	1.23	4.67	0.67
4830.000	569.92	469.38	1265.44	295.18	1.75	5.50	1.25
4830.000	570.64	635.07	1455.71	478.22	1.94	5.79	1.49
4830.000	572.42	1157.02	2004.72	1102.27	2.40	6.57	2.01
7680.000	581.48	42.56	836.11	64.33	1.50	5.94	1.56
7680.000	583.39	211.04	1339.74	212.22	2.28	7.25	2.25
7680.000	584.19	406.14	1608.68	308.19	2.61	7.92	2.54
7680.000	586.25	815.83	2370.97	652.20	3.33	9.46	3.18
8700.000	585.57	167.05	687.65	128.29	1.19	4.56	1.49
8700.000	587.76	488.33	1079.48	265.19	1.64	5.55	1.81
8700.000	588.74	697.92	1277.28	347.80	1.81	5.97	1.94
8700.000	591.15	1405.17	1812.12	645.70	2.17	6.91	2.35
8805.000	585.74	0.00	983.00	0.00	0.00	6.64	0.00
8805.000	588.03	486.77	1081.27	264.96	1.64	5.58	1.81
8805.000	589.02	696.66	1278.73	347.61	1.81	5.99	1.94
8805.000	591.43	1404.45	1813.09	645.46	2.17	6.92	2.35
8835.000	585.74	0.00	983.00	0.00	0.00	6.73	0.00
8835.000	589.39	565.57	990.76	276.66	1.38	4.52	1.47
8835.000	590.25	774.15	1185.98	362.88	1.55	5.02	1.64
8835.000	592.07	1447.53	1755.20	659.87	2.03	6.44	2.21
8900.000	586.62	184.52	867.60	130.87	1.14	4.23	1.29
8900.000	589.48	553.57	1004.56	274.87	1.42	4.67	1.52
8900.000	590.35	762.34	1202.40	358.26	1.60	5.18	1.68
8900.000	592.21	1435.20	1772.10	655.70	2.07	6.58	2.25
9170.000	587.21	153.80	702.88	126.32	1.23	4.63	1.50
9170.000	589.95	508.23	1056.65	268.13	1.57	5.26	1.72
9170.000	590.86	714.84	1257.83	350.33	1.75	5.76	1.87
9170.000	592.87	1390.47	1831.83	649.71	2.22	7.08	2.40
9570.000	588.54	121.77	739.73	121.45	1.30	5.52	1.81
9570.000	590.98	447.70	1126.08	259.22	1.76	6.16	2.01
9570.000	591.93	651.02	1331.15	340.83	1.97	6.59	2.14
9570.000	594.11	1332.07	1910.78	620.15	2.42	7.78	2.59
11300.000	595.43	157.80	681.65	30.56	0.95	4.38	1.16
11300.000	597.83	539.10	1017.31	70.59	1.42	5.04	1.40
11300.000	597.83	789.52	1177.72	96.76	1.57	5.23	1.47
11300.000	599.90	1624.96	1627.65	188.39	1.87	5.70	1.64
11450.000	595.99	0.00	870.00	0.00	0.00	5.83	0.00
11450.000	597.43	0.00	1627.00	0.00	0.00	8.29	0.00
11450.000	598.06	0.00	2064.00	0.00	0.00	9.61	0.00
11450.000	599.49	0.00	3441.00	0.00	0.00	13.43	0.00



SECNO	CWSEL	ULOB	QCH	QNSB	VQOB	VCH	VROB
11510.000	596.11	0.00	870.00	0.00	0.00	5.71	0.00
11510.000	597.80	0.00	1627.00	0.00	0.00	8.09	0.00
11510.000	598.63	0.00	2064.00	0.00	0.00	9.15	0.00
11510.000	601.15	0.00	3441.00	0.00	0.00	11.52	0.00
11600.000	596.85	100.30	757.88	27.81	0.94	5.20	1.35
11600.000	599.25	575.88	978.13	72.99	1.34	4.62	1.29
11600.000	600.44	865.14	1096.15	102.72	1.39	4.45	1.26
11600.000	603.90	1840.12	1392.04	208.84	1.42	4.02	1.18
12280.000	599.76	65.98	774.17	29.85	1.16	4.37	0.97
12280.000	601.32	199.94	1331.18	95.87	1.82	5.94	1.46
12280.000	602.15	297.16	1618.92	147.92	2.07	6.51	1.65
12280.000	604.79	668.71	2363.92	408.37	2.45	7.21	2.09
12350.000	599.99	55.92	789.27	24.81	1.21	4.75	1.02
12350.000	601.62	186.19	1352.65	88.16	1.88	6.29	1.52
12350.000	602.46	202.44	1642.85	138.71	2.15	6.85	1.72
12350.000	605.05	650.52	2405.17	385.30	2.56	7.57	2.16
* 12370.000	611.10	217.57	469.59	182.84	0.34	0.96	0.29
* 12370.000	611.83	414.63	853.22	359.16	0.56	1.67	0.51
* 12370.000	612.17	530.25	1068.25	465.50	0.72	2.05	0.62
* 12370.000	612.94	899.43	1728.16	813.41	1.11	3.17	0.97
12450.000	611.11	215.07	477.41	177.52	0.35	1.00	0.30
12450.000	611.84	410.51	866.62	349.87	0.61	1.73	0.53
12450.000	612.18	525.30	1084.67	454.03	0.74	2.12	0.65
12450.000	612.97	892.24	1751.02	795.73	1.15	3.28	1.00
12500.000	611.11	212.48	485.32	172.20	0.36	1.04	0.32
12500.000	611.85	406.15	880.49	340.35	0.63	1.80	0.55
12500.000	612.19	520.04	1101.73	442.23	0.77	2.21	0.67
12500.000	612.99	884.54	1779.15	777.31	1.19	3.40	1.04
12600.000	612.11	206.87	501.85	161.29	0.40	1.13	0.34
12600.000	611.86	396.74	909.46	320.86	0.68	1.96	0.59
12600.000	612.20	508.71	1137.32	417.98	0.84	2.39	0.73
12600.000	613.02	867.98	1833.55	739.47	1.28	3.67	1.11
12700.000	611.12	200.61	519.40	149.99	0.43	1.24	0.37
12700.000	611.87	386.31	940.11	300.58	0.74	2.13	0.65
12700.000	612.22	496.18	1174.90	392.93	0.91	2.60	0.79
12700.000	613.07	849.85	1890.65	700.50	1.39	3.96	1.20
13940.000	611.35	377.78	404.91	7.31	1.35	3.31	0.65
13940.000	612.50	764.35	831.09	31.56	1.79	4.24	0.97
13940.000	613.09	994.14	1017.31	52.55	1.95	4.59	1.10
13940.000	614.68	1730.23	1566.45	143.72	2.31	5.40	1.40
14000.000	611.56	381.68	486.16	8.15	1.30	3.17	0.64
14000.000	612.74	769.24	823.94	33.82	1.73	4.08	0.95
14000.000	613.34	998.98	1009.56	55.46	1.89	4.44	1.08
14000.000	614.92	1735.44	1557.21	148.34	2.25	5.27	1.37

SECNO	CWSEL	QLOH	QCH	DR00	VLOB	VCH	VROB
14100.000	611.86	308.03	472.20	9.71	1.22	2.95	0.61
14100.000	613.08	777.21	811.95	37.83	1.62	3.82	0.91
14100.000	613.68	1007.19	996.04	60.77	1.78	4.18	1.03
14100.000	615.27	1744.07	1539.50	157.43	2.14	5.02	1.32
14200.000	612.11	392.25	466.87	10.89	1.17	2.81	0.60
14200.000	613.37	782.77	803.31	40.92	1.55	3.65	0.88
14200.000	613.98	1013.09	986.00	64.91	1.71	4.00	1.00
14200.000	615.58	1750.25	1526.41	164.33	2.07	4.84	1.28
16380.000	616.62	188.70	378.41	124.88	0.96	3.11	0.78
16380.000	618.10	411.17	539.49	351.34	1.23	3.90	1.03
16380.000	618.76	535.17	619.53	500.31	1.34	3.67	1.16
16380.000	620.46	929.40	850.00	994.12	1.56	4.13	1.46
16600.000	617.14	168.25	422.33	101.42	1.09	3.81	0.89
16600.000	618.56	399.87	594.35	307.76	1.42	4.17	1.14
16600.000	619.21	524.88	674.33	455.79	1.53	4.31	1.29
16600.000	620.88	920.51	903.69	949.80	1.77	4.68	1.60
16800.000	617.85	158.47	441.79	91.73	1.14	4.13	0.94
16800.000	619.18	389.66	626.23	236.11	1.53	4.60	1.22
16800.000	619.79	517.47	711.62	425.91	1.65	4.76	1.37
16800.000	621.39	913.55	944.64	915.81	1.91	5.11	1.71
18500.000	625.02	5.25	289.22	273.53	0.55	3.88	1.26
18500.000	626.10	32.70	441.26	601.04	0.90	4.69	1.67
18500.000	626.57	55.59	518.17	795.24	1.04	5.06	1.80
18500.000	627.76	163.22	733.31	1406.07	1.46	5.92	2.30
18615.000	625.52	5.13	289.92	272.95	0.55	3.90	1.26
18615.000	626.65	33.29	439.19	602.52	0.89	4.65	1.66
18615.000	627.12	56.91	514.51	797.56	1.03	4.99	1.84
18615.000	628.34	168.48	725.79	1408.74	1.45	5.79	2.26
18645.000	625.56	3.78	298.71	265.51	0.55	4.17	1.34
18645.000	626.64	28.53	455.31	590.76	0.95	5.00	1.75
18645.000	627.13	51.20	530.86	786.94	1.07	5.32	1.94
18645.000	628.37	157.00	742.33	1403.66	1.47	6.08	2.35
18730.000	626.01	3.41	301.41	263.16	0.55	4.26	1.37
18730.000	627.11	28.26	458.18	588.62	0.93	5.07	1.77
18730.000	627.59	50.23	533.78	784.99	1.06	5.18	1.96
18730.000	628.84	154.57	745.90	1402.53	1.48	6.14	2.37

