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*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* JUN 1998 *
* VERSION 4.1 *
* RUN DATE 25AUG13 TIME 12:13:37 *
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*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 756-1104 *

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X   X  XXXXXX  XXXXX      X
X   X  X      X   X      XX
X   X  X      X           X
XXXXXXX XXXX  X           XXXXX X
X   X  X      X           X
X   X  X      X   X      X
X   X  XXXXXX  XXXXX      XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

*** FREE ***

*DIAGRAM

1  ID  THIS HEC-1 IS MODIFIED FROM THE ORIGINAL MPU HEC-1 SW3.DAT:
2  ID  THE DISCHARGE LOCATION FOR LVBZ INTO THE LAS VEGAS WASH WAS REVISED
3  ID  BASINS, ROUTES, ETC. CONTRIBUTING TO COMBINATION POINT CNB15-C
4  ID  (FACILITY LVBZ 0000) AND REDIRECTING THEM SOUTH DOWN MARION AVENUE TO
5  ID  COMBINE WITH THE CEDAR AVENUE CHANNEL (FACILITY CACH 0000) AT CCA10-C
6  ID
7  ID  INPUT FILE NAME = SW3_LVBZATCEDAR.DAT
8  ID  REVISIONS BY V FLOCK, STANLEY CONSULTANTS, INC., JULY 2013
9  ID  CHECKED BY H MURVOSH, STANLEY CONSULTANTS, INC., JULY 2013
10 ID  REFERENCES:
11 ID  CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT 2008 MASTER PLAN UPDATE
12 ID  CENTRAL WATERSHED (SOUTHWEST, SOUTHEAST, NORTHEAST AREAS)
13 ID  RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
14 ID  INPUT FILE = SW3.DAT
15 ID  INPUT FILE DATE = MAY 2008
16 ID  DESIGN STORM = 100-YEAR 6-HR STORM
17 ID  STORM DISTRIBUTION = SDN #3
18 ID  MODELED BY PBS&J (BRIAN ROWLEY, E.I., CFM)
19 ID  CHECKED BY PBS&J (HARSHAL B. DESAI, P.E., CFM)
20 ID  STORM CENTERING = ENTIRE WATERSHED (SOUTHWESTERN PORTION)
21 ID
22 ID  REFERENCED HYDROLOGIC MODELS:
23 ID  CITY OF LAS VEGAS CITY WIDE HYDROLOGY ANALYSIS (PBS&J 1997)
24 ID  PREDESIGN REPORT FOR I-15 FREEWAY CHANNEL (PARSONS BRINCKERHOFF 1999)
25 ID  FINAL CENTRAL BASIN ASSESMENT (CARTER-BURGESS 1998)
26 ID  HYDRAULIC DESIGN REPORT FOR I-15 WIDENING (LOUIS BERGER 1999)
27 ID  AMENDMENT TO 2002 MPU FOR MEADOWS ALTA PARALLEL FACILITY (CLV, OCT 2006)
28 ID  US-95 WIDENING PROJECT, FINAL OVERALL PROJECT DRAINAGE DESIGN REPORT
29 ID  (VTN NEVADA, MAY 2003)
30 ID  MEADOWS ALTA PARALLEL PROJECT PHASE II, 90% DESIGN (VTN, FEB 2008)
31 ID  OAKLEY MEADOWS STORM DRAIN FINAL DESIGN REPORT (PBS&J, APR 2008)
32 ID  MASTER PLAN CHANGE FOR THE OAKLEY DRAIN FACILITY, (HDR, JULY 2007)
33 ID  OAKLEY DRAIN, BIRCH ST TO CAHLAN DR PRE-FINAL DESIGN PLANS (HDR, JAN 2008)
34 ID
35 ID
36 ID  KO CARDS ADDED AT THE FOLLOWING COMBINATION POINTS:
37 ID  CCA10-C
38 ID
39 ID  JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
40 ID
41 ID
42 ID      AREA      DARF
43 ID      SQ. MI.
44 ID      0-0.5      0.99
45 ID      0.5-1      0.975
46 ID      1-2        0.95
47 ID      2-3        0.925
48 ID      3-4        0.915
49 ID      4-5        0.908
50 ID      5-6        0.903
51 ID      6-7        0.895
52 ID      7-8        0.885
53 ID
53 IT      5      0      0      300

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1 HEC-1 INPUT

PAGE 2

119 KM ROUTE DF5 TO CR4C1
 120 KM FACILITY = VALLEY VIEW DRAIN
 121 KM FACILITY # = FWV 0025
 122 KM LINING = RCB
 123 RD 1200 0.003 0.015 0 TRAP 10 0
 *

124 KK CE2EA-C
 125 BA 0.126
 126 PB 2.77
 127 LS 0 86.8
 128 UD 0.428
 *

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HEC-1 INPUT

PAGE 4

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

129 KK RCE2EA
 130 KM ROUTE CE2EA TO CR4C1
 131 KM SPRING MOUNTAIN ROAD
 132 RD 7600 0.01 0.016 0 TRAP 0 50
 *

133 KK R4C1
 134 BA 0.272
 135 PB 2.77
 136 LS 0 93.4
 137 UD 0.419
 *

138 KK CR4C1
 139 KM COMBINE R4C1, RDFW5, AND RCE2EA
 140 KM SPRING MOUNTAIN AND VALLEY VIEW
 141 HC 3
 *

142 KK RCR4C1
 143 KM ROUTE CR4C1 TO CCE3FA
 144 KM FACILITY = VALLEY VIEW DRAIN
 145 KM FACILITY # = FWV 0000, 0025
 146 KM LINING = RCB
 147 RD 2285 0.003 0.015 0 TRAP 10 0
 *

148 KK CE2EC
 149 BA 0.264
 150 PB 2.77
 151 LS 0 83.1
 152 UD 0.308
 *

153 KK RCE2EC
 154 KM ROUTE CE2EC TO CCE2ED-C
 155 KM DESERT INN
 156 RD 5000 0.0144 0.016 0 TRAP 0 50
 *

157 KK CE2ED-C
 158 BA 0.313
 159 PB 2.77
 160 LS 0 91.7
 161 UD 0.401
 *

162 KKCE2ED-C
 163 KM COMBINE RCE2EC AND CE2ED-C
 164 KM DESERT INN AND DECATUR
 165 HC 2
 *

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HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

166 KK DCCE2ED
 167 KM FLOW SPLIT TO CPS03
 168 KM DIVERT FLOW NORTH ON DECATUR IN SECONDARY FACILITY
 169 KM REMAINING FLOW FLOWS EAST ON DESERT INN
 170 KM DIDN FROM CITY WIDE
 171 DT DCPS03
 172 DI 0 1 100 200 300 390
 173 DQ 0 0 60 120 172 210
 *

174 KKRDCE2ED
 175 KM ROUTE DCCE2ED TO CE3FA
 176 KM DESERT INN
 177 RD 5100 0.0137 0.016 0 TRAP 0 50
 *

178 KK CE3FA
 179 BA 0.357
 180 PB 2.77
 181 LS 0 93.7

182 UD 0.412
 *
 183 KK CCE3FA
 184 KM COMBINE RDCCE2ED, RCR4C1 AND CE3FA
 185 KM DESERT INN AND VALLEY VIEW
 186 HC 3
 *
 187 KK RCCE3FA
 188 KM ROUTE CCE3FA TO CCPS06
 189 KM FACILITY = VALLEY VIEW DRAIN
 190 KM FACILITY # = FWV 0000
 191 KM LINING = RCB
 192 RD 500 0.003 0.015 0 TRAP 12 0
 *
 193 KK PS01-C
 194 BA 0.407
 195 PB 2.77
 196 LS 0 85.4
 197 UD 0.364
 *
 198 KK RPS01-C
 199 KM ROUTE PS01-C TO CPS03
 200 KM FACILITY = PALMYRA/SIRIUS DRAIN
 201 KM FACILITY # = FWPS 0157
 202 KM LINING = RCP
 203 RD 2600 0.0115 0.013 0 CIRC 8
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

204 KK PS03
 205 BA 0.193
 206 PB 2.77
 207 LS 0 90.4
 208 UD 0.226
 *
 209 KK CPS03
 210 KM COMBINE RPS01-C AND PS03
 211 KM DECATUR AND PALMYRA
 212 HC 2
 *
 213 KK ED01
 214 BA 0.254
 215 PB 2.77
 216 LS 0 85.9
 217 UD 0.379
 *
 218 KK RED01
 219 KM ROUTE ED01 TO CED02
 220 KM EDNA AVENUE
 221 RD 5100 0.0139 0.016 0 TRAP 0 50
 *
 222 KK ED02
 223 BA 0.312
 224 PB 2.77
 225 LS 0 88.7
 226 UD 0.407
 *
 227 KK ED11
 228 BA 0.242
 229 PB 2.77
 230 LS 0 85.3
 231 UD 0.370
 *
 232 KK ED12
 233 BA 0.198
 234 PB 2.77
 235 LS 0 90.5
 236 UD 0.337
 *
 237 KK CED12
 238 KM COMBINE ED11 AND ED12
 239 KM JONES AND ELDORA
 240 HC 2
 *

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PAGE 7

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

241 KK RCD12
 242 KM ROUTE CED12 TO CED13

243	KM	ELDORA STREET						
244	RD	5100 0.0135 0.016	0	TRAP	0	50		
	*							
245	KK	ED13						
246	BA	0.208						
247	PB	2.77						
248	LS	0 91.8						
249	UD	0.382						
	*							
250	KK	CED13						
251	KM	COMBINE RCED12 AND ED13						
252	KM	DECATUR AND ELDORA						
253	HC	2						
	*							
254	KK	RCED13						
255	KM	ROUTE CED13 TO CED02						
256	KM	FACILITY = PALMYRA / SIRIUS DRAIN - DECATUR LATERAL						
257	KM	FACILITY # = PSDE 0025						
258	KM	LINING = RCB						
259	RD	1320 0.0025 0.015	0	TRAP	10	0		
	*							
260	KK	CED02						
261	KM	COMBINE RED01, ED02, AND RCED13						
262	KM	DECATUR AND EDNA						
263	HC	3						
	*							
264	KK	RCED02						
265	KM	ROUTE CED02 TO CPS03						
266	KM	FACILITY = PALMYRA / SIRIUS DRAIN - DECATUR LATERAL						
267	KM	FACILITY # = PSDE 0000						
268	KM	LINING = RCB						
269	RD	1330 0.0038 0.015	0	TRAP	12	0		
	*							
270	KK	DCPS03						
271	KM	RETRIEVE DPS03						
272	DR	DCPS03						
	*							
273	KK	RDPS03						
274	KM	ROUTE DCPS03 TO CPS03						
275	KM	DECATUR						
276	RD	1200 0.0033 0.016	0	TRAP	0	50		
	*							

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

277	KK	CCPS03					
278	KM	COMBINE CPS03, RDPS03 AND RCED02					
279	KM	DECATUR AND PALMYRA					
280	HC	3					
	*						
281	KK	RCCPS03					
282	KM	ROUTE CCPS03 TO CPS06					
283	KM	FACILITY = PALMYRA/SIRIUS DRAIN					
284	KM	FACILITY # = FWPS 0057					
285	KM	LINING = RCP					
286	RD	5280 0.0128 0.015	0	TRAP	10	0	
	*						
287	KK	PS06-C					
288	BA	0.387					
289	PB	2.77					
290	LS	0 91.5					
291	UD	0.317					
	*						
292	KK	CPS06					
293	KM	COMBINE RCPS03 AND PS06-C					
294	KM	VALLEY VIEW AND SIRIUS					
295	HC	2					
	*						
296	KK	CCPS06					
297	KM	COMBINE CPS06 AND RCCE3FA					
298	KM	VALLEY VIEW AND SIRIUS					
299	HC	2					
	*						
300	KK	RCCPS06					
301	KM	ROUTE CCPS06 TO RCPS06					
302	KM	FACILITY = PALMYRA/SIRIUS DRAIN					
303	KM	FACILITY # = FWPS 0000					
304	KM	LINING = RCB					
305	RD	3000 0.015 0.015	0	TRAP	12	0	
	*						

306 KK FW09
 307 BA 0.255
 308 PB 2.77
 309 LS 0 94.0
 310 UD 0.399
 *

311 KK DSPM
 312 KM DIVERT FLOW TO SPRING MTN./I-15 INTERCHANGE DETENTION BASIN
 313 KM FROM "HYDRAULIC DESIGN REPORT FOR I-15 WIDENING" BY LOUIS BERGER 1999
 314 DT DSM
 315 DI 0 50 100 200 300 400 1000 2000
 316 DQ 0 0 20 60 160 260 260
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

317 KK RDSPM
 318 KM ROUTE DSPM TO CCE3FD-C
 319 KM FROM "HYDRAULIC DESIGN REPORT FOR I-15 WIDENING" BY LOUIS BERGER 1999
 320 KM LINING = RCP
 321 RD 1390 0.0046 0.015 0 CIRC 5
 *

322 KK CE3FD-C
 323 BA 0.281
 324 PB 2.77
 325 LS 0 94.0
 326 UD 0.431
 *

327 KKCCE3FD-C
 328 KM COMBINE RDSPM AND CE3FD-C
 329 KM FREEWAY CHANNEL AND DESERT INN
 330 HC 2
 *

331 KK RCCE3FD
 332 KM ROUTE CCE3FD-C TO CRCPS06
 333 KM FACILITY = FREEWAY CHANNEL DESERT INN TO I-15
 334 KM FACILITY # = FW15 0301
 335 KM LINING = CONCRETE
 336 RD 1300 0.0042 0.015 0 TRAP 12 2
 *

337 KK CRCPS06
 338 KM COMBINE RCCCE3FD AND RCCPS06
 339 KM COMBINATION AT FREEWAY CHANNEL AND PALMYRA
 340 HC 2
 *

341 KK RRCRCP06
 342 KM ROUTE RRCRCP06 TO CPS08
 343 KM FACILITY = FREEWAY CHANNEL DESERT INN TO I-15
 344 KM FACILITY # = FW15 0271
 345 KM LINING = RCB
 346 RD 1520 0.0059 0.015 0 TRAP 24 0
 *

347 KK PS08
 348 BA 0.179
 349 PB 2.77
 350 LS 0 92.3
 351 UD 0.238
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

352 KK CPS08
 353 KM COMBINE RRCRCP06 AND PS08
 354 KM FREEWAY CHANNEL AND SUBBASIN PS08
 355 HC 2
 *

356 KK ED05-C
 357 BA 0.441
 358 PB 2.77
 359 LS 0 91.3
 360 UD 0.495
 *

361 KK RED05-C
 362 KM ROUTE ED05-C TO CCPS08
 363 KM EDNA AVENUE
 364 RD 1900 0.0158 0.016 0 TRAP 0 50
 *

365 KK CCPS08
 366 KM COMBINE CPS08 AND RED05-C
 367 KM EDNA AND FREEWAY CHANNEL
 368 HC 2

*
369 KK RCCPS08
370 KM ROUTE CCPS08 TO CED10-C
371 KM FACILITY = FREEWAY CHANNEL FROM DESERT INN TO I-15
372 KM FACILITY # = FW15 0242
373 KM LINING = RCB
374 RD 1500 0.0093 0.015 0 TRAP 24 0
*

375 KK ED10-C
376 BA 0.217
377 PB 2.77
378 LS 0 90.8
379 UD 0.293
*

380 KK CED10-C
381 KM COMBINE RCCPS08 AND ED10-C
382 KM COMBINATION OF FREEWAY CHANNEL AND ED10-C
383 HC 2
*

384 KKRCE10-C
385 KM ROUTE CED10-C TO CSA08
386 KM FACILITY = FREEWAY CHANNEL FROM DESERT INN TO I-15
387 KM FACILITY # = FW15 0214
388 KM LINING = RCB
389 RD 1610 0.0073 0.015 0 TRAP 24 0
*

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

390 KK SA06-C
391 BA 0.203
392 PB 2.77
393 LS 0 93.7
394 UD 0.384
*

395 KK RSA06-C
396 KM ROUTE SA06-C TO CSA08
397 KM FACILITY = FREEWAY CHANNEL SAHARA
398 KM FACILITY # = FWSA 0000
399 KM LINING = RCB
400 RD 5700 0.0149 0.015 0 TRAP 7 0
*

401 KK SA08
402 BA 0.218
403 PB 2.77
404 LS 0 94.0
405 UD 0.265
*

406 KK CSA08
407 KM COMBINE RSA06-C AND SA08
408 KM FREEWAY CHANNEL AND SAHARA AVENUE
409 HC 2
*

410 KK CCSA08
411 KM COMBINE RCED10-C AND CSA08
412 KM FREEWAY CHANNEL AND SAHARA AVENUE
413 HC 2
*

414 KK DCCSA08
415 KM DIVERT OUT ALL FLOW EXCEEDING 1450 CFS TO REDUCE FLOWS @ CHARLESTON
416 KM SPLIT 50/50
417 KM FLOW DIVERTED TO PROPOSED SAHARA FACILITY
418 DT DSAHARA
419 DI 0 1000 2000 2900 6000
420 DQ 0 500 1000 1450 4550
*

421 KK RCCSA08
422 KM ROUTE CCSA08 TO COK11-C
423 KM FACILITY = FREEWAY CHANNEL DESERT INN TO I-15
424 KM FACILITY # = FW15 0125,0150,0175
425 KM LINING = RCB
426 RD 3402 0.008 0.015 0 TRAP 20 0
*

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

427 KK CH14-C
428 BA 0.168
429 PB 2.77
430 LS 0 91.6
431 UD 0.432

```

*
432      KK RCH14-C
433      KM ROUTE CH14-C TO COK09-C
434      KM OAKEY
435      RD 2225 0.022 0.016 0 TRAP 0 50
      *

436      KK OK09-C
437      BA 0.377
438      PB 2.77
439      LS 0 91.8
440      UD 0.606
      *

441      KK COK09-C
442      KM COMBINE RCH14-C AND OK09-C
443      KM OAKEY AND CAMPBELL
444      HC 2
      *

445      KKRCOK09-C
446      KM ROUTE COK09-C TO COK10
447      KM FACILITY = OAKEY DRAIN
448      KM FACILITY # = FWOK 0040, 0060, 0076
449      KM LINING = RCB
450      RD 2300 0.015 0.015 0 TRAP 5 0
      *

451      KK OK10
452      BA 0.307
453      PB 2.77
454      LS 0 90.7
455      UD 0.379
      *

456      KK COK10
457      KM COMBINE RCOK09-C AND OK10
458      KM OAKEY AND VILLA DE CONDE
459      HC 2
      *

460      KK RCOK10
461      KM ROUTE COK10 TO 1COK11C
462      KM FACILITY = OAKEY DRAIN
463      KM FACILITY # = FWOK 0000, 0020, 0040
464      KM LINING = RCB
465      RD 3100 0.006 0.015 0 TRAP 10 0
      *

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      HEC-1 INPUT
      PAGE 13

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

466      KK OK11-C
467      BA 0.308
468      PB 2.77
469      LS 0 90.2
470      UD 0.528
      *

471      KK 1COK11C
472      KM COMBINE RCOK10, AND OK11-C
473      KM OAKEY DRAIN @ FREEWAY CHANNEL
474      HC 2
      *

475      KK COK11C
476      KM COMBINE RCCSA08 AND 1COK11C
477      KM FREEWAY CHANNEL AND OAKEY
478      HC 2
      *

479      KK RCOK11C
480      KM ROUTE COK11C TO CCWAL2
481      KM FACILITY = FREEWAY CHANNEL FROM DESERT INN TO I-15
482      KM FACILITY # = FW15 0100
483      KM LINING = RCB
484      RD 1575 0.0017 0.015 0 TRAP 36 0
      *

485      KK WAL1
486      BA 0.209
487      PB 2.77
488      LS 0 88.7
489      UD 0.316
      *

490      KK RWAL1
491      KM ROUTE WAL1 TO CWAL2
492      KM WALDMAN
493      RD 3100 0.0081 0.016 0 TRAP 0 50
      *

494      KK WAL2

```

495 BA 0.245
 496 PB 2.77
 497 LS 0 86.1
 498 UD 0.367
 *

499 KK CWAL2
 500 KM COMBINE RWAL1 AND WAL2
 501 HC 2
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

502 KK CCWAL2
 503 KM COMBINE RCOK11C AND CWAL2
 504 KM FREEWAY CHANNEL AND WALDMAN
 505 HC 2
 *

506 KK RCCWAL2
 507 KM ROUTE CCWAL2 TO CCH50
 508 KM FACILITY = FREEWAY CHANNEL FROM DESERT INN TO I-15
 509 KM FACILITY # = FW15 0089, 0050
 510 KM LINING = RCB
 511 RD 1850 0.0017 0.015 0 TRAP 36 0
 *

512 KK CH50
 513 BA 0.258
 514 PB 2.77
 515 LS 0 94.3
 516 UD 0.544
 *

517 KK CCH50
 518 KM COMBINE RCCWAL2 AND CH50
 519 KM COMBINATION AT FREEWAY CHANNEL
 520 HC 2
 *

521 KK CH15-C
 522 BA 0.237
 523 PB 2.77
 524 LS 0 91.3
 525 UD 0.332
 *

526 KK RCH15-C
 527 KM ROUTE CH15-C TO CCH18-C
 528 KM CHARLESTON
 529 RD 3900 0.0103 0.016 0 TRAP 0 50
 *

530 KK CH18-C
 531 BA 0.290
 532 PB 2.774
 533 LS 0 90.1
 534 UD 0.327
 *

535 KK CCH18-C
 536 KM COMBINE RCH15-C AND CH18-C
 537 KM RANCHO DR AND CHARLESTON
 538 HC 2
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

539 KKRCCH18-C
 540 KM ROUTE CCH18-C TO CCCH18-C
 541 KM FACILITY = WEST CHARLESTON DRAINS
 542 KM FACILITY # = FWCH 0044, 0047
 543 KM LINING = RCB
 544 RD 850 0.0205 0.015 0 TRAP 7 0
 *

545 KK AL92
 546 BA 0.429
 547 PB 2.77
 548 LS 0 83.9
 549 UD 0.489
 *

550 KK DAL92
 551 KM FLOW SPLIT TO AL93
 552 KM INTERSECTION FLOW SPLIT AT ALTA AND RANCHO
 553 KM FROM PREDESIGN REPORT FOR I-15 FREEWAY CHANNEL (PB, 1999)
 554 DT DAL93
 555 DI 0 310 1000
 556 DQ 0 120 390
 *

557 KK RDAL92
558 KM ROUTE DAL92 TO CAL95
559 KM RANCHO
560 RD 1300 0.0015 0.016 0 TRAP 0 50
*

561 KK AL95-C
562 BA 0.192
563 PB 2.77
564 LS 0 84.7
565 UD 0.313
*

566 KK CAL95
567 KM COMBINE RDAL92 AND AL95-C
568 KM RANCHO AND PALOMINO
569 HC 2
*

570 KKRCAL95-C
571 KM ROUTE CAL95 TO CCCH18-C
572 KM FACILITY = WEST CHARLESTON DRAINS - RANCHO
573 KM FACILITY # = CHRA 0000, 0006, 0014
574 KM LINING = RCB
575 RD 1326 0.015 0.015 0 TRAP 5 0
*

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HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

576 KKCCCH18-C
577 KM COMBINE RCAL95-C AND RCCH18-C
578 KM RANCHO DRAINS AND WEST CHARLESTON DRAINS
579 HC 2
*

580 KKRCCH18C
581 KM ROUTE CCCH18-C TO CCH22
582 KM FACILITY = WEST CHARLESTON DRAINS
583 KM FACILITY # = FWCH 0000, 0020, 0036
584 KM LINING = RCP
585 RD 2975 0.0074 0.015 0 TRAP 10
*

586 KK CH22-C
587 BA 0.230
588 PB 2.77
589 LS 0 94.7
590 UD 0.422
*

591 KK CCH22
592 KM COMBINE RCCCH18C AND CH22-C
593 KM I15 AND CHARLESTON
594 HC 2
*

595 KK CCCH22
596 KM COMBINE CCH50 AND CCH22
597 KM FREEWAY CHANNEL AND CHARLESTON
598 HC 2
*

599 KK RCCCH22
600 KM ROUTE CCCH22 TO CAL96
601 KM FACILITY = FREEWAY CHANNEL FROM DESERT INN TO I-15
602 KM FACILITY # = FW15 0010, 0038
603 KM LINING = RCB
604 RD 2622 0.0017 0.015 0 TRAP 36 0
*

605 KK AL96-C
606 BA 0.181
607 PB 2.77
608 LS 0 94.6
609 UD 0.350
*

610 KK CAL96
611 KM COMBINE RCCH22 AND AL96-C
612 KM FREEWAY CHANNEL AND ALTA
613 HC 2
*

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

614 KK RCAL96
615 KM ROUTE CAL96 TO CAL93
616 KM FACILITY = FREEWAY CHANNEL FROM DESERT INN TO I-15
617 KM FACILITY # = FW15 0000
618 KM LINING = RCB

619	RD	2170	0.0017	0.015	0	TRAP	36	0
	*							
620	KK	DAL93						
621	KM	RETRIEVE DAL93						
622	DR	DAL93						
	*							
623	KK	RDAL93						
624	KM	ROUTE DAL93 TO CAL93						
625	KM	ALTA						
626	RD	5500	0.0046	0.016	0	TRAP	0	50
	*							
627	KK	AL93-C						
628	BA	0.524						
629	PB	2.77						
630	LS	0	91.0					
631	UD	0.367						
	*							
632	KK	CAL93						
633	KM	COMBINE RCAL96, RDAL93, AND AL93-C						
634	KM	COMBINATION WITH LAS VEGAS CREEK						
635	HC	3						
	*							
636	KK	1-GOLF						
637	BA	0.362						
638	PB	2.83						
639	LS	0	86.6					
640	UD	0.323						
	*							
641	KK	R1-GOLF						
642	KM	ROUTE 1-GOLF TO C2a-OAK						
643	KM	VIA OLIVERO						
644	RD	2600	0.0269	0.016	0	TRAP	0	50
	*							
645	KK2a-OAK-C							
646	BA	0.314						
647	PB	2.77						
648	LS	0	87.7					
649	UD	0.313						
	*							

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

650	KK	C2a-OAK						
651	KM	COMBINE R1-GOLFC AND 2a-OAK-C						
652	KM	BUFFALO AND VIA OLIVERO						
653	HC	2						
	*							
654	KKRC2a-OAK							
655	KM	ROUTE C2a-OAK TO C3-ELP-C						
656	KM	VIA OLIVERO						
657	RD	4000	0.025	0.016	0	TRAP	0	50
	*							
658	KK	3-ELP-C						
659	BA	0.209						
660	PB	2.77						
661	LS	0	90.2					
662	UD	0.253						
	*							
663	KKC3-ELP-C							
664	KM	COMBINE RC2a-OAK AND 3-ELP-C						
665	KM	VIA OLIVERO AND MECH 0400						
666	HC	2						
	*							
667	KKRC3-ELPC							
668	KM	ROUTE RC3-ELPC TO C3a-OAKC						
669	KM	FACILITY = EXTENSION OF MEADOWS/CHARLESTON COLLECTION SYSTEM						
670	KM	FACILITY # = MECH 0400						
671	KM	LINING = RCB						
672	RD	1300	0.0143	0.015	0	TRAP	10	0
	*							
673	KK3a-OAK-C							
674	BA	0.432						
675	PB	2.77						
676	LS	0	85.7					
677	UD	0.283						
	*							
678	KKC3a-OAKC							
679	KM	COMBINE RC3-ELPC AND 3a-OAK-C						
680	KM	O'BANNON AND MECH 0378						
681	HC	2						

*
 682 KKRC3aOAKC
 683 KM ROUTE C3a-OAKC TO OAKKEYIN
 684 KM FACILITY = EXTENSION OF MEADOWS/CHARLESTON COLLECTION SYSTEM
 685 KM FACILITY # = MECH 0338, 0378
 686 KM LINING = RCB
 687 RD 2805 0.016 0.015 0 TRAP 10 0
 *
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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

688 KK3-HOLM-C
 689 BA 0.331
 690 PB 2.77
 691 LS 0 90.7
 692 UD 0.342
 *
 693 KKR3-HOLMC
 694 KM ROUTE R3-HOLMC TO C5-OAK-C
 695 KM FACILITY = EXTENSION OF MEADOWS/CHARLESTON COLLECTION SYSTEM
 696 KM FACILITY # = MECH 0334, 0337, 0351
 697 KM LINING = RCP
 698 RD 1700 0.005 0.013 0 CIRC 7.5 0
 *

699 KK 5-OAK-C
 700 BA 0.232
 701 PB 2.77
 702 LS 0 88.0
 703 UD 0.248
 *

704 KKC5-OAK-C
 705 KM COMBINE R3-HOLMC AND 5-OAK-C
 706 KM OAKKEY DETENTION BASIN
 707 HC 2
 *

708 KK OAKKEYIN
 709 KM COMBINE RC3aOAKC AND C5-OAK-C
 710 KM OAKKEY DETENTION BASIN
 711 HC 2
 *

712 KK OAKKEYDB
 713 KM OAKKEY DETENTION BASIN
 714 KM FACILITY = EXTENSION OF MEADOWS/CHARLESTON COLLECTION SYSTEM
 715 KM FACILITY # = MECH 0324
 716 KM STORAGE VOLUME = 201 ACRE-FEET
 717 KM OUTLET = 1-15" OUTLET PIPE
 718 KM 100-YEAR DISCHARGE = 32 CFS
 719 KM SPILLWAY LENGTH = 290 FEET
 720 KM SPILLWAY HEIGHT =
 721 KM SPILLWAY CREST ELEVATION = 2348.5'
 722 KM SPILLWAY TYPE =
 723 KM PMF DISCHARGE =
 724 KM TOP OF EMBANKMENT ELEVATION =
 725 RS 1 STOR 0
 726 SV 0 2 6 14 25 40 57 77 101 130
 727 SV 144 159 174 191 201 206 219 231 244 256
 728 SE 26 28 30 31 34 36 38 40 42 44
 729 SE 45 46 47 48 48.5 49 50 51 52 53
 730 SS 48.5 290 3.1 1.5
 731 SL 26 1.4 0.65 0.5
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

732 KK OAKKEYOT
 733 KM ROUTE OAKKEYDB TO CCOK08
 734 KM FACILITY = EXTENSION OF MEADOWS/CHARLESTON COLLECTION SYSTEM
 735 KM FACILITY # = MECH 0108, 0310, 0323
 736 KM LINING = RCP
 737 RD 9750 0.0143 0.013 0 CIRC 2.5
 *

738 KK SA01-C
 739 BA 0.263
 740 PB 2.77
 741 LS 0 94.5
 742 UD 0.340
 *

743 KK RSA01-C
 744 KM ROUTE SA01-C TO CSA05
 745 KM SAHARA
 746 RD 5200 0.0144 0.016 0 TRAP 0 50
 *

747	KK	SA05	
748	BA	0.176	
749	PB	2.77	
750	LS	0	93.2
751	UD	0.318	
	*		
752	KK	CSA05	
753	KM	COMBINE RSA01-C AND SA05	
754	KM	SAHARA AND DECATUR	
755	HC	2	
	*		
756	KK	RCSA05	
757	KM	ROUTE CSA05 TO CSA06	
758	KM	FACILITY = MEADOWS OAKEY DRAIN	
759	KM	FACILITY # = MEOK 0217	
760	KM	LINING = RCB	
761	RD	1276 0.0044 0.015 0 TRAP 12 0	
	*		
762	KK	SA06	
763	BA	0.079	
764	PB	2.77	
765	LS	0	93.7
766	UD	0.193	
	*		

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

767	KK	CSA06	
768	KM	COMBINE RCSA05 AND SA06	
769	KM	O'BANNON AND DECATUR	
770	HC	2	
	*		
771	KK	OK06-C	
772	BA	0.174	
773	PB	2.77	
774	LS	0	91.1
775	UD	0.302	
	*		
776	KK	ROK06-C	
777	KM	ROUTE OK06-C TO COK07	
778	KM	OBANNON	
779	RD	5100 0.0147 0.016 0 TRAP 0 50	
	*		
780	KK	OK07	
781	BA	0.241	
782	PB	2.77	
783	LS	0	87.1
784	UD	0.335	
	*		
785	KK	COK07	
786	KM	COMBINE OK07, ROK06-C, AND CSA06	
787	KM	O'BANNON AND DECATUR	
788	HC	3	
	*		
789	KK	RCOK07	
790	KM	ROUTE COK07 TO COK04-C	
791	KM	FACILITY = MEADOWS OAKEY DRAIN	
792	KM	FACILITY # = MEOK 0191, 0204	
793	KM	LINING = RCB	
794	RD	1315 0.0071 0.015 0 TRAP 12 0	
	*		
795	KK	OK03-C	
796	BA	0.363	
797	PB	2.77	
798	LS	0	90.8
799	UD	0.317	
	*		
800	KK	ROK03-C	
801	KM	ROUTE OK03-C TO COK04-C	
802	KM	OAKEY	
803	RD	5100 0.016 0.016 0 TRAP 0 50	
	*		

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

804	KK	OK04-C	
805	BA	0.198	
806	PB	2.77	
807	LS	0	85.7
808	UD	0.365	
	*		

809 KK COK04-C
 810 KM COMBINE ROK03-C, OK04-C AND RCOK07
 811 KM OAKLEY AND DECATUR
 812 HC 3
 *

 813 KKRCOK04-C
 814 KM ROUTE COK04-C TO COK08
 815 KM FACILITY = MEADOWS OAKLEY DRAIN
 816 KM FACILITY # = MEOK 0166
 817 KM LINING = RCB
 818 RD 1350 0.0045 0.015 0 TRAP 12 0
 *

 819 KK OK08
 820 BA 0.083
 821 PB 2.77
 822 LS 0 91.0
 823 UD 0.184
 *

 824 KK COK08
 825 KM COMBINE RCOK04-C AND OK08
 826 KM DEL RAY AND DECATUR
 827 HC 2
 *

 828 KK CCOK08
 829 KM COMBINE COK08 AND OAKLEYOT
 830 KM DEL RAY AND DECATUR
 831 HC 2
 *

 832 KK RCCOK08
 833 KM ROUTE CCOK08 TO COK12
 834 KM FACILITY = MEADOWS OAKLEY DRAIN
 835 KM FACILITY # = MEOK 0110
 836 KM LINING = RCB
 837 RD 2946 0.0077 0.015 0 TRAP 12 0
 *

 838 KK CH04-C
 839 BA 0.175
 840 PB 2.77
 841 LS 0 92.7
 842 UD 0.240
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

843 KK RCH04-C
 844 KM ROUTE CH04-C TO CCH05-C
 845 KM FACILITY = MEADOWS CHARLESTON
 846 KM FACILITY # = MECN 0223
 847 KM LINING = RCB
 848 RD 3100 0.0204 0.015 0 TRAP 6 0
 *

 849 KK CH05-C
 850 BA 0.163
 851 PB 2.77
 852 LS 0 94.3
 853 UD 0.329
 *

 854 KK CCH05-C
 855 KM COMBINE RCH04-C AND CH05-C
 856 KM TORREY PINES AND CHARLESTON
 857 HC 2
 *

 858 KKRCCH05-C
 859 KM ROUTE CCH05-C TO CCH09-C
 860 KM FACILITY = MEADOWS CHARLESTON
 861 KM FACILITY # = MECN 0123
 862 KM LINING = RCB
 863 RD 5200 0.0164 0.015 0 TRAP 8 0
 *

 864 KK CH09-C
 865 BA 0.378
 866 PB 2.77
 867 LS 0 91.5
 868 UD 0.341
 *

 869 KK CCH09-C
 870 KM COMBINE RCCH05-C AND CH09-C
 871 KM CHARLESTON AND LINDELL
 872 HC 2
 *

873 KKRCCH09-C
 874 KM ROUTE CCH09-C TO CCH10
 875 KM FACILITY = MEADOWS CHARLESTON
 876 KM FACILITY # = MECN 0061
 877 KM LINING = RCB
 878 RD 3300 0.0182 0.015 0 TRAP 8 0
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

879 KK CH10
 880 BA 0.279
 881 PB 2.77
 882 LS 0 93.1
 883 UD 0.222
 *

884 KK CCH10
 885 KM COMBINE RCCH09-C AND CH10
 886 KM CHARLESTON AND DECATUR
 887 HC 2
 *

888 KK RCCH10
 889 KM ROUTE CCH10 TO COK12
 890 KM FACILITY = MEADOWS CHARLESTON
 891 KM FACILITY # = MECN 0000
 892 KM LINING = RCB
 893 RD 1570 0.0109 0.015 0 TRAP 9 0
 *

894 KK OK12
 895 BA 0.050
 896 PB 2.77
 897 LS 0 95.6
 898 UD 0.163
 *

899 KK COK12
 900 KM COMBINE RCCOK08, RCCH10 AND OK12
 901 KM CHARLESTON AND MEOK 0110
 902 HC 3
 *

903 KK RCOK12
 904 KM ROUTE COK12 TO CCH14B
 905 KM FACILITY = MEADOWS OAKEY DRAIN
 906 KM FACILITY # = MEOK 0079, 0091
 907 KM LINING = RCB
 908 RD 1633 0.005 0.015 0 TRAP 18 0
 *

909 KK CH14B
 910 BA 0.217
 911 PB 2.77
 912 LS 0 90.8
 913 UD 0.356
 *

1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

914 KK CCH14B
 915 KM COMBINE RCOK12 AND CCH14B
 916 KM HINSON AND CHARLESTON
 917 HC 2
 *

918 KK RCCH14B
 919 KM ROUTE CCH14B TO COK13
 920 KM FACILITY = MEADOWS OAKEY DRAIN
 921 KM FACILITY # = MEOK 0000, 0048
 922 KM LINING = RCB
 923 RD 1950 0.005 0.015 0 TRAP 18 0
 *

924 KK OK13
 925 BA 0.099
 926 PB 2.77
 927 LS 0 92.7
 928 UD 0.376
 *

929 KK COK13
 930 KM COMBINE RCCH14B AND OK13
 931 KM FULTON PLACE AND VALLEY VIEW
 932 HC 2
 *

933 KK RCOK13
 934 KM ROUTE COK13 TO CCAL16
 935 KM FACILITY = MEADOWS OAKEY DRAIN

936 KM FACILITY # = MEOK 0000, 0017
 937 KM LINING = RCB
 938 RD 2450 0.0091 0.015 0 TRAP 19 0
 *

 939 KK R1
 940 BA 0.086
 941 PB 2.77
 942 LS 0 90.6
 943 UD 0.210
 *

 944 KK PR1
 945 KM REFERENCED FROM THE MPA FOR THE MEADOWS ALTA PARALLEL SYSTEM
 946 KM PREPARED BY CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS (OCTOBER 2006)
 947 KM PONDING BEHIND HOME DEPOT THAT LIMITS DISCHARGE TO CAPACITY OF PIPE AND CHANN
 948 KM DISCHARGE GREATER THAN 90 CFS AFTER PONDING WILL SPILL OUT TOWARD CHARLESTON
 949 RS 1 ELEV 10.1
 950 SV 0 2.7 3.5
 951 SE 10.1 13.7 14.7
 952 SQ 0 90 113
 *

1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

953 KK RPR1
 954 KM ROUTE PR1 TO CR2
 955 KM PRIMARILY PARKING LOT BEHIND HOME DEPOT
 956 RD 2900 0.0103 0.016 0 TRAP 0 50
 *

957 KK R3
 958 BA 0.275
 959 PB 2.77
 960 LS 0 91.3
 961 UD 0.297
 *

962 KK R2
 963 BA 0.045
 964 PB 2.77
 965 LS 0 90.7
 966 UD 0.228
 *

967 KK CR2
 968 KM COMBINE RPR1, R2 AND R3
 969 KM ALTA AND LORENZI
 970 HC 3
 *

971 KK DCR2
 972 KM DIVERT PEAK FLOW TO LORENZI STORM DRAIN
 973 KM FIRST 150 CFS GOES EAST ON ALTA, REMAINDER GOES NORTH
 974 KM REFERENCED FROM THE MEADOWS ALTA PARALLEL PROJECT PHASE II by VTN
 975 DT DAL00A
 976 DI 0 150 1000
 977 DQ 0 0 850
 *

978 KK RDCR2
 979 KM ROUTE DCR2 TO CAL01A
 980 KM FACILITY = MEADOWS - ALTA
 981 KM FACILITY # = MEAL 0160, 0209
 982 KM LINING = RCP
 983 RD 4300 0.015 0.013 0 CIRC 4
 *

984 KK AL01A
 985 BA 0.123
 986 PB 2.77
 987 LS 0 90.5
 988 UD 0.254
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

989 KK CAL01A
 990 KM COMBINE AL01A AND RDCR2
 991 KM ALTA AND JONES
 992 HC 2
 *

993 KK RCAL01A
 994 KM ROUTE CAL01A TO CUS
 995 KM FACILITY = MEADOWS - ALTA
 996 KM FACILITY # = MEAL 0150, 0160
 997 KM LINING = RCP
 998 RD 1100 0.0125 0.013 0 CIRC 3
 *

999 KK US
 1000 BA 0.030
 1001 PB 2.77
 1002 LS 0 90.5
 1003 UD 0.171
 *

1004 KK CUS
 1005 KM COMBINE RAL01A AND US
 1006 KM ALTA AND JONES
 1007 HC 2
 *

1008 KK AL04-C
 1009 BA 0.179
 1010 PB 2.77
 1011 LS 0 90.3
 1012 UD 0.346
 *

1013 KK RAL04-C
 1014 KM ROUTE AL04-C TO CCUS
 1015 KM FACILITY = MEADOWS - ALTA
 1016 KM FACILITY # = MEAL 0130
 1017 KM LINING = RCB
 1018 RD 1150 0.004 0.015 0 TRAP 6 0
 *

1019 KK CCUS
 1020 KM COMBINE CUS AND RAL04-C
 1021 KM ALTA AND JONES
 1022 HC 2
 *

1023 KK RCCUS
 1024 KM ROUTE CCUS TO CAL05-C
 1025 KM FACILITY = MEADOWS - ALTA
 1026 KM FACILITY # = MEAL 0120
 1027 KM LINING = RCP
 1028 RD 1900 0.01 0.013 0 CIRC 5 0
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1029 KK AL05-C
 1030 BA 0.234
 1031 PB 2.77
 1032 LS 0 90.5
 1033 UD 0.376
 *

1034 KK GS
 1035 BA 0.037
 1036 PB 2.77
 1037 LS 0 90.5
 1038 UD 0.190
 *

1039 KK DGS
 1040 KM REFERENCED FROM THE MPA FOR THE MEADOWS ALTA PARALLEL SYSTEM
 1041 KM PREPARED BY CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS (OCTOBER 2006)
 1042 KM DIVERT OUT OVERLAND FLOW NOT COLLECTED IN MEADOWS-ALTA PIPE SYSTEM
 1043 DT DGSR
 1044 DI 0 27 72
 1045 DQ 0 0 36
 *

1046 KK CAL05-C
 1047 KM COMBINE RCCUS, AL05-C AND DGS
 1048 KM ALTA AND UPLAND
 1049 HC 3
 *

1050 KKRCAL05-C
 1051 KM ROUTE CAL05-C TO CBR3
 1052 KM FACILITY = MEADOWS - ALTA
 1053 KM FACILITY # = MEAL 0100, 0120
 1054 KM LINING = RCP
 1055 RD 2000 0.01 0.013 0 CIRC 5
 *

1056 KK BR3
 1057 BA 0.074
 1058 PB 2.77
 1059 LS 0 91.4
 1060 UD 0.157
 *

1061 KK CBR3
 1062 KM COMBINE BR3 AND RCAL05-C
 1063 KM ALTA AND WILDSHIRE
 1064 HC 2
 *

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1065	KK RCB3
1066	KM ROUTE CBR3 TO CAL11-C
1067	KM FACILITY = MEADOWS - ALTA
1068	KM FACILITY # = MEAL 0060, 0100
1069	KM LINING = RCP
1070	RD 1400 0.01 0.013 0 CIRC 5
	*
1071	KK AL09-C
1072	BA 0.162
1073	PB 2.77
1074	LS 0 90.6
1075	UD 0.252
	*
1076	KK RAL09-C
1077	KM ROUTE AL09-C TO CAL11-C
1078	KM EVERGREEN / DECATUR
1079	RD 2400 0.0083 0.016 0 TRAP 0 50
	*
1080	KK DGSR
1081	KM RETRIEVE DIVERTED OVERLAND FLOW FROM GS
1082	DR DGSR
	*
1083	KK RDGSR
1084	KM ROUTE DGSR TO CAL11-C
1085	KM EVERGREEN / DECATUR
1086	RD 4600 0.0152 0.016 0 TRAP 0 50
	*
1087	KK AL11-C
1088	BA 0.130
1089	PB 2.77
1090	LS 0 94.4
1091	UD 0.316
	*
1092	KK CAL11-C
1093	KM COMBINE RCB3, RAL09-C, RDGSR AND AL11-C
1094	KM ALTA AND DECATUR
1095	HC 4
	*
1096	KKRCAL11-C
1097	KM ROUTE CAL11-C TO CAL10-C
1098	KM FACILITY = MEADOWS - ALTA
1099	KM FACILITY # = MEAL 0015
1100	KM LINING = RCP
1101	RD 2500 0.0194 0.013 0 CIRC 6
	*

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1102	KK AL10-C
1103	BA 0.048
1104	PB 2.77
1105	LS 0 91.5
1106	UD 0.245
	*
1107	KK CAL10-C
1108	KM COMBINE RCAL11-C AND AL10-C
1109	KM ALTA AND BEDFORD
1110	HC 2
	*
1111	KKRCAL10-C
1112	KM ROUTE CAL10-C TO CAL13-3
1113	KM FACILITY = MEADOWS - ALTA
1114	KM FACILITY # = MEAL 0000,0012,0013
1115	KM LINING = CONCRETE
1116	RD 1180 0.0158 0.015 0 TRAP 8 1
	*
1117	KK AL13-3
1118	BA 0.059
1119	PB 2.77
1120	LS 0 90.5
1121	UD 0.171
	*
1122	KK CAL13-3
1123	KM COMBINE RCAL10-C AND AL13-3
1124	KM ALTA AND VALLEY VIEW
1125	HC 2
	*

1126 KK AL14
 1127 BA 0.457
 1128 PB 2.77
 1129 LS 0 93.3
 1130 UD 0.525
 *

1131 KK RAL14
 1132 KM ROUTE AL14 TO CAL16
 1133 KM VALLEY VIEW
 1134 RD 1300 0.0115 0.016 0 TRAP 0 50
 *

1135 KK AL16
 1136 BA 0.148
 1137 PB 2.77
 1138 LS 0 92.2
 1139 UD 0.326
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1140 KK 1CAL16
 1141 KM COMBINE CAL13-3, RAL14, AND AL16
 1142 KM ALTA AND VALLEY VIEW
 1143 HC 3
 *

1144 KK AL09
 1145 BA 0.097
 1146 PB 2.77
 1147 LS 0 90.4
 1148 UD 0.282
 *

1149 KK RAL09
 1150 KM ROUTE AL09 TO CCH14A
 1151 KM FULTON
 1152 RD 1500 0.0133 0.016 0 TRAP 0 50
 *

1153 KK CH14A
 1154 BA 0.148
 1155 PB 2.77
 1156 LS 0 89.4
 1157 UD 0.340
 *

1158 KK CCH14A
 1159 KM COMBINE RAL09 AND CH14A
 1160 KM VALLEY VIEW AND FULTON
 1161 HC 2
 *

1162 KK RCCH14A
 1163 KM ROUTE CCH14A TO CAL16
 1164 KM FACILITY = MEADOWS - OAKLEY PARALLEL SYSTEM
 1165 KM FACILITY # = MEPA 0000
 1166 KM LINING = RCB
 1167 RD 1370 0.005 0.015 0 TRAP 10 0
 *

1168 KK CAL16
 1169 KM COMBINE 1CAL16 AND RCCH14A
 1170 KM ALTA AND VALLEY VIEW
 1171 HC 2
 *

1172 KK RCAL16
 1173 KM ROUTE CAL16 TO CCAL16 (CONFLUENCE)
 1174 KM FACILITY = LAS VEGAS CREEK - MEADOWS
 1175 KM FACILITY # = LCME 0070,0076,0077
 1176 KM LINING = CONCRETE
 1177 RD 973 0.0189 0.015 0 TRAP 18 1
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1178 KK CCAL16
 1179 KM COMBINE RCAL16 AND RCOK13
 1180 KM LAS VEGAS CREEK AND OAKLEY MEADOWS STORM DRAIN CONFLUENCE
 1181 HC 2
 *

1182 KK RCCAL16
 1183 KM ROUTE CCAL16 TO CAL90-C
 1184 KM FACILITY = LAS VEGAS CREEK - MEADOWS
 1185 KM FACILITY # = LCME 0040
 1186 KM LINING = CONCRETE
 1187 RD 525 0.004 0.015 0 TRAP 40 0

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*
1188 KK AL90-C
1189 BA 0.171
1190 PB 2.77
1191 LS 0 91.9
1192 UD 0.328
*

1193 KK CAL90-C
1194 KM COMBINE RCCAL16 AND AL90-C
1195 HC 2
*

1196 KKRCAL90-C
1197 KM ROUTE CAL90-C TO MEADOWIN
1198 KM FACILITY = LAS VEGAS CREEK - MEADOWS
1199 KM FACILITY # = LCME 0026, 0028
1200 KM LINING = CONCRETE
1201 RD 1030 0.004 0.015 0 TRAP 42 0
*

1202 KK MEDB
1203 BA 0.230
1204 PB 2.77
1205 LS 0 86.9
1206 UD 0.193
*

1207 KKMEADOWIN
1208 KM COMBINE RCAL90-C AND MEDB
1209 KM COMBINATION AT MEADOWS DETENTION BASIN
1210 HC 2
*

1211 KKMEADOWDB
1212 KM MEADOWS DETENTION BASIN
1213 KM FACILITY = LAS VEGAS CREEK - MEADOWS
1214 KM FACILITY # = LCME 0021
1215 KM ORIGINAL RATING CURVE FROM MEADOWS DETENTION EXPANSION BY VTN (6/01)
1216 KM UPDATED CURVE REFERENCED FROM OAKLEY MEADOWS FINAL DESIGN REPORT (PBS&J, APR 20
1217 KM CURVE BASED ON PROPOSED EXPANSION OF MEADOWDB BY RAISING SPILLWAY 1 FT
      HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1218 KM PROPOSED STORAGE VOLUME = 235 AC-FT (EXISTING STORAGE VOLUME = 213 AC-FT)
1219 KM OUTLET = 1-11.5'X 5' RCB AND 1-11'X 5' RCB
1220 KM 100-YEAR DISCHARGE =
1221 KM SPILLWAY LENGTH = 150 FT
1222 KM SPILLWAY HEIGHT =
1223 KM PROPOSED SPILLWAY CREST ELEVATION = 2112.3 FT (EXISTING SPILLWAY = 2111.3 FT)
1224 KM SPILLWAY TYPE = OGEE
1225 KM PMF DISCHARGE =
1226 KM TOP OF EMBANKMENT ELEVATION = 2115.5 FT
1227 RS 1 STOR 0
1228 SV 0 17.17 28.30 40.63 58.03 74.93 92.48 111.02 130.52 152.02
1229 SV 174.64 196.67 211.98 213.27 235.09 309.3
1230 SE 2097.9 2101 2101.79 2102.56 2103.57 2104.51 2105.46 2106.43 2107.4 2108.43
1231 SE 2109.5 2110.53 2111.24 2111.3 2112.3 2115.5
1232 SQ 0 202.1 400 500 600 700 800 900 1000 1100
1233 SQ 1200 1300 1365 1380 1428 5248
*

1234 KKMEADOWOT
1235 KM ROUTE MEADOWDB TO CRMEDET
1236 KM FACILITY = LAS VEGAS CREEK - MEADOWS
1237 KM FACILITY # = LCME 0000,0016,0018
1238 KM LINING = RCB
1239 RD 1145 0.0072 0.015 0 TRAP 14 0
*

1240 KK DAL00A
1241 KM RETRIEVE FLOW SPLIT FROM LORENZI/ALTA
1242 DR DAL00A
*

1243 KK RDAL00A
1244 KM ROUTE DAL00A TO RAINBWIN
1245 KM FACILITY = LAS VEGAS CREEK - LORENZI
1246 KM FACILITY # = LCLO 0000, 0008
1247 KM LINING = RCB
1248 RD 2860 0.004 0.015 0 TRAP 7 0
*

1249 KK AL00A
1250 BA 0.474
1251 PB 2.77
1252 LS 0 90.8
1253 UD 0.355
*

1254 KK AL00A-C
1255 BA 0.230
1256 PB 2.77

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

1259 KKRAINBWIN
1260 KM COMBINE RDAL00A, AL00A AND AL00A-C
1261 KM COMBINATION AT RAINBOW DETENTION BASIN
1262 HC 3
*

1263	KKRAINBWBDB
1264	KM RAINBOW DETENTION BASIN (EAST AND WEST MODELED TOGETHER)
1265	KM FACILITY = LAS VEGAS CREEK CHANNEL
1266	KM FACILITY # = LCCH 0513
1267	KM REFERENCED FROM THE 90% DESIGN REPORT FOR
1268	KM MEADOWS ALTA PARALLEL PROJECT PHASE II by VTN (2/08)
1269	KM STORAGE VOLUME = 102 AC-FT AFTER PROPOSED EXPANSION
1270	KM OUTLET = 42" RCP w/ 24" ORIFICE PLATE
1271	KM 100-YEAR DISCHARGE =
1272	KM SPILLWAY LENGTH = 137.8 FT
1273	KM SPILLWAY HEIGHT =
1274	KM SPILLWAY CREST ELEVATION = 2391.5 FT
1275	KM SPILLWAY TYPE = BROAD-CRESTED WEIR
1276	KM PMF DISCHARGE =
1277	KM TOP OF EMBANKMENT ELEVATION = 2396.5 FT
1278	RS 1 STOR 0
1279	SV 0.00 2.6 5.31 8.17 11.17 14.31 17.6 21.04 24.63 28.81
1280	SV 34.45 40.59 47.21 54.34 61.98 70.24 79.24 88.75 99.04 101.79
1281	SE 2353.9 2357 2359 2361 2363 2365 2367 2369 2371 2373
1282	SE 2375 2377 2379 2381 2383 2385 2387 2389 2390 2391.5
1283	SQ 0.00 23.75 33.18 40.47 46.64 52.08 57 61.53 65.75 69.72
1284	SQ 73.47 77.04 80.45 83.72 86.87 89.90 92.84 95.69 98.46 3000
	*

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1285      KKRAINBWOT
1286      KM   ROUTE RAINBWDB TO CLC01-C
1287      KM   FACILITY = LAS VEGAS CREEK CHANNEL
1288      KM   FACILITY # = LCCH 0499
1289      KM   LINING = RCP
1290      RD   665  0.0188  0.013      0      CIRC      3.5

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1291	KK	LC01-C	
1292	BA	0.089	
1293	PB	2.77	
1294	LS	0	91.8
1295	UD	0.301	
	*		

1296 KK CLC01-C
1297 KM COMBINE RAINBWOT AND LC01-C
1298 KM US 95, EAST OF RAINBOW BLVD
1299 HC 2
*

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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1300	KKRCLC01-C					
1301	KM	ROUTE CLC01-C TO CWA02-C				
1302	KM	FACILITY = LAS VEGAS CREEK CHANNEL				
1303	KM	FACILITY # = LCCH 0402,0412,0438,0458,0478				
1304	KM	LINING = RCP				
1305	RD	5165	0.0108	0.013	0	CIRC 5

1306	KK	WA02-C	
1307	BA	0.269	
1308	PB	2.77	
1309	LS	0	91.5
1310	UD	0.334	
	*		

1311 KK CWA02-C
1312 KM COMBINE RCLC01-C AND WA02-C
1313 KM JONES AND US 95
1314 HC 2
*

1315	KK	AL01B-C	
1316	BA	0.367	
1317	PB	2.77	
1318	LS	0	90.5
1319	UD	0.401	
	*		

1320 KKCCWA02-C
1321 KM COMBINE CWA02-C AND AL01B-C
1322 KM JONES AND US 95
1323 HC 2

*
 1324 KKRCWA02C
 1325 KM ROUTE CWA02-C TO CLC11-C
 1326 KM FACILITY = LAS VEGAS CREEK CHANNEL
 1327 KM FACILITY # = LCCH 0302, 0377, 0400
 1328 KM LINING = RCB
 1329 RD 6870 0.0249 0.015 0 TRAP 8 0
 *

1330 KK LC11-C
 1331 BA 0.384
 1332 PB 2.77
 1333 LS 0 91.3
 1334 UD 0.361
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1335 KK CLC11-C
 1336 KM COMBINE RCCCWA02C AND LC11-C
 1337 KM DECATUR AND US 95
 1338 HC 2
 *

1339 KKRCCLC11-C
 1340 KM ROUTE CLC11-C TO CLC14-C
 1341 KM FACILITY = LAS VEGAS CREEK CHANNEL
 1342 KM FACILITY # = LCCH 0230, 0270
 1343 KM LINING = RCB
 1344 RD 2140 0.0174 0.015 0 TRAP 12 0
 *

1345 KK LC14-C
 1346 BA 0.320
 1347 PB 2.77
 1348 LS 0 90.6
 1349 UD 0.423
 *

1350 KK CLC14-C
 1351 KM COMBINE RCLC11-C AND LC14-C
 1352 KM VALLEY VIEW AND US 95
 1353 HC 2
 *

1354 KK WA10-C
 1355 BA 0.447
 1356 PB 2.77
 1357 LS 0 87.8
 1358 UD 0.367
 *

1359 KK WA10D
 1360 KM FLOW SPLIT TO NORTHWEST CENTRAL BASIN
 1361 KM FROM FINAL OVERALL PROJECT DRAINAGE DESIGN REPORT BY VTN (MAY 2003)
 1362 KM CAPACITY OF CHANNEL = 250 CFS, EXCESS FLOW DIVERTED
 1363 DT WA10NW
 1364 DI 0 10 250 275 300 800 1000 3000
 1365 DQ 0 0 0 25 50 550 750 2750
 *

1366 KK RWA10D
 1367 KM ROUTE WA10D TO CCLC14-C
 1368 KM FACILITY = LAS VEGAS CREEK LATERAL
 1369 KM FACILITY # = LCLT 0000,0006
 1370 KM LINING = CONCRETE
 1371 RD 1855 0.005 0.015 0 TRAP 10 0
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1372 KKCCLC14-C
 1373 KM COMBINE CLC14-C AND RWA10D
 1374 KM VALLEY VIEW AND US 95
 1375 HC 2
 *

1376 KK RCCLC14
 1377 KM ROUTE CCLC14-C TO CRMEDET
 1378 KM FACILITY = LAS VEGAS CREEK CHANNEL
 1379 KM FACILITY # = LCCH 0157,0188
 1380 KM LINING = RCB
 1381 RD 3875 0.0106 0.015 0 TRAP 24 0
 *

1382 KK CRMEDET
 1383 KM COMBINE MEADOWOT AND RCCLC14
 1384 KM COMBINATION OF MEADOWS OUTFALL AND LAS VEGAS CREEK
 1385 HC 2
 *

1386 KKRCRMEDET
 1387 KM ROUTE CRMEDET TO CCLC16-C
 1388 KM FACILITY = LAS VEGAS CREEK CHANNEL
 1389 KM FACILITY # = LCCH 0114,0127,0129,0150,0154
 1390 KM LINING = RCB
 1391 RD 2305 0.005 0.015 0 TRAP 28 0
 *

 1392 KK LC16-C
 1393 BA 0.312
 1394 PB 2.774
 1395 LS 0 88.0
 1396 UD 0.342
 *

 1397 KKOG011AC2
 1398 BA 0.120
 1399 PB 2.77
 1400 LS 0 92.0
 1401 UD 0.219
 *

 1402 KK OG011AD
 1403 KM FLOW SPLIT NORTH TO VEGAS DRIVE SYSTEM
 1404 KM FROM FINAL OVERALL PROJECT DRAINAGE DESIGN REPORT BY VTN (MAY 2003)
 1405 KM 45 CFS CROSSES US 95 EASTWARD IN 30-INCH SD, REMAINDER GOES NORTH
 1406 DT OG011D
 1407 DI 0 45 100 500 994 10000
 1408 DQ 0 0 55 455 949 9955
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1409 KKROG011AD
 1410 KM ROUTE OG011AD TO CWA01-C
 1411 KM WASHINGTON
 1412 RD 3200 0.0171 0.016 0 TRAP 0 50
 *

 1413 KK WA01-C
 1414 BA 0.195
 1415 PB 2.77
 1416 LS 0 88.7
 1417 UD 0.249
 *

 1418 KK CWA01-C
 1419 KM COMBINE ROG011A-C2D AND WA01-C
 1420 KM TORREY PINES AND WASHINGTON
 1421 HC 2
 *

 1422 KK RWA01
 1423 KM ROUTE WA01-C TO CWA04-C
 1424 KM WASHINGTON
 1425 RD 5300 0.0142 0.016 0 TRAP 0 50
 *

 1426 KK WA04-C
 1427 BA 0.197
 1428 PB 2.77
 1429 LS 0 87.7
 1430 UD 0.474
 *

 1431 KK CWA04-C
 1432 KM COMBINE RWA01 AND WA04-C
 1433 KM MICHAEL AND WASHINGTON
 1434 HC 2
 *

 1435 KK RCWA04
 1436 KM ROUTE CWA04-C TO CWA09-C
 1437 KM FACILITY = FREEWAY CHANNEL
 1438 KM FACILITY # = LV15 0602
 1439 KM LINING = RCP
 1440 RD 5980 0.0159 0.013 0 CIRC 8
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1446 KK CWA09-C
 1447 KM COMBINE RCWA04 AND WA09-C

1448 KM VALLEY VIEW AND WASHINGTON
 1449 HC 2
 *

 1450 KK RCWA09
 1451 KM ROUTE CWA09-C TO CWA10NW
 1452 KM FACILITY = FREEWAY CHANNEL
 1453 KM FACILITY # = LV15 0528
 1454 KM LINING = RCB
 1455 RD 700 0.0119 0.015 0 TRAP 8
 *

 1456 KK WA10NW
 1457 KM RETURN FLOW FROM WA10NW
 1458 DR WA10NW
 *

 1459 KK CWA10NW
 1460 KM COMBINE RCWA09 AND WA10NW
 1461 KM VALLEY VIEW AND WASHINGTON
 1462 HC 2
 *

 1463 KKRCWA10NW
 1464 KM ROUTE CWA10NW TO CWA13-C
 1465 KM FACILITY = FREEWAY CHANNEL
 1466 KM FACILITY # = LV15 0528
 1467 KM LINING = RCB
 1468 RD 4420 0.0119 0.015 0 TRAP 8 0
 *

 1469 KK WA13-C
 1470 BA 0.333
 1471 PB 2.77
 1472 LS 0 89.8
 1473 UD 0.264
 *

 1474 KK CWA13-C
 1475 KM COMBINE RCWA10NW AND WA13-C
 1476 KM RANCHO DRIVE AND WASHINGTON
 1477 HC 2
 *

 1478 KK WA13D
 1479 KM REFERENCED FROM US-95 WIDENING PROJECT
 1480 KM FINAL OVERALL PROJECT DRAINAGE DESIGN REPORT BY VTN (MAY 2003)
 1481 DT WA13NW
 1482 DI 0 500 812 1000 1200
 1483 DQ 0 197 322 391 473
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 1484 KK RWA13D
 1485 KM ROUTE WA13D TO CLC16-C
 1486 KM FACILITY = FREEWAY CHANNEL
 1487 KM FACILITY # = LCRA 0000,0004,0050
 1488 KM LINING = RCB
 1489 RD 3100 0.0077 0.015 0 TRAP 12 0
 *

 1490 KK CLC16-C
 1491 KM COMBINE LC16-C AND RWA13D
 1492 KM RANCHO AND US 95
 1493 HC 2
 *

 1494 KKCLC16-C
 1495 KM COMBINE RCRMEDET AND CLC16-C
 1496 KM RANCHO AND US 95
 1497 HC 2
 *

 1498 KK RCCLC16
 1499 KM ROUTE CCLC16-C TO CLC20-C
 1500 KM FACILITY = LAS VEGAS CREEK CHANNEL
 1501 KM FACILITY # = LCCH 0013, 0051, 0110
 1502 KM LINING = RCB
 1503 RD 3700 0.006 0.015 0 TRAP 28 0
 *