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SUMMARY PRINTOUT TABLE 150

SECR0	XLCH	ELTR0	ELLC	ELMIN	G	CNSL	CRMS	EE	ICKAS	VCH	AREA	OLN
181000.000	0.00	0.00	0.00	528.40	3035.00	544.16	0.00	544.26	2.03	2.01	2587.92	2131.84
181000.000	0.00	0.00	0.00	528.40	4063.00	546.09	0.00	546.13	2.02	2.18	3721.05	2861.69
181000.000	0.00	0.00	0.00	528.40	4654.00	547.09	0.00	547.13	2.01	2.27	4119.19	3283.19
181000.000	0.00	0.00	0.00	528.40	6504.00	548.09	0.00	548.16	2.03	2.89	4531.20	3735.79
520.000	840.00	0.00	0.00	535.10	1202.00	544.31	0.00	544.32	0.77	0.91	2555.74	1373.51
520.000	840.00	0.00	0.00	535.10	2230.00	546.25	0.00	546.26	1.12	1.26	3471.87	2105.05
520.000	840.00	0.00	0.00	535.10	2821.00	547.25	0.00	547.27	1.23	1.40	3976.68	2543.50
520.000	840.00	0.00	0.00	535.10	4671.00	548.36	0.00	548.39	2.30	2.04	4554.03	3077.10
1100.000	580.00	0.00	0.00	537.70	1202.00	544.38	0.00	544.40	10.12	2.61	2942.89	377.75
1100.000	580.00	0.00	0.00	537.70	2230.00	546.35	0.00	546.42	19.09	2.97	1560.92	739.74
1100.000	580.00	0.00	0.00	537.70	2821.00	547.36	0.00	547.43	28.38	3.07	1905.45	974.47
1100.000	580.00	0.00	0.00	537.70	4671.00	548.56	0.00	548.68	12.93	4.14	2331.22	1299.03
1600.000	500.00	0.00	0.00	540.00	1202.00	545.19	0.00	545.42	43.25	4.50	515.27	182.77
1600.000	500.00	0.00	0.00	540.00	2230.00	547.01	0.00	547.18	27.03	4.41	1039.58	428.94
1600.000	500.00	0.00	0.00	540.00	2821.00	547.95	0.00	548.11	22.36	4.38	1332.01	598.61
1600.000	500.00	0.00	0.00	540.00	4671.00	549.39	0.00	549.60	26.51	5.30	1811.40	907.26
1830.000	230.00	0.00	0.00	541.00	1202.00	546.43	545.48	547.05	112.88	6.81	242.05	113.13
1830.000	230.00	0.00	0.00	541.00	2230.00	547.79	0.00	548.32	88.80	7.20	637.59	236.64
1830.000	230.00	0.00	0.00	541.00	2821.00	548.59	0.00	549.03	69.43	6.93	870.45	338.55
1830.000	230.00	0.00	0.00	541.00	4671.00	550.12	0.00	550.55	61.11	7.40	1358.94	597.03
2000.000	170.00	0.00	0.00	542.10	1202.00	548.19	0.00	548.43	58.90	5.32	427.71	156.62
2000.000	170.00	0.00	0.00	542.10	2230.00	549.23	0.00	549.62	25.48	6.41	729.84	275.58
2000.000	170.00	0.00	0.00	542.10	2821.00	549.76	0.00	550.18	66.69	6.79	869.18	347.24
2000.000	170.00	0.00	0.00	542.10	4671.00	551.17	0.00	551.61	63.32	7.55	1241.86	586.94
4200.000	2200.00	0.00	0.00	558.10	1092.00	564.62	0.00	565.37	108.57	7.03	174.08	105.78
4200.000	2200.00	0.00	0.00	558.10	2030.00	566.47	0.00	567.46	103.67	6.51	370.86	199.95
4200.000	2200.00	0.00	0.00	558.10	2569.00	567.18	0.00	568.25	104.93	9.16	484.11	250.79
4200.000	2200.00	0.00	0.00	558.10	4264.00	568.69	0.00	569.90	114.83	10.82	801.61	397.82
4279.000	79.00	0.00	0.00	558.50	1092.00	565.50	0.00	566.09	25.67	6.29	216.93	125.33
4279.000	79.00	0.00	0.00	558.50	2030.00	567.43	0.00	568.15	71.21	7.40	461.34	240.55
4279.000	79.00	0.00	0.00	558.50	2569.00	568.20	0.00	568.95	71.84	7.93	605.21	309.67
4279.000	79.00	0.00	0.00	558.50	4264.00	569.88	0.00	570.74	73.77	9.16	1008.72	496.44
4280.000	1.00	0.00	0.00	564.10	1092.00	565.94	565.94	566.48	1505.48	9.67	109.24	28.11
4280.000	1.00	0.00	0.00	564.10	2030.00	568.04	0.00	568.22	138.14	4.38	624.62	172.72
4280.000	1.00	0.00	0.00	564.10	2569.00	568.86	0.00	569.02	97.89	4.27	816.83	259.65
4280.000	1.00	0.00	0.00	564.10	4264.00	570.69	0.00	570.82	63.22	4.85	1355.39	536.27
4300.000	20.00	0.00	0.00	564.20	1092.00	567.11	0.69	567.23	152.75	5.96	403.46	87.50
4300.000	20.00	0.00	0.00	564.20	2030.00	568.31	0.00	568.47	114.24	4.27	664.37	169.93
4300.000	20.00	0.00	0.00	564.20	2569.00	569.05	0.00	569.21	89.68	4.13	841.03	271.28
4300.000	20.00	0.00	0.00	564.20	4264.00	570.76	0.00	570.94	62.00	4.82	1364.77	541.53
4301.000	1.00	0.00	0.00	558.60	1092.00	567.10	0.00	567.24	17.33	3.53	545.06	262.52
4301.000	1.00	0.00	0.00	558.60	2030.00	568.28	0.00	568.49	25.61	4.76	862.01	401.15
4301.000	1.00	0.00	0.00	558.60	2569.00	569.00	0.00	569.24	25.98	5.08	1034.85	504.01
4301.000	1.00	0.00	0.00	558.60	4264.00	570.69	0.00	570.98	29.29	6.04	1454.38	787.90

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SECD	XLCH	ELTRD	ELLC	ELMIN	G	CWSEL	CRKWS	EG	TOKAS	VCH	AREA	JOIR
4380.000	79.00	0.00	0.00	559.00	1092.00	567.23	0.00	567.40	21.65	3.85	534.32	234.71
4380.000	79.00	0.00	0.00	559.00	2030.00	568.47	0.00	568.72	29.56	5.02	813.01	373.73
4380.000	79.00	0.00	0.00	559.00	2569.00	569.20	0.00	569.46	29.36	5.31	986.18	474.13
4380.000	79.00	0.00	0.00	559.00	4264.00	570.91	0.00	571.23	31.85	6.23	1409.64	755.57
4830.000	450.00	0.00	0.00	560.80	1092.00	568.40	0.00	568.67	36.28	4.67	403.52	181.28
4830.000	450.00	0.00	0.00	560.80	2030.00	569.92	0.00	570.23	37.55	5.50	734.05	331.29
4830.000	450.00	0.00	0.00	560.80	2569.00	570.64	0.00	570.95	36.88	5.79	900.13	423.04
4830.000	450.00	0.00	0.00	560.80	4264.00	572.42	0.00	572.78	36.79	6.57	1335.50	703.01
7680.000	2850.00	0.00	0.00	574.80	983.00	581.48	579.34	581.95	63.40	5.94	237.30	123.46
7680.000	2850.00	0.00	0.00	574.80	1833.00	583.39	0.00	584.01	65.69	7.25	402.28	226.15
7680.000	2850.00	0.00	0.00	574.80	2323.00	584.19	0.00	584.89	65.11	7.92	480.25	279.43
7680.000	2850.00	0.00	0.00	574.80	3863.00	586.25	0.00	587.17	74.55	9.46	707.73	447.40
8700.000	1020.00	0.00	0.00	577.20	983.00	585.57	0.00	585.80	24.83	4.56	276.47	197.28
8700.000	1020.00	0.00	0.00	577.20	1833.00	587.76	0.00	588.06	26.19	5.55	638.98	358.15
8700.000	1020.00	0.00	0.00	577.20	2323.00	588.74	0.00	589.07	26.61	5.97	779.35	450.32
8700.000	1020.00	0.00	0.00	577.20	3863.00	591.15	0.00	591.54	27.22	6.91	1183.88	740.41
8805.000	105.00	0.00	0.00	577.50	983.00	585.74	0.00	586.42	64.18	6.64	448.12	122.70
8805.000	105.00	0.00	0.00	577.50	1833.00	588.03	0.00	588.33	26.49	5.58	635.88	356.16
8805.000	105.00	0.00	0.00	577.50	2323.00	589.02	0.00	589.35	26.81	5.99	776.83	448.63
8805.000	105.00	0.00	0.00	577.50	3863.00	591.43	0.00	591.82	27.31	6.92	1162.27	739.20
8835.000	30.00	588.20	586.50	577.60	983.00	585.74	0.00	586.44	66.87	6.73	146.11	120.21
8835.000	30.00	588.20	586.50	577.60	1833.00	589.39	0.00	589.57	14.80	4.52	818.20	476.47
8835.000	30.00	588.20	586.50	577.60	2323.00	590.25	0.00	590.47	16.49	5.02	955.71	572.11
8835.000	30.00	588.20	586.50	577.60	3863.00	592.07	0.00	592.35	22.41	6.44	1283.66	818.07
8900.000	65.00	0.00	0.00	577.90	983.00	586.62	0.00	586.81	26.11	4.23	413.98	219.21
8900.000	65.00	0.00	0.00	577.90	1833.00	589.48	0.00	589.68	16.21	4.67	706.66	455.21
8900.000	65.00	0.00	0.00	577.90	2323.00	590.35	0.00	590.54	17.42	5.18	823.23	548.71
8900.000	65.00	0.00	0.00	577.90	3863.00	592.21	0.00	592.55	23.76	6.58	1252.85	792.57
9170.000	270.00	0.00	0.00	579.10	983.00	587.21	0.00	587.48	24.08	4.83	350.41	182.29
9170.000	270.00	0.00	0.00	579.10	1833.00	589.95	0.00	590.22	22.89	5.28	630.13	384.78
9170.000	270.00	0.00	0.00	579.10	2323.00	590.86	0.00	591.16	24.05	5.76	814.12	473.71
9170.000	270.00	0.00	0.00	579.10	3863.00	592.87	0.00	593.28	25.08	7.06	1131.86	716.35
9570.000	400.00	0.00	0.00	581.00	983.00	588.54	0.00	588.90	42.41	5.52	294.63	130.34
9570.000	400.00	0.00	0.00	581.00	1833.00	590.48	0.00	591.36	34.87	6.16	663.75	310.46
9570.000	400.00	0.00	0.00	581.00	2323.00	591.43	0.00	592.35	35.62	6.59	892.03	592.34
9570.000	400.00	0.00	0.00	581.00	3863.00	594.11	0.00	594.63	37.61	7.78	1035.13	629.96
11300.000	1730.00	0.00	0.00	588.80	870.00	595.43	0.00	595.66	35.63	4.32	346.95	145.65
11300.000	1730.00	0.00	0.00	588.80	1627.00	597.63	0.00	597.79	33.40	5.04	632.17	281.31
11300.000	1730.00	0.00	0.00	588.80	2064.00	597.83	0.00	598.09	31.07	5.23	793.91	370.66
11300.000	1730.00	0.00	0.00	588.80	3441.00	599.90	0.00	601.17	28.88	5.70	1269.01	663.65
11450.000	150.00	0.00	0.00	589.40	870.00	595.99	0.00	596.48	61.40	5.63	154.59	111.93
11450.000	150.00	0.00	0.00	589.40	1627.00	597.43	0.00	598.58	99.89	8.29	196.37	162.79
11450.000	150.00	0.00	0.00	589.40	2064.00	598.66	0.00	599.90	121.26	9.61	214.69	187.93
11450.000	150.00	0.00	0.00	589.40	3441.00	599.49	0.00	602.29	194.09	13.43	256.14	246.99