 1504 KK LC20-C
 1505 BA 0.174
 1506 PB 2.77
 1507 LS 0 91.4
 1508 UD 0.483
 *

 1509 KK CLC20-C
 1510 KM COMBINE RCCLC16 AND LC20-C
 1511 KM MARTIN LUTHER KING AND US 95
 1512 HC 2

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*
1513 KK RCLC20-C
1514 KM ROUTE CLC20-C TO CCAL93
1515 KM FACILITY = LAS VEGAS CREEK CHANNEL
1516 KM FACILITY # = LCCH 0000,0013
1517 KM LINING = RCB
1518 RD 2765 0.0082 0.015 0 TRAP 24 0
*
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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1519 KK CCAL93
1520 KM COMBINE CAL93 AND RCLC20-C
1521 KM LAS VEGAS CREEK AND FREEWAY CHANNEL (LCCH 0000 & FW15 0000)
1522 HC 2
*

1523 KK RCCAL93
1524 KM ROUTE CCAL93 TO CLC21
1525 KM FACILITY = WASHINGTON AVENUE CHANNEL
1526 KM FACILITY # = LVWH 0429,0431,0447,0484
1527 KM LINING = RCB
1528 RD 2410 0.0015 0.015 0 TRAP 43 0
*

1529 KK LC21
1530 BA 0.599
1531 PB 2.77
1532 LS 0 94.8
1533 UD 0.550
*

1534 KK CLC21
1535 KM COMBINE RCCAL93 AND LC21
1536 KM INDUSTRIAL AND US 95
1537 HC 2
*

1538 KK DCLC21
1539 KM FLOW SPLIT TO FACILITY LVOE 0345
1540 KM DIVERT Q EXCEEDING WASHINGTON AVENUE CHANNEL CAPACITY
1541 KM DIVERSION AFTER 2870 CFS TO ASSURE THAT ENTIRE FACILITY HAS CAPACITY
1542 DT DLVOE
1543 DI 0 2870 10000
1544 DQ 0 0 7130
*

1545 KK RDCLC21
1546 KM ROUTE DCLC21 TO CV1-C
1547 KM FACILITY = WASHINGTON AVENUE CHANNEL
1548 KM FACILITY # = LVWH 0305,0361,0371,0382,0387,0389,0426
1549 KM LINING = RCB
1550 RD 4785 0.009 0.015 0 TRAP 12 0
*

1551 KK V1-C
1552 BA 0.282
1553 PB 2.77
1554 LS 0 92.0
1555 UD 0.339
*
1
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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1556 KK CH59-C
1557 BA 0.340
1558 PB 2.77
1559 LS 0 94.0
1560 UD 0.489
*

1561 KK DCH59-C
1562 KM FLOW SPLIT TO CH60A-C
1563 KM SPLIT TO FLAMINGO WASH SYSTEM
1564 KM DEVELOPED FROM CWH MODEL
1565 KM CAPACITY = 144 CFS + 78 CFS (100 YR FLOW FROM CWH FOR CH58)
1566 DT DFLAM
1567 DI 0 222 1000
1568 DQ 0 0 778
*

1569 KKDDCH59-C
1570 KM FLOW SPLIT TO BN03-C
1571 KM DIVERT Q EXCEEDING LAS VEGAS BLVD DRAIN CAPACITY: 48" PIPE, 167 CFS
1572 KM DBN00 IN CWH
1573 DT DBN03
1574 DI 0 167 1000
1575 DQ 0 0 833
*

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1576 KK RDDCH59
 1577 KM ROUTE DDCH59-C TO CV1-C
 1578 KM 48" RCP UNDER LAS VEGAS BLVD
 1579 KM LINING = RCP
 1580 RD 3000 0.0217 0.013 0 CIRC 4
 *

 1581 KK CV1-C
 1582 KM COMBINE RCLC21, V1-C, AND RDDCH59
 1583 KM WASHINGTON AND LAS VEGAS BLVD
 1584 HC 3
 *

 1585 KK RCV1-C
 1586 KM ROUTE CV1-C TO CX-C1
 1587 KM FACILITY = WASHINGTON AVENUE CHANNEL
 1588 KM FACILITY # = LVWH 0240, 0305
 1589 KM LINING = RCB
 1590 RD 2750 0.015 0.015 0 TRAP 24 0
 *

 1591 KK X-C1
 1592 BA 0.278
 1593 PB 2.77
 1594 LS 0 90.6
 1595 UD 0.272
 *

1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1596 KK CX-C1
 1597 KM COMBINE RCV1-C AND X-C1
 1598 KM WASHINGTON AND BRUCE
 1599 HC 2
 *

 1600 KK RCX-C1
 1601 KM ROUTE CX-C1 TO CN-C
 1602 KM FACILITY = WASHINGTON AVENUE CHANNEL
 1603 KM FACILITY # = LVWH 0240
 1604 KM LINING = RCB
 1605 RD 2540 0.015 0.015 0 TRAP 24 0
 *

 1606 KK M
 1607 BA 0.267
 1608 PB 2.77
 1609 LS 0 90.2
 1610 UD 0.426
 *

 1611 KK RM
 1612 KM ROUTE M TO CN-C
 1613 KM SEARLES TO EASTERN
 1614 RD 3900 0.0064 0.016 0 TRAP 0 50
 *

 1615 KK N-C
 1616 BA 0.264
 1617 PB 2.77
 1618 LS 0 88.5
 1619 UD 0.408
 *

 1620 KK CN-C
 1621 KM COMBINE RCX-C1, RM, AND N-C
 1622 KM WASHINGTON AND EASTERN
 1623 HC 3
 *

 1624 KK RCN-C
 1625 KM ROUTE CN-C TO CP-C
 1626 KM FACILITY = WASHINGTON AVENUE CHANNEL
 1627 KM FACILITY # = LVWH 0155,0234
 1628 KM LINING = RCB
 1629 RD 2600 0.0068 0.015 0 TRAP 30 0
 *

 1630 KK P-C
 1631 BA 0.309
 1632 PB 2.77
 1633 LS 0 87.4
 1634 UD 0.397
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1635 KK CP-C
 1636 KM COMBINE RCN-C AND P-C
 1637 KM WASHINGTON AND MOJAVE
 1638 HC 2

*
 1639 KK RCP-C
 1640 KM ROUTE CP-C TO CQ-C
 1641 KM FACILITY = WASHINGTON AVENUE CHANNEL
 1642 KM FACILITY # = LVWH 0136,0155
 1643 KM LINING = RCB
 1644 RD 2600 0.0068 0.015 0 TRAP 30 0
 *

1645 KK Q-C
 1646 BA 0.258
 1647 PB 2.77
 1648 LS 0 85.6
 1649 UD 0.408
 *

1650 KK CQ-C
 1651 KM COMBINE RCP-C AND Q-C
 1652 KM WASHINGTON AND PECOS
 1653 HC 2
 *

1654 KK RCQ-C
 1655 KM ROUTE CQ-C TO CLVW01-C
 1656 KM FACILITY = WASHINGTON AVENUE CHANNEL
 1657 KM FACILITY # = LVWH 0086,0087,0136
 1658 KM LINING = RCB
 1659 RD 3800 0.0033 0.015 0 TRAP 36 0
 *

1660 KK LVW01-C
 1661 BA 0.236
 1662 PB 2.77
 1663 LS 0 85.0
 1664 UD 0.456
 *

1665 KKCLVW01-C
 1666 KM COMBINE RCQ-C AND LVW01-C
 1667 KM COMBINATION OF FLOWS AT LAS VEGAS WASH
 1668 HC 2
 *

1669 KK DLVOE
 1670 KM RETRIEVE DLVOE
 1671 DR DLVOE
 *

1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1672 KK RDLVOE
 1673 KM ROUTE DLVOE TO CH-C1
 1674 KM FACILITY = OWENS AVENUE CHANNEL
 1675 KM FACILITY # = LVOE 0236,0331,0345
 1676 KM LINING = RCB
 1677 RD 7435 0.0133 0.015 0 TRAP 13 0
 *

1678 KK H-C1
 1679 BA 0.287
 1680 PB 2.77
 1681 LS 0 91.8
 1682 UD 0.270
 *

1683 KK CH-C1
 1684 KM COMBINE H-C AND RDLVOE
 1685 KM OWENS AND LAS VEGAS BLVD
 1686 HC 2
 *

1687 KK RCH-C1
 1688 KM ROUTE CH-C1 TO CE-C
 1689 KM FACILITY = OWENS AVENUE CHANNEL
 1690 KM FACILITY # = LVOE 0134
 1691 KM LINING = RCB
 1692 RD 5380 0.01 0.015 0 TRAP 12 0
 *

1693 KK E-C
 1694 BA 0.614
 1695 PB 2.77
 1696 LS 0 87.2
 1697 UD 0.395
 *

1698 KK CE-C
 1699 KM COMBINE RCH-C AND E-C
 1700 KM OWENS AND EASTERN
 1701 HC 2
 *

1702 KK RCE-C
1703 KM ROUTE CE-C TO CG
1704 KM FACILITY = OWENS AVENUE CHANNEL
1705 KM FACILITY # = LVOE 0085
1706 KM LINING = RCB
1707 RD 2540 0.0062 0.015 0 TRAP 13 0
*

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1708 KK G
1709 BA 0.233
1710 PB 2.77
1711 LS 0 84.2
1712 UD 0.422
*

1713 KK CG
1714 KM COMBINE RCE-C AND G
1715 KM OWENS AND STATZ
1716 HC 2
*

1717 KK RCG
1718 KM ROUTE CG TO CK-C1
1719 KM FACILITY = OWENS AVENUE CHANNEL
1720 KM FACILITY # = LVOE 0000
1721 KM LINING = RCB
1722 RD 4700 0.0047 0.015 0 TRAP 15 0
*

1723 KK K-C1
1724 BA 0.320
1725 PB 2.77
1726 LS 0 85.1
1727 UD 0.500
*

1728 KK CK-C1
1729 KM COMBINE RCG AND K-C1
1730 KM OWENS, AT LVMD 1354
1731 HC 2
*

1732 KK RCK-C1
1733 KM ROUTE CK-C1 TO CLVW01
1734 KM FACILITY = LAS VEGAS WASH MIDDLE
1735 KM FACILITY # = LVMD 1321
1736 KM LINING = CONCRETE
1737 RD 1950 0.004 0.015 0 TRAP 80 2
*

1738 KKCLVW01C
1739 KM COMBINE CLVW01-C AND RCRCK-C
1740 KM COMBINATION OF LAS VEGAS WASH FLOWS
1741 HC 2
*

1742 KKRCCLVW01
1743 KM ROUTE CLVW01C TO CCBN15-C
1744 KM FACILITY = LAS VEGAS WASH MIDDLE
1745 KM FACILITY # = LVMD 1179,1209,1230,1233,1271,1273
1746 KM LINING = CONCRETE
1747 RD 7445 0.004 0.015 0 TRAP 60 2
*

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1748 KM BASINS, ROUTES, ETC. BN06-C THROUGH CBN15-C LOCATED HERE IN MPU HEC-1
1749 KM AND CONTRIBUTING TO FACILITY LVBZ MOVED AND ROUTED SOUTH IN MARION AVE
1750 KM TO DISCHARGE INTO THE CEDAR AVENUE CHANNEL,
1751 KM THEREFORE,THE COMBINATION POINT THAT FOLLOWS IS NOT NEEDED.
* *****

1752 KM KKCCBN15-C
1753 KM KMCOMBINE RCCLVW01 AND CBN15-C
1754 KM KMLAS VEGAS WASH AND BONANZA
1755 KM HC2
*

1756 KKRCCLVW011
1757 KM ROUTE RCCLVW01 TO CCA10-C
1758 KM PREVIOUSLY: KKRCBN15-C
1759 KM PREVIOUSLY: ROUTE CCBN15-C TO CCA10-C
1760 KM FACILITY = LAS VEGAS WASH MIDDLE
1761 KM FACILITY # = LVMD 1149
1762 KM LINING = CONCRETE
1763 RD 1675 0.0041 0.015 0 TRAP 70 1.5
*

1764 KK CA03
1765 BA 0.345

1827 KKCCA08-C
 1828 KM ROUTE CCA08 TO CCA10-C
 1829 KM FACILITY = CEDAR AVENUE CHANNEL
 1830 KM FACILITY # = CACH 0000,0027,0029,0051,0053,0079
 1831 KM LINING = CONCRETE
 1832 RD 4386 0.0037 0.015 0 TRAP 10 0
 *

1833 KK CA10-C
 1834 BA 0.192
 1835 PB 2.77
 1836 LS 0 90.3
 1837 UD 0.433
 *

* *****
 1838 KM LVBZ BASINS MOVED HERE TO COMBINE WITH CACH
 1839 KM RTCBN15-C ADDED TO ROUTE THE BASINS COMBINED FLOW
 1840 KM SOUTH IN MARION TO CEDAR AVE CHANNEL
 * *****

1841 KK BN06-C
 1842 BA 0.340
 1843 PB 2.77
 1844 LS 0 89.3
 1845 UD 0.201
 *

1846 KK BN03-C
 1847 BA 0.415
 1848 PB 2.77
 1849 LS 0 87.3
 1850 UD 0.344
 *

1851 KK DBN03
 1852 KM RETREIVE DBN03
 1853 DR DBN03
 *

1854 KK RDBN03
 1855 KM ROUTE DBN03 TO CBN03
 1856 KM BONANZA
 1857 RD 5900 0.0264 0.016 0 TRAP 0 50
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1858 KK CBN03
 1859 KM COMBINE BN06-C, BN03-C, AND RDBN03
 1860 KM BONANZA AND EASTERN
 1861 HC 3
 *

1862 KK RCBN03
 1863 KM ROUTE CBN03 TO CBN08
 1864 KM FACILITY = LAS VEGAS WASH - BONANZA
 1865 KM FACILITY # = LVBZ 0211,0224
 1866 KM LINING = RCB
 1867 RD 2980 0.0072 0.015 0 TRAP 8 0
 *

1868 KK BN08
 1869 BA 0.210
 1870 PB 2.77
 1871 LS 0 91.8
 1872 UD 0.378
 *

1873 KK CBN08
 1874 KM COMBINE RCBN03 AND BN08
 1875 KM BONANZA AND MOJAVE
 1876 HC 2
 *

1877 KK RCBN08
 1878 KM ROUTE CBN08 TO CBN09
 1879 KM FACILITY = LAS VEGAS WASH - BONANZA
 1880 KM FACILITY # = LVBZ 0167, 0188
 1881 KM LINING = RCB
 1882 RD 2330 0.007 0.015 0 TRAP 9 0
 *

1883 KK BN09
 1884 BA 0.233
 1885 PB 2.77
 1886 LS 0 83.9
 1887 UD 0.411
 *

1888 KK CBN09
 1889 KM COMBINE RCBN08 AND BN09
 1890 KM BONANZA AND PECOS
 1891 HC 2

*
 1892 KK RCBN09
 1893 KM ROUTE CBN09 TO CBN10-C
 1894 KM FACILITY = LAS VEGAS WASH - BONANZA
 1895 KM FACILITY # = LVBZ 0114
 1896 KM LINING = RCB
 1897 RD 2740 0.004 0.015 0 TRAP 24 0
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1898 KK BN10-C
 1899 BA 0.257
 1900 PB 2.77
 1901 LS 0 88.8
 1902 UD 0.406
 *
 1903 KK CBN10-C
 1904 KM COMBINE RDCBN09 AND BN10-C
 1905 KM BONANZA AND SANDHILL
 1906 HC 2
 *

1907 KKRCBN10-C
 1908 KM ROUTE CBN10-C TO CBN12-C
 1909 KM FACILITY = LAS VEGAS WASH - BONANZA
 1910 KM FACILITY # = LVBZ 0064
 1911 KM LINING = RCB
 1912 RD 2630 0.004 0.015 0 TRAP 24 0
 *

1913 KK BN12-C
 1914 BA 0.323
 1915 PB 2.77
 1916 LS 0 87.4
 1917 UD 0.397
 *

1918 KK CBN12-C
 1919 KM COMBINE RCBN10-C AND BN12-C
 1920 KM BONANZA AND LAMB
 1921 HC 2
 *

1922 KKRCBN12-C
 1923 KM ROUTE CBN12-C TO CBN15-C
 1924 KM FACILITY = LAS VEGAS WASH - BONANZA
 1925 KM FACILITY # = LVBZ 0000
 1926 KM LINING = RCB
 1927 RD 3400 0.004 0.015 0 TRAP 24 0
 *

1928 KK BN15-C
 1929 BA 0.283
 1930 PB 2.77
 1931 LS 0 87.0
 1932 UD 0.414
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1933 KK CBN15-C
 1934 KM COMBINE RCBN12-C AND BN15-C
 1935 KM LAS VEGAS WASH AND BONANZA
 1936 HC 2
 *

1937 KKRTCBN15-C
 1938 KM ROUTE CBN15-C SOUTH IN MARION
 1939 KM TO CEDAR AVENUE CHANNEL
 1940 KM FACILITY = LAS VEGAS WASH - BONANZA
 1941 KM FACILITY # = LVBZ 0000
 1942 KM LINING = RCB
 1943 RD 1125 0.004 0.015 0 TRAP 24 0
 *

1944 KK CCA10-C
 1945 KM COMBINE RCCA08-C AND CA10-C
 1946 KM CEDAR AVE CHANNEL AND LAS VEGAS WASH
 1947 HC 3
 1948 KO 1
 *

1949 KKCCCA10-C
 1950 KM COMBINE RCBN15-C AND CCA10-C
 1951 KM CEDAR AVE. CHANNE AND LAS VEGAS WASH
 1952 HC 2
 *

1953 KKRCCA10C
 1954 KM ROUTE CCA10-C TO CCST03-C
 1955 KM FACILITY = LAS VEGAS WASH MIDDLE
 1956 KM FACILITY # = LVMD 1119,1121
 1957 KM LINING = CONCRETE
 1958 RD 1520 0.002 0.015 0 TRAP 90 1
 *

1959 KK ST01-C
 1960 BA 0.246
 1961 PB 2.77
 1962 LS 0 90.2
 1963 UD 0.478
 *

1964 KK RST01-C
 1965 KM ROUTE ST01-C TO CST03-C
 1966 KM STEWART
 1967 RD 4700 0.0032 0.016 0 TRAP 0 50
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1968 KK ST03-C
 1969 BA 0.221
 1970 PB 2.77
 1971 LS 0 89.4
 1972 UD 0.511
 *

1973 KK CST03-C
 1974 KM COMBINE RST01-C AND ST03-C
 1975 KM STEWART AND LAS VEGAS WASH
 1976 HC 2
 *

1977 KKCST03-C
 1978 KM COMBINE RCCA10C AND CST03-C
 1979 KM STEWART AND LAS VEGAS WASH
 1980 HC 2
 *

1981 KKRCCST03C
 1982 KM ROUTE CCST03-C TO CCCH77-C
 1983 KM FACILITY = LAS VEGAS WASH MIDDLE
 1984 KM FACILITY # = LVMD 1069,1071
 1985 KM LINING = CONCRETE
 1986 RD 2707 0.0043 0.015 0 TRAP 90 1.5
 *

1987 KK CH70-C
 1988 BA 0.260
 1989 PB 2.77
 1990 LS 0 90.5
 1991 UD 0.435
 *

1992 KK CH73
 1993 BA 0.141
 1994 PB 2.77
 1995 LS 0 90.9
 1996 UD 0.140
 *

1997 KK CCH73-C
 1998 KM COMBINE CH70-C AND CH73
 1999 KM CHARLESTON AND US 95
 2000 HC 2
 *

2001 KK RCH73
 2002 KM ROUTE CCH73 TO CCH75-C
 2003 KM CHARLESTON
 2004 RD 3300 0.0061 0.016 0 TRAP 0 50
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2005 KK CH75-C
 2006 BA 0.356
 2007 PB 2.77
 2008 LS 0 90.3
 2009 UD 0.517
 *

2010 KK CCH75-C
 2011 KM COMBINE RCH73 AND CH75-C
 2012 KM LAMB AND CHARLESTON
 2013 HC 2
 *

2014	KK	CH76							
2015	BA	0.138							
2016	PB	2.77							
2017	LS	0	92.6						
2018	UD	0.339							
	*								
2019	KK	CCH76							
2020	KM	COMBINE CH76 AND CCH75-C							
2021	KM	LAMB AND CHARLESTON							
2022	HC	2							
	*								
2023	KK	RCCH76							
2024	KM	ROUTE CCH76 TO CCH77-C							
2025	KM	FACILITY = LAS VEGAS WASH - CHARLESTON							
2026	KM	FACILITY # = LVCA 0000							
2027	KM	LINING = RCB							
2028	RD	4600 0.003 0.015 0 TRAP 12 0							
	*								
2029	KK	CH77-C							
2030	BA	0.448							
2031	PB	2.77							
2032	LS	0	90.1						
2033	UD	0.517							
	*								
2034	KK	CCH77-C							
2035	KM	COMBINE RCCH76 AND CH77-C							
2036	KM	CHARLESTON FLOW @ LAS VEGAS WASH							
2037	HC	2							
	*								
2038	KK	CCH77-C							
2039	KM	COMBINE RCCST03C AND CCH77-C							
2040	KM	CHARLESTON BLVD @ LAS VEGAS WASH							
2041	HC	2							
	*								

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2042	KK	RCCCH73							
2043	KM	ROUTE CCCH73 TO CCNEL06							
2044	KM	FACILITY = LAS VEGAS WASH MIDDLE							
2045	KM	FACILITY # = LVMD 1054							
2046	KM	LINING = CONCRETE							
2047	RD	860 0.005 0.015 0 TRAP 120 0							
	*								
2048	KK	CH91-C							
2049	BA	0.128							
2050	PB	2.77							
2051	LS	0	94.2						
2052	UD	0.257							
	*								
2053	KK	RCH91-C							
2054	KM	ROUTE CH91-C TO CCH92-C							
2055	KM	COLORADO AVENUE							
2056	RD	4100 0.0134 0.016 0 TRAP 0 50							
	*								
2057	KK	CH92-C							
2058	BA	0.223							
2059	PB	2.77							
2060	LS	0	89.7						
2061	UD	0.336							
	*								
2062	KK	CCH92-C							
2063	KM	COMBINE RCH91-C AND CH92-C							
2064	KM	COLORADO AND US 95							
2065	HC	2							
	*								
2066	KK	RCH92-C							
2067	KM	ROUTE CCH92-C TO CCH94							
2068	KM	FACILITY = COLORADO AVENUE SYSTEM							
2069	KM	FACILITY # = LVCO 0106,0109							
2070	KM	LINING = RCB							
2071	RD	2941 0.0067 0.015 0 TRAP 10 0							
	*								
2072	KK	CH93							
2073	BA	0.266							
2074	PB	2.77							
2075	LS	0	88.0						
2076	UD	0.344							
	*								

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2077 KK RCH93
 2078 KM ROUTE CH93 TO CCH94
 2079 KM WYOMING
 2080 RD 3800 0.004 0.016 0 TRAP 0 50
 *

2081 KK CH94
 2082 BA 0.363
 2083 PB 2.77
 2084 LS 0 84.0
 2085 UD 0.522
 *

2086 KK CCH94
 2087 KM COMBINE RCH93 AND CH94
 2088 KM COLORADO AND LAMB
 2089 HC 2
 *

2090 KK CCCH94
 2091 KM COMBINE RCH92-C AND CCH94
 2092 KM COLORADO AND LAMB
 2093 HC 2
 *

2094 KK RCCCH94
 2095 KM ROUTE CCH94 TO CNEL06
 2096 KM FACILITY = COLORADO AVENUE SYSTEM
 2097 KM FACILITY # = LVCO 0000,0012,0064
 2098 KM LINING = RCB
 2099 RD 5344 0.0024 0.015 0 TRAP 10 0
 *

2100 KK NEL06-C
 2101 BA 0.323
 2102 PB 2.77
 2103 LS 0 88.2
 2104 UD 0.483
 *

2105 KK CNEL06
 2106 KM COMBINE RCCH94 AND NEL06
 2107 KM COLORADO AVE. STORM DRAIN FLOW @ LAS VEGAS WASH
 2108 HC 2
 *

2109 KK CCNEL06
 2110 KM COMBINE RCCNEL04 AND CNEL06
 2111 KM LAS VEGAS WASH AND COLORADO AVE.
 2112 HC 2
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2113 KK DSAHARA
 2114 KM RETRIEVE DSAHARA
 2115 DR DSAHARA
 *

2116 KK RDSAHARA
 2117 KM ROUTE DSAHARA TO CSA10-1
 2118 KM FACILITY = BOULDER HIGHWAY - SAHARA AVENUE
 2119 KM FACILITY # = BHSA 0331
 2120 KM LINING = RCB
 2121 RD 2000 0.01 0.015 0 TRAP 14 0
 *

2122 KK SA10-2
 2123 BA 0.204
 2124 PB 2.77
 2125 LS 0 91.9
 2126 UD 0.633
 *

2127 KK SA10-1
 2128 BA 0.277
 2129 PB 2.77
 2130 LS 0 92.6
 2131 UD 0.611
 *

2132 KK CSA10-1
 2133 KM COMBINE RDSAHARA, SA10-1, AND SA10-2
 2134 KM NEAR SAHARA AND UPRR
 2135 HC 3
 *

2136 KK RCSA10-1
 2137 KM ROUTE CSA10-1 TO CSA11
 2138 KM FACILITY = BOULDER HIGHWAY - SAHARA AVENUE
 2139 KM FACILITY # = BHSA 0289

2140	KM	LINING = RCB						
2141	RD	2300	0.0087	0.015	0	TRAP	14	0
	*							
2142	KK	SA11						
2143	BA	0.395						
2144	PB	2.77						
2145	LS	0	94.9					
2146	UD	0.511						
	*							
2147	KK	CSA11						
2148	KM	COMBINE RCSA10 AND SA11						
2149	KM	SAHARA AND LAS VEGAS BLVD						
2150	HC	2						
	*							

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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2151	KK	RCSA11						
2152	KM	ROUTE CSA11 TO CSA13						
2153	KM	FACILITY = BOULDER HIGHWAY - SAHARA AVENUE						
2154	KM	FACILITY # = BHSA 0175						
2155	KM	LINING = RCB						
2156	RD	6000	0.0067	0.015	0	TRAP	14	0
	*							
2157	KK	SA13-C						
2158	BA	0.379						
2159	PB	2.77						
2160	LS	0	94.3					
2161	UD	0.606						
	*							
2162	KK	CSA13						
2163	KM	COMBINE RCSA11 AND SA13-C						
2164	KM	MARYLAND PARKWAY AND SAHARA						
2165	HC	2						
	*							
2166	KK	RCSA13						
2167	KM	ROUTE CSA13 TO CSA14						
2168	KM	FACILITY = BOULDER HIGHWAY - SAHARA AVENUE						
2169	KM	FACILITY # = BHSA 0075						
2170	KM	LINING = RCB						
2171	RD	5280	0.0211	0.015	0	TRAP	12	0
	*							
2172	KK	SA14						
2173	BA	0.245						
2174	PB	2.77						
2175	LS	0	91.4					
2176	UD	0.489						
	*							
2177	KK	CSA14						
2178	KM	COMBINE RCSA13 AND SA14						
2179	HC	2						
	*							
2180	KK	FR01						
2181	BA	0.300						
2182	PB	2.77						
2183	LS	0	91.8					
2184	UD	0.439						
	*							
2185	KK	RFR01						
2186	KM	ROUTE FR01 TO CFR02						
2187	KM	ST. LOUIS						
2188	RD	5400	0.0204	0.016	0	TRAP	0	50
	*							

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LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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2189	KK	FR02						
2190	BA	0.357						
2191	PB	2.77						
2192	LS	0	87.5					
2193	UD	0.369						
	*							
2194	KK	CFR02						
2195	KM	COMBINE RFR01 AND FR02						
2196	KM	ST. LOUIS AND EASTERN						
2197	HC	2						
	*							
2198	KK	RCFR02						
2199	KM	ROUTE CFR02 TO CCSA14						
2200	KM	FACILITY = SAHARA AVENUE - EASTERN LATERAL						

2201 KM FACILITY # = SAEA 0000
 2202 KM LINING = RCB
 2203 RD 1440 0.002 0.015 0 TRAP 10 0
 *

2204 KK CCSA14
 2205 KM COMBINE CSA14 AND RCFR02
 2206 KM SAHARA AND EASTERN
 2207 HC 2
 *

2208 KK RCCSA14
 2209 KM ROUTE CCSA14 TO CSA16
 2210 KM FACILITY = BOULDER HIGHWAY - SAHARA AVENUE
 2211 KM FACILITY # = BHSA 0026
 2212 KM LINING = RCB
 2213 RD 4000 0.013 0.015 0 TRAP 14 0
 *

2214 KK SA16
 2215 BA 0.184
 2216 PB 2.77
 2217 LS 0 90.4
 2218 UD 0.351
 *

2219 KK CSA16
 2220 KM COMBINE RCSA14 AND SA16
 2221 KM SAHARA AND MOJAVE
 2222 HC 2
 *

2223 KK RCSA16
 2224 KM ROUTE CSA16 TO CFR03
 2225 KM FACILITY = BOULDER HIGHWAY - SAHARA AVENUE
 2226 KM FACILITY # = BHSA 0000
 2227 KM LINING = RCB
 2228 RD 1350 0.0079 0.015 0 TRAP 14 0
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2229 KK CH51
 2230 BA 0.237
 2231 PB 2.77
 2232 LS 0 92.5
 2233 UD 0.467
 *

2234 KK RCH51
 2235 KM ROUTE CH51 TO CCH52
 2236 KM FACILITY = FLAMINGO - BOULDER NORTH
 2237 KM FACILITY # = FLBN 0342
 2238 KM LINING = RCB
 2239 RD 4300 0.0042 0.015 0 TRAP 7 0
 *

2240 KK CH52-C
 2241 BA 0.311
 2242 PB 2.77
 2243 LS 0 94.8
 2244 UD 0.389
 *

2245 KK CCH52
 2246 KM COMBINE RCH51 AND CH52-C
 2247 KM CHARLESTON AND LAS VEGAS BLVD
 2248 HC 2
 *

2249 KK RCCH52
 2250 KM ROUTE CCH52 TO CCH56
 2251 KM FACILITY = FLAMINGO - BOULDER NORTH
 2252 KM FACILITY # = FLBN 0281
 2253 KM LINING = RCB
 2254 RD 3100 0.0133 0.015 0 TRAP 10 0
 *

2255 KK CH56-C
 2256 BA 0.347
 2257 PB 2.77
 2258 LS 0 90.7
 2259 UD 0.442
 *

2260 KK DFLAM
 2261 KM RETRIEVE DFLAM
 2262 DR DFLAM
 *

2263 KK RDFLAM
 2264 KM ROUTE DFLAM TO CCH60A-C
 2265 KM FACILITY = FLAMINGO - MARYLAND PARKWAY

2266 KM FACILITY # = FLMP 0000
 2267 KM LINING = RCB
 2268 RD 5300 0.0049 0.015 0 TRAP 8 0
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2269 KK CH60A-C
 2270 BA 0.410
 2271 PB 2.77
 2272 LS 0 91.9
 2273 UD 0.276
 *

2274 KKCCCH60A-C
 2275 KM COMBINE RDFLAM AND CH60A-C
 2276 HC 2
 *

2277 KK CCH56
 2278 KM COMBINE RCCH52, CH56-C, AND CCH60A-C
 2279 KM MARYLAND PARKWAY AND CHARLESTON
 2280 HC 3
 *

2281 KK RCCH56
 2282 KM ROUTE CCH56 TO CCH63-C
 2283 KM FACILITY = FLAMINGO - BOULDER NORTH
 2284 KM FACILITY # = FLBN 0205
 2285 KM LINING = RCB
 2286 RD 4000 0.023 0.015 0 TRAP 10 0
 *

2287 KK CH63-C
 2288 BA 0.232
 2289 PB 2.77
 2290 LS 0 90.1
 2291 UD 0.350
 *

2292 KK CCH63-C
 2293 KM COMBINE RCCH56 AND CH63-C
 2294 KM CHARLESTON AND BURNHAM
 2295 HC 2
 *

2296 KK RCCH63
 2297 KM ROUTE CCH63-C TO CCCH67-C
 2298 KM FACILITY = FLAMINGO - BOULDER NORTH
 2299 KM FACILITY # = FLBN 0180
 2300 KM LINING = RCB
 2301 RD 1300 0.0131 0.015 0 TRAP 20 0
 *

2302 KK CH64-C
 2303 BA 0.297
 2304 PB 2.77
 2305 LS 0 89.9
 2306 UD 0.544
 *

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

2307 KK RCH64
 2308 KM ROUTE CH64 TO CCH67-C
 2309 KM OAKLEY TO EASTERN
 2310 RD 6500 0.018 0.016 0 TRAP 0 50
 *

2311 KK CH67-C
 2312 BA 0.372
 2313 PB 2.77
 2314 LS 0 85.6
 2315 UD 0.441
 *

2316 KK CCH67-C
 2317 KM COMBINE RCH64 AND CH67-C
 2318 HC 2
 *

2319 KKCCCH67-C
 2320 KM COMBINE RCCH63 AND CCH67-C
 2321 KM CHARLESTON AND EASTERN
 2322 HC 2
 *

2323 KKRCCCH67C
 2324 KM ROUTE CCCH67-C TO CCH68-C
 2325 KM FACILITY = FLAMINGO - BOULDER NORTH
 2326 KM FACILITY # = FLBN 0167

2327	KM	LINING = RCB						
2328	RD	700	0.0114	0.015	0	TRAP	20	0
	*							
2329	KK	CH68						
2330	BA	0.315						
2331	PB	2.77						
2332	LS	0	90.0					
2333	UD	0.301						
	*							
2334	KK	CCH68-C						
2335	KM	COMBINE RCCCH67-C AND CH68						
2336	KM	CHARLESTON AND BOULDER HIGHWAY						
2337	HC	2						
	*							
2338	KK	KRCCH68-C						
2339	KM	ROUTE CCH68-C TO CFR04						
2340	KM	FACILITY = FLAMINGO - BOULDER NORTH						
2341	KM	FACILITY # = FLBN 0038						
2342	KM	LINING = RCB						
2343	RD	5300	0.0059	0.015	0	TRAP	15	0
	*							

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HEC-1 INPUT

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LINE	ID	1	2	3	4	5	6	7	8	9	10	
2344	KK	FR04-C										
2345	BA	0.340										
2346	PB	2.77										
2347	LS	0	88.5									
2348	UD	0.277										
	*											
2349	KK	CFR04										
2350	KM	COMBINE RCCH68-C AND FR04-C										
2351	KM	BOULDER HIGHWAY AND ST. LOUIS										
2352	HC	2										
	*											
2353	KK	RCFR04										
2354	KM	ROUTE CFR04 TO CFR03										
2355	KM	FACILITY = FLAMINGO - BOULDER NORTH										
2356	KM	FACILITY # = FLBN 0038										
2357	KM	LINING = RCB										
2358	RD	1300	0.0059	0.015	0	TRAP	15	0				
	*											
2359	KK	FR03										
2360	BA	0.260										
2361	PB	2.77										
2362	LS	0	86.6									
2363	UD	0.336										
	*											
2364	KK	CFR03										
2365	KM	COMBINE RCFR04 AND FR03										
2366	KM	BOULDER HIGHWAY AND SAHARA										
2367	HC	2										
	*											
2368	KK	CCFR03										
2369	KM	COMBINE RCSA06 AND CFR03										
2370	KM	BOULDER HIGHWAY AND SAHARA										
2371	HC	2										
	*											
2372	ZZ											

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT	(V) ROUTING	(--->) DIVERSION OR PUMP FLOW
LINE	(.) CONNECTOR	(<---) RETURN OF DIVERTED OR PUMPED FLOW
NO.		
57	FW01	
	V	
	V	
70	RFW1	
	.	
	.	
74	.	FW02
	.	.
	.	.
79	CFW2.....	
	V	
	V	
83	RCFW2	
	.	
	.	
87	.	FW03
	.	.
	.	.
92	CFW3.....	

96	V			
	V			
	RCFW3			
	.			
102	.	FW5		
	.			
107	CFW5	.....		
	.			
115	----->	DFW11		
111	DFW5			
	V			
	V			
118	RDFW5			
	.			
124	.	CE2EA-C		
	.	V		
	.	V		
129	.	RCE2EA		
	.			
133	.		R4C1	
	.			
138	CR4C1	.....		
	V			
	V			
142	RCR4C1			
	.			
148	.	CE2EC		
	.	V		
	.	V		
153	.	RCE2EC		
	.			
157	.		CE2ED-C	
	.			
162	.	CCE2ED-C	.....	
	.			
171	.	----->	DCPS03	
166	.	DCCE2ED		
	.	V		
	.	V		
174	.	RDCCE2ED		
	.			
178	.		CE3FA	
	.			
183	CCE3FA	.....		
	V			
	V			
187	RCCE3FA			
	.			
193	.	PS01-C		
	.	V		
	.	V		
198	.	RPS01-C		
	.			
204	.		PS03	
	.			
209	.	CPS03	.....	
	.			
213	.		ED01	
	.		V	
	.		V	
218	.		RED01	
	.			
222	.			ED02
	.			
227	.			ED11
	.			
232	.			ED12
	.			
237	.			
	.		CED12	.....
	.		V	
	.		V	
241	.		RCED12	
	.			
245	.			ED13

```

250      .          .          .          .          .          CED13 .....
        .          .          .          .          V          V
254      .          .          .          .          .          RCED13
        .          .          .          .          .          .
260      .          .          .          .          .          .
        .          .          .          .          V          V
264      .          .          .          .          .          RCED02
        .          .          .          .          .          .
272      .          .          .          .          .          .
270      .          .          .          .          .          DCPS03
        .          .          .          .          .          V
273      .          .          .          .          .          RDPS03
        .          .          .          .          .          V
277      .          .          .          .          .          .
        .          .          .          .          .          CCPS03
        .          .          .          .          .          V
281      .          .          .          .          .          RCCPS03
        .          .          .          .          .          .
287      .          .          .          .          .          PS06-C
        .          .          .          .          .          .
292      .          .          .          .          .          CPS06
        .          .          .          .          .          .
296      .          .          .          .          .          CCPS06
        .          .          .          .          .          V
300      .          .          .          .          .          RCCPS06
        .          .          .          .          .          .
306      .          .          .          .          .          FW09
        .          .          .          .          .          .
314      .          .          .          .          .          .
311      .          .          .          .          .          DSPM
        .          .          .          .          .          V
317      .          .          .          .          .          RDSPM
        .          .          .          .          .          V
322      .          .          .          .          .          CE3FD-C
        .          .          .          .          .          .
327      .          .          .          .          .          CCE3FD-C
        .          .          .          .          .          V
331      .          .          .          .          .          RCCE3FD
        .          .          .          .          .          V
337      .          .          .          .          .          CRCPS06
        .          .          .          .          .          V
341      .          .          .          .          .          RCRCP06
        .          .          .          .          .          .
347      .          .          .          .          .          PS08
        .          .          .          .          .          .
352      .          .          .          .          .          CPS08
        .          .          .          .          .          .
356      .          .          .          .          .          ED05-C
        .          .          .          .          .          V
361      .          .          .          .          .          RED05-C
        .          .          .          .          .          V
365      .          .          .          .          .          CCPS08
        .          .          .          .          .          V
369      .          .          .          .          .          RCCPS08
        .          .          .          .          .          .
375      .          .          .          .          .          ED10-C
        .          .          .          .          .          .
380      .          .          .          .          .          CED10-C
        .          .          .          .          .          V
384      .          .          .          .          .          RCED10-C
        .          .          .          .          .          V
390      .          .          .          .          .          SA06-C
        .          .          .          .          .          V
395      .          .          .          .          .          RSA06-C

```

401	.	.	SA08
406	.	CSA08.....	.
410	CCSA08.....	.	.
418	----->	DSAHARA	.
414	DCCSA08	.	.
	V	.	.
421	RCCSA08	.	.
427	.	CH14-C	.
	.	V	.
432	.	RCH14-C	.
436	.	.	OK09-C
441	.	COK09-C.....	.
	.	V	.
445	.	RCOK09-C	.
451	.	.	OK10
456	.	COK10.....	.
	.	V	.
460	.	RCOK10	.
466	.	.	OK11-C
471	.	1COK11C.....	.
475	COK11C.....	.	.
	V	.	.
479	RCOK11C	.	.
485	.	WAL1	.
	.	V	.
490	.	RWAL1	.
494	.	.	WAL2
499	.	CWAL2.....	.
502	CCWAL2.....	.	.
	V	.	.
506	RCCWAL2	.	.
512	.	CH50	.
517	CCH50.....	.	.
521	.	CH15-C	.
	.	V	.
526	.	RCH15-C	.
530	.	.	CH18-C
535	.	CCH18-C.....	.
	.	V	.
539	.	RCCH18-C	.
545	.	.	AL92

554	.	.	.	----->	DAL93
550	.	.	DAL92		
	.	.	V		
	.	.	V		
557	.	.	RDAL92		
	.	.	.		
561	.	.	.		AL95-C
	.	.	.		
566	.	.	CAL95	.....	
	.	.	V		
	.	.	V		
570	.	.	RCAL95-C		
	.	.	.		
576	.	CCCH18-C	.....		
	.	.	V		
	.	.	V		
580	.	RCCCH18C			
	.	.	.		
586	.	.	CH22-C		
	.	.	.		
591	.	CCH22	.....		
	.	.	.		
595	CCCH22	.....			
	.	V			
	.	V			
599	RCCCH22				
	.	.	.		
605	.	AL96-C			
	.	.	.		
610	CAL96	.....			
	.	V			
	.	V			
614	RCAL96				
	.	.	.		
622	.	.	.	-----<	DAL93
620	.	DAL93			
	.	V			
	.	V			
623	.	RDAL93			
	.	.	.		
627	.	.	AL93-C		
	.	.	.		
632	CAL93	.....			
	.	.	.		
636	.	1-GOLF			
	.	V			
	.	V			
641	.	R1-GOLF			
	.	.	.		
645	.	.	2a-OAK-C		
	.	.	.		
650	.	C2a-OAK	.....		
	.	V			
	.	V			
654	.	RC2a-OAK			
	.	.	.		
658	.	.	3-ELP-C		
	.	.	.		
663	.	C3-ELP-C	.....		
	.	V			
	.	V			
667	.	RC3-ELPC			
	.	.	.		
673	.	.	3a-OAK-C		
	.	.	.		
678	.	C3a-OAKC	.....		
	.	V			
	.	V			
682	.	RC3aOAKC			
	.	.	.		
688	.	.	3-HOLM-C		
	.	.	V		
	.	.	V		
693	.	R3-HOLMC			
	.	.	.		

699	.	.	.	5-OAK-C
	.	.	.	.
704	.	.	C5-OAK-C.....	.
	.	.	.	.
708	.	OAKEYIN.....	.	.
	.	V	.	.
	.	V	.	.
712	.	OAKEYDB	.	.
	.	V	.	.
	.	V	.	.
732	.	OAKEYOT	.	.
	.	.	.	.
738	.	.	SA01-C	.
	.	.	V	.
	.	.	V	.
743	.	.	RSA01-C	.
	.	.	.	.
747	.	.	.	SA05
	.	.	.	.
752	.	.	CSA05.....	.
	.	.	V	.
	.	.	V	.
756	.	.	RCSA05	.
	.	.	.	.
762	.	.	.	SA06
	.	.	.	.
767	.	.	CSA06.....	.
	.	.	.	.
771	.	.	.	OK06-C
	.	.	.	V
	.	.	.	V
776	.	.	.	ROK06-C
	.	.	.	.
780	.	.	.	OK07
	.	.	.	.
785	.	.	COK07.....	.
	.	.	V	.
	.	.	V	.
789	.	.	RCOK07	.
	.	.	.	.
795	.	.	.	OK03-C
	.	.	.	V
	.	.	.	V
800	.	.	.	ROK03-C
	.	.	.	.
804	.	.	.	OK04-C
	.	.	.	.
809	.	.	COK04-C.....	.
	.	.	V	.
	.	.	V	.
813	.	.	RCOK04-C	.
	.	.	.	.
819	.	.	.	OK08
	.	.	.	.
824	.	.	COK08.....	.
	.	.	.	.
828	.	CCOK08.....	.	.
	.	V	.	.
	.	V	.	.
832	.	RCCOK08	.	.
	.	.	.	.
838	.	.	CH04-C	.
	.	.	V	.
	.	.	V	.
843	.	.	RCH04-C	.
	.	.	.	.
849	.	.	.	CH05-C
	.	.	.	.
854	.	.	CCH05-C.....	.
	.	.	V	.
	.	.	V	.
858	.	.	RCCH05-C	.
	.	.	.	.
864	.	.	.	CH09-C

869	.	.	.	.
	.	.	CCH09-C.....	.
	.	.	V	.
	.	.	V	.
873	.	.	RCCH09-C	.
	.	.	.	.
879	.	.	.	CH10
	.	.	.	.
884	.	.	CCH10.....	.
	.	.	V	.
	.	.	V	.
888	.	.	RCCH10	.
	.	.	.	.
894	.	.	.	OK12
	.	.	.	.
899	.	.	COK12.....	.
	.	.	V	.
	.	.	V	.
903	.	.	RCOK12	.
	.	.	.	.
909	.	.	CH14B	.
	.	.	.	.
914	.	.	CCH14B.....	.
	.	.	V	.
	.	.	V	.
918	.	.	RCCH14B	.
	.	.	.	.
924	.	.	OK13	.
	.	.	.	.
929	.	.	COK13.....	.
	.	.	V	.
	.	.	V	.
933	.	.	RCOK13	.
	.	.	.	.
939	.	.	R1	.
	.	.	V	.
	.	.	V	.
944	.	.	PR1	.
	.	.	V	.
	.	.	V	.
953	.	.	RPR1	.
	.	.	.	.
957	.	.	.	R3
	.	.	.	.
962	.	.	.	R2
	.	.	.	.
967	.	.	CR2.....	.
	.	.	.	.
975	.	.	-----> DAL00A	.
971	.	.	DCR2	.
	.	.	V	.
	.	.	V	.
978	.	.	RDCR2	.
	.	.	.	.
984	.	.	.	AL01A
	.	.	.	.
989	.	.	CAL01A.....	.
	.	.	V	.
	.	.	V	.
993	.	.	RCAL01A	.
	.	.	.	.
999	.	.	.	US
	.	.	.	.
1004	.	.	CUS.....	.
	.	.	.	.
1008	.	.	.	AL04-C
	.	.	.	V
	.	.	.	V
1013	.	.	.	RAL04-C
	.	.	.	.
1019	.	.	CCUS.....	.
	.	.	V	.
	.	.	V	.
1023	.	.	RCCUS	.
	.	.	.	.

1029	.	.	.	AL05-C	.
1034	.	.	.	.	GS
1043	.	.	.	.	.
1039	.	.	.	DGS	-----> DGSR
1046	.	.	CAL05-C	.....	.
	.	.	V		.
1050	.	.	RCAL05-C		.
1056	.	.	.	BR3	.
1061	.	.	CBR3	.....	.
	.	.	V		.
1065	.	.	RCBR3		.
1071	.	.	.	AL09-C	.
	.	.	.	V	.
1076	.	.	.	RAL09-C	.
1082	.	.	.	.	.
1080	.	.	.	DGSR	<----- DGSR
	.	.	.	V	.
1083	.	.	.	RDGSR	.
	.	.	.	.	.
1087	.	.	.	.	AL11-C
	.	.	.	.	.
1092	.	.	CAL11-C	.....	.
	.	.	V		.
1096	.	.	RCAL11-C		.
1102	.	.	.	AL10-C	.
1107	.	.	CAL10-C	.....	.
	.	.	V		.
1111	.	.	RCAL10-C		.
1117	.	.	.	AL13-3	.
1122	.	.	CAL13-3	.....	.
1126	.	.	.	AL14	.
	.	.	.	V	.
1131	.	.	.	RAL14	.
1135	.	.	.	.	AL16
1140	.	.	1CAL16	.....	.
1144	.	.	.	AL09	.
	.	.	.	V	.
1149	.	.	.	RAL09	.
1153	.	.	.	.	CH14A
1158	.	.	.	CCH14A	.....
	.	.	.	V	.
1162	.	.	.	RCCH14A	.
1168	.	.	CAL16	.....	.
	.	.	V		.
1172	.	.	RCAL16		.

1178	.	CCAL16.....	.
	.	V	.
	.	V	.
1182	.	RCCAL16	.
	.	.	.
1188	.	AL90-C	.
	.	.	.
1193	.	CAL90-C.....	.
	.	V	.
	.	V	.
1196	.	RCAL90-C	.
	.	.	.
1202	.	MEDB	.
	.	.	.
1207	.	MEADOWIN.....	.
	.	V	.
	.	V	.
1211	.	MEADOWDB	.
	.	V	.
	.	V	.
1234	.	MEADOWOT	.
	.	.	.
1242	.	.	<----- DAL00A
1240	.	DAL00A	.
	.	V	.
	.	V	.
1243	.	RDAL00A	.
	.	.	.
1249	.	AL00A	.
	.	.	.
1254	.	.	AL00A-C
	.	.	.
1259	.	RAINBWIN.....	.
	.	V	.
	.	V	.
1263	.	RAINBWDB	.
	.	V	.
	.	V	.
1285	.	RAINBWOT	.
	.	.	.
1291	.	LC01-C	.
	.	.	.
1296	.	CLC01-C.....	.
	.	V	.
	.	V	.
1300	.	RCLC01-C	.
	.	.	.
1306	.	WA02-C	.
	.	.	.
1311	.	CWA02-C.....	.
	.	.	.
1315	.	AL01B-C	.
	.	.	.
1320	.	CCWA02-C.....	.
	.	V	.
	.	V	.
1324	.	RCCWA02C	.
	.	.	.
1330	.	LC11-C	.
	.	.	.
1335	.	CLC11-C.....	.
	.	V	.
	.	V	.
1339	.	RCLC11-C	.
	.	.	.
1345	.	LC14-C	.
	.	.	.
1350	.	CLC14-C.....	.
	.	.	.
1354	.	WA10-C	.
	.	.	.
1363	.	.	-----> WA10NW
1359	.	WA10D	.
	.	V	.

1366	.	.	.	V	
	.	.	.	RWA10D	
1372	.	.	.	CCLC14-C	.....
	.	.	.	V	
	.	.	.	V	
1376	.	.	.	RCCLC14	
	.	.	.		
1382	.	.	.	CRMEDET	.....
	.	.	.	V	
	.	.	.	V	
1386	.	.	.	RCRMEDET	
	.	.	.		
1392	.	.	.	LC16-C	
	.	.	.		
1397	.	.	.	OG011AC2	
	.	.	.		
1406	.	.	.		-----> OG011D
1402	.	.	.	OG011AD	
	.	.	.	V	
	.	.	.	V	
1409	.	.	.	ROG011AD	
	.	.	.		
1413	.	.	.		WA01-C
	.	.	.		
1418	.	.	.	CWA01-C	.....
	.	.	.	V	
	.	.	.	V	
1422	.	.	.	RWA01	
	.	.	.		
1426	.	.	.		WA04-C
	.	.	.		
1431	.	.	.	CWA04-C	.....
	.	.	.	V	
	.	.	.	V	
1435	.	.	.	RCWA04	
	.	.	.		
1441	.	.	.		WA09-C
	.	.	.		
1446	.	.	.	CWA09-C	.....
	.	.	.	V	
	.	.	.	V	
1450	.	.	.	RCWA09	
	.	.	.		
1458	.	.	.		<----- WA10NW
1456	.	.	.	WA10NW	
	.	.	.		
1459	.	.	.	CWA10NW	.....
	.	.	.	V	
	.	.	.	V	
1463	.	.	.	RCWA10NW	
	.	.	.		
1469	.	.	.		WA13-C
	.	.	.		
1474	.	.	.	CWA13-C	.....
	.	.	.		
1481	.	.	.		-----> WA13NW
1478	.	.	.	WA13D	
	.	.	.	V	
	.	.	.	V	
1484	.	.	.	RWA13D	
	.	.	.		
1490	.	.	.	CLC16-C	
	.	.	.		
1494	.	.	.	CCLC16-C	
	.	.	.	V	
	.	.	.	V	
1498	.	.	.	RCCLC16	
	.	.	.		
1504	.	.	.	LC20-C	
	.	.	.		
1509	.	.	.	CLC20-C	
	.	.	.	V	
	.	.	.	V	
1513	.	.	.	RCLC20-C	