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SECNO	XLCH	ELTRD	ELLC	ELMIN	U	CWSEL	CRINS	EG	TKAS	VCH	AREA	.01R
11510.000	60.00	606.80	600.60	589.60	870.00	596.11	0.00	596.62	64.51	5.71	152.24	108.52
11510.000	60.00	606.80	600.60	589.60	1627.00	597.80	0.00	598.81	92.55	8.09	201.16	169.12
11510.000	60.00	606.80	600.60	589.60	2064.00	598.63	0.00	599.94	103.91	9.15	225.44	202.48
11510.000	60.00	606.80	600.60	589.60	3441.00	601.15	0.00	603.22	121.13	11.52	298.58	312.65
11600.000	90.00	0.00	0.00	590.70	870.00	596.85	0.00	597.21	57.03	5.20	273.04	115.21
11600.000	90.00	0.00	0.00	590.70	1627.00	599.25	0.00	599.46	26.44	4.62	697.27	316.41
11600.000	90.00	0.00	0.00	590.70	2064.00	600.44	0.00	600.62	20.62	4.45	949.08	461.27
11600.000	90.00	0.00	0.00	590.70	3441.00	603.90	0.00	604.02	10.34	4.02	1819.71	1070.05
12280.000	680.00	0.00	0.00	593.00	870.00	599.76	0.00	600.03	31.44	4.37	264.78	155.17
12280.000	680.00	0.00	0.00	593.00	1627.00	601.32	0.00	601.78	42.58	5.94	399.90	249.53
12280.000	680.00	0.00	0.00	593.00	2064.00	602.15	0.00	602.68	44.44	6.51	481.58	309.62
12280.000	680.00	0.00	0.00	593.00	3441.00	604.74	0.00	605.37	37.64	7.21	796.73	560.90
12350.000	70.00	0.00	0.00	593.60	870.00	599.99	0.00	600.31	40.61	4.75	236.46	136.52
12350.000	70.00	0.00	0.00	593.60	1627.00	601.62	0.00	602.14	50.44	6.29	371.75	229.08
12350.000	70.00	0.00	0.00	593.60	2064.00	602.46	0.00	603.05	51.55	6.89	451.92	287.48
12350.000	70.00	0.00	0.00	593.60	3441.00	605.05	0.00	605.70	43.37	7.57	749.95	522.52
* 12370.000	20.00	609.00	608.90	593.90	870.00	611.10	0.00	611.11	0.39	0.96	1767.95	1396.53
* 12370.000	20.00	609.00	608.90	593.90	1627.00	611.83	0.00	611.86	1.11	1.67	1933.00	1544.43
* 12370.000	20.00	609.00	608.90	593.90	2064.00	612.17	0.00	612.20	1.63	2.05	2004.25	1616.27
* 12370.000	20.00	609.00	608.90	593.90	3441.00	612.94	0.00	613.03	3.69	3.17	2198.02	1791.55
12450.000	80.00	0.00	0.00	594.30	870.00	611.11	0.00	611.11	0.44	1.00	1679.77	1317.19
12450.000	80.00	0.00	0.00	594.30	1627.00	611.84	0.00	611.87	3.24	1.73	1841.49	1462.88
12450.000	80.00	0.00	0.00	594.30	2064.00	612.18	0.00	612.22	1.81	2.12	1518.66	1533.15
12450.000	80.00	0.00	0.00	594.30	3441.00	612.97	0.00	613.07	4.07	3.28	2106.63	1706.54
12500.000	50.00	0.00	0.00	594.70	870.00	611.11	0.00	611.12	0.49	1.04	1595.67	1242.50
12500.000	50.00	0.00	0.00	594.70	1627.00	611.85	0.00	611.87	1.38	1.80	1753.76	1383.58
12500.000	50.00	0.00	0.00	594.70	2064.00	612.19	0.00	612.23	2.02	2.21	1829.51	1452.01
12500.000	50.00	0.00	0.00	594.70	3441.00	612.99	0.00	613.09	4.50	3.40	2015.30	1621.64
12600.000	100.00	0.00	0.00	595.50	870.00	611.11	0.00	611.12	0.62	1.13	1434.74	1100.66
12600.000	100.00	0.00	0.00	595.50	1627.00	611.86	0.00	611.89	1.74	1.96	1585.46	1233.24
12600.000	100.00	0.00	0.00	595.50	2064.00	612.20	0.00	612.26	2.53	2.39	1658.28	1297.99
12600.000	100.00	0.00	0.00	595.50	3441.00	613.02	0.00	613.13	5.55	3.67	1839.32	1460.96
12700.000	100.00	0.00	0.00	596.30	870.00	611.12	0.00	611.13	0.80	1.24	1283.58	969.62
12700.000	100.00	0.00	0.00	596.30	1627.00	611.87	0.00	611.91	2.21	2.13	1426.95	1093.87
12700.000	100.00	0.00	0.00	596.30	2064.00	612.22	0.00	612.29	3.19	2.60	1496.86	1155.07
12700.000	100.00	0.00	0.00	596.30	3441.00	613.07	0.00	613.21	6.89	3.96	1673.16	1311.28
13940.000	1240.00	0.00	0.00	606.80	870.00	611.55	0.00	611.46	35.66	3.31	437.63	145.09
13940.000	1240.00	0.00	0.00	606.80	1627.00	612.50	0.00	612.67	39.71	4.24	655.84	250.19
13940.000	1240.00	0.00	0.00	606.80	2064.00	613.09	0.00	613.25	39.59	4.59	778.58	328.03
13940.000	1240.00	0.00	0.00	606.80	3441.00	614.68	0.00	614.93	58.37	5.40	1141.75	555.50
14000.000	60.00	0.00	0.00	606.90	870.00	611.56	0.00	611.66	31.44	3.17	457.59	155.16
14000.000	60.00	0.00	0.00	606.90	1627.00	612.74	0.00	612.90	35.37	4.08	683.49	213.55
14000.000	60.00	0.00	0.00	606.90	2064.00	613.34	0.00	613.51	39.73	4.44	807.86	343.28
14000.000	60.00	0.00	0.00	606.90	3441.00	614.92	0.00	615.15	35.53	5.27	1174.42	577.65