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      .
1519  CCAL93.....
      V
      V
1523  RCCAL93
      .
      .
1529          LC21
      .
      .
1534  CLC21.....
      .
      .
1542          ----->  DLVOE
1538  DCLC21
      V
      V
1545  RDCLC21
      .
      .
1551          V1-C
      .
      .
1556          CH59-C
      .
1566          .----->  DFLAM
1561          DCH59-C
      .
      .
1573          .----->  DBN03
1569          DDCH59-C
      V
      V
1576          RDDCH59
      .
      .
1581  CV1-C.....
      V
      V
1585  RCV1-C
      .
      .
1591          X-C1
      .
      .
1596  CX-C1.....
      V
      V
1600  RCX-C1
      .
      .
1606          M
      V
      V
1611          RM
      .
      .
1615          N-C
      .
      .
1620  CN-C.....
      V
      V
1624  RCN-C
      .
      .
1630          P-C
      .
      .
1635  CP-C.....
      V
      V
1639  RCP-C
      .
      .
1645          Q-C
      .
      .
1650  CQ-C.....
      V
      V
1654  RCQ-C
      .
      .
1660          LVW01-C
      .
      .
1665  CLVW01-C.....
      .
      .
1671          .<-----  DLVOE
1669          DLVOE
      V
      .

```

1672	.	V	
	.	RDLV0E	
1678	.	.	H-C1
	.	.	.
1683	.	CH-C1	.....
	.	V	
	.	V	
1687	.	RCH-C1	
	.	.	
1693	.	.	E-C
	.	.	.
1698	.	CE-C	.....
	.	V	
	.	V	
1702	.	RCE-C	
	.	.	
1708	.	.	G
	.	.	.
1713	.	CG	.....
	.	V	
	.	V	
1717	.	RCG	
	.	.	
1723	.	.	K-C1
	.	.	.
1728	.	CK-C1	.....
	.	V	
	.	V	
1732	.	RCK-C1	
	.	.	
1738	CCLVW01C	.....	
	.	V	
	.	V	
1742	RCCLVW01		
	.	V	
	.	V	
1756	RCCLVW01		
	.	.	
1764	.	CA03	
	.	V	
	.	V	
1769	.	RCA03	
	.	.	
1773	.	.	CA04-C
	.	.	.
1778	.	CCA04	.....
	.	V	
	.	V	
1782	.	RCCA04	
	.	.	
1788	.	.	CA05
	.	.	.
1793	.	CCA05	.....
	.	V	
	.	V	
1797	.	RCCA05	
	.	.	
1803	.	.	CA06-C
	.	.	.
1808	.	CCA06	.....
	.	V	
	.	V	
1812	.	RCCA06	
	.	.	
1818	.	.	CA08-C
	.	.	.
1823	.	CCA08-C	.....
	.	V	
	.	V	
1827	.	RCCA08-C	
	.	.	
1833	.	.	CA10-C
	.	.	.
1841	.	.	BN06-C

1846	.	.	.	.	BN03-C	.
1853	.	.	.	.	.	.
1851	.	.	.	.	.	DBN03
	.	.	.	.	.	.
1854	.	.	.	.	.	DBN03
	.	.	.	.	.	V
	.	.	.	.	.	V
	.	.	.	.	.	RDBN03
	.	.	.	.	.	.
1858	.	.	.	.	CBN03	.
	.	.	.	.	V	.
	.	.	.	.	V	.
1862	.	.	.	.	RCBN03	.
	.	.	.	.	.	.
1868	.	.	.	.	.	BN08
	.	.	.	.	.	.
1873	.	.	.	.	CBN08	.
	.	.	.	.	V	.
	.	.	.	.	V	.
1877	.	.	.	.	RCBN08	.
	.	.	.	.	.	.
1883	.	.	.	.	.	BN09
	.	.	.	.	.	.
1888	.	.	.	.	CBN09	.
	.	.	.	.	V	.
	.	.	.	.	V	.
1892	.	.	.	.	RCBN09	.
	.	.	.	.	.	.
1898	.	.	.	.	.	BN10-C
	.	.	.	.	.	.
1903	.	.	.	.	CBN10-C	.
	.	.	.	.	V	.
	.	.	.	.	V	.
1907	.	.	.	.	RCBN10-C	.
	.	.	.	.	.	.
1913	.	.	.	.	.	BN12-C
	.	.	.	.	.	.
1918	.	.	.	.	CBN12-C	.
	.	.	.	.	V	.
	.	.	.	.	V	.
1922	.	.	.	.	RCBN12-C	.
	.	.	.	.	.	.
1928	.	.	.	.	.	BN15-C
	.	.	.	.	.	.
1933	.	.	.	.	CBN15-C	.
	.	.	.	.	V	.
	.	.	.	.	V	.
1937	.	.	.	.	RTCBN15-	.
	.	.	.	.	.	.
1944	.	.	.	.	CCA10-C	.
	.	.	.	.	.	.
1949	CCCA10-C	.	.	.	.	.
	V	.	.	.	.	.
	V	.	.	.	.	.
1953	RCCA10C	.	.	.	.	.
	.	.	.	.	.	.
1959	.	ST01-C	.	.	.	.
	.	V	.	.	.	.
	.	V	.	.	.	.
1964	.	RST01-C	.	.	.	.
	.	.	.	.	.	.
1968	.	.	ST03-C	.	.	.
	.	.	.	.	.	.
1973	.	.	CST03-C	.	.	.
	.	.	.	.	.	.
1977	CCST03-C	.	.	.	.	.
	V	.	.	.	.	.
	V	.	.	.	.	.
1981	RCCST03C	.	.	.	.	.
	.	.	.	.	.	.
1987	.	CH70-C	.	.	.	.
	.	.	.	.	.	.
1992	.	.	CH73	.	.	.
	.	.	.	.	.	.

1997	.	CCH73-C.....	.
	.	V	.
	.	V	.
2001	.	RCH73	.
	.	.	.
2005	.	.	CH75-C
	.	.	.
2010	.	CCH75-C.....	.
	.	.	.
2014	.	.	CH76
	.	.	.
2019	.	CCH76.....	.
	.	V	.
	.	V	.
2023	.	RCCH76	.
	.	.	.
2029	.	.	CH77-C
	.	.	.
2034	.	CCH77-C.....	.
	.	.	.
2038	CCCH77-C.....	V	.
		V	.
2042	RCCCH73	.	.
	.	.	.
2048	.	CH91-C	.
	.	V	.
	.	V	.
2053	.	RCH91-C	.
	.	.	.
2057	.	.	CH92-C
	.	.	.
2062	.	CCH92-C.....	.
	.	V	.
	.	V	.
2066	.	RCH92-C	.
	.	.	.
2072	.	.	CH93
	.	.	V
	.	.	V
2077	.	.	RCH93
	.	.	.
2081	.	.	CH94
	.	.	.
2086	.	.	CCH94.....
	.	.	.
2090	.	CCCH94.....	.
	.	V	.
	.	V	.
2094	.	RCCCH94	.
	.	.	.
2100	.	.	NEL06-C
	.	.	.
2105	.	CNEL06.....	.
	.	.	.
2109	CCNEL06.....	.	.
	.	.	.
2115	.	.	<----- DSAHARA
2113	.	DSAHARA	.
	.	V	.
	.	V	.
2116	.	RDSAHARA	.
	.	.	.
2122	.	.	SA10-2
	.	.	.
2127	.	.	SA10-1
	.	.	.
2132	.	CSA10-1.....	.
	.	V	.
	.	V	.
2136	.	RCSA10-1	.
	.	.	.

2142	.	.	SA11	
	.	.	.	
2147	.	CSA11.....	.	
	.	V	.	
	.	V	.	
2151	.	RCSA11	.	
	.	.	.	
2157	.	.	SA13-C	
	.	.	.	
2162	.	CSA13.....	.	
	.	V	.	
	.	V	.	
2166	.	RCSA13	.	
	.	.	.	
2172	.	.	SA14	
	.	.	.	
2177	.	CSA14.....	.	
	.	.	.	
2180	.	.	FR01	
	.	.	V	
	.	.	V	
2185	.	.	RFR01	
	.	.	.	
2189	.	.	.	FR02
	.	.	.	.
2194	.	.	CFR02.....	
	.	.	V	
	.	.	V	
2198	.	.	RCFR02	
	.	.	.	
2204	.	CCSA14.....	.	
	.	V	.	
	.	V	.	
2208	.	RCCSA14	.	
	.	.	.	
2214	.	.	SA16	
	.	.	.	
2219	.	CSA16.....	.	
	.	V	.	
	.	V	.	
2223	.	RCSA16	.	
	.	.	.	
2229	.	.	CH51	
	.	.	V	
	.	.	V	
2234	.	.	RCH51	
	.	.	.	
2240	.	.	.	CH52-C
	.	.	.	.
2245	.	.	CCH52.....	
	.	.	V	
	.	.	V	
2249	.	.	RCCH52	
	.	.	.	
2255	.	.	.	CH56-C
	.	.	.	.
2262	.	.	.	.
2260	.	.	.	DFLAM
	.	.	.	DFLAM
	.	.	.	DFLAM
2263	.	.	.	DFLAM
	.	.	.	.
2269	.	.	.	CH60A-C
	.	.	.	.
2274	.	.	.	CCH60A-C.....
	.	.	.	.
2277	.	.	CCH56.....	
	.	.	V	
	.	.	V	
2281	.	.	RCCH56	
	.	.	.	
2287	.	.	.	CH63-C
	.	.	.	.
2292	.	.	CCH63-C.....	

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      .      .      V
      .      .      V
2296      .      .      RCCH63
      .      .      .
      .      .      .      CH64-C
      .      .      .      V
2302      .      .      .      V
      .      .      .      RCH64
      .      .      .      .
2311      .      .      .      .      CH67-C
      .      .      .      .      .
      .      .      .      .      .
2316      .      .      .      CCH67-C.....
      .      .      .      .
      .      .      .      .
2319      .      .      .      CCCH67-C.....
      .      .      .      V
      .      .      .      V
2323      .      .      .      RCCCH67C
      .      .      .      .
      .      .      .      .      CH68
      .      .      .      .      .
      .      .      .      .      .
2334      .      .      .      CCH68-C.....
      .      .      .      V
      .      .      .      V
2338      .      .      .      RCCH68-C
      .      .      .      .
      .      .      .      .      FR04-C
      .      .      .      .      .
      .      .      .      .      .
2349      .      .      .      CFR04.....
      .      .      .      V
      .      .      .      V
2353      .      .      .      RCFR04
      .      .      .      .
      .      .      .      .      FR03
      .      .      .      .      .
      .      .      .      .      .
2364      .      .      .      CFR03.....
      .      .      .      .
      .      .      .      .
2368      .      .      .      CCFR03.....

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(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

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1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1)
* JUN 1998
* VERSION 4.1
*
* RUN DATE 25AUG13 TIME 12:13:37
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 756-1104
*
*****

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THIS HEC-1 IS MODIFIED FROM THE ORIGINAL MPU HEC-1 SW3.DAT:
 THE DISCHARGE LOCATION FOR LVBZ INTO THE LAS VEGAS WASH WAS REVISED
 BASINS, ROUTES, ETC. CONTRIBUTING TO COMBINATION POINT CNB15-C
 (FACILITY LVBZ 0000) AND REDIRECTING THEM SOUTH DOWN MARION AVENUE TO
 COMBINE WITH THE CEDAR AVENUE CHANNEL (FACILITY CACH 0000) AT CCA10-C

INPUT FILE NAME = SW3_LVBZATCEDAR.DAT
 REVISIONS BY V FLOCK, STANLEY CONSULTANTS, INC., JULY 2013
 CHECKED BY H MURVOSH, STANLEY CONSULTANTS, INC., JULY 2013
 REFERENCES:
 CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT 2008 MASTER PLAN UPDATE
 CENTRAL WATERSHED (SOUTHWEST, SOUTHEAST, NORTHEAST AREAS)
 RECOMMENDED DRAINAGE SYSTEM WITH ULTIMATE DEVELOPMENT
 INPUT FILE = SW3.DAT
 INPUT FILE DATE = MAY 2008
 DESIGN STORM = 100-YEAR 6-HR STORM
 STORM DISTRIBUTION = SDN #3
 MODELED BY PBS&J (BRIAN ROWLEY, E.I., CFM)
 CHECKED BY PBS&J (HARSHAL B. DESAI, P.E., CFM)
 STORM CENTERING = ENTIRE WATERSHED (SOUTHWESTERN PORTION)

REFERENCED HYDROLOGIC MODELS:
 CITY OF LAS VEGAS CITY WIDE HYDROLOGY ANALYSIS (PBS&J 1997)
 PREDESIGN REPORT FOR I-15 FREEWAY CHANNEL (PARSONS BRINCKERHOFF 1999)
 FINAL CENTRAL BASIN ASSESMENT (CARTER-BURGESS 1998)
 HYDRAULIC DESIGN REPORT FOR I-15 WIDENING (LOUIS BERGER 1999)
 AMENDMENT TO 2002 MPU FOR MEADOWS ALTA PARALLEL FACILITY (CLV, OCT 2006)
 US-95 WIDENING PROJECT, FINAL OVERALL PROJECT DRAINAGE DESIGN REPORT
 (VTN NEVADA, MAY 2003)
 MEADOWS ALTA PARALLEL PROJECT PHASE II, 90% DESIGN (VTN, FEB 2008)
 OAKLEY MEADOWS STORM DRAIN FINAL DESIGN REPORT (PBS&J, APR 2008)

MASTER PLAN CHANGE FOR THE OAKLEY DRAIN FACILITY, (HDR, JULY 2007)
 OAKLEY DRAIN, BIRCH ST TO CAHLAN DR PRE-FINAL DESIGN PLANS (HDR, JAN 2008)

KO CARDS ADDED AT THE FOLLOWING COMBINATION POINTS:
 CCA10-C

JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:

AREA	DARF
SQ. MI.	
0-0.5	0.99
0.5-1	0.975
1-2	0.95
2-3	0.925
3-4	0.915
4-5	0.908
5-6	0.903
6-7	0.895
7-8	0.885

54 IO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA

NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME
 ICENT 19 CENTURY MARK

COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

ENGLISH UNITS

DRAINAGE AREA SQUARE MILES
 PRECIPITATION DEPTH INCHES
 LENGTH, ELEVATION FEET
 FLOW CUBIC FEET PER SECOND
 STORAGE VOLUME ACRE-Feet
 SURFACE AREA ACRES
 TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION

NPLAN 1 NUMBER OF PLANS

JR MULTI-RATIO OPTION

RATIOS OF PRECIPITATION
 .99 .98 .95 .93 .92 .91 .90 .89 .57

*** **

 * CCA10-C *
 * *

1948 KO OUTPUT CONTROL VARIABLES

IPRNT 1 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

1947 HC HYDROGRAPH COMBINATION

ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

HYDROGRAPH AT STATION CCA10-C
 SUM OF 3 HYDROGRAPHS
 PLAN 1, RATIO = .99

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	143.	*	1	1230	151	0.	*	1	1845	226	0.	
1	0005	2	0.	*	1	0620	77	124.	*	1	1235	152	0.	*	1	1850	227	0.	
1	0010	3	0.	*	1	0625	78	107.	*	1	1240	153	0.	*	1	1855	228	0.	
1	0015	4	0.	*	1	0630	79	92.	*	1	1245	154	0.	*	1	1900	229	0.	
1	0020	5	0.	*	1	0635	80	77.	*	1	1250	155	0.	*	1	1905	230	0.	
1	0025	6	0.	*	1	0640	81	62.	*	1	1255	156	0.	*	1	1910	231	0.	
1	0030	7	1.	*	1	0645	82	49.	*	1	1300	157	0.	*	1	1915	232	0.	
1	0035	8	2.	*	1	0650	83	38.	*	1	1305	158	0.	*	1	1920	233	0.	
1	0040	9	4.	*	1	0655	84	29.	*	1	1310	159	0.	*	1	1925	234	0.	

1	0045	10	7.	*	1	0700	85	22.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	12.	*	1	0705	86	16.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	19.	*	1	0710	87	12.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	25.	*	1	0715	88	9.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	30.	*	1	0720	89	7.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	33.	*	1	0725	90	5.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	32.	*	1	0730	91	4.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	29.	*	1	0735	92	3.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	27.	*	1	0740	93	2.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	27.	*	1	0745	94	1.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	30.	*	1	0750	95	1.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	37.	*	1	0755	96	1.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	49.	*	1	0800	97	1.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	66.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	87.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	108.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	126.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	137.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	140.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	139.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	137.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	138.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	147.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	166.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	191.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	216.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	235.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	247.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	254.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	263.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	283.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	331.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	458.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	788.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	1419.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2208.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2913.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	3341.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3448.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3302.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	2998.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	2625.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	2249.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	1908.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	1616.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	1377.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	1195.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	1072.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	1005.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	982.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	983.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	992.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	992.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	970.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	919.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	840.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	744.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	642.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	544.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	456.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	382.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	320.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	270.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	229.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	194.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	166.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
+	3448.	3.92	680.	171.	164.	164.
		(INCHES)	1.636	1.641	1.641	1.641
		(AC-FT)	337.	338.	338.	338.

CUMULATIVE AREA = 3.87 SQ MI

HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	0.	*		1	0615	76	141.	*		1	1230	151	0.	*		1	1845	226	0.	*	
1	0005	2	0.	*		1	0620	77	123.	*		1	1235	152	0.	*		1	1850	227	0.	*	
1	0010	3	0.	*		1	0625	78	106.	*		1	1240	153	0.	*		1	1855	228	0.	*	
1	0015	4	0.	*		1	0630	79	90.	*		1	1245	154	0.	*		1	1900	229	0.	*	
1	0020	5	0.	*		1	0635	80	76.	*		1	1250	155	0.	*		1	1905	230	0.	*	

1	0025	6	0.	*	1	0640	81	62.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	1.	*	1	0645	82	49.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	2.	*	1	0650	83	38.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	4.	*	1	0655	84	29.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	7.	*	1	0700	85	22.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	11.	*	1	0705	86	16.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	17.	*	1	0710	87	12.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	23.	*	1	0715	88	9.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	28.	*	1	0720	89	7.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	30.	*	1	0725	90	5.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	29.	*	1	0730	91	4.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	28.	*	1	0735	92	3.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	26.	*	1	0740	93	2.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	25.	*	1	0745	94	1.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	28.	*	1	0750	95	1.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	35.	*	1	0755	96	1.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	46.	*	1	0800	97	1.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	62.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	82.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	102.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	119.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	130.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	134.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	133.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	131.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	133.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	143.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	160.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	183.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	207.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	226.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	238.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	246.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	255.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	275.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	322.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	442.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	746.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	1358.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2143.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2834.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	3251.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3367.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3235.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	2944.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	2579.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	2208.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	1875.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	1588.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	1354.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	1175.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	1054.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	987.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	962.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	963.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	972.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	973.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	952.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	902.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	826.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	732.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	632.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	536.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	450.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	376.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	315.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	266.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	226.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	191.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	163.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
		(CFS)				
+	3367.	3.92	665.	167.	161.	161.
		(INCHES)	1.599	1.603	1.603	1.603
		(AC-FT)	330.	331.	331.	331.
CUMULATIVE AREA =			3.87 SQ MI			

HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .95

					*						*						*						
DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	0.	*	1	0615	76	138.	*	1	1230	151	0.	*	1	1845	226	0.	*				

1	0005	2	0.	*	1	0620	77	119.	*	1	1235	152	0.	*	1	1850	227	0.
1	0010	3	0.	*	1	0625	78	103.	*	1	1240	153	0.	*	1	1855	228	0.
1	0015	4	0.	*	1	0630	79	88.	*	1	1245	154	0.	*	1	1900	229	0.
1	0020	5	0.	*	1	0635	80	74.	*	1	1250	155	0.	*	1	1905	230	0.
1	0025	6	0.	*	1	0640	81	60.	*	1	1255	156	0.	*	1	1910	231	0.
1	0030	7	0.	*	1	0645	82	48.	*	1	1300	157	0.	*	1	1915	232	0.
1	0035	8	1.	*	1	0650	83	37.	*	1	1305	158	0.	*	1	1920	233	0.
1	0040	9	3.	*	1	0655	84	29.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	6.	*	1	0700	85	22.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	9.	*	1	0705	86	16.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	14.	*	1	0710	87	12.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	19.	*	1	0715	88	9.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	24.	*	1	0720	89	6.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	26.	*	1	0725	90	5.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	26.	*	1	0730	91	4.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	24.	*	1	0735	92	3.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	23.	*	1	0740	93	2.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	23.	*	1	0745	94	1.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	25.	*	1	0750	95	1.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	31.	*	1	0755	96	1.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	41.	*	1	0800	97	1.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	56.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	74.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	93.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	109.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	120.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	124.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	124.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	123.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	124.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	133.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	149.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	171.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	194.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	213.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	224.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	232.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	241.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	260.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	305.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	417.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	706.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	1290.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2044.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2719.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	3138.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3249.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3112.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	2830.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	2486.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	2137.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	1817.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	1539.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	1311.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	1139.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	1022.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	956.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	930.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	931.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	940.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	941.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	921.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	874.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	802.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	711.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	614.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	521.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	438.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	367.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	308.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	259.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	220.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	187.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	159.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.92-HR
+	3249.	3.92	640.	160.	154.	154.
			1.539	1.542	1.542	1.542
		(INCHES)	317.	318.	318.	318.
		(AC-FT)				
CUMULATIVE AREA =			3.87 SQ MI			

HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1		0000	1	0.	*	1		0615	76	134.	*	1		1230	151	0.	*	1		1845	226	0.	*
1		0005	2	0.	*	1		0620	77	116.	*	1		1235	152	0.	*	1		1850	227	0.	*
1		0010	3	0.	*	1		0625	78	101.	*	1		1240	153	0.	*	1		1855	228	0.	*
1		0015	4	0.	*	1		0630	79	86.	*	1		1245	154	0.	*	1		1900	229	0.	*
1		0020	5	0.	*	1		0635	80	72.	*	1		1250	155	0.	*	1		1905	230	0.	*
1		0025	6	0.	*	1		0640	81	59.	*	1		1255	156	0.	*	1		1910	231	0.	*
1		0030	7	0.	*	1		0645	82	47.	*	1		1300	157	0.	*	1		1915	232	0.	*
1		0035	8	1.	*	1		0650	83	37.	*	1		1305	158	0.	*	1		1920	233	0.	*
1		0040	9	2.	*	1		0655	84	28.	*	1		1310	159	0.	*	1		1925	234	0.	*
1		0045	10	5.	*	1		0700	85	21.	*	1		1315	160	0.	*	1		1930	235	0.	*
1		0050	11	8.	*	1		0705	86	16.	*	1		1320	161	0.	*	1		1935	236	0.	*
1		0055	12	11.	*	1		0710	87	12.	*	1		1325	162	0.	*	1		1940	237	0.	*
1		0100	13	16.	*	1		0715	88	9.	*	1		1330	163	0.	*	1		1945	238	0.	*
1		0105	14	20.	*	1		0720	89	6.	*	1		1335	164	0.	*	1		1950	239	0.	*
1		0110	15	22.	*	1		0725	90	5.	*	1		1340	165	0.	*	1		1955	240	0.	*
1		0115	16	22.	*	1		0730	91	3.	*	1		1345	166	0.	*	1		2000	241	0.	*
1		0120	17	21.	*	1		0735	92	3.	*	1		1350	167	0.	*	1		2005	242	0.	*
1		0125	18	20.	*	1		0740	93	2.	*	1		1355	168	0.	*	1		2010	243	0.	*
1		0130	19	20.	*	1		0745	94	1.	*	1		1400	169	0.	*	1		2015	244	0.	*
1		0135	20	22.	*	1		0750	95	1.	*	1		1405	170	0.	*	1		2020	245	0.	*
1		0140	21	28.	*	1		0755	96	1.	*	1		1410	171	0.	*	1		2025	246	0.	*
1		0145	22	37.	*	1		0800	97	1.	*	1		1415	172	0.	*	1		2030	247	0.	*
1		0150	23	50.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.	*
1		0155	24	66.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.	*
1		0200	25	84.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.	*
1		0205	26	99.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.	*
1		0210	27	110.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.	*
1		0215	28	114.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.	*
1		0220	29	115.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.	*
1		0225	30	114.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.	*
1		0230	31	116.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.	*
1		0235	32	124.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.	*
1		0240	33	139.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.	*
1		0245	34	159.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.	*
1		0250	35	181.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.	*
1		0255	36	199.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.	*
1		0300	37	211.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.	*
1		0305	38	218.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.	*
1		0310	39	227.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.	*
1		0315	40	245.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.	*
1		0320	41	286.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.	*
1		0325	42	386.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.	*
1		0330	43	661.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.	*
1		0335	44	1217.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.	*
1		0340	45	1940.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.	*
1		0345	46	2599.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.	*
1		0350	47	2997.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.	*
1		0355	48	3113.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.	*
1		0400	49	3001.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.	*
1		0405	50	2744.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.	*
1		0410	51	2412.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.	*
1		0415	52	2070.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.	*
1		0420	53	1759.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.	*
1		0425	54	1491.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.	*
1		0430	55	1273.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.	*
1		0435	56	1105.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.	*
1		0440	57	990.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.	*
1		0445	58	924.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.	*
1		0450	59	899.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.	*