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CRSEL	CRKWS	EG	10K*8	VCR	AREA	.01K
14100.000	100.00	0.00	0.00	607.00	1870.00	611.86	0.00	611.95	25.37	2.95	493.23	172.72
14100.000	100.00	0.00	0.00	607.00	1627.00	613.08	0.00	613.22	29.06	3.82	733.32	301.80
14100.000	100.00	0.00	0.00	607.00	2064.00	613.68	0.00	613.84	29.24	4.18	862.23	377.66
14100.000	100.00	0.00	0.00	607.00	3441.00	615.27	0.00	615.49	30.65	5.02	1240.07	621.53
14200.000	100.00	0.00	0.00	607.10	1870.00	612.11	0.00	612.18	21.84	2.81	520.02	186.17
14200.000	100.00	0.00	0.00	607.10	1627.00	613.37	0.00	613.49	25.18	3.65	772.12	324.25
14200.000	100.00	0.00	0.00	607.10	2064.00	613.98	0.00	614.12	26.07	4.00	905.40	404.27
14200.000	100.00	0.00	0.00	607.10	3441.00	615.58	0.00	615.78	27.47	4.84	1291.22	656.32
16380.000	2180.00	0.00	0.00	610.10	692.00	616.62	0.00	616.71	19.53	3.11	478.38	156.58
16380.000	2180.00	0.00	0.00	610.10	1302.00	618.10	0.00	618.19	18.00	3.50	828.48	306.52
16380.000	2180.00	0.00	0.00	610.10	1655.00	618.76	0.00	618.86	17.64	3.67	1000.21	394.07
16380.000	2180.00	0.00	0.00	610.10	2774.00	620.46	0.00	620.56	17.09	4.13	1476.70	671.07
16600.000	220.00	0.00	0.00	611.10	692.00	617.14	0.00	617.28	33.16	3.81	378.71	120.18
16600.000	220.00	0.00	0.00	611.10	1302.00	618.56	0.00	618.70	28.54	4.17	694.44	243.72
16600.000	220.00	0.00	0.00	611.10	1655.00	619.21	0.00	619.34	26.87	4.31	854.47	319.28
16600.000	220.00	0.00	0.00	611.10	2774.00	620.88	0.00	621.02	23.50	4.68	1307.25	567.45
16800.000	200.00	0.00	0.00	612.00	692.00	617.85	0.00	618.03	41.13	4.13	343.26	107.91
16800.000	200.00	0.00	0.00	612.00	1302.00	619.16	0.00	619.36	36.84	4.60	625.24	214.50
16800.000	200.00	0.00	0.00	612.00	1655.00	619.79	0.00	619.96	34.21	4.76	774.26	280.45
16800.000	200.00	0.00	0.00	612.00	2774.00	621.39	0.00	621.56	30.33	5.11	1192.39	503.73
18500.000	1700.00	0.00	0.00	620.00	568.00	625.02	0.00	625.15	42.89	3.88	301.76	86.73
18500.000	1700.00	0.00	0.00	620.00	1075.00	626.10	0.00	626.27	46.14	4.69	490.74	158.28
18500.000	1700.00	0.00	0.00	620.00	1369.00	626.57	0.00	626.79	47.80	5.06	583.39	198.01
18500.000	1700.00	0.00	0.00	620.00	2303.00	627.76	0.00	627.99	50.83	5.92	847.19	323.02
18615.000	115.00	0.00	0.00	620.50	568.00	625.52	0.00	625.65	43.53	3.40	295.75	86.09
18615.000	115.00	0.00	0.00	620.50	1075.00	626.63	0.00	626.79	44.97	4.65	495.63	160.50
18615.000	115.00	0.00	0.00	620.50	1369.00	627.12	0.00	627.30	45.94	4.99	592.38	201.98
18615.000	115.00	0.00	0.00	620.50	2303.00	628.34	0.00	628.56	47.94	5.79	866.00	332.61
18645.000	30.00	623.20	623.90	620.70	568.00	625.56	0.00	625.71	52.50	4.17	276.34	78.59
18645.000	30.00	623.20	623.90	620.70	1075.00	626.64	0.00	626.83	54.68	5.00	455.52	145.56
18645.000	30.00	623.20	623.90	620.70	1369.00	627.13	0.00	627.33	54.72	5.32	553.80	185.07
18645.000	30.00	623.20	623.90	620.70	2303.00	628.37	0.00	628.61	54.47	6.00	825.45	312.06
18730.000	85.00	0.00	0.00	621.20	568.00	626.01	0.00	626.18	53.26	4.20	264.60	76.19
18730.000	85.00	0.00	0.00	621.20	1075.00	627.11	0.00	627.31	56.55	5.07	453.54	142.95
18730.000	85.00	0.00	0.00	621.20	1369.00	627.59	0.00	627.80	56.41	5.38	547.34	182.22
18730.000	85.00	0.00	0.00	621.20	2303.00	628.84	0.00	629.08	55.96	6.14	817.12	307.67

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FLOOD DEC 1977 CWF

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFNSP	DIFWSX	DIFKWS	TOPWID	XLCH
181000.000	3035.00	544.16	0.00	0.00	1.16	369.13	0.00
181000.000	4063.00	546.09	1.93	0.00	1.49	392.26	0.00
181000.000	4654.00	547.09	1.00	0.00	1.69	404.25	0.00
181000.000	6504.00	548.09	1.00	0.00	1.09	416.30	0.00
520.000	1202.00	544.31	0.00	0.15	0.00	452.68	840.00
520.000	2230.00	546.25	1.94	0.16	0.00	494.44	840.00
520.000	2821.00	547.25	1.00	0.17	0.00	516.01	840.00
520.000	4671.00	548.36	1.10	0.26	0.00	557.23	840.00
1100.000	1202.00	544.38	0.00	0.07	0.00	297.81	580.00
1100.000	2230.00	546.35	1.97	0.10	0.00	333.23	580.00
1100.000	2821.00	547.36	1.01	0.11	0.00	348.70	580.00
1100.000	4671.00	548.56	1.19	0.20	0.00	361.49	580.00
1600.000	1202.00	545.19	0.00	0.80	0.00	270.60	500.00
1600.000	2230.00	547.01	1.82	0.66	0.00	303.62	500.00
1600.000	2821.00	547.95	0.94	0.58	0.00	320.56	500.00
1600.000	4671.00	549.39	1.44	0.83	0.00	345.91	500.00
1830.000	1202.00	546.43	0.00	1.25	0.00	250.56	230.00
1830.000	2230.00	547.79	1.36	0.78	0.00	276.58	230.00
1830.000	2821.00	548.59	0.80	0.64	0.00	303.68	230.00
1830.000	4671.00	550.12	1.53	0.74	0.00	329.65	230.00
2000.000	1202.00	548.10	0.00	1.66	0.00	249.64	170.00
2000.000	2230.00	549.23	1.13	1.43	0.00	287.62	170.00
2000.000	2821.00	549.76	0.54	1.17	0.00	305.76	170.00
2000.000	4671.00	551.17	1.41	1.65	0.00	328.99	170.00
4200.000	1092.00	564.62	0.00	16.52	0.00	65.99	2200.00
4200.000	2030.00	566.47	1.85	17.24	0.00	146.52	2200.00
4200.000	2569.00	567.18	0.70	17.41	0.00	176.97	2200.00
4200.000	4264.00	568.69	1.51	17.51	0.00	243.12	2200.00
4279.000	1092.00	565.50	0.00	0.88	0.00	66.94	79.00
4279.000	2030.00	567.43	1.93	0.96	0.00	171.26	79.00
4279.000	2569.00	568.20	0.76	1.02	0.00	204.58	79.00
4279.000	4264.00	569.86	1.69	1.19	0.00	277.39	79.00
4280.000	1092.00	565.94	0.00	0.44	0.00	180.64	1.00
4280.000	2030.00	568.04	2.10	0.61	0.00	226.42	1.00
4280.000	2569.00	568.86	0.81	0.66	0.00	245.65	1.00
4280.000	4264.00	570.63	1.77	0.75	0.00	344.95	1.00
4300.000	1092.00	567.11	0.00	1.17	0.00	204.01	20.00
4300.000	2030.00	568.31	1.21	0.27	0.00	230.21	20.00
4300.000	2569.00	569.05	0.74	0.20	0.00	248.11	20.00
4300.000	4264.00	570.76	1.70	0.13	0.00	345.41	20.00
4301.000	1092.00	567.10	0.00	-0.01	0.00	221.62	1.00
4301.000	2030.00	568.28	1.17	-0.04	0.00	233.60	1.00
4301.000	2569.00	569.00	0.73	-0.05	0.00	241.03	1.00
4301.000	4264.00	570.69	1.68	-0.07	0.00	258.19	1.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
4380.000	1092.00	567.23	0.00	0.13	0.00	218.81	79.00
4380.000	2030.00	568.47	1.24	0.20	0.00	231.44	79.00
4380.000	2569.00	569.20	0.73	0.20	0.00	238.96	79.00
4380.000	4264.00	570.91	1.71	0.23	0.00	256.41	79.00
4830.000	1092.00	568.40	0.00	1.17	0.00	192.81	450.00
4830.000	2030.00	569.92	1.52	1.45	0.00	227.93	450.00
4830.000	2569.00	570.64	0.72	1.44	0.00	235.26	450.00
4830.000	4264.00	572.42	1.76	1.51	0.00	251.45	450.00
7680.000	983.00	581.48	0.00	13.07	0.00	177.88	2850.00
7680.000	1833.00	583.39	1.92	13.47	0.00	194.82	2850.00
7680.000	2323.00	584.19	0.80	13.55	0.00	191.30	2850.00
7680.000	3863.00	586.25	2.06	13.83	0.00	119.12	2850.00
8700.000	983.00	585.57	0.00	4.89	0.00	104.49	1020.00
8700.000	1833.00	587.76	2.19	4.36	0.00	135.98	1020.00
8700.000	2323.00	588.74	0.98	4.55	0.00	150.13	1020.00
8700.000	3863.00	591.15	2.41	4.90	0.00	186.27	1020.00
8805.000	983.00	585.74	0.00	0.17	0.00	20.00	105.00
8805.000	1833.00	588.03	2.29	0.28	0.00	135.65	105.00
8805.000	2323.00	589.02	0.99	0.26	0.00	149.89	105.00
8805.000	3863.00	591.43	2.42	0.29	0.00	186.13	105.00
8835.000	983.00	585.74	0.00	0.00	0.00	20.00	30.00
8835.000	1833.00	584.39	3.65	1.36	0.00	153.82	30.00
8835.000	2323.00	590.25	0.86	1.25	0.00	166.44	30.00
8835.000	3863.00	592.07	1.82	0.63	0.00	194.30	30.00
8900.000	983.00	586.62	0.00	0.88	0.00	109.55	65.00
8900.000	1833.00	585.48	2.87	0.09	0.00	150.83	65.00
8900.000	2323.00	590.33	0.87	0.10	0.00	163.42	65.00
8900.000	3863.00	592.21	1.86	0.14	0.00	191.86	65.00
9170.000	983.00	587.21	0.00	0.60	0.00	100.83	270.00
9170.000	1833.00	585.95	2.74	0.47	0.00	140.26	270.00
9170.000	2323.00	590.88	0.91	0.51	0.00	153.44	270.00
9170.000	3863.00	592.87	2.01	0.66	0.00	182.61	270.00
9570.000	983.00	588.52	0.00	1.32	0.00	92.91	400.00
9570.000	1833.00	590.96	2.44	1.03	0.00	127.75	400.00
9570.000	2323.00	591.93	0.95	1.07	0.00	141.56	400.00
9570.000	3863.00	594.11	2.18	1.25	0.00	173.60	400.00
11300.000	870.00	595.43	0.00	6.89	0.00	162.86	1730.00
11300.000	1627.00	597.63	1.60	6.05	0.00	192.64	1730.00
11300.000	2064.00	597.83	0.80	5.89	0.00	208.33	1730.00
11300.000	3441.00	599.40	2.07	5.79	0.00	237.63	1730.00
11450.000	870.00	595.99	0.00	0.56	0.00	29.00	150.00
11450.000	1627.00	597.43	1.44	0.40	0.00	29.00	150.00
11450.000	2064.00	598.06	0.63	0.23	0.00	29.00	150.00
11450.000	3441.00	599.49	1.43	-0.41	0.00	29.00	150.00