1		0455	60	998.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.	*
1		0500	61	808.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.	*
1		0505	62	910.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.	*
1		0510	63	891.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.	*
1		0515	64	846.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.	*
1		0520	65	777.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.	*
1		0525	66	690.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.	*
1		0530	67	597.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.	*
1		0535	68	507.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.	*
1		0540	69	426.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.	*
1		0545	70	357.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.	*
1		0550	71	300.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.	*
1		0555	72	253.	*	1		1210	147	0.	*	1		1825	222	0.	*	2		0040	297	0.	*
1		0600	73	215.	*	1		1215	148	0.	*	1		1830	223	0.	*	2		0045	298	0.	*
1		0605	74	182.	*	1		1220	149	0.	*	1		1835	224	0.	*	2		0050	299	0.	*
1		0610	75	156.	*	1		1225	150	0.	*	1		1840	225	0.	*	2		0055	300	0.	*

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+	(CFS)	(HR)	6-HR	24-HR	72-HR	24.92-HR
+	3113.	3.92	615.	154.	148.	148.
			1,479	1,482	1,482	1,482
		(INCHES)	305.	306.	306.	306.
		(AC-FT)				
CUMULATIVE AREA =			3.87 SQ MI			

HYDROGRAPH AT STATION CCA10-C

SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	0.	*	1	0615	76	133.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	115.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	100.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	85.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	0.	*	1	0635	80	71.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	0.	*	1	0640	81	59.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	0.	*	1	0645	82	47.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	1.	*	1	0650	83	37.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	2.	*	1	0655	84	28.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	4.	*	1	0700	85	21.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	7.	*	1	0705	86	16.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	11.	*	1	0710	87	12.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	15.	*	1	0715	88	9.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	18.	*	1	0720	89	6.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	21.	*	1	0725	90	5.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	21.	*	1	0730	91	3.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	20.	*	1	0735	92	3.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	19.	*	1	0740	93	2.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	19.	*	1	0745	94	1.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	21.	*	1	0750	95	1.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	20.	*	1	0755	96	1.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	35.	*	1	0800	97	1.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	48.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	63.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	80.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	95.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	105.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	110.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	111.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	111.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	113.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	120.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	135.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	155.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	176.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	194.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	205.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	213.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	222.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	239.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	280.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	380.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	643.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	1179.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	1895.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	2546.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	2952.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	3077.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	2969.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	2713.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	2383.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	2046.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	1738.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	1474.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	1257.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	1091.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	977.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	911.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	884.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	885.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	895.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	898.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	881.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	835.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	766.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	681.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	590.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	501.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	422.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	353.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	296.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	250.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					
1	0600	73	212.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.					
1	0605	74	180.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.					
1	0610	75	154.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.					

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
+	3077.	3.92	605.	152.	146.	146.
		(INCHES)	1.456	1.459	1.459	1.459
		(AC-FT)	300.	301.	301.	301.
CUMULATIVE AREA =			3.87 SQ MI			

HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	132.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	114.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	99.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	85.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	71.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	58.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	47.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	1.	*	1		0650	83	36.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	2.	*	1		0655	84	28.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	4.	*	1		0700	85	21.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	7.	*	1		0705	86	16.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	10.	*	1		0710	87	12.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	14.	*	1		0715	88	9.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	17.	*	1		0720	89	6.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	20.	*	1		0725	90	5.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	20.	*	1		0730	91	3.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	19.	*	1		0735	92	3.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	18.	*	1		0740	93	2.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	18.	*	1		0745	94	1.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	20.	*	1		0750	95	1.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	25.	*	1		0755	96	1.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	34.	*	1		0800	97	1.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	46.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	61.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	78.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	92.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	103.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	108.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	109.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	109.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	111.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.
1		0235	32	118.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.
1		0240	33	132.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.
1		0245	34	151.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.
1		0250	35	173.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.
1		0255	36	190.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.
1		0300	37	202.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.
1		0305	38	209.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.
1		0310	39	218.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.
1		0315	40	235.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.
1		0320	41	275.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.
1		0325	42	372.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.
1		0330	43	627.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.
1		0335	44	1164.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.
1		0340	45	1870.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.
1		0345	46	2514.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.
1		0350	47	2917.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.
1		0355	48	3034.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.
1		0400	49	2930.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.
1		0405	50	2686.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.
1		0410	51	2364.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.
1		0415	52	2028.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.
1		0420	53	1722.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.
1		0425	54	1459.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.
1		0430	55	1245.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.
1		0435	56	1081.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.
1		0440	57	967.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.
1		0445	58	902.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.
1		0450	59	876.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.
1		0455	60	876.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.
1		0500	61	886.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.
1		0505	62	889.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.
1		0510	63	871.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.
1		0515	64	828.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.
1		0520	65	760.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.
1		0525	66	676.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.
1		0530	67	585.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.
1		0535	68	497.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.
1		0540	69	418.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.
1		0545	70	350.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.
1		0550	71	294.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.
1		0555	72	248.	*	1		1210	147	0.	*	1		1825	222	0.	*	2		0040	297	0.
1		0600	73	211.	*	1		1215	148	0.	*	1		1830	223	0.	*	2		0045	298	0.
1		0605	74	179.	*	1		1220	149	0.	*	1		1835	224	0.	*	2		0050	299	0.
1		0610	75	153.	*	1		1225	150	0.	*	1		1840	225	0.	*	2		0055	300	0.

PEAK FLOW	TIME		6-HR	24-HR	72-HR	24.92-HR
+	(CFS)	(HR)				
+	3034.	3.92	(CFS)			
			(INCHES)			
			598.	150.	144.	144.
			1.439	1.442	1.442	1.442

(AC-FT) 297. 297. 297. 297.
CUMULATIVE AREA = 3.87 SQ MI

HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1	0000	1	0.	*	1	0615	76	131.	*	1	1230	151	0.	*	1	1845	226	0.				
1	0005	2	0.	*	1	0620	77	114.	*	1	1235	152	0.	*	1	1850	227	0.				
1	0010	3	0.	*	1	0625	78	98.	*	1	1240	153	0.	*	1	1855	228	0.				
1	0015	4	0.	*	1	0630	79	84.	*	1	1245	154	0.	*	1	1900	229	0.				
1	0020	5	0.	*	1	0635	80	71.	*	1	1250	155	0.	*	1	1905	230	0.				
1	0025	6	0.	*	1	0640	81	58.	*	1	1255	156	0.	*	1	1910	231	0.				
1	0030	7	0.	*	1	0645	82	46.	*	1	1300	157	0.	*	1	1915	232	0.				
1	0035	8	1.	*	1	0650	83	36.	*	1	1305	158	0.	*	1	1920	233	0.				
1	0040	9	2.	*	1	0655	84	28.	*	1	1310	159	0.	*	1	1925	234	0.				
1	0045	10	4.	*	1	0700	85	21.	*	1	1315	160	0.	*	1	1930	235	0.				
1	0050	11	6.	*	1	0705	86	16.	*	1	1320	161	0.	*	1	1935	236	0.				
1	0055	12	10.	*	1	0710	87	12.	*	1	1325	162	0.	*	1	1940	237	0.				
1	0100	13	13.	*	1	0715	88	9.	*	1	1330	163	0.	*	1	1945	238	0.				
1	0105	14	17.	*	1	0720	89	6.	*	1	1335	164	0.	*	1	1950	239	0.				
1	0110	15	19.	*	1	0725	90	5.	*	1	1340	165	0.	*	1	1955	240	0.				
1	0115	16	19.	*	1	0730	91	3.	*	1	1345	166	0.	*	1	2000	241	0.				
1	0120	17	19.	*	1	0735	92	3.	*	1	1350	167	0.	*	1	2005	242	0.				
1	0125	18	18.	*	1	0740	93	2.	*	1	1355	168	0.	*	1	2010	243	0.				
1	0130	19	18.	*	1	0745	94	1.	*	1	1400	169	0.	*	1	2015	244	0.				
1	0135	20	20.	*	1	0750	95	1.	*	1	1405	170	0.	*	1	2020	245	0.				
1	0140	21	25.	*	1	0755	96	1.	*	1	1410	171	0.	*	1	2025	246	0.				
1	0145	22	33.	*	1	0800	97	1.	*	1	1415	172	0.	*	1	2030	247	0.				
1	0150	23	45.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.				
1	0155	24	60.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.				
1	0200	25	76.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.				
1	0205	26	91.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.				
1	0210	27	101.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.				
1	0215	28	106.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.				
1	0220	29	107.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.				
1	0225	30	107.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.				
1	0230	31	109.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.				
1	0235	32	116.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.				
1	0240	33	130.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.				
1	0245	34	149.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.				
1	0250	35	170.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.				
1	0255	36	187.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.				
1	0300	37	199.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.				
1	0305	38	207.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.				
1	0310	39	215.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.				
1	0315	40	233.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.				
1	0320	41	271.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.				
1	0325	42	363.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.				
1	0330	43	615.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.				
1	0335	44	1144.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.				
1	0340	45	1848.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.				
1	0345	46	2488.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.				
1	0350	47	2885.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.				
1	0355	48	3004.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.				
1	0400	49	2903.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.				
1	0405	50	2657.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.				
1	0410	51	2339.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.				
1	0415	52	2010.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.				
1	0420	53	1711.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.				
1	0425	54	1452.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.				
1	0430	55	1238.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.				
1	0435	56	1074.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.				
1	0440	57	962.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.				
1	0445	58	896.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.				
1	0450	59	868.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.				
1	0455	60	869.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.				
1	0500	61	879.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.				
1	0505	62	883.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.				
1	0510	63	866.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.				
1	0515	64	823.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.				
1	0520	65	755.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.				
1	0525	66	672.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.				
1	0530	67	582.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.				
1	0535	68	494.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.				
1	0540	69	416.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.				
1	0545	70	348.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.				
1	0550	71	293.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.				
1	0555	72	247.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.				
1	0600	73	210.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.				
1	0605	74	178.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.				
1	0610	75	152.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.				

PEAK FLOW TIME MAXIMUM AVERAGE FLOW
6-HR 24-HR 72-HR 24.92-HR

+	(CFS)	(HR)	(CFS)				
+	3004.	3.92	(INCHES)	593.	149.	143.	143.
			(AC-FT)	1.425	1.429	1.429	1.429
				294.	295.	295.	295.
CUMULATIVE AREA =				3.87 SQ MI			

HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1, RATIO = .89

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1		0000	1	0.	*	1		0615	76	130.	*	1		1230	151	0.	*	1		1845	226	0.	*
1		0005	2	0.	*	1		0620	77	113.	*	1		1235	152	0.	*	1		1850	227	0.	*
1		0010	3	0.	*	1		0625	78	97.	*	1		1240	153	0.	*	1		1855	228	0.	*
1		0015	4	0.	*	1		0630	79	83.	*	1		1245	154	0.	*	1		1900	229	0.	*
1		0020	5	0.	*	1		0635	80	70.	*	1		1250	155	0.	*	1		1905	230	0.	*
1		0025	6	0.	*	1		0640	81	57.	*	1		1255	156	0.	*	1		1910	231	0.	*
1		0030	7	0.	*	1		0645	82	46.	*	1		1300	157	0.	*	1		1915	232	0.	*
1		0035	8	1.	*	1		0650	83	36.	*	1		1305	158	0.	*	1		1920	233	0.	*
1		0040	9	2.	*	1		0655	84	28.	*	1		1310	159	0.	*	1		1925	234	0.	*
1		0045	10	4.	*	1		0700	85	21.	*	1		1315	160	0.	*	1		1930	235	0.	*
1		0050	11	6.	*	1		0705	86	16.	*	1		1320	161	0.	*	1		1935	236	0.	*
1		0055	12	9.	*	1		0710	87	12.	*	1		1325	162	0.	*	1		1940	237	0.	*
1		0100	13	12.	*	1		0715	88	9.	*	1		1330	163	0.	*	1		1945	238	0.	*
1		0105	14	16.	*	1		0720	89	6.	*	1		1335	164	0.	*	1		1950	239	0.	*
1		0110	15	18.	*	1		0725	90	5.	*	1		1340	165	0.	*	1		1955	240	0.	*
1		0115	16	18.	*	1		0730	91	3.	*	1		1345	166	0.	*	1		2000	241	0.	*
1		0120	17	18.	*	1		0735	92	3.	*	1		1350	167	0.	*	1		2005	242	0.	*
1		0125	18	17.	*	1		0740	93	2.	*	1		1355	168	0.	*	1		2010	243	0.	*
1		0130	19	17.	*	1		0745	94	1.	*	1		1400	169	0.	*	1		2015	244	0.	*
1		0135	20	19.	*	1		0750	95	1.	*	1		1405	170	0.	*	1		2020	245	0.	*
1		0140	21	24.	*	1		0755	96	1.	*	1		1410	171	0.	*	1		2025	246	0.	*
1		0145	22	32.	*	1		0800	97	1.	*	1		1415	172	0.	*	1		2030	247	0.	*
1		0150	23	43.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.	*
1		0155	24	58.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.	*
1		0200	25	73.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.	*
1		0205	26	88.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.	*
1		0210	27	98.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.	*
1		0215	28	103.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.	*
1		0220	29	104.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.	*
1		0225	30	104.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.	*
1		0230	31	106.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.	*
1		0235	32	113.	*	1		0850	107	0.	*	1		1505	182	0.	*	1		2120	257	0.	*
1		0240	33	127.	*	1		0855	108	0.	*	1		1510	183	0.	*	1		2125	258	0.	*
1		0245	34	145.	*	1		0900	109	0.	*	1		1515	184	0.	*	1		2130	259	0.	*
1		0250	35	166.	*	1		0905	110	0.	*	1		1520	185	0.	*	1		2135	260	0.	*
1		0255	36	183.	*	1		0910	111	0.	*	1		1525	186	0.	*	1		2140	261	0.	*
1		0300	37	194.	*	1		0915	112	0.	*	1		1530	187	0.	*	1		2145	262	0.	*
1		0305	38	202.	*	1		0920	113	0.	*	1		1535	188	0.	*	1		2150	263	0.	*
1		0310	39	211.	*	1		0925	114	0.	*	1		1540	189	0.	*	1		2155	264	0.	*
1		0315	40	228.	*	1		0930	115	0.	*	1		1545	190	0.	*	1		2200	265	0.	*
1		0320	41	266.	*	1		0935	116	0.	*	1		1550	191	0.	*	1		2205	266	0.	*
1		0325	42	360.	*	1		0940	117	0.	*	1		1555	192	0.	*	1		2210	267	0.	*
1		0330	43	610.	*	1		0945	118	0.	*	1		1600	193	0.	*	1		2215	268	0.	*
1		0335	44	1118.	*	1		0950	119	0.	*	1		1605	194	0.	*	1		2220	269	0.	*
1		0340	45	1812.	*	1		0955	120	0.	*	1		1610	195	0.	*	1		2225	270	0.	*
1		0345	46	2446.	*	1		1000	121	0.	*	1		1615	196	0.	*	1		2230	271	0.	*
1		0350	47	2847.	*	1		1005	122	0.	*	1		1620	197	0.	*	1		2235	272	0.	*
1		0355	48	2973.	*	1		1010	123	0.	*	1		1625	198	0.	*	1		2240	273	0.	*
1		0400	49	2869.	*	1		1015	124	0.	*	1		1630	199	0.	*	1		2245	274	0.	*
1		0405	50	2617.	*	1		1020	125	0.	*	1		1635	200	0.	*	1		2250	275	0.	*
1		0410	51	2302.	*	1		1025	126	0.	*	1		1640	201	0.	*	1		2255	276	0.	*
1		0415	52	1984.	*	1		1030	127	0.	*	1		1645	202	0.	*	1		2300	277	0.	*
1		0420	53	1690.	*	1		1035	128	0.	*	1		1650	203	0.	*	1		2305	278	0.	*
1		0425	54	1435.	*	1		1040	129	0.	*	1		1655	204	0.	*	1		2310	279	0.	*
1		0430	55	1225.	*	1		1045	130	0.	*	1		1700	205	0.	*	1		2315	280	0.	*
1		0435	56	1064.	*	1		1050	131	0.	*	1		1705	206	0.	*	1		2320	281	0.	*
1		0440	57	951.	*	1		1055	132	0.	*	1		1710	207	0.	*	1		2325	282	0.	*
1		0445	58	885.	*	1		1100	133	0.	*	1		1715	208	0.	*	1		2330	283	0.	*
1		0450	59	859.	*	1		1105	134	0.	*	1		1720	209	0.	*	1		2335	284	0.	*
1		0455	60	859.	*	1		1110	135	0.	*	1		1725	210	0.	*	1		2340	285	0.	*
1		0500	61	869.	*	1		1115	136	0.	*	1		1730	211	0.	*	1		2345	286	0.	*
1		0505	62	872.	*	1		1120	137	0.	*	1		1735	212	0.	*	1		2350	287	0.	*
1		0510	63	855.	*	1		1125	138	0.	*	1		1740	213	0.	*	1		2355	288	0.	*
1		0515	64	813.	*	1		1130	139	0.	*	1		1745	214	0.	*	2		0000	289	0.	*
1		0520	65	748.	*	1		1135	140	0.	*	1		1750	215	0.	*	2		0005	290	0.	*
1		0525	66	665.	*	1		1140	141	0.	*	1		1755	216	0.	*	2		0010	291	0.	*
1		0530	67	576.	*	1		1145	142	0.	*	1		1800	217	0.	*	2		0015	292	0.	*
1		0535	68	490.	*	1		1150	143	0.	*	1		1805	218	0.	*	2		0020	293	0.	*
1		0540	69	412.	*	1		1155	144	0.	*	1		1810	219	0.	*	2		0025	294	0.	*
1		0545	70	345.	*	1		1200	145	0.	*	1		1815	220	0.	*	2		0030	295	0.	*
1		0550	71	290.	*	1		1205	146	0.	*	1		1820	221	0.	*	2		0035	296	0.	*
1		0555	72	245.	*	1		1210	147	0.	*	1		1825	222	0.	*	2		0040	297	0.	*
1		0600	73	208.	*	1		1215	148	0.	*	1		1830	223	0.	*	2		0045	298	0.	*
1		0605	74	176.	*	1		1220	149	0.	*	1		1835	224	0.	*	2		0050	299	0.	*
1		0610	75	151.	*	1		1225	150	0.	*	1		1840	225	0.	*	2		0055	300	0.	*

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PEAK FLOW      TIME      MAXIMUM AVERAGE FLOW
+   (CFS)      (HR)      6-HR      24-HR      72-HR      24.92-HR
+   2973.      3.92      585.      146.      141.      141.
                        (INCHES)  1.406    1.409    1.409    1.409
                        (AC-FT)   290.     291.     291.     291.
                        CUMULATIVE AREA = 3.87 SQ MI
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*****
HYDROGRAPH AT STATION CCA10-C
SUM OF 3 HYDROGRAPHS
PLAN 1,  RATIO = .57
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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*
1	0000	1	0.	*	1	0615	76	86.	*	1	1230	151	0.	*	1	1845	226	0.					
1	0005	2	0.	*	1	0620	77	74.	*	1	1235	152	0.	*	1	1850	227	0.					
1	0010	3	0.	*	1	0625	78	64.	*	1	1240	153	0.	*	1	1855	228	0.					
1	0015	4	0.	*	1	0630	79	55.	*	1	1245	154	0.	*	1	1900	229	0.					
1	0020	5	0.	*	1	0635	80	47.	*	1	1250	155	0.	*	1	1905	230	0.					
1	0025	6	0.	*	1	0640	81	40.	*	1	1255	156	0.	*	1	1910	231	0.					
1	0030	7	0.	*	1	0645	82	34.	*	1	1300	157	0.	*	1	1915	232	0.					
1	0035	8	0.	*	1	0650	83	28.	*	1	1305	158	0.	*	1	1920	233	0.					
1	0040	9	0.	*	1	0655	84	22.	*	1	1310	159	0.	*	1	1925	234	0.					
1	0045	10	0.	*	1	0700	85	17.	*	1	1315	160	0.	*	1	1930	235	0.					
1	0050	11	0.	*	1	0705	86	14.	*	1	1320	161	0.	*	1	1935	236	0.					
1	0055	12	0.	*	1	0710	87	10.	*	1	1325	162	0.	*	1	1940	237	0.					
1	0100	13	0.	*	1	0715	88	8.	*	1	1330	163	0.	*	1	1945	238	0.					
1	0105	14	0.	*	1	0720	89	6.	*	1	1335	164	0.	*	1	1950	239	0.					
1	0110	15	0.	*	1	0725	90	5.	*	1	1340	165	0.	*	1	1955	240	0.					
1	0115	16	0.	*	1	0730	91	3.	*	1	1345	166	0.	*	1	2000	241	0.					
1	0120	17	0.	*	1	0735	92	3.	*	1	1350	167	0.	*	1	2005	242	0.					
1	0125	18	0.	*	1	0740	93	2.	*	1	1355	168	0.	*	1	2010	243	0.					
1	0130	19	0.	*	1	0745	94	1.	*	1	1400	169	0.	*	1	2015	244	0.					
1	0135	20	1.	*	1	0750	95	1.	*	1	1405	170	0.	*	1	2020	245	0.					
1	0140	21	1.	*	1	0755	96	1.	*	1	1410	171	0.	*	1	2025	246	0.					
1	0145	22	2.	*	1	0800	97	1.	*	1	1415	172	0.	*	1	2030	247	0.					
1	0150	23	3.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.					
1	0155	24	4.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.					
1	0200	25	5.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.					
1	0205	26	7.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.					
1	0210	27	8.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.					
1	0215	28	10.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.					
1	0220	29	13.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.					
1	0225	30	15.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.					
1	0230	31	18.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.					
1	0235	32	20.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.					
1	0240	33	23.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.					
1	0245	34	26.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.					
1	0250	35	31.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.					
1	0255	36	37.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.					
1	0300	37	43.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.					
1	0305	38	49.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.					
1	0310	39	55.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.					
1	0315	40	63.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.					
1	0320	41	76.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.					
1	0325	42	101.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.					
1	0330	43	149.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.					
1	0335	44	268.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.					
1	0340	45	545.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.					
1	0345	46	926.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.					
1	0350	47	1235.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.					
1	0355	48	1397.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.					
1	0400	49	1410.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.					
1	0405	50	1326.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.					
1	0410	51	1197.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.					
1	0415	52	1047.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.					
1	0420	53	902.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.					
1	0425	54	772.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.					
1	0430	55	660.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.					
1	0435	56	573.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.					
1	0440	57	509.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.					
1	0445	58	467.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.					
1	0450	59	448.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.					
1	0455	60	446.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.					
1	0500	61	455.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.					
1	0505	62	464.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.					
1	0510	63	464.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.					
1	0515	64	451.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.					
1	0520	65	425.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.					
1	0525	66	388.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.					
1	0530	67	344.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.					
1	0535	68	298.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.					
1	0540	69	256.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.					
1	0545	70	217.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.					
1	0550	71	185.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.					
1	0555	72	157.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.					

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OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION								
					RATIO 1 .99	RATIO 2 .98	RATIO 3 .95	RATIO 4 .93	RATIO 5 .92	RATIO 6 .91	RATIO 7 .90	RATIO 8 .89	RATIO 9 .87
HYDROGRAPH AT +	FW01	.32	1	FLOW TIME	173. 3.83	168. 3.83	159. 3.83	150. 3.83	147. 3.83	144. 3.83	142. 3.83	140. 3.83	43. 3.92
ROUTED TO +	RFW1	.32	1	FLOW TIME	172. 3.92	167. 3.92	158. 3.92	146. 4.00	143. 4.00	141. 4.00	139. 4.00	137. 4.00	42. 4.08
HYDROGRAPH AT +	FW02	.24	1	FLOW TIME	154. 3.83	150. 3.83	143. 3.83	136. 3.83	133. 3.83	131. 3.83	130. 3.83	127. 3.83	46. 3.83
2 COMBINED AT +	CFW2	.56	1	FLOW TIME	319. 3.92	310. 3.92	294. 3.92	275. 3.92	268. 3.92	264. 3.92	261. 3.92	256. 3.92	83. 4.00
ROUTED TO +	RCFW2	.56	1	FLOW TIME	319. 4.00	310. 4.00	294. 4.00	274. 4.00	268. 4.00	264. 4.00	261. 4.00	256. 4.00	82. 4.17
HYDROGRAPH AT +	FW03	.25	1	FLOW TIME	258. 3.75	253. 3.83	245. 3.83	236. 3.83	233. 3.83	230. 3.83	229. 3.83	226. 3.83	116. 3.83
2 COMBINED AT +	CFW3	.82	1	FLOW TIME	543. 3.92	529. 3.92	504. 3.92	477. 3.92	468. 3.92	461. 3.92	456. 3.92	449. 3.92	169. 4.00
ROUTED TO +	RCFW3	.82	1	FLOW TIME	534. 4.00	525. 4.00	500. 4.00	470. 4.00	463. 4.00	459. 4.00	450. 4.00	442. 4.00	166. 4.08
HYDROGRAPH AT +	FW5	.52	1	FLOW TIME	449. 3.92	440. 3.92	425. 3.92	410. 3.92	404. 3.92	400. 3.92	397. 3.92	392. 3.92	202. 4.00
2 COMBINED AT +	CFW5	1.34	1	FLOW TIME	980. 4.00	962. 4.00	922. 4.00	878. 4.00	865. 4.00	857. 4.00	845. 4.00	832. 4.00	362. 4.00
DIVERSION TO +	DFW11	1.34	1	FLOW TIME	210. 3.50	210. 3.50	210. 3.50	210. 3.50	210. 3.50	210. 3.50	210. 3.58	210. 3.58	210. 3.75
HYDROGRAPH AT +	DFW5	1.34	1	FLOW TIME	770. 4.00	752. 4.00	712. 4.00	668. 4.00	655. 4.00	647. 4.00	635. 4.00	622. 4.00	152. 4.00
ROUTED TO +	RDFW5	1.34	1	FLOW TIME	768. 4.00	748. 4.00	708. 4.00	664. 4.00	652. 4.00	644. 4.00	631. 4.00	619. 4.00	150. 4.08
HYDROGRAPH AT +	CE2EA-C	.13	1	FLOW TIME	101. 3.83	99. 3.83	95. 3.83	91. 3.83	89. 3.83	88. 3.83	88. 3.83	86. 3.83	40. 3.92
ROUTED TO +	RCE2EA	.13	1	FLOW TIME	102. 4.25	100. 4.25	96. 4.25	92. 4.25	91. 4.25	89. 4.25	89. 4.25	87. 4.25	41. 4.25
HYDROGRAPH AT +	R4C1	.27	1	FLOW TIME	288. 3.83	283. 3.83	274. 3.83	265. 3.83	262. 3.83	259. 3.83	257. 3.83	255. 3.83	141. 3.83
3 COMBINED AT +	CR4C1	1.74	1	FLOW TIME	1085. 4.00	1058. 4.00	1006. 4.00	950. 4.00	934. 4.00	922. 4.00	906. 4.00	890. 4.00	277. 4.00

ROUTED TO +	RCR4C1	1.74	1	FLOW TIME	1075. 4.00	1048. 4.00	996. 4.00	941. 4.00	925. 4.00	910. 4.00	895. 4.00	880. 4.00	274. 4.00
HYDROGRAPH AT +	CE2EC	.26	1	FLOW TIME	212. 3.75	206. 3.75	197. 3.75	188. 3.75	185. 3.75	182. 3.75	180. 3.75	178. 3.75	71. 3.75
ROUTED TO +	RCE2EC	.26	1	FLOW TIME	213. 3.92	208. 3.92	199. 3.92	190. 3.92	186. 3.92	184. 3.92	182. 3.92	179. 3.92	71. 4.00
HYDROGRAPH AT +	CE2ED-C	.31	1	FLOW TIME	319. 3.83	313. 3.83	303. 3.83	292. 3.83	288. 3.83	285. 3.83	283. 3.83	280. 3.83	148. 3.83
2 COMBINED AT +	CCE2ED-C	.58	1	FLOW TIME	519. 3.92	508. 3.92	489. 3.92	470. 3.92	463. 3.92	458. 3.92	454. 3.92	448. 3.92	210. 3.92
DIVERSION TO +	DCPS03	.58	1	FLOW TIME	265. 3.92	260. 3.92	252. 3.92	244. 3.92	241. 3.92	239. 3.92	237. 3.92	234. 3.92	125. 3.92
HYDROGRAPH AT +	DCCE2ED	.58	1	FLOW TIME	255. 3.92	248. 3.92	237. 3.92	227. 3.92	222. 3.92	219. 3.92	217. 3.92	213. 3.92	85. 3.92
ROUTED TO +	RDCCE2ED	.58	1	FLOW TIME	256. 4.08	250. 4.08	240. 4.08	229. 4.08	225. 4.08	222. 4.08	220. 4.08	217. 4.08	86. 4.17
HYDROGRAPH AT +	CE3FA	.36	1	FLOW TIME	385. 3.83	378. 3.83	367. 3.83	355. 3.83	350. 3.83	347. 3.83	345. 3.83	341. 3.83	190. 3.83
3 COMBINED AT +	CCE3FA	2.67	1	FLOW TIME	1667. 4.00	1627. 4.00	1552. 4.00	1475. 4.00	1450. 4.00	1429. 4.00	1409. 4.00	1387. 4.00	509. 4.00
ROUTED TO +	RCCE3FA	2.67	1	FLOW TIME	1663. 4.00	1622. 4.00	1548. 4.00	1470. 4.00	1446. 4.00	1425. 4.00	1405. 4.00	1383. 4.00	507. 4.00
HYDROGRAPH AT +	PS01-C	.41	1	FLOW TIME	333. 3.83	326. 3.83	312. 3.83	299. 3.83	294. 3.83	291. 3.83	288. 3.83	284. 3.83	125. 3.83
ROUTED TO +	RPS01-C	.41	1	FLOW TIME	332. 3.83	325. 3.83	311. 3.83	298. 3.83	293. 3.83	289. 3.83	286. 3.83	283. 3.83	123. 3.83
HYDROGRAPH AT +	PS03	.19	1	FLOW TIME	242. 3.67	237. 3.67	229. 3.67	221. 3.67	218. 3.67	216. 3.67	214. 3.67	211. 3.67	108. 3.67
2 COMBINED AT +	CPS03	.60	1	FLOW TIME	534. 3.75	521. 3.75	501. 3.75	482. 3.75	473. 3.75	468. 3.75	464. 3.75	457. 3.75	211. 3.75
HYDROGRAPH AT +	ED01	.25	1	FLOW TIME	210. 3.83	205. 3.83	197. 3.83	188. 3.83	185. 3.83	183. 3.83	181. 3.83	179. 3.83	79. 3.83
ROUTED TO +	RED01	.25	1	FLOW TIME	211. 4.00	206. 4.00	198. 4.00	190. 4.00	186. 4.00	184. 4.00	182. 4.00	180. 4.00	80. 4.08
HYDROGRAPH AT +	ED02	.31	1	FLOW TIME	281. 3.83	275. 3.83	265. 3.83	255. 3.83	251. 3.83	248. 3.83	246. 3.83	243. 3.83	117. 3.83
HYDROGRAPH AT +	ED11	.24	1	FLOW TIME	196. 3.83	192. 3.83	184. 3.83	176. 3.83	173. 3.83	171. 3.83	169. 3.83	167. 3.83	73. 3.83
HYDROGRAPH AT +	ED12	.20	1	FLOW TIME	211. 3.75	207. 3.75	200. 3.75	192. 3.75	190. 3.75	188. 3.75	186. 3.75	184. 3.75	94. 3.75
2 COMBINED AT +	CED12	.44	1	FLOW TIME	404. 3.75	395. 3.75	380. 3.75	365. 3.75	359. 3.75	355. 3.75	352. 3.75	347. 3.75	165. 3.83
ROUTED TO +	RCED12	.44	1	FLOW TIME	407. 3.92	398. 3.92	383. 3.92	368. 3.92	362. 3.92	358. 3.92	355. 3.92	350. 3.92	167. 4.00
HYDROGRAPH AT +	ED13	.21	1	FLOW TIME	217. 3.83	213. 3.83	206. 3.83	199. 3.83	196. 3.83	194. 3.83	193. 3.83	191. 3.83	101. 3.83
2 COMBINED AT +	CED13	.65	1	FLOW TIME	611. 3.92	598. 3.92	577. 3.92	555. 3.92	547. 3.92	541. 3.92	536. 3.92	529. 3.92	256. 3.92

ROUTED TO													
+	RCED13	.65	1	FLOW	607.	593.	572.	551.	542.	536.	531.	524.	254.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
3 COMBINED AT													
+	CED02	1.21	1	FLOW	1082.	1057.	1018.	979.	963.	952.	943.	930.	439.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
ROUTED TO													
+	RCED02	1.21	1	FLOW	1072.	1048.	1008.	970.	953.	941.	933.	920.	437.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
HYDROGRAPH AT													
+	DCPS03	.00	1	FLOW	265.	260.	252.	244.	241.	239.	237.	234.	125.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO													
+	RDPS03	.00	1	FLOW	261.	255.	249.	239.	235.	233.	232.	230.	125.
				TIME	3.92	3.92	3.92	4.00	4.00	4.00	4.00	4.00	4.00
3 COMBINED AT													
+	CCPS03	1.81	1	FLOW	1791.	1751.	1688.	1624.	1596.	1578.	1564.	1545.	726.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
ROUTED TO													
+	RCCPS03	1.81	1	FLOW	1777.	1736.	1677.	1610.	1580.	1565.	1548.	1533.	726.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
HYDROGRAPH AT													
+	PS06-C	.39	1	FLOW	440.	431.	417.	403.	397.	393.	390.	386.	203.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT													
+	CPS06	2.20	1	FLOW	2137.	2089.	2019.	1941.	1906.	1888.	1869.	1850.	868.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
2 COMBINED AT													
+	CCPS06	4.88	1	FLOW	3732.	3639.	3494.	3340.	3281.	3240.	3204.	3165.	1375.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
ROUTED TO													
+	RCCPS06	4.88	1	FLOW	3701.	3610.	3465.	3318.	3263.	3224.	3189.	3146.	1369.
				TIME	3.92	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT													
+	FW09	.25	1	FLOW	282.	277.	268.	260.	257.	254.	253.	250.	141.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
DIVERSION TO													
+	DSM	.25	1	FLOW	142.	137.	128.	120.	117.	114.	113.	110.	36.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
HYDROGRAPH AT													
+	DSPM	.25	1	FLOW	140.	140.	140.	140.	140.	140.	140.	140.	104.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.83
ROUTED TO													
+	RDSPM	.25	1	FLOW	140.	140.	140.	140.	140.	140.	140.	140.	103.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
HYDROGRAPH AT													
+	CE3FD-C	.28	1	FLOW	298.	293.	284.	275.	271.	269.	267.	264.	148.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
2 COMBINED AT													
+	CCE3FD-C	.54	1	FLOW	438.	433.	424.	415.	411.	409.	407.	404.	251.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
ROUTED TO													
+	RCCE3FD	.54	1	FLOW	434.	429.	420.	411.	408.	405.	404.	401.	250.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
2 COMBINED AT													
+	CRCPS06	5.41	1	FLOW	4135.	4035.	3881.	3720.	3658.	3614.	3578.	3534.	1608.
				TIME	3.92	3.92	3.92	3.92	3.92	4.00	4.00	3.92	4.00
ROUTED TO													
+	RCRCPS06	5.41	1	FLOW	4110.	4021.	3868.	3712.	3653.	3614.	3576.	3530.	1600.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT													
+	PS08	.18	1	FLOW	237.	233.	225.	218.	215.	213.	211.	209.	113.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT													
+	CPS08	5.59	1	FLOW	4246.	4144.	3983.	3819.	3755.	3712.	3674.	3629.	1654.
				TIME	3.92	3.92	3.92	3.92	3.92	4.00	4.00	3.92	4.00
HYDROGRAPH AT													
+	ED05-C	.44	1	FLOW	394.	387.	374.	361.	356.	352.	349.	345.	180.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO													
+	RED05-C	.44	1	FLOW	390.	383.	371.	358.	354.	351.	347.	342.	178.

				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT													
+	CCPS08	6.03	1	FLOW TIME	4630.3.92	4523.3.92	4347.3.92	4172.3.92	4107.4.00	4063.4.00	4021.4.00	3968.4.00	1832.4.00
ROUTED TO													
+	RCCPS08	6.03	1	FLOW TIME	4612.4.00	4511.4.00	4342.4.00	4169.4.00	4106.4.00	4060.4.00	4019.4.00	3968.4.00	1824.4.00
HYDROGRAPH AT													
+	ED10-C	.22	1	FLOW TIME	247.3.75	242.3.75	234.3.75	226.3.75	222.3.75	220.3.75	218.3.75	216.3.75	112.3.75
2 COMBINED AT													
+	CED10-C	6.25	1	FLOW TIME	4794.3.92	4680.3.92	4499.3.92	4318.3.92	4246.3.92	4196.4.00	4155.4.00	4104.3.92	1896.4.00
ROUTED TO													
+	RCED10-C	6.25	1	FLOW TIME	4766.4.00	4662.4.00	4486.4.00	4308.4.00	4244.4.00	4194.4.00	4153.4.00	4100.4.00	1887.4.00
HYDROGRAPH AT													
+	SA06-C	.20	1	FLOW TIME	226.3.83	221.3.83	215.3.83	208.3.83	205.3.83	203.3.83	202.3.83	200.3.83	112.3.83
ROUTED TO													
+	RSA06-C	.20	1	FLOW TIME	223.3.83	219.3.83	212.3.83	208.3.83	203.3.83	200.3.83	199.3.83	198.3.83	112.3.92
HYDROGRAPH AT													
+	SA08	.22	1	FLOW TIME	293.3.67	288.3.67	279.3.67	271.3.67	267.3.67	265.3.67	263.3.67	260.3.67	146.3.67
2 COMBINED AT													
+	CSA08	.42	1	FLOW TIME	486.3.75	478.3.75	462.3.75	449.3.75	441.3.75	437.3.75	435.3.75	432.3.75	239.3.75
2 COMBINED AT													
+	CCSA08	6.67	1	FLOW TIME	5179.3.92	5057.3.92	4863.3.92	4670.3.92	4593.3.92	4537.3.92	4493.3.92	4442.3.92	2071.4.00
DIVERSION TO													
+	DSAHARA	6.67	1	FLOW TIME	3729.3.92	3607.3.92	3413.3.92	3220.3.92	3143.3.92	3087.3.92	3043.3.92	2992.3.92	1036.4.00
HYDROGRAPH AT													
+	DCCSA08	6.67	1	FLOW TIME	1450.3.67	1450.3.67	1450.3.67	1450.3.67	1450.3.67	1450.3.67	1450.3.67	1450.3.67	1036.4.00
ROUTED TO													
+	RCCSA08	6.67	1	FLOW TIME	1456.3.75	1456.3.75	1457.3.75	1458.3.75	1458.3.75	1458.3.75	1459.3.75	1459.3.75	1030.4.00
HYDROGRAPH AT													
+	CH14-C	.17	1	FLOW TIME	163.3.83	160.3.83	155.3.83	150.3.83	147.3.83	146.3.83	145.3.83	143.3.83	75.3.83
ROUTED TO													
+	RCH14-C	.17	1	FLOW TIME	161.3.92	159.3.92	154.3.92	148.3.92	146.3.92	146.3.92	145.3.92	144.3.92	75.3.92
HYDROGRAPH AT													
+	OK09-C	.38	1	FLOW TIME	303.4.00	297.4.00	288.4.00	278.4.00	274.4.00	271.4.00	269.4.00	266.4.00	141.4.00
2 COMBINED AT													
+	COK09-C	.55	1	FLOW TIME	461.4.00	453.4.00	438.4.00	423.4.00	417.4.00	413.4.00	411.4.00	406.4.00	215.4.00
ROUTED TO													
+	RCOK09-C	.55	1	FLOW TIME	459.4.00	451.4.00	436.4.00	421.4.00	415.4.00	412.4.00	409.4.00	405.4.00	213.4.00
HYDROGRAPH AT													
+	OK10	.31	1	FLOW TIME	309.3.83	303.3.83	293.3.83	282.3.83	278.3.83	275.3.83	273.3.83	270.3.83	139.3.83
2 COMBINED AT													
+	COK10	.85	1	FLOW TIME	735.3.92	721.3.92	697.3.92	672.3.92	663.3.92	657.3.92	653.3.92	646.3.92	335.3.92
ROUTED TO													
+	RCOK10	.85	1	FLOW TIME	729.3.92	715.3.92	690.3.92	666.3.92	656.3.92	651.3.92	648.3.92	638.3.92	333.4.00
HYDROGRAPH AT													
+	OK11-C	.31	1	FLOW TIME	253.4.00	248.4.00	239.4.00	231.4.00	227.4.00	225.4.00	223.4.00	221.4.00	112.4.00
2 COMBINED AT													
+	1COK11C	1.16	1	FLOW TIME	981.3.92	962.3.92	928.3.92	895.3.92	882.3.92	874.3.92	870.3.92	857.3.92	444.4.00
2 COMBINED AT													

+		COK11C	7.83	1	FLOW TIME	2431. 3.92	2412. 3.92	2378. 3.92	2345. 3.92	2332. 3.92	2324. 3.92	2320. 3.92	2307. 3.92	1474. 4.00
	ROUTED TO													
+		RCOK11C	7.83	1	FLOW TIME	2426. 4.00	2406. 4.00	2375. 4.00	2342. 4.00	2329. 4.00	2320. 4.00	2315. 4.00	2305. 4.00	1456. 4.00
	HYDROGRAPH AT													
+		WAL1	.21	1	FLOW TIME	213. 3.75	209. 3.75	201. 3.75	194. 3.75	191. 3.75	188. 3.75	187. 3.75	185. 3.75	90. 3.75
	ROUTED TO													
+		RWAL1	.21	1	FLOW TIME	212. 3.92	207. 3.92	200. 3.92	193. 3.92	190. 3.92	188. 3.92	186. 3.92	184. 3.92	90. 3.92
	HYDROGRAPH AT													
+		WAL2	.25	1	FLOW TIME	207. 3.83	202. 3.83	194. 3.83	186. 3.83	183. 3.83	181. 3.83	179. 3.83	176. 3.83	79. 3.83
	2 COMBINED AT													
+		CWAL2	.45	1	FLOW TIME	418. 3.83	408. 3.83	392. 3.83	377. 3.83	370. 3.83	366. 3.83	363. 3.83	358. 3.83	166. 3.92
	2 COMBINED AT													
+		CCWAL2	8.28	1	FLOW TIME	2822. 3.92	2793. 3.92	2746. 3.92	2700. 3.92	2679. 3.92	2668. 3.92	2659. 3.92	2644. 3.92	1611. 4.00
	ROUTED TO													
+		RCCWAL2	8.28	1	FLOW TIME	2803. 3.92	2776. 3.92	2730. 3.92	2682. 3.92	2661. 3.92	2649. 3.92	2641. 4.00	2627. 3.92	1595. 4.08
	HYDROGRAPH AT													
+		CH50	.26	1	FLOW TIME	242. 4.00	237. 4.00	230. 4.00	223. 4.00	220. 4.00	218. 4.00	217. 4.00	215. 4.00	122. 4.00
	2 COMBINED AT													
+		CCH50	8.54	1	FLOW TIME	3043. 3.92	3012. 3.92	2959. 3.92	2904. 3.92	2880. 3.92	2865. 4.00	2857. 4.00	2840. 3.92	1712. 4.08
	HYDROGRAPH AT													
+		CH15-C	.24	1	FLOW TIME	262. 3.75	257. 3.75	249. 3.75	240. 3.75	237. 3.75	234. 3.75	232. 3.75	230. 3.75	120. 3.75
	ROUTED TO													
+		RCH15-C	.24	1	FLOW TIME	263. 3.92	258. 3.92	249. 3.92	241. 3.92	237. 3.92	235. 3.92	233. 3.92	230. 3.92	120. 3.92
	HYDROGRAPH AT													
+		CH18-C	.29	1	FLOW TIME	309. 3.75	303. 3.75	292. 3.75	282. 3.75	278. 3.75	275. 3.75	273. 3.75	269. 3.75	136. 3.75
	2 COMBINED AT													
+		CCH18-C	.53	1	FLOW TIME	549. 3.83	538. 3.83	519. 3.83	501. 3.83	493. 3.83	488. 3.83	484. 3.83	478. 3.83	240. 3.83
	ROUTED TO													
+		RCCH18-C	.53	1	FLOW TIME	547. 3.83	536. 3.83	517. 3.83	499. 3.83	491. 3.83	486. 3.83	483. 3.83	476. 3.83	239. 3.92
	HYDROGRAPH AT													
+		AL92	.43	1	FLOW TIME	279. 3.92	272. 3.92	261. 3.92	249. 3.92	244. 3.92	241. 3.92	239. 3.92	235. 3.92	98. 4.00
	DIVERSION TO													
+		DAL93	.43	1	FLOW TIME	108. 3.92	105. 3.92	101. 3.92	96. 3.92	95. 3.92	93. 3.92	92. 3.92	91. 3.92	38. 4.00
	HYDROGRAPH AT													
+		DAL92	.43	1	FLOW TIME	171. 3.92	167. 3.92	160. 3.92	153. 3.92	150. 3.92	148. 3.92	146. 3.92	144. 3.92	60. 4.00
	ROUTED TO													
+		RDAL92	.43	1	FLOW TIME	170. 4.08	165. 4.08	158. 4.08	151. 4.08	149. 4.08	147. 4.08	145. 4.08	143. 4.08	59. 4.17
	HYDROGRAPH AT													
+		AL95-C	.19	1	FLOW TIME	165. 3.75	161. 3.75	154. 3.75	148. 3.75	145. 3.75	143. 3.75	142. 3.75	140. 3.75	59. 3.75
	2 COMBINED AT													
+		CAL95	.62	1	FLOW TIME	294. 3.92	286. 3.92	274. 3.92	262. 3.92	257. 3.92	253. 3.92	251. 3.92	247. 3.92	100. 3.92
	ROUTED TO													
+		RCAL95-C	.62	1	FLOW TIME	293. 3.92	286. 3.92	273. 3.92	261. 3.92	256. 3.92	253. 3.92	250. 3.92	246. 3.92	99. 4.00
	2 COMBINED AT													
+		CCCH18-C	1.15	1	FLOW TIME	832. 3.83	814. 3.83	783. 3.83	751. 3.83	739. 3.83	730. 3.83	724. 3.83	714. 3.83	337. 3.92
	ROUTED TO													
+		RCCCH18C	1.15	1	FLOW TIME	821. 3.92	803. 3.92	774. 3.92	744. 3.92	732. 3.92	723. 3.92	718. 3.92	707. 3.92	334. 3.92

HYDROGRAPH AT +	CH22-C	.23	1	FLOW TIME	253. 3.83	248. 3.83	241. 3.83	234. 3.83	231. 3.83	229. 3.83	227. 3.83	225. 3.83	129. 3.83
2 COMBINED AT +	CCH22	1.38	1	FLOW TIME	1068. 3.83	1045. 3.83	1008. 3.92	971. 3.92	956. 3.92	945. 3.92	938. 3.92	926. 3.92	460. 3.92
2 COMBINED AT +	CCCH22	9.92	1	FLOW TIME	4109. 3.92	4056. 3.92	3966. 3.92	3874. 3.92	3836. 3.92	3810. 3.92	3794. 3.92	3766. 3.92	2148. 4.00
ROUTED TO +	RCCCH22	9.92	1	FLOW TIME	4065. 3.92	4010. 3.92	3920. 3.92	3828. 4.00	3787. 4.00	3766. 3.92	3751. 4.00	3722. 4.00	2123. 4.08
HYDROGRAPH AT +	AL96-C	.18	1	FLOW TIME	218. 3.75	214. 3.75	208. 3.75	201. 3.75	199. 3.75	197. 3.75	196. 3.75	194. 3.75	111. 3.75
2 COMBINED AT +	CAL96	10.10	1	FLOW TIME	4255. 3.92	4197. 3.92	4102. 3.92	4004. 3.92	3960. 3.92	3938. 3.92	3922. 3.92	3884. 3.92	2192. 4.08
ROUTED TO +	RCAL96	10.10	1	FLOW TIME	4218. 4.00	4169. 4.00	4074. 4.00	3978. 4.00	3940. 4.00	3913. 4.00	3897. 4.00	3869. 4.00	2187. 4.08
HYDROGRAPH AT +	DAL93	.00	1	FLOW TIME	108. 3.92	105. 3.92	101. 3.92	96. 3.92	95. 3.92	93. 3.92	92. 3.92	91. 3.92	38. 4.00
ROUTED TO +	RDAL93	.00	1	FLOW TIME	108. 4.25	105. 4.25	101. 4.25	96. 4.33	95. 4.33	93. 4.33	93. 4.33	91. 4.33	38. 4.42
HYDROGRAPH AT +	AL93-C	.52	1	FLOW TIME	540. 3.75	529. 3.75	511. 3.75	493. 3.83	486. 3.83	481. 3.83	477. 3.83	472. 3.83	246. 3.83
3 COMBINED AT +	CAL93	10.63	1	FLOW TIME	4731. 3.92	4648. 3.92	4535. 4.00	4421. 4.00	4374. 4.00	4342. 4.00	4322. 4.00	4288. 4.00	2359. 4.08
HYDROGRAPH AT +	1-GOLF	.36	1	FLOW TIME	345. 3.75	338. 3.75	325. 3.75	311. 3.75	306. 3.75	303. 3.75	300. 3.75	296. 3.75	135. 3.75
ROUTED TO +	R1-GOLF	.36	1	FLOW TIME	339. 3.83	331. 3.83	322. 3.83	306. 3.83	304. 3.83	302. 3.83	298. 3.83	291. 3.83	136. 3.83
HYDROGRAPH AT +	2a-OAK-C	.31	1	FLOW TIME	309. 3.75	302. 3.75	290. 3.75	279. 3.75	275. 3.75	272. 3.75	269. 3.75	266. 3.75	125. 3.75
2 COMBINED AT +	C2a-OAK	.68	1	FLOW TIME	634. 3.75	621. 3.75	597. 3.75	573. 3.75	567. 3.75	559. 3.83	553. 3.83	542. 3.83	257. 3.83
ROUTED TO +	RC2a-OAK	.68	1	FLOW TIME	636. 3.83	623. 3.83	598. 3.83	574. 3.83	567. 3.83	561. 3.92	554. 3.92	544. 3.92	258. 3.92
HYDROGRAPH AT +	3-ELP-C	.21	1	FLOW TIME	251. 3.67	246. 3.67	237. 3.67	229. 3.67	225. 3.67	223. 3.67	221. 3.67	218. 3.67	111. 3.67
2 COMBINED AT +	C3-ELP-C	.88	1	FLOW TIME	839. 3.83	823. 3.83	790. 3.83	760. 3.83	751. 3.83	740. 3.83	732. 3.83	720. 3.83	334. 3.83
ROUTED TO +	RC3-ELPC	.88	1	FLOW TIME	835. 3.83	818. 3.83	786. 3.83	755. 3.83	746. 3.83	736. 3.83	727. 3.83	716. 3.83	333. 3.92
HYDROGRAPH AT +	3a-OAK-C	.43	1	FLOW TIME	403. 3.75	393. 3.75	378. 3.75	362. 3.75	356. 3.75	352. 3.75	349. 3.75	344. 3.75	153. 3.75
2 COMBINED AT +	C3a-OAKC	1.32	1	FLOW TIME	1201. 3.83	1176. 3.83	1131. 3.83	1086. 3.83	1071. 3.83	1057. 3.83	1046. 3.83	1030. 3.83	471. 3.83
ROUTED TO +	RC3aOAKC	1.32	1	FLOW TIME	1198. 3.83	1175. 3.83	1129. 3.83	1084. 3.83	1069. 3.83	1055. 3.83	1042. 3.83	1027. 3.83	462. 3.83
HYDROGRAPH AT +	3-HOLM-C	.33	1	FLOW TIME	352. 3.75	345. 3.75	334. 3.75	322. 3.75	317. 3.75	314. 3.75	311. 3.75	308. 3.75	157. 3.75
ROUTED TO +	R3-HOLMC	.33	1	FLOW TIME	346. 3.83	339. 3.83	327. 3.83	316. 3.83	312. 3.83	308. 3.83	306. 3.83	302. 3.83	156. 3.83

HYDROGRAPH AT +	5-OAK-C	.23	1	FLOW TIME	257. 3.67	251. 3.67	242. 3.67	232. 3.67	229. 3.67	226. 3.67	224. 3.67	221. 3.67	105. 3.67
2 COMBINED AT +	C5-OAK-C	.56	1	FLOW TIME	586. 3.75	573. 3.75	553. 3.75	533. 3.75	525. 3.75	519. 3.75	516. 3.75	509. 3.75	253. 3.75
2 COMBINED AT +	OAKEYIN	1.88	1	FLOW TIME	1751. 3.83	1717. 3.83	1652. 3.83	1589. 3.83	1567. 3.83	1547. 3.83	1530. 3.83	1509. 3.83	707. 3.83
ROUTED TO +	OAKEYDB	1.88	1	FLOW TIME	32. 6.33	32. 6.33	32. 6.33	31. 6.33	31. 6.33	31. 6.33	31. 6.33	31. 6.33	25. 6.17
** PEAK STAGES IN FEET **													
			1	STAGE TIME	45.40 6.33	45.16 6.33	44.76 6.33	44.34 6.33	44.18 6.33	44.07 6.33	43.98 6.33	43.85 6.33	38.09 6.17
ROUTED TO +	OAKEYOT	1.88	1	FLOW TIME	32. 6.50	32. 6.50	32. 6.50	31. 6.50	31. 6.50	31. 6.50	31. 6.50	31. 6.50	25. 6.42
HYDROGRAPH AT +	SA01-C	.26	1	FLOW TIME	321. 3.75	315. 3.75	306. 3.75	296. 3.75	293. 3.75	290. 3.75	288. 3.75	285. 3.75	163. 3.75
ROUTED TO +	RSA01-C	.26	1	FLOW TIME	322. 3.92	316. 3.92	307. 3.92	298. 3.92	294. 3.92	291. 3.92	289. 3.92	286. 3.92	162. 3.92
HYDROGRAPH AT +	SA05	.18	1	FLOW TIME	212. 3.75	208. 3.75	202. 3.75	195. 3.75	193. 3.75	191. 3.75	189. 3.75	187. 3.75	103. 3.75
2 COMBINED AT +	CSA05	.44	1	FLOW TIME	503. 3.83	493. 3.83	478. 3.83	462. 3.83	456. 3.83	452. 3.83	449. 3.83	444. 3.83	248. 3.92
ROUTED TO +	RCSA05	.44	1	FLOW TIME	495. 3.92	487. 3.92	472. 3.92	457. 3.92	451. 3.92	447. 3.92	445. 3.92	440. 3.92	246. 3.92
HYDROGRAPH AT +	SA06	.08	1	FLOW TIME	119. 3.58	116. 3.58	113. 3.58	109. 3.58	108. 3.58	107. 3.58	106. 3.58	105. 3.58	59. 3.58
2 COMBINED AT +	CSA06	.52	1	FLOW TIME	566. 3.83	556. 3.83	538. 3.83	520. 3.83	513. 3.83	509. 3.83	505. 3.83	499. 3.83	274. 3.92
HYDROGRAPH AT +	OK06-C	.17	1	FLOW TIME	198. 3.75	194. 3.75	188. 3.75	181. 3.75	179. 3.75	177. 3.75	176. 3.75	174. 3.75	91. 3.75
ROUTED TO +	ROK06-C	.17	1	FLOW TIME	201. 3.92	197. 3.92	190. 3.92	184. 3.92	181. 3.92	179. 3.92	178. 3.92	176. 3.92	91. 3.92
HYDROGRAPH AT +	OK07	.24	1	FLOW TIME	223. 3.75	218. 3.75	210. 3.75	202. 3.75	198. 3.75	196. 3.75	194. 3.75	192. 3.75	88. 3.75
3 COMBINED AT +	COK07	.93	1	FLOW TIME	976. 3.83	957. 3.83	924. 3.83	891. 3.83	878. 3.83	870. 3.83	863. 3.83	852. 3.83	445. 3.92
ROUTED TO +	RCOK07	.93	1	FLOW TIME	967. 3.83	948. 3.83	916. 3.83	883. 3.83	870. 3.83	861. 3.83	854. 3.83	844. 3.83	443. 3.92
HYDROGRAPH AT +	OK03-C	.36	1	FLOW TIME	402. 3.75	394. 3.75	381. 3.75	367. 3.75	362. 3.75	358. 3.75	356. 3.75	351. 3.75	181. 3.75
ROUTED TO +	ROK03-C	.36	1	FLOW TIME	401. 3.92	393. 3.92	380. 3.92	367. 3.92	362. 3.92	358. 3.92	356. 3.92	352. 3.92	183. 3.92
HYDROGRAPH AT +	OK04-C	.20	1	FLOW TIME	164. 3.83	160. 3.83	154. 3.83	148. 3.83	145. 3.83	143. 3.83	142. 3.83	140. 3.83	62. 3.83
3 COMBINED AT +	COK04-C	1.49	1	FLOW TIME	1527. 3.83	1496. 3.83	1443. 3.83	1390. 3.83	1370. 3.83	1355. 3.83	1344. 3.83	1328. 3.83	685. 3.92
ROUTED TO +	RCOK04-C	1.49	1	FLOW TIME	1511. 3.83	1478. 3.83	1426. 3.92	1377. 3.92	1358. 3.92	1344. 3.92	1335. 3.92	1317. 3.92	679. 3.92
HYDROGRAPH AT +	OK08	.08	1	FLOW	116. 3.83	114. 3.83	110. 3.83	106. 3.83	104. 3.83	103. 3.83	103. 3.83	101. 3.83	52. 3.83

				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT													
+	COK08	1.58	1	FLOW TIME	1580.3.83	1546.3.83	1491.3.83	1435.3.83	1415.3.83	1400.3.83	1389.3.83	1371.3.83	703.3.92
2 COMBINED AT													
+	CCOK08	3.46	1	FLOW TIME	1601.3.83	1567.3.83	1512.3.83	1456.3.83	1436.3.83	1420.3.83	1409.3.83	1390.3.83	719.3.92
ROUTED TO													
+	RCCOK08	3.46	1	FLOW TIME	1584.3.92	1551.3.92	1499.3.92	1446.3.92	1426.3.92	1412.3.92	1401.3.92	1384.3.92	709.3.92
HYDROGRAPH AT													
+	CH04-C	.17	1	FLOW TIME	234.3.67	230.3.67	223.3.67	216.3.67	213.3.67	211.3.67	209.3.67	207.3.67	113.3.67
ROUTED TO													
+	RCH04-C	.17	1	FLOW TIME	230.3.67	225.3.67	219.3.67	211.3.67	209.3.67	206.3.67	205.3.67	202.3.67	109.3.67
HYDROGRAPH AT													
+	CH05-C	.16	1	FLOW TIME	201.3.75	197.3.75	191.3.75	185.3.75	183.3.75	181.3.75	180.3.75	178.3.75	101.3.75
2 COMBINED AT													
+	CCH05-C	.34	1	FLOW TIME	422.3.67	414.3.67	401.3.67	388.3.75	383.3.67	380.3.75	377.3.67	373.3.75	209.3.75
ROUTED TO													
+	RCCH05-C	.34	1	FLOW TIME	423.3.75	414.3.75	400.3.75	388.3.75	383.3.75	380.3.75	377.3.75	372.3.75	205.3.75
HYDROGRAPH AT													
+	CH09-C	.38	1	FLOW TIME	416.3.75	408.3.75	394.3.75	381.3.75	375.3.75	371.3.75	369.3.75	364.3.75	191.3.75
2 COMBINED AT													
+	CCH09-C	.72	1	FLOW TIME	838.3.75	821.3.75	794.3.75	768.3.75	759.3.75	751.3.75	746.3.75	737.3.75	395.3.75
ROUTED TO													
+	RCCH09-C	.72	1	FLOW TIME	826.3.75	807.3.75	781.3.75	754.3.75	745.3.75	739.3.75	732.3.75	724.3.75	392.3.83
HYDROGRAPH AT													
+	CH10	.28	1	FLOW TIME	386.3.67	379.3.67	367.3.67	355.3.67	350.3.67	347.3.67	345.3.67	341.3.67	189.3.67
2 COMBINED AT													
+	CCH10	1.00	1	FLOW TIME	1166.3.75	1142.3.75	1105.3.75	1069.3.75	1055.3.75	1046.3.75	1038.3.75	1026.3.75	552.3.75
ROUTED TO													
+	RCCH10	1.00	1	FLOW TIME	1162.3.75	1138.3.75	1101.3.75	1065.3.75	1051.3.75	1042.3.75	1034.3.75	1022.3.75	547.3.75
HYDROGRAPH AT													
+	OK12	.05	1	FLOW TIME	85.3.58	83.3.58	81.3.58	78.3.58	77.3.58	77.3.58	76.3.58	76.3.58	45.3.58
3 COMBINED AT													
+	COK12	4.50	1	FLOW TIME	2705.3.83	2651.3.83	2560.3.83	2471.3.83	2437.3.83	2409.3.83	2393.3.83	2362.3.83	1207.3.83
ROUTED TO													
+	RCOK12	4.50	1	FLOW TIME	2692.3.83	2637.3.83	2547.3.83	2457.3.83	2423.3.83	2395.3.83	2379.3.83	2349.3.83	1205.3.92
HYDROGRAPH AT													
+	CH14B	.22	1	FLOW TIME	226.3.75	222.3.75	214.3.75	206.3.75	203.3.75	201.3.75	200.3.75	197.3.75	101.3.83
2 COMBINED AT													
+	CCH14B	4.72	1	FLOW TIME	2915.3.83	2856.3.83	2758.3.83	2661.3.83	2624.3.83	2595.3.83	2577.3.83	2544.3.83	1300.3.92
ROUTED TO													
+	RCCH14B	4.72	1	FLOW TIME	2895.3.83	2835.3.83	2737.3.83	2639.3.83	2603.3.83	2573.3.83	2555.3.83	2522.3.83	1297.3.92
HYDROGRAPH AT													
+	OK13	.10	1	FLOW TIME	107.3.83	105.3.83	102.3.83	99.3.83	97.3.83	96.3.83	96.3.83	95.3.83	52.3.83
2 COMBINED AT													
+	COK13	4.82	1	FLOW TIME	3003.3.83	2941.3.83	2839.3.83	2738.3.83	2700.3.83	2670.3.83	2651.3.83	2617.3.83	1345.3.92
ROUTED TO													
+	RCOK13	4.82	1	FLOW TIME	2976.3.83	2916.3.83	2812.3.83	2711.3.83	2673.3.83	2642.3.83	2622.3.83	2588.3.83	1337.3.92
HYDROGRAPH AT													

+	R1	.09	1	FLOW TIME	110. 3.67	108. 3.67	104. 3.67	101. 3.67	99. 3.67	98. 3.67	98. 3.67	96. 3.67	50. 3.67
ROUTED TO +	PR1	.09	1	FLOW TIME	72. 3.83	71. 3.83	68. 3.83	66. 3.83	65. 3.83	64. 3.83	64. 3.83	63. 3.83	32. 3.83
				** PEAK STAGES IN FEET **									
			1	STAGE TIME	12.98 3.83	12.92 3.83	12.82 3.83	12.73 3.83	12.69 3.83	12.66 3.83	12.64 3.83	12.61 3.83	11.37 3.83
ROUTED TO +	RPR1	.09	1	FLOW TIME	72. 4.00	71. 4.00	68. 4.00	66. 4.00	65. 4.00	64. 4.00	64. 4.00	63. 4.00	32. 4.00
HYDROGRAPH AT +	R3	.28	1	FLOW TIME	317. 3.75	311. 3.75	301. 3.75	290. 3.75	286. 3.75	284. 3.75	281. 3.75	278. 3.75	146. 3.75
HYDROGRAPH AT +	R2	.05	1	FLOW TIME	57. 3.67	56. 3.67	54. 3.67	52. 3.67	51. 3.67	51. 3.67	50. 3.67	50. 3.67	26. 3.67
3 COMBINED AT +	CR2	.41	1	FLOW TIME	415. 3.75	407. 3.75	393. 3.75	379. 3.75	373. 3.75	369. 3.75	367. 3.75	362. 3.75	185. 3.75
DIVERSION TO +	DAL00A	.41	1	FLOW TIME	265. 3.75	257. 3.75	243. 3.75	229. 3.75	223. 3.75	219. 3.75	217. 3.75	212. 3.75	35. 3.75
HYDROGRAPH AT +	DCR2	.41	1	FLOW TIME	150. 3.42	150. 3.42	150. 3.42	150. 3.42	150. 3.42	150. 3.50	150. 3.50	150. 3.50	150. 3.67
ROUTED TO +	RDCR2	.41	1	FLOW TIME	151. 3.58	151. 3.58	151. 3.58	151. 3.58	151. 3.58	151. 3.58	151. 3.58	151. 3.58	151. 3.83
HYDROGRAPH AT +	AL01A	.12	1	FLOW TIME	149. 3.67	146. 3.67	141. 3.67	136. 3.67	134. 3.67	133. 3.67	132. 3.67	130. 3.67	66. 3.67
2 COMBINED AT +	CAL01A	.53	1	FLOW TIME	298. 3.67	295. 3.67	290. 3.67	285. 3.67	283. 3.67	282. 3.67	281. 3.67	280. 3.67	214. 3.75
ROUTED TO +	RCAL01A	.53	1	FLOW TIME	296. 3.67	293. 3.67	288. 3.67	283. 3.67	281. 3.67	280. 3.67	279. 3.67	278. 3.67	214. 3.75
HYDROGRAPH AT +	US	.03	1	FLOW TIME	42. 3.58	42. 3.58	40. 3.58	39. 3.58	38. 3.58	38. 3.58	37. 3.58	37. 3.58	19. 3.58
2 COMBINED AT +	CUS	.56	1	FLOW TIME	335. 3.67	331. 3.67	325. 3.67	318. 3.67	316. 3.67	314. 3.67	313. 3.67	311. 3.67	228. 3.75
HYDROGRAPH AT +	AL04-C	.18	1	FLOW TIME	186. 3.75	183. 3.75	176. 3.75	170. 3.75	167. 3.75	166. 3.75	164. 3.75	162. 3.75	82. 3.75
ROUTED TO +	RAL04-C	.18	1	FLOW TIME	183. 3.75	180. 3.75	173. 3.75	167. 3.75	165. 3.83	163. 3.83	161. 3.83	160. 3.83	82. 3.83
2 COMBINED AT +	CCUS	.74	1	FLOW TIME	506. 3.75	499. 3.75	487. 3.75	475. 3.75	470. 3.75	467. 3.75	464. 3.75	461. 3.75	308. 3.75
ROUTED TO +	RCCUS	.74	1	FLOW TIME	504. 3.75	497. 3.75	485. 3.75	473. 3.75	468. 3.75	464. 3.75	462. 3.75	458. 3.75	303. 3.75
HYDROGRAPH AT +	AL05-C	.23	1	FLOW TIME	235. 3.83	230. 3.83	222. 3.83	214. 3.83	211. 3.83	209. 3.83	207. 3.83	205. 3.83	105. 3.83
HYDROGRAPH AT +	GS	.04	1	FLOW TIME	50. 3.58	49. 3.58	47. 3.58	46. 3.58	45. 3.58	44. 3.58	44. 3.58	44. 3.58	22. 3.58
DIVERSION TO +	DGSR	.04	1	FLOW TIME	18. 3.58	18. 3.58	16. 3.58	15. 3.58	14. 3.58	14. 3.58	14. 3.58	13. 3.58	0. .00
HYDROGRAPH AT +	DGS	.04	1	FLOW TIME	32. 3.58	31. 3.58	31. 3.58	31. 3.58	31. 3.58	30. 3.58	30. 3.58	30. 3.58	22. 3.58
3 COMBINED AT +	CAL05-C	1.01	1	FLOW TIME	766. 3.75	754. 3.75	733. 3.75	713. 3.75	705. 3.75	700. 3.75	696. 3.75	689. 3.75	424. 3.75

ROUTED TO +	RCAL05-C	1.01	1	FLOW TIME	754. 3.75	742. 3.75	722. 3.83	703. 3.83	695. 3.83	690. 3.83	686. 3.83	680. 3.83	422. 3.83
HYDROGRAPH AT +	BR3	.07	1	FLOW TIME	111. 3.58	109. 3.58	105. 3.58	102. 3.58	100. 3.58	99. 3.58	99. 3.58	98. 3.58	52. 3.58
2 COMBINED AT +	CBR3	1.08	1	FLOW TIME	828. 3.75	815. 3.75	792. 3.75	770. 3.75	761. 3.75	755. 3.75	751. 3.75	743. 3.75	450. 3.83
ROUTED TO +	RCBR3	1.08	1	FLOW TIME	821. 3.75	808. 3.75	785. 3.75	764. 3.75	754. 3.75	748. 3.75	744. 3.75	736. 3.75	449. 3.83