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SECNO	D	CHSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
11510.000	870.00	596.11	0.00	0.12	0.00	29.00	60.00
11510.000	1627.00	597.80	1.69	0.37	0.00	29.00	60.00
11510.000	2064.00	598.63	0.84	0.57	0.00	29.00	60.00
11510.000	3441.00	601.15	2.52	1.66	0.00	29.00	60.00
11600.000	870.00	596.85	0.00	0.74	0.00	153.76	90.00
11600.000	1627.00	599.25	2.40	1.45	0.00	199.34	90.00
11600.000	2064.00	600.44	1.20	1.81	0.00	222.01	90.00
11600.000	3441.00	603.90	3.46	2.75	0.00	275.04	90.00
12280.000	870.00	599.76	0.00	2.92	0.00	78.12	680.00
12280.000	1627.00	601.32	1.56	2.08	0.00	94.91	680.00
12280.000	2064.00	602.15	0.82	1.70	0.00	103.54	680.00
12280.000	3441.00	604.79	2.64	0.89	0.00	137.90	680.00
12350.000	870.00	599.99	0.00	0.23	0.00	73.71	70.00
12350.000	1627.00	601.62	1.63	0.30	0.00	91.75	70.00
12350.000	2064.00	602.46	0.83	0.31	0.00	100.49	70.00
12350.000	3441.00	605.05	2.59	0.25	0.00	132.63	70.00
* 12370.000	870.00	611.10	0.00	11.11	0.00	220.56	20.00
* 12370.000	1627.00	611.83	0.73	10.21	0.00	231.56	20.00
* 12370.000	2064.00	612.17	0.33	9.71	0.00	236.66	20.00
* 12370.000	3441.00	612.94	0.78	7.90	0.00	248.55	20.00
12450.000	870.00	611.11	0.00	0.00	0.00	221.58	80.00
12450.000	1627.00	611.84	0.74	0.01	0.00	225.59	80.00
12450.000	2064.00	612.18	0.34	0.01	0.00	230.75	80.00
12450.000	3441.00	612.97	0.79	0.03	0.00	242.86	80.00
12500.000	870.00	611.11	0.00	0.00	0.00	208.31	50.00
12500.000	1627.00	611.85	0.74	0.00	0.00	219.50	50.00
12500.000	2064.00	612.19	0.34	0.01	0.00	224.78	50.00
12500.000	3441.00	612.99	0.80	0.02	0.00	237.05	50.00
12600.000	870.00	611.11	0.00	0.00	0.00	196.17	100.00
12600.000	1627.00	611.86	0.75	0.01	0.00	207.56	100.00
12600.000	2064.00	612.20	0.35	0.02	0.00	212.84	100.00
12600.000	3441.00	613.02	0.82	0.04	0.00	225.44	100.00
12700.000	870.00	611.12	0.00	0.01	0.00	184.03	100.00
12700.000	1627.00	611.87	0.75	0.01	0.00	195.56	100.00
12700.000	2064.00	612.22	0.35	0.02	0.00	200.54	100.00
12700.000	3441.00	613.07	0.85	0.04	0.00	212.91	100.00
13940.000	870.00	611.35	0.00	0.24	0.00	177.97	1240.00
13940.000	1627.00	612.50	1.15	0.63	0.00	201.04	1240.00
13940.000	2064.00	613.09	0.59	0.87	0.00	212.95	1240.00
13940.000	3441.00	614.68	1.59	1.61	0.00	244.81	1240.00
14000.000	870.00	611.56	0.00	0.21	0.00	180.14	60.00
14000.000	1627.00	612.74	1.18	0.24	0.00	203.79	60.00
14000.000	2064.00	613.34	0.59	0.24	0.00	215.69	60.00
14000.000	3441.00	614.92	1.58	0.24	0.00	247.47	60.00

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SECNO	Q	WSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
14100.000	870.00	611.86	0.00	0.30	0.00	184.09	100.00
14100.000	1627.00	613.08	1.22	0.34	0.00	208.60	100.00
14100.000	2064.00	613.68	0.60	0.35	0.00	220.70	100.00
14100.000	3441.00	615.27	1.59	0.36	0.00	252.74	100.00
14200.000	870.00	612.11	0.00	0.24	0.00	186.59	100.00
14200.000	1627.00	613.37	1.26	0.28	0.00	212.34	100.00
14200.000	2064.00	613.98	0.61	0.29	0.00	224.60	100.00
14200.000	3441.00	615.58	1.60	0.31	0.00	256.77	100.00
16380.000	692.00	616.62	0.00	4.52	0.00	212.07	2180.00
16380.000	1302.00	618.10	1.48	4.73	0.00	254.86	2180.00
16380.000	1655.00	618.76	0.66	4.78	0.00	266.34	2180.00
16380.000	2774.00	620.46	1.70	4.88	0.00	295.87	2180.00
16600.000	692.00	617.14	0.00	0.51	0.00	193.94	220.00
16600.000	1302.00	618.56	1.43	0.46	0.00	245.52	220.00
16600.000	1655.00	619.21	0.64	0.44	0.00	256.63	220.00
16600.000	2774.00	620.80	1.67	0.42	0.00	285.72	220.00
16800.000	692.00	617.65	0.00	0.71	0.00	187.07	200.00
16800.000	1302.00	619.16	1.33	0.62	0.00	236.27	200.00
16800.000	1655.00	619.79	0.61	0.58	0.00	251.12	200.00
16800.000	2774.00	621.39	1.60	0.51	0.00	279.00	200.00
18500.000	568.00	625.02	0.00	7.17	0.00	154.89	1700.00
18500.000	1075.00	626.10	1.08	6.92	0.00	191.48	1700.00
18500.000	1369.00	626.57	0.47	6.78	0.00	204.74	1700.00
18500.000	2303.00	627.70	1.19	6.37	0.00	238.63	1700.00
18615.000	568.00	625.52	0.00	0.50	0.00	154.33	115.00
18615.000	1075.00	626.63	1.11	0.53	0.00	192.21	115.00
18615.000	1369.00	627.12	0.49	0.55	0.00	205.98	115.00
18615.000	2303.00	628.34	1.23	0.50	0.00	240.04	115.00
18645.000	568.00	625.50	0.00	0.64	0.00	147.44	30.00
18645.000	1075.00	626.64	1.06	0.61	0.00	185.81	30.00
18645.000	1369.00	627.13	0.49	0.61	0.00	206.60	30.00
18645.000	2303.00	628.37	1.26	0.63	0.00	236.61	30.00
18730.000	568.00	627.61	0.00	0.46	0.00	165.40	85.00
18730.000	1075.00	627.11	1.10	0.47	0.00	165.90	85.00
18730.000	1369.00	627.59	0.49	0.47	0.00	199.66	85.00
18730.000	2303.00	628.84	1.24	0.47	0.00	234.95	85.00

SUMMARY OF ERRORS

CAUTION	SECNO= 4280.000	PROFILE= 1	CRITICAL DEPTH ASSURED
CAUTION	SECNO= 4280.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 4280.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 4280.000	PROFILE= 1	SLOPE TOO STEEP
CAUTION	SECNO=12370.000	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO=12370.000	PROFILE= 2	HYDRAULIC JUMP D.S.
CAUTION	SECNO=12370.000	PROFILE= 3	HYDRAULIC JUMP D.S.
CAUTION	SECNO=12370.000	PROFILE= 4	HYDRAULIC JUMP D.S.

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McGOWAN CR

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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C  
 T1 ORANGE COUNTY FIA STUDY  
 T2 MC GOWAN CREEK  
 T3 100-YR NATURAL PROFILE MAR 1978 CWF

J1	ICHECK	INQ	NINV	IDIR	STRI	METRIC	HVINS	U	WSEL	FG
		4.	0.	0.	0.000000	0.00	0.0	0.	547.100	0.000
J2	NPROF	IPLT	PRFVS	XSECV	XSE/H	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	58.000	1.000	3.000	41.000	42.000	5.000	43.000	0.000	38.000	1.000
	53.000	21.000	22.000	54.000	4.000	0.000	200.000	0.000	0.000	0.000
NC	0.120	0.120	0.050	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	5035.000	4063.000	4654.000	6504.000	4654.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000

END RIVER VALLEY SECTION

X1	181000.000	13.000	1150.000	1100.000	0.000	0.000	0.000	0.000	-1.600	0.000
GR	560.000	620.000	550.000	890.000	540.000	960.000	538.000	1000.000	536.000	1050.000
GR	530.000	1060.000	530.000	1090.000	536.000	1100.000	536.000	1150.000	538.000	1210.000
GR	540.000	1260.000	550.000	1310.000	560.000	1380.000	0.000	0.000	0.000	0.000
QT	5.000	1202.000	2230.000	2821.000	4671.000	2821.000	0.000	0.000	0.000	0.000

OMG-1 VALLEY

X1	520.000	18.000	1053.000	1113.000	840.000	840.000	840.000	0.000	0.000	0.000
GR	557.900	726.000	547.800	828.000	540.800	928.000	537.800	1000.000	536.400	1028.000
GR	535.700	1053.000	535.100	1063.000	535.200	1073.000	536.000	1093.000	536.400	1113.000
GR	536.200	1123.000	536.500	1133.000	537.100	1183.000	536.800	1193.000	537.500	1203.000
GR	538.000	1228.000	544.000	1328.000	557.700	1428.000	0.000	0.000	0.000	0.000
X1	1100.000	9.000	1050.000	1090.000	560.000	580.000	580.000	0.000	0.000	0.000
GR	565.000	875.000	542.500	975.000	540.000	1050.000	537.700	1055.000	537.700	1085.000
GR	541.500	1090.000	541.500	1225.000	547.000	1300.000	560.000	1380.000	0.000	0.000
X1	1600.000	0.000	0.000	0.000	500.000	500.000	500.000	0.000	2.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000

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OMG-2 VALLEY

X1	1830.000	14.000	1000.000	1033.000	230.000	230.000	230.000	0.000	0.000	0.000
GR	566.700	874.000	546.000	952.000	545.000	974.000	544.300	1000.000	541.000	1005.000
GR	541.600	1015.000	541.500	1025.000	541.400	1029.000	545.900	1033.000	545.700	1074.000
GR	546.200	1174.000	548.900	1255.000	551.000	1274.000	566.500	1374.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	11.400	0.000	0.000	0.000	0.000

X1	2000.000	0.000	0.000	0.000	170.000	170.000	170.000	0.000	1.100	0.000
QT	5.000	1092.000	2030.000	2569.000	4264.000	2569.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	1.400	0.000	0.000	0.000	0.000

X1	4200.000	11.000	1000.000	1030.000	2200.000	2200.000	2200.000	0.000	0.000	0.000
GR	590.000	780.000	580.000	1160.000	570.000	930.000	562.700	1000.000	558.600	1004.000
GR	558.100	1011.000	558.600	1021.000	564.100	1030.000	570.000	1230.000	580.000	1360.000
GR	590.000	1470.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	3.400	0.000	0.000	0.000	0.000

X1	4279.000	0.000	0.000	0.000	79.000	79.000	79.000	0.000	0.400	0.000
ET	0.000	0.000	0.000	0.000	0.000	11.400	0.000	0.000	0.000	0.000

OMG-3 SR 1327

X1	4280.000	9.000	1000.000	1050.000	1.000	1.000	1.000	0.000	0.000	0.000
GR	587.400	808.000	575.200	908.000	570.000	930.000	569.200	1000.000	568.400	1010.000
GR	564.100	1050.000	565.500	1208.000	573.500	1308.000	584.800	1408.000	0.000	0.000

X1	4300.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	14.400	0.000	0.000	0.000	0.000

X1	4301.000	12.000	1000.000	1030.000	1.000	1.000	1.000	0.000	-2.200	0.000
GR	589.300	840.000	567.700	928.000	566.900	940.000	565.400	1000.000	561.300	1004.000
GR	560.800	1011.000	561.300	1021.000	566.800	1030.000	567.000	1040.000	568.800	1140.000
GR	585.100	1240.000	588.700	1263.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	4380.000	0.000	0.000	0.000	79.000	79.000	79.000	0.000	0.400	0.000
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OMG-4 U.S. VALLEY

X1	4830.000	0.000	0.000	0.000	450.000	450.000	450.000	0.000	1.800	0.000
QT	5.000	983.000	1833.000	2323.000	3863.000	2323.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	3.400	0.000	0.000	0.000	0.000

OMG-5 VALLEY

X1	7680.000	10.000	1000.000	1023.000	2850.000	2850.000	2850.000	0.000	0.000	0.000
GR	602.600	840.000	588.500	940.000	580.100	974.000	578.900	1000.000	574.900	1002.000
GR	574.800	1010.000	575.200	1020.000	578.500	1023.000	580.100	1040.000	599.500	1129.000
ET	0.000	0.000	0.000	0.000	0.000	18.400	0.000	0.000	0.000	0.000

X1	8700.000	11.000	1000.000	1020.000	1020.000	1020.000	1020.000	0.000	-1.900	0.000
GR	605.700	758.000	594.900	858.000	585.800	958.000	583.200	1000.000	579.700	1005.000
GR	579.100	1011.000	579.400	1016.000	580.000	1020.000	581.600	1024.000	591.500	1058.000
GR	599.800	1094.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NC 0.000 10.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

DMG-6 SR 1324

X1	8805.000	0.000	1000.000	1024.000	105.000	105.000	105.000	0.000	0.300	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	587.300	587.300	0.000
SB	0.000	1.600	2.800	0.000	17.000	0.100	183.000	0.380	577.600	577.500

X1	8835.000	0.000	0.000	0.000	30.000	30.000	30.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	586.500	588.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	588.200	588.200	0.000
BT	7.000	756.000	604.200	0.000	867.000	592.200	0.000	956.000	588.500	0.000
BT	1000.000	588.200	0.000	1024.000	588.200	0.000	1051.000	589.000	0.000	1092.000
BT	598.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8900.000	0.000	0.000	0.000	65.000	65.000	65.000	0.000	0.300	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	12.400	0.000	0.000	0.000	0.000

DMG-7 U.S. VALLEY

X1	9170.000	0.000	0.000	0.000	270.000	270.000	270.000	0.000	1.200	0.000
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X1	9570.000	0.000	0.000	0.000	400.000	400.000	400.000	0.000	1.900	0.000
OT	5.000	870.000	1627.000	2064.000	3441.000	2064.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	5.400	0.000	0.000	0.000	0.000

X1	11300.000	9.000	1000.000	1029.000	1730.000	1730.000	1730.000	0.000	-1.900	0.000
GR	614.700	700.000	602.300	800.000	596.000	900.000	595.600	1000.000	591.100	1011.000
GR	590.700	1018.000	591.100	1026.000	593.200	1029.000	612.600	1089.000	0.000	0.000
NC	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	13.400	0.000	0.000	0.000	0.000

DMG-8 SR 1004

X1	11450.000	0.000	0.000	0.000	150.000	150.000	150.000	0.000	0.600	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	603.000	603.000	0.000
SB	1.250	1.270	2.900	0.000	29.000	2.000	297.000	0.000	589.600	589.400

X1	11510.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	600.600	606.800	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	606.800	606.800	0.000
BT	9.000	626.000	619.700	0.000	726.000	614.500	0.000	826.000	610.100	0.000
BT	926.000	607.100	0.000	1000.000	606.800	0.000	1029.000	606.800	0.000	1126.000
BT	610.600	0.000	1226.000	616.300	0.000	1277.000	619.700	0.000	0.000	0.000

DMG-9 U.S. VALLEY

X1	11600.000	0.000	0.000	0.000	90.000	90.000	90.000	0.000	1.100	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	2.400	0.000	0.000	0.000	0.000

DMG-10 U.S. VALLEY

X1	12280.000	12.000	1000.000	1030.000	680.000	680.000	680.000	0.000	0.000	0.000
GR	619.900	868.000	600.100	968.000	597.600	984.000	596.700	1000.000	593.400	1007.000

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GR	593.000	1017.000	593.400	1026.000	598.400	1030.000	593.400	1026.000	593.400	1026.000
GR	616.800	1215.000	619.300	1255.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000

OMG-11 EFLAND MILLPOND DAM

X1	12350.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.600	0.000
SB	0.000	1.600	3.000	0.000	0.100	0.090	1.000	0.000	593.900	593.900
ET	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000

X1	12370.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.300	0.000
X2	0.000	0.000	1.000	608.900	609.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	609.000	609.000	0.000
BT	9.000	868.000	619.900	0.000	909.000	611.700	0.000	926.000	611.500	0.000
BT	950.000	610.900	0.000	975.000	610.100	0.000	1000.000	609.000	0.000	1050.000
BT	609.000	0.000	1150.000	612.200	0.000	1255.000	619.300	0.000	0.000	0.000

X1	12450.000	0.000	0.000	0.000	80.000	80.000	80.000	0.000	0.400	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000

X1	12500.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.400	0.000
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X1	12600.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.800	0.000
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X1	12700.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.800	0.000
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OMG-12 VALLEY

X1	13940.000	14.000	1000.000	1043.000	1240.000	1240.000	1240.000	0.000	0.000	0.000
GR	628.400	432.000	628.900	532.000	628.300	632.000	621.700	732.000	615.300	832.000
GR	610.400	890.000	608.000	932.000	609.300	1000.000	606.800	1005.000	607.700	1010.000
GR	607.700	1032.000	609.700	1043.000	620.500	1132.000	622.400	1155.000	0.000	0.000

X1	14000.000	0.000	0.000	0.000	60.000	60.000	60.000	0.000	0.100	0.000
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X1	14100.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000

X1	14200.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.100	0.000
QT	5.000	692.000	1302.000	1655.000	2774.000	1655.000	0.000	0.000	0.000	0.000

OMG-13 VALLEY

X1	16300.000	15.000	1000.000	1022.000	2180.000	2180.000	2180.000	0.000	0.000	0.000
GR	637.500	650.000	633.800	750.000	624.900	850.000	614.000	932.000	614.100	950.000
GR	614.200	1000.000	611.400	1004.000	610.100	1012.000	610.400	1020.000	614.400	1022.000
GR	614.100	1050.000	617.500	1150.000	627.600	1250.000	629.400	1350.000	631.700	1450.000

X1	16600.000	0.000	0.000	0.000	220.000	220.000	220.000	0.000	1.000	0.000
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X1	16800.000	0.000	0.000	0.000	200.000	200.000	200.000	0.000	0.900	0.000
QT	5.000	568.000	1075.000	1369.000	2303.000	1369.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	8.400	0.000	0.000	0.000	0.000

X1	18500.000	12.000	1000.000	1018.000	1700.000	1700.000	1700.000	0.000	-1.200	0.000
GR	642.200	749.000	635.000	849.000	628.500	949.000	625.100	1000.600	621.200	1006.000
GR	621.200	1009.000	621.200	1012.000	623.900	1018.000	623.200	1049.000	626.600	1149.000
GR	634.100	1249.000	636.100	1349.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000

OMG-14 SR 1312

X1	18615.000	0.000	0.000	0.000	115.000	115.000	115.000	0.000	0.500	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	624.500	623.200	0.000
SB	0.000	1.600	2.800	0.000	6.000	0.100	60.000	1.730	619.700	619.500

X1	18645.000	0.000	0.000	0.000	30.000	30.000	30.000	0.000	0.200	0.000
X2	0.000	0.000	1.000	623.900	623.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	625.200	623.200	0.000
BT	9.000	849.000	634.300	0.000	949.000	627.800	0.000	989.000	625.200	0.000
BT	1000.000	625.200	0.000	1018.000	625.200	0.000	1062.000	623.700	0.000	1090.000
BT	623.900	0.000	1149.000	625.900	0.000	1249.000	633.400	0.000	0.000	0.000

OMG-15 U.S. VALLEY

X1	18730.000	0.000	0.000	0.000	85.000	85.000	85.000	0.000	0.500	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PRINTED IN U.S.A.  
ED

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR = 01,02  
 MODIFICATION = 50,51,52,53  
 \*\*\*\*\*

T1 ORANGE COUNTY FIA STUDY  
 T2 MC GOWAN CREEK  
 T3 100-YR FLOODWAY PROFILE MAR 1978 CWF

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.000000	0.00	0.0	0.	548.100	0.000
J2	NPROF	IPLDT	PREVS	XSECV	XSECH	FN	ALLDC	IBH	CHNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*PROF 2

CCHV= 0.100 CERVE= 0.300  
 \*SECNO 181000.000

2800 NAT Q1= 3288.53 WSEL= 547.10 ENC Q1= 3288.53 WSEL= 548.10 RATIO= 0.0000  
 NAT Q1= 3740. RATIOS LOB,CH,ROB= 0.2142 0.4106 0.3752 WSEL= 548.10

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	JLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRUB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	IOPWID	ENDST

3470 ENCROACHMENT STATIONS= 972.4 1242.2 TYPE= 4 TARGET= 0.121

ENO RIVER VALLEY SECTION

181000.00	19.70	548.10	0.00	547.10	548.15	0.05	0.00	0.00	534.40
4654.	817.	2169.	1668.	939.	925.	1803.	0.	0.	534.40
0.00	0.87	2.34	0.93	0.120	0.060	0.120	0.000	528.40	972.37
0.000200	0.	0.	0.	0	0	0	0.00	269.82	1242.19

\*SECNO 520.000

2800 NAT Q1= 2548.88 WSEL= 547.27 ENC Q1= 2548.88 WSEL= 548.27 RATIO= 0.0000  
 NAT Q1= 3033. RATIOS LOB,CH,ROB= 0.2841 0.3330 0.3829 WSEL= 548.27

3470 ENCROACHMENT STATIONS= 951.4 1251.0 TYPE= 4 TARGET= 0.160

OMG-1 VALLEY

520.00	13.17	548.27	0.00	547.27	548.29	0.02	0.14	0.00	535.70
2821.	691.	1121.	1009.	1078.	755.	1520.	68.	5.	536.40
0.24	0.64	1.49	0.66	0.120	0.060	0.120	0.060	535.10	951.38
0.000123	840.	840.	840.	2	0	0	0.00	299.63	1251.00

\*SECNO 1100.000



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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

R NATURAL PROFILE MAR 1

SUMMARY PRINTOUT

SECNO	CWSEL	EG	ELLC	ELMIN	10K*S	Q
181000.000	547.10	547.14	0.00	528.40	2.00	4654.00
181000.000	548.10	548.15	0.00	528.40	2.00	4654.00
520.000	547.27	547.28	0.00	535.10	1.22	2821.00
520.000	548.27	548.29	0.00	535.10	1.23	2821.00
1100.000	547.38	547.45	0.00	537.70	8.33	2821.00
1100.000	548.37	548.46	0.00	537.70	8.35	2821.00
1600.000	547.96	548.11	0.00	540.00	22.24	2821.00
1600.000	548.92	549.15	0.00	540.00	22.72	2821.00
1830.000	548.60	549.03	0.00	541.00	69.17	2821.00
1830.000	549.49	550.11	0.00	541.00	69.92	2821.00
2000.000	549.76	550.16	0.00	542.10	65.94	2821.00
2000.000	550.76	551.36	0.00	542.10	79.43	2821.00
4200.000	567.17	568.25	0.00	558.10	105.04	2569.00
4200.000	567.85	568.74	0.00	558.10	77.59	2569.00
4279.000	568.19	568.95	0.00	558.50	70.71	2569.00
4279.000	568.48	569.33	0.00	558.50	71.55	2569.00
4280.000	568.86	569.02	0.00	564.10	97.99	2569.00
4280.000	568.94	569.39	0.00	564.10	222.01	2569.00
4300.000	569.05	569.21	0.00	564.20	89.75	2569.00
4300.000	569.41	569.77	0.00	564.20	160.28	2569.00
4301.000	569.00	569.23	0.00	558.60	25.99	2569.00
4301.000	569.33	569.81	0.00	558.60	40.64	2569.00
4380.000	569.20	569.46	0.00	559.00	29.37	2569.00
4380.000	569.63	570.16	0.00	559.00	44.21	2569.00
4830.000	570.64	570.95	0.00	560.80	36.08	2569.00
4830.000	571.61	572.17	0.00	560.80	44.57	2569.00

SECNO	CWSEL	EG	ELLC	ELMIN	10K*8	Q
7680.000	584.19	584.89	0.00	574.80	69.10	2323.00
7680.000	585.10	585.70	0.00	574.80	50.94	2323.00
8700.000	588.74	589.07	0.00	577.20	26.61	2323.00
8700.000	589.48	590.11	0.00	577.20	36.98	2323.00
8805.000	589.02	589.35	0.00	577.50	26.81	2323.00
8805.000	589.88	590.50	0.00	577.50	35.77	2323.00
8835.000	590.25	590.47	586.50	577.60	16.49	2323.00
8835.000	591.11	591.45	0.00	577.60	19.35	2323.00
8900.000	590.35	590.59	0.00	577.90	17.92	2323.00
8900.000	591.21	591.61	0.00	577.90	22.18	2323.00
9170.000	590.86	591.16	0.00	579.10	24.05	2323.00
9170.000	591.84	592.25	0.00	579.10	24.84	2323.00
9570.000	591.93	592.35	0.00	581.00	35.02	2323.00
9570.000	592.92	593.48	0.00	581.00	36.11	2323.00
11300.000	597.83	598.09	0.00	588.80	31.07	2064.00
11300.000	598.85	599.07	0.00	588.80	28.40	2064.00
11450.000	598.06	599.50	0.00	589.40	121.26	2064.00
11450.000	599.17	600.26	0.00	589.40	110.14	2064.00
11510.000	598.63	599.94	600.60	589.60	103.91	2064.00
11510.000	599.93	600.89	600.60	589.60	64.20	2064.00
11600.000	600.44	600.62	0.00	590.70	20.02	2064.00
11600.000	601.21	601.48	0.00	590.70	30.78	2064.00
12280.000	602.15	602.68	0.00	593.00	44.44	2064.00
12280.000	603.20	603.65	0.00	593.00	31.39	2064.00
12350.000	602.40	603.05	0.00	593.60	51.55	2064.00
12350.000	603.41	603.93	0.00	593.60	37.53	2064.00
* 12370.000	612.17	612.20	608.90	593.90	1.63	2064.00
* 12370.000	613.12	613.17	0.00	593.90	1.69	2064.00
12450.000	612.18	612.22	0.00	594.30	1.81	2064.00
12450.000	613.13	613.18	0.00	594.30	1.87	2064.00
12500.000	612.19	612.23	0.00	594.70	2.02	2064.00
12500.000	613.14	613.19	0.00	594.70	2.03	2064.00
12600.000	612.20	612.26	0.00	595.50	2.53	2064.00
12600.000	613.16	613.22	0.00	595.50	2.49	2064.00
12700.000	612.22	612.29	0.00	596.30	3.19	2064.00
12700.000	613.17	613.25	0.00	596.30	3.14	2064.00
13940.000	613.09	613.29	0.00	606.80	39.59	2064.00
13940.000	614.00	614.29	0.00	606.80	45.35	2064.00

SECNO	CWSEL	EG	ELLC	ELMIN	10K*S	Q
14000.000	613.34	613.51	0.00	606.90	35.73	2064.00
14000.000	614.28	614.55	0.00	606.90	39.98	2064.00
14100.000	613.68	613.84	0.00	607.00	29.84	2064.00
14100.000	614.69	614.91	0.00	607.00	32.49	2064.00
14200.000	613.98	614.12	0.00	607.10	26.07	2064.00
14200.000	615.03	615.20	0.00	607.10	25.47	2064.00
16380.000	618.76	618.86	0.00	610.10	17.64	1655.00
16380.000	619.71	619.84	0.00	610.10	17.32	1655.00
16600.000	619.21	619.34	0.00	611.10	26.87	1655.00
16600.000	620.14	620.33	0.00	611.10	26.69	1655.00
16800.000	619.79	619.96	0.00	612.00	34.81	1655.00
16800.000	620.71	620.95	0.00	612.00	34.91	1655.00
18500.000	626.57	626.75	0.00	620.00	47.80	1369.00
18500.000	627.56	627.78	0.00	620.00	48.25	1369.00
18615.000	627.12	627.30	0.00	620.50	45.94	1369.00
18615.000	628.11	628.33	0.00	620.50	46.27	1369.00
18645.000	627.13	627.33	623.90	620.70	54.72	1369.00
18645.000	628.12	628.38	0.00	620.70	54.99	1369.00
18730.000	627.59	627.80	0.00	621.20	56.41	1369.00
18730.000	628.59	628.85	0.00	621.20	56.67	1369.00

## R NATURAL PROFILE MAR 1

## SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
181000.000	547.10	899.10	1050.00	1100.00	1303.50	404.40
181000.000	548.10	972.37	1050.00	1100.00	1242.19	269.82
520.000	547.27	835.60	1053.00	1113.00	1351.86	516.26
520.000	548.27	951.38	1053.00	1113.00	1251.00	299.63
1100.000	547.38	953.37	1050.00	1090.00	1302.26	348.90
1100.000	548.37	1011.35	1050.00	1090.00	1217.83	206.48
1600.000	547.96	960.97	1050.00	1090.00	1281.68	320.71
1600.000	548.92	1025.54	1050.00	1090.00	1195.90	170.37
1830.000	548.60	942.20	1000.00	1033.00	1246.03	303.83
1830.000	549.49	996.25	1000.00	1033.00	1134.26	138.00
2000.000	549.76	941.98	1000.00	1033.00	1247.78	305.80
2000.000	550.76	1000.00	1000.00	1033.00	1122.60	122.60
4200.000	567.17	957.14	1000.00	1030.00	1134.05	176.90
4200.000	567.85	982.41	1000.00	1030.00	1073.73	91.32
4279.000	568.19	951.06	1000.00	1030.00	1155.56	204.50
4279.000	568.48	986.69	1000.00	1030.00	1074.26	87.57
4280.000	568.86	1004.31	1000.00	1050.00	1249.94	245.63
4280.000	568.94	1003.23	1000.00	1050.00	1135.99	132.76
4300.000	569.05	1003.08	1000.00	1050.00	1251.17	248.08
4300.000	569.41	1000.00	1000.00	1050.00	1137.13	137.13
4301.000	569.00	913.73	1000.00	1030.00	1154.75	241.02
4301.000	569.33	968.17	1000.00	1030.00	1069.83	101.67
4380.000	569.20	914.55	1000.00	1030.00	1153.50	238.95
4380.000	569.63	969.89	1000.00	1030.00	1066.08	96.19
4830.000	570.64	916.03	1000.00	1030.00	1151.28	235.25
4830.000	571.61	973.01	1000.00	1030.00	1059.03	86.02
7680.000	584.19	957.45	1000.00	1023.00	1058.75	101.30
7680.000	585.10	972.96	1000.00	1023.00	1041.59	68.63
8700.000	588.74	904.89	1000.00	1020.00	1055.02	150.13
8700.000	589.48	964.49	1000.00	1020.00	1021.46	56.98
8805.000	589.02	905.07	1000.00	1020.00	1054.97	149.89
8805.000	589.88	964.56	1000.00	1020.00	1021.45	56.88
8835.000	590.25	892.64	1000.00	1020.00	1059.08	166.44
8835.000	591.11	957.63	1000.00	1020.00	1024.81	67.17
8900.000	590.35	894.80	1000.00	1020.00	1058.22	163.42

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
9170.000	590.86	902.37	1000.00	1020.00	1055.81	153.44
9170.000	591.84	957.40	1000.00	1020.00	1024.47	67.07
9570.000	591.93	911.47	1000.00	1020.00	1052.97	141.50
9570.000	592.92	962.67	1000.00	1020.00	1025.51	62.84
11300.000	597.83	840.86	1000.00	1029.00	1049.18	208.33
11300.000	598.85	905.65	1000.00	1029.00	1029.00	123.35
11450.000	598.06	1000.00	1000.00	1029.00	1029.00	29.00
11450.000	599.17	1000.00	1000.00	1029.00	1029.00	29.00
11510.000	598.63	1000.00	1000.00	1029.00	1029.00	29.00
11510.000	599.93	1000.00	1000.00	1029.00	1029.00	29.00
11600.000	600.44	829.41	1000.00	1029.00	1051.41	222.01
11600.000	601.21	934.71	1000.00	1029.00	1029.00	94.28
12280.000	602.15	957.66	1000.00	1030.00	1061.20	103.54
12280.000	603.20	974.37	1000.00	1030.00	1040.87	66.50
12350.000	602.46	959.13	1000.00	1030.00	1059.62	100.49
12350.000	603.41	976.10	1000.00	1030.00	1039.71	63.61
* 12370.000	612.17	911.60	1000.00	1030.00	1148.27	236.66
* 12370.000	613.12	961.31	1000.00	1030.00	1073.20	111.88
12450.000	612.18	913.56	1000.00	1030.00	1144.31	230.75
12450.000	613.13	962.65	1000.00	1030.00	1070.35	107.71
12500.000	612.19	915.54	1000.00	1030.00	1140.32	224.78
12500.000	613.14	963.97	1000.00	1030.00	1073.47	109.50
12600.000	612.20	919.49	1000.00	1030.00	1132.33	212.84
12600.000	613.16	966.67	1000.00	1030.00	1069.50	102.83
12700.000	612.22	923.43	1000.00	1030.00	1124.37	200.94
12700.000	613.17	964.59	1000.00	1030.00	1065.15	100.56
13940.000	613.09	858.06	1000.00	1043.00	1071.01	212.95
13940.000	614.00	941.49	1000.00	1043.00	1043.00	101.51
14000.000	613.34	856.44	1000.00	1043.00	1072.13	215.69
14000.000	614.28	939.77	1000.00	1043.00	1043.00	103.23
14100.000	613.68	853.49	1000.00	1043.00	1074.19	220.70
14100.000	614.65	936.53	1000.00	1043.00	1043.00	106.47
14200.000	613.98	851.19	1000.00	1043.00	1075.79	224.60
14200.000	615.03	930.51	1000.00	1043.00	1043.00	112.49
16380.000	618.76	896.17	1000.00	1022.00	1162.51	266.34
16380.000	619.71	949.68	1000.00	1022.00	1080.20	130.51
16600.000	619.21	900.36	1000.00	1022.00	1156.99	256.63
16600.000	620.14	950.60	1000.00	1022.00	1069.85	119.24

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SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
16800.000	619.79	902.74	1000.00	1022.00	1153.86	251.12
16800.000	620.71	953.11	1000.00	1022.00	1063.66	110.55
18500.000	626.57	959.90	1000.00	1018.00	1164.64	204.74
18500.000	627.56	1000.00	1000.00	1018.00	1078.75	78.75
18615.000	627.12	959.25	1000.00	1018.00	1165.22	205.98
18615.000	628.11	1000.00	1000.00	1018.00	1079.62	79.62
18645.000	627.13	962.10	1000.00	1018.00	1162.69	200.60
18645.000	628.12	1000.00	1000.00	1018.00	1075.48	75.48
18730.000	627.59	962.58	1000.00	1018.00	1162.26	199.68
18730.000	628.59	1000.00	1000.00	1018.00	1074.67	74.67

SUMMARY OF ERRORS

CAUTION SECNO=12370.000 PROFILE= 1 HYDRAULIC JUMP D.S.  
CAUTION SECNO=12370.000 PROFILE= 2 HYDRAULIC JUMP D.S.

FLOODWAY DATA, R NATURAL PROFILE MAR 1  
 PROFILE NO. 2

STATION	----- FLOODWAY -----			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
181000.000	270.	3667.	1.3	548.1	547.1	1.0
520.000	300.	3353.	0.8	548.3	547.3	1.0
1100.000	206.	1587.	1.8	548.4	547.4	1.0
1600.000	170.	1036.	2.7	549.0	548.0	1.0
1830.000	138.	641.	4.4	549.5	548.6	0.9
2000.000	123.	602.	4.7	550.8	549.8	1.0
4200.000	91.	459.	5.6	567.9	567.2	0.7
4279.000	88.	465.	5.5	568.5	568.2	0.3
4280.000	133.	493.	5.2	569.0	568.9	0.1
4300.000	137.	549.	4.7	569.5	569.1	0.4
4301.000	102.	634.	4.1	569.3	569.0	0.3
4380.000	96.	600.	4.3	569.6	569.2	0.4
4830.000	86.	570.	4.5	571.6	570.6	1.0
7680.000	69.	481.	4.8	585.1	584.2	0.9
8700.000	57.	496.	4.7	589.4	588.7	0.7
8805.000	57.	501.	4.6	589.9	589.0	0.9
8835.000	67.	652.	3.6	591.1	590.2	0.9
8900.000	65.	626.	3.7	591.3	590.4	0.9
9170.000	67.	599.	3.9	591.9	590.9	1.0
9570.000	63.	525.	4.4	592.9	591.9	1.0
11300.000	123.	724.	2.9	598.8	597.8	1.0
11450.000	29.	247.	8.4	599.2	598.1	1.1
11510.000	29.	263.	7.8	599.9	598.6	1.3
11600.000	94.	626.	3.3	601.2	600.4	0.8
12280.000	66.	486.	4.2	603.1	602.1	1.0
12350.000	64.	449.	4.6	603.5	602.5	1.0
12370.000	112.	1595.	1.3	613.2	612.2	1.0
12450.000	108.	1515.	1.4	613.2	612.2	1.0
12500.000	110.	1483.	1.4	613.2	612.2	1.0
12600.000	103.	1343.	1.5	613.2	612.2	1.0
12700.000	101.	1253.	1.6	613.2	612.2	1.0
13940.000	102.	568.	3.6	614.0	613.1	0.9
14000.000	103.	597.	3.5	614.2	613.3	0.9
14100.000	106.	649.	3.2	614.7	613.7	1.0
14200.000	112.	715.	2.9	615.0	614.0	1.0
16380.000	131.	777.	2.1	619.8	618.8	1.0
16600.000	119.	653.	2.5	620.1	619.2	0.9
16800.000	111.	577.	2.9	620.7	619.8	0.9
18500.000	79.	432.	3.2	627.6	626.6	1.0
18615.000	80.	440.	3.1	628.1	627.1	1.0
18645.000	75.	406.	3.4	628.1	627.1	1.0
18730.000	75.	400.	3.4	628.6	627.6	1.0