HYDROGRAPH AT +	AL09-C	.16	1	FLOW TIME	198. 3.67	194. 3.67	187. 3.67	180. 3.67	178. 3.67	176. 3.67	175. 3.67	173. 3.67	88. 3.67
ROUTED TO +	RAL09-C	.16	1	FLOW TIME	190. 3.75	186. 3.75	186. 3.75	179. 3.75	176. 3.75	175. 3.75	173. 3.75	171. 3.75	89. 3.83
HYDROGRAPH AT +	DGSR	.00	1	FLOW TIME	18. 3.58	18. 3.58	16. 3.58	15. 3.58	14. 3.58	14. 3.58	14. 3.58	13. 3.58	0. .00
ROUTED TO +	RDGSR	.00	1	FLOW TIME	16. 3.92	18. 3.92	17. 3.92	16. 3.92	17. 3.92	15. 3.92	13. 3.92	10. 4.00	0. .00
HYDROGRAPH AT +	AL11-C	.13	1	FLOW TIME	163. 3.75	160. 3.75	155. 3.75	151. 3.75	149. 3.75	147. 3.75	146. 3.75	145. 3.75	83. 3.75
4 COMBINED AT +	CAL11-C	1.38	1	FLOW TIME	1174. 3.75	1154. 3.75	1126. 3.75	1093. 3.75	1079. 3.75	1070. 3.75	1064. 3.75	1052. 3.75	615. 3.83
ROUTED TO +	RCAL11-C	1.38	1	FLOW TIME	1157. 3.83	1138. 3.83	1110. 3.83	1078. 3.83	1064. 3.83	1055. 3.83	1049. 3.83	1039. 3.83	611. 3.83
HYDROGRAPH AT +	AL10-C	.05	1	FLOW TIME	61. 3.67	60. 3.67	58. 3.67	56. 3.67	55. 3.67	55. 3.67	54. 3.67	54. 3.67	28. 3.67
2 COMBINED AT +	CAL10-C	1.42	1	FLOW TIME	1213. 3.75	1192. 3.75	1161. 3.75	1126. 3.75	1114. 3.75	1103. 3.75	1095. 3.75	1085. 3.75	634. 3.83
ROUTED TO +	RCAL10-C	1.42	1	FLOW TIME	1206. 3.83	1185. 3.83	1156. 3.83	1122. 3.83	1108. 3.83	1098. 3.83	1092. 3.83	1082. 3.83	630. 3.83
HYDROGRAPH AT +	AL13-3	.06	1	FLOW TIME	83. 3.58	82. 3.58	79. 3.58	76. 3.58	75. 3.58	74. 3.58	74. 3.58	73. 3.58	37. 3.58
2 COMBINED AT +	CAL13-3	1.48	1	FLOW TIME	1262. 3.75	1239. 3.75	1207. 3.75	1170. 3.75	1156. 3.75	1145. 3.75	1137. 3.75	1126. 3.75	652. 3.83
HYDROGRAPH AT +	AL14	.46	1	FLOW TIME	423. 3.92	415. 3.92	402. 3.92	389. 3.92	384. 3.92	380. 3.92	377. 3.92	373. 3.92	206. 4.00
ROUTED TO +	RAL14	.46	1	FLOW TIME	421. 4.00	415. 4.00	401. 4.00	388. 4.00	383. 4.00	380. 4.00	377. 4.00	373. 4.00	205. 4.00
HYDROGRAPH AT +	AL16	.15	1	FLOW TIME	171. 3.75	167. 3.75	162. 3.75	157. 3.75	154. 3.75	153. 3.75	152. 3.75	150. 3.75	80. 3.75
3 COMBINED AT +	1CAL16	2.09	1	FLOW TIME	1793. 3.83	1761. 3.83	1713. 3.83	1661. 3.83	1640. 3.83	1624. 3.83	1614. 3.83	1598. 3.83	908. 3.83
HYDROGRAPH AT +	AL09	.10	1	FLOW TIME	111. 3.67	108. 3.67	105. 3.67	101. 3.67	99. 3.67	98. 3.67	97. 3.67	96. 3.67	49. 3.75
ROUTED TO +	RAL09	.10	1	FLOW TIME	109. 3.75	107. 3.75	104. 3.75	99. 3.75	98. 3.75	98. 3.75	98. 3.75	96. 3.75	49. 3.83
HYDROGRAPH AT +	CH14A	.15	1	FLOW TIME	150. 3.75	147. 3.75	142. 3.75	136. 3.75	134. 3.75	133. 3.75	132. 3.75	130. 3.75	64. 3.75
2 COMBINED AT +	CCH14A	.25	1	FLOW TIME	259. 3.75	254. 3.75	246. 3.75	235. 3.75	233. 3.75	231. 3.75	230. 3.75	226. 3.75	113. 3.75

ROUTED TO													
+	RCCH14A	.25	1	FLOW TIME	253. 3.83	248. 3.75	241. 3.83	231. 3.83	228. 3.83	226. 3.83	225. 3.83	222. 3.83	113. 3.83
2 COMBINED AT													
+	CAL16	2.33	1	FLOW TIME	2046. 3.83	2009. 3.83	1954. 3.83	1892. 3.83	1867. 3.83	1850. 3.83	1839. 3.83	1820. 3.83	1021. 3.83
ROUTED TO													
+	RCAL16	2.33	1	FLOW TIME	2043. 3.83	2005. 3.83	1950. 3.83	1888. 3.83	1863. 3.83	1847. 3.83	1835. 3.83	1816. 3.83	1014. 3.83
2 COMBINED AT													
+	CCAL16	7.15	1	FLOW TIME	5018. 3.83	4920. 3.83	4763. 3.83	4599. 3.83	4536. 3.83	4489. 3.83	4457. 3.83	4404. 3.83	2337. 3.92
ROUTED TO													
+	RCCAL16	7.15	1	FLOW TIME	5005. 3.83	4905. 3.83	4747. 3.83	4584. 3.83	4520. 3.83	4475. 3.83	4443. 3.83	4389. 3.83	2334. 3.92
HYDROGRAPH AT													
+	AL90-C	.17	1	FLOW TIME	195. 3.75	191. 3.75	185. 3.75	178. 3.75	176. 3.75	174. 3.75	173. 3.75	171. 3.75	91. 3.75
2 COMBINED AT													
+	CAL90-C	7.32	1	FLOW TIME	5190. 3.83	5086. 3.83	4923. 3.83	4754. 3.83	4688. 3.83	4640. 3.83	4608. 3.83	4551. 3.83	2412. 3.92
ROUTED TO													
+	RCAL90-C	7.32	1	FLOW TIME	5164. 3.83	5057. 3.83	4893. 3.83	4727. 3.83	4660. 3.83	4610. 3.83	4578. 3.83	4523. 3.83	2405. 3.92
HYDROGRAPH AT													
+	MEDB	.23	1	FLOW TIME	264. 3.58	258. 3.58	248. 3.58	238. 3.58	234. 3.58	231. 3.58	229. 3.58	226. 3.58	104. 3.67
2 COMBINED AT													
+	MEADOWIN	7.55	1	FLOW TIME	5336. 3.83	5225. 3.83	5056. 3.83	4883. 3.83	4814. 3.83	4762. 3.83	4729. 3.83	4672. 3.83	2461. 3.92
ROUTED TO													
+	MEADOWDB	7.55	1	FLOW TIME	2296. 4.42	2155. 4.42	1930. 4.50	1681. 4.58	1578. 4.58	1498. 4.67	1428. 4.75	1421. 4.75	899. 4.58
** PEAK STAGES IN FEET **													
1	STAGE TIME				2113.03 4.42	2112.91 4.42	2112.72 4.50	2112.51 4.58	2112.43 4.58	2112.36 4.67	2112.30 4.75	2112.15 4.75	2106.42 4.58
ROUTED TO													
+	MEADOWOT	7.55	1	FLOW TIME	2291. 4.42	2145. 4.42	1927. 4.50	1680. 4.58	1574. 4.58	1496. 4.67	1428. 4.75	1421. 4.75	898. 4.67
HYDROGRAPH AT													
+	DAL00A	.00	1	FLOW TIME	265. 3.75	257. 3.75	243. 3.75	229. 3.75	223. 3.75	219. 3.75	217. 3.75	212. 3.75	35. 3.75
ROUTED TO													
+	RDAL00A	.00	1	FLOW TIME	259. 3.75	250. 3.75	236. 3.75	223. 3.75	217. 3.75	213. 3.75	210. 3.75	206. 3.75	34. 3.83
HYDROGRAPH AT													
+	AL00A	.47	1	FLOW TIME	495. 3.75	485. 3.75	468. 3.75	452. 3.75	445. 3.75	441. 3.75	437. 3.75	432. 3.75	222. 3.83
HYDROGRAPH AT													
+	AL00A-C	.23	1	FLOW TIME	279. 3.75	274. 3.75	265. 3.75	257. 3.75	253. 3.75	251. 3.75	249. 3.75	247. 3.75	136. 3.75
3 COMBINED AT													
+	RAINBWIN	.70	1	FLOW TIME	1033. 3.75	1009. 3.75	970. 3.75	931. 3.75	916. 3.75	905. 3.75	897. 3.75	884. 3.75	382. 3.83
ROUTED TO													
+	RAINBWDB	.70	1	FLOW TIME	87. 5.42	86. 5.42	85. 5.42	84. 5.42	83. 5.42	83. 5.42	83. 5.42	82. 5.42	61. 5.33
** PEAK STAGES IN FEET **													
1	STAGE TIME				2382.96 5.42	2382.53 5.42	2381.83 5.42	2381.13 5.42	2380.84 5.42	2380.63 5.42	2380.48 5.42	2380.25 5.42	2368.96 5.33
ROUTED TO													
+	RAINBWOT	.70	1	FLOW TIME	87. 5.42	86. 5.42	85. 5.42	84. 5.42	83. 5.42	83. 5.42	83. 5.42	82. 5.42	61. 5.33
HYDROGRAPH AT													
+	LC01-C	.09	1	FLOW TIME	104. 3.75	102. 3.75	99. 3.75	95. 3.75	94. 3.75	93. 3.75	93. 3.75	91. 3.75	49. 3.75
2 COMBINED AT													
+	CLC01-C	.79	1	FLOW TIME	170. 3.75	167. 3.75	162. 3.75	158. 3.75	156. 3.75	155. 3.75	154. 3.75	152. 3.75	90. 3.83
ROUTED TO													
+	RCLC01-C	.79	1	FLOW	170.	168.	163.	158.	157.	155.	154.	153.	91.

				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.92
HYDROGRAPH AT +	WA02-C	.27	1	FLOW TIME	299. 3.75	293. 3.75	284. 3.75	274. 3.75	270. 3.75	267. 3.75	265. 3.75	262. 3.75	138. 3.75
2 COMBINED AT +	CWA02-C	1.06	1	FLOW TIME	460. 3.75	452. 3.75	437. 3.75	423. 3.75	417. 3.75	413. 3.75	410. 3.75	406. 3.75	223. 3.83
HYDROGRAPH AT +	AL01B-C	.37	1	FLOW TIME	358. 3.83	350. 3.83	338. 3.83	326. 3.83	322. 3.83	318. 3.83	316. 3.83	312. 3.83	159. 3.83
2 COMBINED AT +	CCWA02-C	1.43	1	FLOW TIME	815. 3.83	800. 3.83	774. 3.83	748. 3.83	738. 3.83	730. 3.83	725. 3.83	717. 3.83	383. 3.83
ROUTED TO +	RCCWA02C	1.43	1	FLOW TIME	814. 3.83	795. 3.83	769. 3.83	743. 3.83	736. 3.83	725. 3.83	720. 3.83	715. 3.83	376. 3.83
HYDROGRAPH AT +	LC11-C	.38	1	FLOW TIME	404. 3.75	396. 3.75	383. 3.75	370. 3.75	364. 3.75	361. 3.75	358. 3.75	354. 3.75	185. 3.83
2 COMBINED AT +	CLC11-C	1.81	1	FLOW TIME	1215. 3.83	1188. 3.83	1149. 3.83	1110. 3.83	1098. 3.83	1084. 3.83	1076. 3.83	1066. 3.83	561. 3.83
ROUTED TO +	RCLC11-C	1.81	1	FLOW TIME	1208. 3.83	1182. 3.83	1143. 3.83	1104. 3.83	1091. 3.83	1078. 3.83	1069. 3.83	1059. 3.83	553. 3.83
HYDROGRAPH AT +	LC14-C	.32	1	FLOW TIME	304. 3.83	298. 3.83	288. 3.83	277. 3.83	273. 3.83	270. 3.83	268. 3.83	265. 3.83	135. 3.83
2 COMBINED AT +	CLC14-C	2.13	1	FLOW TIME	1512. 3.83	1480. 3.83	1430. 3.83	1381. 3.83	1364. 3.83	1348. 3.83	1338. 3.83	1324. 3.83	689. 3.83
HYDROGRAPH AT +	WA10-C	.45	1	FLOW TIME	405. 3.83	397. 3.83	382. 3.83	367. 3.83	361. 3.83	357. 3.83	354. 3.83	349. 3.83	166. 3.83
DIVERSION TO +	WA10NW	.45	1	FLOW TIME	155. 3.83	147. 3.83	132. 3.83	117. 3.83	111. 3.83	107. 3.83	104. 3.83	99. 3.83	0. .00
HYDROGRAPH AT +	WA10D	.45	1	FLOW TIME	250. 3.58	250. 3.58	250. 3.58	250. 3.58	250. 3.58	250. 3.67	250. 3.67	250. 3.67	166. 3.83
ROUTED TO +	RWA10D	.45	1	FLOW TIME	250. 3.67	250. 3.67	250. 3.67	251. 3.67	251. 3.67	250. 3.75	250. 3.75	250. 3.75	165. 3.83
2 COMBINED AT +	CCLC14-C	2.58	1	FLOW TIME	1762. 3.83	1730. 3.83	1680. 3.83	1631. 3.83	1614. 3.83	1598. 3.83	1588. 3.83	1574. 3.83	853. 3.83
ROUTED TO +	RCCLC14	2.58	1	FLOW TIME	1740. 3.83	1705. 3.83	1658. 3.83	1612. 3.83	1590. 3.92	1575. 3.83	1570. 3.83	1553. 3.92	848. 3.92
2 COMBINED AT +	CRMEDET	10.13	1	FLOW TIME	3161. 4.33	2953. 4.33	2782. 4.00	2709. 4.00	2680. 4.00	2654. 4.00	2644. 4.00	2620. 4.00	1502. 4.00
ROUTED TO +	RCRMEDET	10.13	1	FLOW TIME	3129. 4.33	2938. 4.42	2777. 4.00	2703. 4.00	2674. 4.00	2649. 4.00	2638. 4.00	2614. 4.00	1495. 4.08
HYDROGRAPH AT +	LC16-C	.31	1	FLOW TIME	298. 3.75	291. 3.75	280. 3.75	270. 3.75	265. 3.75	262. 3.75	260. 3.75	256. 3.75	121. 3.83
HYDROGRAPH AT +	OG011AC2	.12	1	FLOW TIME	160. 3.67	157. 3.67	152. 3.67	147. 3.67	145. 3.67	144. 3.67	143. 3.67	141. 3.67	76. 3.67
DIVERSION TO +	OG011D	.12	1	FLOW TIME	115. 3.67	112. 3.67	107. 3.67	102. 3.67	100. 3.67	99. 3.67	98. 3.67	96. 3.67	31. 3.67
HYDROGRAPH AT +	OG011AD	.12	1	FLOW TIME	45. 3.33	45. 3.33	45. 3.33	45. 3.33	45. 3.33	45. 3.33	45. 3.33	45. 3.33	45. 3.50
ROUTED TO +	ROG011AD	.12	1	FLOW TIME	46. 3.58	46. 3.58	46. 3.58	46. 3.58	46. 3.58	46. 3.58	46. 3.58	46. 3.58	47. 3.67

+		WA01-C	.19	1	FLOW TIME	222. 3.67	217. 3.67	209. 3.67	201. 3.67	198. 3.67	196. 3.67	194. 3.67	192. 3.67	93. 3.67
	2 COMBINED AT													
+		CWA01-C	.31	1	FLOW TIME	266. 3.67	261. 3.67	253. 3.67	245. 3.67	242. 3.67	240. 3.67	238. 3.67	236. 3.67	140. 3.67
	ROUTED TO													
+		RWA01	.31	1	FLOW TIME	267. 3.83	262. 3.83	255. 3.83	247. 3.83	244. 3.83	242. 3.83	241. 3.83	238. 3.83	144. 3.92
	HYDROGRAPH AT													
+		WA04-C	.20	1	FLOW TIME	156. 3.92	153. 3.92	147. 3.92	141. 3.92	139. 3.92	137. 3.92	136. 3.92	134. 3.92	63. 3.92
	2 COMBINED AT													
+		CWA04-C	.51	1	FLOW TIME	418. 3.83	410. 3.83	397. 3.83	384. 3.83	379. 3.83	375. 3.83	372. 3.83	368. 3.83	207. 3.92
	ROUTED TO													
+		RCWA04	.51	1	FLOW TIME	414. 3.92	409. 3.92	396. 3.92	379. 3.92	376. 3.92	374. 3.92	373. 3.92	369. 3.92	205. 4.00
	HYDROGRAPH AT													
+		WA09-C	.10	1	FLOW TIME	106. 3.75	104. 3.75	100. 3.75	97. 3.75	95. 3.75	95. 3.75	94. 3.75	93. 3.75	49. 3.83
	2 COMBINED AT													
+		CWA09-C	.61	1	FLOW TIME	511. 3.92	504. 3.92	488. 3.92	468. 3.92	464. 3.92	461. 3.92	459. 3.92	454. 3.92	245. 4.00
	ROUTED TO													
+		RCWA09	.61	1	FLOW TIME	510. 3.92	503. 3.92	487. 3.92	467. 3.92	463. 3.92	460. 3.92	458. 3.92	452. 3.92	244. 4.00
	HYDROGRAPH AT													
+		WA10NW	.00	1	FLOW TIME	155. 3.83	147. 3.83	132. 3.83	117. 3.83	111. 3.83	107. 3.83	104. 3.83	99. 3.83	0. .00
	2 COMBINED AT													
+		CWA10NW	.61	1	FLOW TIME	647. 3.83	630. 3.83	593. 3.92	564. 3.83	554. 3.83	545. 3.83	539. 3.92	529. 3.92	244. 4.00
	ROUTED TO													
+		RCWA10NW	.61	1	FLOW TIME	641. 3.92	625. 3.92	595. 3.92	562. 3.92	553. 3.92	548. 3.92	540. 3.92	533. 3.92	239. 4.00
	HYDROGRAPH AT													
+		WA13-C	.33	1	FLOW TIME	385. 3.67	377. 3.67	364. 3.67	351. 3.67	345. 3.67	342. 3.67	339. 3.67	335. 3.67	167. 3.67
	2 COMBINED AT													
+		CWA13-C	.95	1	FLOW TIME	939. 3.83	914. 3.83	869. 3.83	827. 3.83	812. 3.83	801. 3.83	791. 3.83	777. 3.83	335. 4.00
	DIVERSION TO													
+		WA13NW	.95	1	FLOW TIME	369. 3.83	359. 3.83	343. 3.83	327. 3.83	322. 3.83	318. 3.83	314. 3.83	308. 3.83	132. 4.00
	HYDROGRAPH AT													
+		WA13D	.95	1	FLOW TIME	570. 3.83	555. 3.83	526. 3.83	499. 3.83	490. 3.83	483. 3.83	478. 3.83	469. 3.83	203. 4.00
	ROUTED TO													
+		RWA13D	.95	1	FLOW TIME	557. 3.92	542. 3.92	516. 3.92	490. 3.92	485. 3.92	477. 3.92	474. 3.92	465. 3.92	200. 4.00
	2 COMBINED AT													
+		CLC16-C	1.26	1	FLOW TIME	845. 3.83	822. 3.83	783. 3.83	746. 3.83	734. 3.83	722. 3.83	717. 3.83	703. 3.83	300. 3.92
	2 COMBINED AT													
+		CCLC16-C	11.39	1	FLOW TIME	3682. 3.92	3609. 3.92	3499. 3.92	3392. 3.92	3349. 3.92	3314. 3.92	3299. 3.92	3261. 3.92	1788. 4.00
	ROUTED TO													
+		RCCLC16	11.39	1	FLOW TIME	3648. 4.00	3581. 4.00	3477. 4.00	3371. 4.00	3332. 4.00	3298. 4.00	3281. 4.00	3250. 4.00	1781. 4.08
	HYDROGRAPH AT													
+		LC20-C	.17	1	FLOW TIME	158. 3.92	155. 3.92	150. 3.92	145. 3.92	143. 3.92	141. 3.92	140. 3.92	139. 3.92	73. 3.92
	2 COMBINED AT													
+		CLC20-C	11.56	1	FLOW TIME	3802. 4.00	3732. 4.00	3623. 4.00	3512. 4.00	3472. 4.00	3435. 4.00	3418. 4.00	3385. 4.00	1847. 4.08
	ROUTED TO													
+		RCLC20-C	11.56	1	FLOW TIME	3799. 4.00	3731. 4.00	3619. 4.00	3505. 4.00	3466. 4.00	3430. 4.00	3411. 4.00	3378. 4.00	1844. 4.08
	2 COMBINED AT													
+		CCAL93	22.19	1	FLOW TIME	8507. 4.00	8378. 4.00	8154. 4.00	7925. 4.00	7840. 4.00	7772. 4.00	7733. 4.00	7666. 4.00	4202. 4.08

ROUTED TO +	RCCAL93	22.19	1	FLOW TIME	8480. 4.00	8343. 4.00	8130. 4.00	7887. 4.00	7808. 4.00	7732. 4.00	7700. 4.00	7620. 4.00	4177. 4.08
HYDROGRAPH AT +	LC21	.60	1	FLOW TIME	566. 4.00	557. 4.00	540. 4.00	524. 4.00	517. 4.00	513. 4.00	509. 4.00	504. 4.00	290. 4.00
2 COMBINED AT +	CLC21	22.79	1	FLOW TIME	9046. 4.00	8900. 4.00	8670. 4.00	8411. 4.00	8325. 4.00	8245. 4.00	8209. 4.00	8124. 4.00	4457. 4.08
DIVERSION TO +	DLV0E	22.79	1	FLOW TIME	6176. 4.00	6030. 4.00	5800. 4.00	5541. 4.00	5455. 4.00	5375. 4.00	5339. 4.00	5254. 4.00	1587. 4.08
HYDROGRAPH AT +	DCLC21	22.79	1	FLOW TIME	2870. 3.58	2870. 3.58	2870. 3.58	2870. 3.58	2870. 3.58	2870. 3.58	2870. 3.58	2870. 3.58	2870. 3.83
ROUTED TO +	RDCLC21	22.79	1	FLOW TIME	2870. 3.83	2870. 3.83	2870. 3.83	2870. 3.83	2871. 3.83	2871. 3.83	2871. 3.83	2871. 3.83	2870. 4.08
HYDROGRAPH AT +	V1-C	.28	1	FLOW TIME	317. 3.75	311. 3.75	301. 3.75	291. 3.75	287. 3.75	284. 3.75	282. 3.75	278. 3.75	148. 3.75
HYDROGRAPH AT +	CH59-C	.34	1	FLOW TIME	337. 3.92	331. 3.92	321. 3.92	311. 3.92	307. 3.92	304. 3.92	302. 3.92	299. 3.92	168. 3.92
DIVERSION TO +	DFLAM	.34	1	FLOW TIME	115. 3.92	109. 3.92	99. 3.92	89. 3.92	85. 3.92	82. 3.92	80. 3.92	77. 3.92	0. .00
HYDROGRAPH AT +	DCH59-C	.34	1	FLOW TIME	222. 3.67	222. 3.67	222. 3.67	222. 3.67	222. 3.67	222. 3.67	222. 3.75	222. 3.75	168. 3.92
DIVERSION TO +	DBN03	.34	1	FLOW TIME	55. 3.67	55. 3.67	55. 3.67	55. 3.67	55. 3.67	55. 3.67	55. 3.75	55. 3.75	1. 3.92
HYDROGRAPH AT +	DDCH59-C	.34	1	FLOW TIME	167. 3.58	167. 3.58	167. 3.58	167. 3.58	167. 3.58	167. 3.58	167. 3.58	167. 3.58	167. 3.92
ROUTED TO +	RDDCH59	.34	1	FLOW TIME	168. 3.67	168. 3.67	168. 3.67	168. 3.67	168. 3.67	169. 3.67	169. 3.67	169. 3.67	165. 4.00
3 COMBINED AT +	CV1-C	23.41	1	FLOW TIME	3353. 3.75	3347. 3.75	3336. 3.75	3326. 3.75	3322. 3.75	3319. 3.75	3317. 3.75	3313. 3.75	3159. 3.92
ROUTED TO +	RCV1-C	23.41	1	FLOW TIME	3350. 3.75	3344. 3.75	3332. 3.75	3322. 3.75	3318. 3.75	3315. 3.75	3314. 3.75	3311. 3.75	3149. 4.00
HYDROGRAPH AT +	X-C1	.28	1	FLOW TIME	327. 3.67	320. 3.67	309. 3.67	298. 3.67	294. 3.67	291. 3.67	289. 3.67	285. 3.67	145. 3.67
2 COMBINED AT +	CX-C1	23.69	1	FLOW TIME	3667. 3.75	3655. 3.75	3633. 3.75	3612. 3.75	3604. 3.75	3599. 3.75	3595. 3.75	3589. 3.75	3241. 3.92
ROUTED TO +	RCX-C1	23.69	1	FLOW TIME	3659. 3.75	3646. 3.75	3623. 3.75	3602. 3.75	3593. 3.75	3587. 3.75	3583. 3.75	3576. 3.75	3236. 4.00
HYDROGRAPH AT +	M	.27	1	FLOW TIME	248. 3.83	243. 3.83	235. 3.83	226. 3.83	223. 3.83	221. 3.83	219. 3.83	216. 3.83	109. 3.83
ROUTED TO +	RM	.27	1	FLOW TIME	249. 4.00	243. 4.00	235. 4.00	226. 4.00	223. 4.00	220. 4.00	219. 4.00	216. 4.00	110. 4.08
HYDROGRAPH AT +	N-C	.26	1	FLOW TIME	235. 3.83	230. 3.83	222. 3.83	213. 3.83	210. 3.83	207. 3.83	206. 3.83	203. 3.83	97. 3.83
3 COMBINED AT +	CN-C	24.22	1	FLOW TIME	4057. 3.83	4036. 3.83	4001. 3.83	3965. 3.83	3951. 3.83	3941. 3.83	3934. 3.83	3923. 3.83	3430. 4.00
ROUTED TO +	RCN-C	24.22	1	FLOW TIME	4047. 3.83	4026. 3.83	3990. 3.83	3956. 3.83	3942. 3.83	3931. 3.83	3923. 3.83	3912. 3.83	3418. 4.00
HYDROGRAPH AT +	P-C	.31	1	FLOW TIME	266. 3.83	260. 3.83	250. 3.83	241. 3.83	237. 3.83	234. 3.83	232. 3.83	229. 3.83	106. 3.83

2 COMBINED AT													
+	CP-C	24.53	1	FLOW TIME	4314.3.83	4287.3.83	4241.3.83	4196.3.83	4178.3.83	4165.3.83	4155.3.83	4141.3.83	3514.4.00
ROUTED TO													
+	RCP-C	24.53	1	FLOW TIME	4297.3.83	4268.3.83	4222.3.83	4178.3.83	4157.3.83	4146.3.92	4137.3.92	4123.3.92	3488.4.08
HYDROGRAPH AT													
+	Q-C	.26	1	FLOW TIME	202.3.83	197.3.83	189.3.83	181.3.83	178.3.83	176.3.83	174.3.83	172.3.83	75.3.92
2 COMBINED AT													
+	CQ-C	24.78	1	FLOW TIME	4499.3.83	4465.3.83	4411.3.83	4359.3.83	4335.3.83	4320.3.83	4310.3.83	4294.3.83	3559.4.00
ROUTED TO													
+	RCQ-C	24.78	1	FLOW TIME	4494.3.92	4457.3.92	4406.3.92	4356.3.92	4331.3.92	4316.3.92	4307.3.92	4292.3.92	3552.4.08
HYDROGRAPH AT													
+	LWV01-C	.24	1	FLOW TIME	169.3.92	165.3.92	158.3.92	151.3.92	149.3.92	147.3.92	146.3.92	143.3.92	62.3.92
2 COMBINED AT													
+	CLVW01-C	25.02	1	FLOW TIME	4663.3.92	4622.3.92	4564.3.92	4507.3.92	4480.3.92	4463.3.92	4452.3.92	4435.3.92	3608.4.08
HYDROGRAPH AT													
+	DLVOE	.00	1	FLOW TIME	6176.4.00	6030.4.00	5800.4.00	5541.4.00	5455.4.00	5375.4.00	5339.4.00	5254.4.00	1587.4.08
ROUTED TO													
+	RDLVOE	.00	1	FLOW TIME	6122.4.00	5969.4.00	5735.4.00	5475.4.00	5387.4.00	5306.4.00	5267.4.00	5180.4.00	1552.4.17
HYDROGRAPH AT													
+	H-C1	.29	1	FLOW TIME	355.3.67	348.3.67	336.3.67	325.3.67	320.3.67	317.3.67	315.3.67	311.3.67	164.3.67
2 COMBINED AT													
+	CH-C1	.29	1	FLOW TIME	6316.4.00	6159.4.00	5919.4.00	5653.4.00	5563.4.00	5480.4.00	5440.4.00	5352.4.00	1612.4.17
ROUTED TO													
+	RCH-C1	.29	1	FLOW TIME	6244.4.00	6088.4.00	5838.4.00	5578.4.08	5489.4.08	5415.4.08	5377.4.08	5295.4.08	1618.4.17
HYDROGRAPH AT													
+	E-C	.61	1	FLOW TIME	526.3.83	514.3.83	494.3.83	475.3.83	467.3.83	461.3.83	457.3.83	451.3.83	208.3.83
2 COMBINED AT													
+	CE-C	.90	1	FLOW TIME	6701.4.00	6536.4.00	6269.4.00	5982.4.00	5882.4.00	5795.4.00	5752.4.00	5658.4.00	1758.4.17
ROUTED TO													
+	RCE-C	.90	1	FLOW TIME	6656.4.00	6486.4.00	6214.4.00	5939.4.08	5844.4.08	5766.4.08	5724.4.08	5636.4.08	1733.4.17
HYDROGRAPH AT													
+	G	.23	1	FLOW TIME	167.3.83	163.3.83	156.3.83	149.3.83	146.3.83	144.3.83	143.3.83	141.3.83	59.3.92
2 COMBINED AT													
+	CG	1.13	1	FLOW TIME	6811.4.00	6637.4.00	6359.4.00	6066.4.00	5966.4.08	5886.4.08	5843.4.08	5753.4.08	1778.4.17
ROUTED TO													
+	RCG	1.13	1	FLOW TIME	6755.4.08	6593.4.08	6333.4.08	6057.4.08	5960.4.08	5878.4.08	5830.4.08	5741.4.08	1747.4.25
HYDROGRAPH AT													
+	K-C1	.32	1	FLOW TIME	218.3.92	212.3.92	203.3.92	195.3.92	191.3.92	189.3.92	187.3.92	184.4.00	80.4.00
2 COMBINED AT													
+	CK-C1	1.45	1	FLOW TIME	6960.4.08	6793.4.08	6525.4.08	6241.4.08	6140.4.08	6057.4.08	6007.4.08	5916.4.08	1810.4.25
ROUTED TO													
+	RCK-C1	1.45	1	FLOW TIME	6940.4.08	6769.4.08	6492.4.08	6207.4.08	6102.4.08	6012.4.08	5963.4.08	5870.4.08	1801.4.25
2 COMBINED AT													
+	CCLVW01C	26.47	1	FLOW TIME	11378.4.08	11177.4.08	10853.4.08	10519.4.08	10395.4.08	10292.4.08	10233.4.08	10126.4.08	5284.4.25
ROUTED TO													
+	RCCLVW01	26.47	1	FLOW TIME	11241.4.08	11098.4.08	10706.4.17	10471.4.17	10290.4.17	10161.4.17	10099.4.17	10008.4.17	5298.4.33
ROUTED TO													
+	RCCLVW01	26.47	1	FLOW	11214.4.08	11063.4.08	10694.4.08	10462.4.08	10274.4.08	10137.4.08	10073.4.08	9980.4.08	5254.4.08

				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.33
HYDROGRAPH AT +	CA03	.34	1	FLOW TIME	351. 3.75	344. 3.75	331. 3.75	318. 3.75	313. 3.75	310. 3.75	307. 3.75	303. 3.75	145. 3.75
ROUTED TO +	RCA03	.34	1	FLOW TIME	355. 3.83	347. 3.83	334. 3.83	321. 3.83	316. 3.83	313. 3.83	310. 3.83	306. 3.83	144. 3.83
HYDROGRAPH AT +	CA04-C	.37	1	FLOW TIME	351. 3.83	344. 3.83	331. 3.83	319. 3.83	314. 3.83	311. 3.83	309. 3.83	305. 3.83	152. 3.83
2 COMBINED AT +	CCA04	.72	1	FLOW TIME	705. 3.83	690. 3.83	665. 3.83	640. 3.83	631. 3.83	624. 3.83	619. 3.83	611. 3.83	296. 3.83
ROUTED TO +	RCCA04	.72	1	FLOW TIME	699. 3.83	684. 3.83	659. 3.83	634. 3.83	624. 3.83	616. 3.83	612. 3.83	605. 3.83	292. 3.92
HYDROGRAPH AT +	CA05	.24	1	FLOW TIME	254. 3.83	249. 3.83	241. 3.83	233. 3.83	229. 3.83	227. 3.83	226. 3.83	223. 3.83	119. 3.83
2 COMBINED AT +	CCA05	.96	1	FLOW TIME	952. 3.83	933. 3.83	900. 3.83	866. 3.83	853. 3.83	844. 3.83	838. 3.83	828. 3.83	407. 3.83
ROUTED TO +	RCCA05	.96	1	FLOW TIME	942. 3.83	922. 3.83	889. 3.83	854. 3.83	842. 3.83	832. 3.83	826. 3.83	816. 3.83	404. 3.92
HYDROGRAPH AT +	CA06-C	.40	1	FLOW TIME	301. 3.83	293. 3.83	281. 3.83	269. 3.83	264. 3.83	261. 3.83	258. 3.83	255. 3.83	110. 3.92
2 COMBINED AT +	CCA06	1.36	1	FLOW TIME	1243. 3.83	1215. 3.83	1170. 3.83	1123. 3.83	1106. 3.83	1093. 3.83	1085. 3.83	1070. 3.83	514. 3.92
ROUTED TO +	RCCA06	1.36	1	FLOW TIME	1229. 3.92	1201. 3.92	1158. 3.92	1113. 3.92	1092. 3.92	1081. 3.92	1075. 3.92	1061. 3.92	502. 4.00
HYDROGRAPH AT +	CA08-C	.26	1	FLOW TIME	253. 3.83	248. 3.83	239. 3.83	231. 3.83	227. 3.83	225. 3.83	223. 3.83	221. 3.83	114. 3.83
2 COMBINED AT +	CCA08-C	1.61	1	FLOW TIME	1472. 3.92	1439. 3.92	1387. 3.92	1335. 3.92	1311. 3.92	1297. 3.92	1290. 3.92	1274. 3.92	613. 3.92
ROUTED TO +	RCCA08-C	1.61	1	FLOW TIME	1464. 3.92	1427. 3.92	1378. 3.92	1319. 3.92	1302. 3.92	1285. 3.92	1273. 3.92	1260. 3.92	609. 4.00
HYDROGRAPH AT +	CA10-C	.19	1	FLOW TIME	177. 3.83	174. 3.83	168. 3.83	162. 3.83	159. 3.83	157. 3.83	156. 3.83	154. 3.83	78. 3.92
HYDROGRAPH AT +	BN06-C	.34	1	FLOW TIME	424. 3.58	415. 3.58	400. 3.58	385. 3.58	379. 3.58	375. 3.58	372. 3.58	367. 3.58	182. 3.67
HYDROGRAPH AT +	BN03-C	.41	1	FLOW TIME	382. 3.75	373. 3.75	359. 3.75	345. 3.75	339. 3.75	335. 3.75	332. 3.75	328. 3.75	152. 3.83
HYDROGRAPH AT +	DBN03	.00	1	FLOW TIME	55. 3.67	55. 3.67	55. 3.67	55. 3.67	55. 3.67	55. 3.67	55. 3.75	55. 3.75	1. 3.92
ROUTED TO +	RDBN03	.00	1	FLOW TIME	62. 3.92	68. 3.92	55. 4.17	64. 3.92	83. 3.92	91. 3.92	61. 3.92	56. 4.17	0. 4.75
3 COMBINED AT +	CBN03	.75	1	FLOW TIME	767. 3.67	750. 3.67	722. 3.67	694. 3.67	683. 3.67	676. 3.67	670. 3.67	661. 3.67	315. 3.67
ROUTED TO +	RCBN03	.75	1	FLOW TIME	748. 3.67	731. 3.67	703. 3.75	677. 3.75	666. 3.67	659. 3.75	653. 3.75	645. 3.75	312. 3.75
HYDROGRAPH AT +	BN08	.21	1	FLOW TIME	220. 3.83	216. 3.83	209. 3.83	202. 3.83	199. 3.83	197. 3.83	196. 3.83	194. 3.83	103. 3.83

+		RCBN08	.96	1	FLOW TIME	960. 3.75	939. 3.75	905. 3.75	872. 3.75	858. 3.75	849. 3.75	841. 3.75	831. 3.75	406. 3.75
	HYDROGRAPH AT													
+		BN09	.23	1	FLOW TIME	167. 3.83	163. 3.83	156. 3.83	149. 3.83	146. 3.83	144. 3.83	143. 3.83	141. 3.83	59. 3.92
	2 COMBINED AT													
+		CBN09	1.20	1	FLOW TIME	1116. 3.75	1092. 3.75	1051. 3.75	1011. 3.75	995. 3.75	983. 3.75	975. 3.75	963. 3.75	458. 3.75
	ROUTED TO													
+		RCBN09	1.20	1	FLOW TIME	1100. 3.83	1073. 3.83	1036. 3.83	994. 3.83	982. 3.83	969. 3.83	959. 3.83	950. 3.83	458. 3.83
	HYDROGRAPH AT													
+		BN10-C	.26	1	FLOW TIME	232. 3.83	227. 3.83	219. 3.83	211. 3.83	208. 3.83	205. 3.83	204. 3.83	201. 3.83	97. 3.83
	2 COMBINED AT													
+		CBN10-C	1.45	1	FLOW TIME	1333. 3.83	1301. 3.83	1256. 3.83	1205. 3.83	1190. 3.83	1174. 3.83	1163. 3.83	1151. 3.83	556. 3.83
	ROUTED TO													
+		RCBN10-C	1.45	1	FLOW TIME	1325. 3.83	1293. 3.83	1251. 3.83	1197. 3.83	1185. 3.83	1166. 3.83	1156. 3.83	1146. 3.83	546. 3.92
	HYDROGRAPH AT													
+		BN12-C	.32	1	FLOW TIME	278. 3.83	272. 3.83	262. 3.83	251. 3.83	247. 3.83	244. 3.83	242. 3.83	239. 3.83	111. 3.83
	2 COMBINED AT													
+		CBN12-C	1.78	1	FLOW TIME	1604. 3.83	1565. 3.83	1513. 3.83	1449. 3.83	1432. 3.83	1410. 3.83	1398. 3.83	1385. 3.83	655. 3.92
	ROUTED TO													
+		RCBN12-C	1.78	1	FLOW TIME	1580. 3.92	1545. 3.92	1490. 3.92	1428. 3.92	1416. 3.92	1394. 3.92	1379. 3.92	1367. 3.92	653. 3.92
	HYDROGRAPH AT													
+		BN15-C	.28	1	FLOW TIME	234. 3.83	229. 3.83	220. 3.83	211. 3.83	208. 3.83	205. 3.83	203. 3.83	201. 3.83	92. 3.92
	2 COMBINED AT													
+		CBN15-C	2.06	1	FLOW TIME	1810. 3.92	1770. 3.92	1706. 3.92	1636. 3.92	1621. 3.92	1596. 3.92	1580. 3.92	1564. 3.92	745. 3.92
	ROUTED TO													
+		RTCBN15-	2.06	1	FLOW TIME	1809. 3.92	1768. 3.92	1704. 3.92	1634. 3.92	1618. 3.92	1593. 3.92	1576. 3.92	1561. 3.92	733. 3.92
	3 COMBINED AT													
+		CCA10-C	3.87	1	FLOW TIME	3448. 3.92	3367. 3.92	3249. 3.92	3113. 3.92	3077. 3.92	3034. 3.92	3004. 3.92	2973. 3.92	1410. 4.00
	2 COMBINED AT													
+		CCCA10-C	30.34	1	FLOW TIME	14131. 4.08	13942. 4.08	13362. 4.08	13077. 4.08	12777. 4.08	12583. 4.08	12483. 4.08	12353. 4.08	6156. 4.33
	ROUTED TO													
+		RCCCA10C	30.34	1	FLOW TIME	14029. 4.08	13841. 4.08	13232. 4.08	12935. 4.08	12673. 4.17	12504. 4.17	12419. 4.17	12284. 4.17	6123. 4.33
	HYDROGRAPH AT													
+		ST01-C	.25	1	FLOW TIME	215. 3.92	211. 3.92	203. 3.92	196. 3.92	193. 3.92	191. 3.92	190. 3.92	187. 3.92	95. 3.92
	ROUTED TO													
+		RST01-C	.25	1	FLOW TIME	214. 4.17	209. 4.17	202. 4.17	194. 4.17	191. 4.17	189. 4.17	188. 4.17	185. 4.17	94. 4.25
	HYDROGRAPH AT													
+		ST03-C	.22	1	FLOW TIME	179. 3.92	176. 3.92	169. 3.92	163. 3.92	160. 3.92	159. 3.92	157. 3.92	155. 3.92	77. 4.00
	2 COMBINED AT													
+		CST03-C	.47	1	FLOW TIME	370. 4.08	362. 4.08	348. 4.08	335. 4.08	330. 4.08	326. 4.08	323. 4.08	319. 4.08	156. 4.17
	2 COMBINED AT													
+		CCST03-C	30.81	1	FLOW TIME	14399. 4.08	14203. 4.08	13580. 4.08	13270. 4.08	13002. 4.17	12829. 4.17	12741. 4.17	12602. 4.17	6268. 4.33
	ROUTED TO													
+		RCCST03C	30.81	1	FLOW TIME	14283. 4.17	14084. 4.17	13544. 4.17	13236. 4.17	12985. 4.17	12797. 4.17	12713. 4.17	12567. 4.17	6201. 4.33
	HYDROGRAPH AT													
+		CH70-C	.26	1	FLOW TIME	241. 3.83	236. 3.83	228. 3.83	220. 3.83	217. 3.83	214. 3.83	213. 3.83	210. 3.83	107. 3.92
	HYDROGRAPH AT													
+		CH73	.14	1	FLOW TIME	214. 3.58	209. 3.58	202. 3.58	196. 3.58	193. 3.58	191. 3.58	189. 3.58	187. 3.58	98. 3.58

2 COMBINED AT	CCH73-C	.40	1	FLOW TIME	366.3.67	358.3.67	346.3.67	334.3.67	329.3.67	325.3.67	323.3.67	319.3.67	163.3.67
ROUTED TO													
+	RCH73	.40	1	FLOW TIME	370.3.75	362.3.75	350.3.75	337.3.83	333.3.83	329.3.83	327.3.83	323.3.83	167.3.83
HYDROGRAPH AT													
+	CH75-C	.36	1	FLOW TIME	297.3.92	291.3.92	281.3.92	271.3.92	267.3.92	264.3.92	262.3.92	259.3.92	132.4.00
2 COMBINED AT	CCH75-C	.76	1	FLOW TIME	651.3.83	637.3.83	616.3.83	594.3.83	585.3.83	579.3.83	575.3.83	568.3.83	290.3.92
HYDROGRAPH AT													
+	CH76	.14	1	FLOW TIME	158.3.75	155.3.75	151.3.75	146.3.75	144.3.75	142.3.75	141.3.75	140.3.75	75.3.75
2 COMBINED AT	CCH76	.89	1	FLOW TIME	803.3.83	787.3.83	761.3.83	734.3.83	724.3.83	716.3.83	711.3.83	702.3.83	362.3.83
ROUTED TO													
+	RCCH76	.89	1	FLOW TIME	791.3.92	780.3.92	753.3.92	723.3.92	718.3.92	708.3.92	700.3.92	691.3.92	363.3.92
HYDROGRAPH AT													
+	CH77-C	.45	1	FLOW TIME	371.3.92	363.3.92	351.3.92	338.3.92	333.3.92	329.3.92	327.3.92	323.3.92	163.4.00
2 COMBINED AT	CCH77-C	1.34	1	FLOW TIME	1162.3.92	1144.3.92	1104.3.92	1061.3.92	1051.3.92	1038.3.92	1027.3.92	1014.3.92	525.3.92
2 COMBINED AT	CCCH77-C	32.15	1	FLOW TIME	15269.4.08	15055.4.08	14461.4.17	14124.4.17	13860.4.17	13664.4.17	13574.4.17	13418.4.17	6558.4.33
ROUTED TO													
+	RCCCH73	32.15	1	FLOW TIME	15252.4.17	15030.4.17	14448.4.17	14111.4.17	13840.4.17	13639.4.17	13550.4.17	13394.4.17	6537.4.33
HYDROGRAPH AT													
+	CH91-C	.13	1	FLOW TIME	176.3.67	172.3.67	167.3.67	162.3.67	160.3.67	159.3.67	158.3.67	156.3.67	88.3.67
ROUTED TO													
+	RCH91-C	.13	1	FLOW TIME	171.3.83	168.3.83	163.3.83	158.3.83	156.3.83	154.3.83	153.3.83	152.3.83	88.3.83
HYDROGRAPH AT													
+	CH92-C	.22	1	FLOW TIME	231.3.75	226.3.75	218.3.75	210.3.75	207.3.75	204.3.75	203.3.75	200.3.75	100.3.75
2 COMBINED AT	CCH92-C	.35	1	FLOW TIME	394.3.83	386.3.83	374.3.83	361.3.83	356.3.83	353.3.83	350.3.83	346.3.83	186.3.83
ROUTED TO													
+	RCH92-C	.35	1	FLOW TIME	392.3.83	387.3.83	372.3.83	359.3.83	357.3.83	351.3.83	348.3.83	346.3.83	181.3.92
HYDROGRAPH AT													
+	CH93	.27	1	FLOW TIME	253.3.75	247.3.75	238.3.75	228.3.75	225.3.75	222.3.75	220.3.75	217.3.75	103.3.83
ROUTED TO													
+	RCH93	.27	1	FLOW TIME	252.4.00	247.4.00	238.4.00	229.4.00	225.4.00	223.4.00	221.4.00	218.4.00	103.4.08
HYDROGRAPH AT													
+	CH94	.36	1	FLOW TIME	229.4.00	223.4.00	214.4.00	204.4.00	201.4.00	198.4.00	196.4.00	193.4.00	80.4.00
2 COMBINED AT	CCH94	.63	1	FLOW TIME	481.4.00	470.4.00	452.4.00	433.4.00	426.4.00	421.4.00	417.4.00	411.4.00	182.4.00
2 COMBINED AT	CCCH94	.98	1	FLOW TIME	844.3.92	827.3.92	795.3.92	765.3.92	755.3.92	744.3.92	738.3.92	730.3.92	347.4.00
ROUTED TO													
+	RCCCH94	.98	1	FLOW TIME	829.4.00	807.4.00	776.4.00	752.4.00	736.4.00	728.4.00	727.4.00	722.4.00	346.4.08
HYDROGRAPH AT													
+	NEL06-C	.32	1	FLOW TIME	259.3.92	253.3.92	243.3.92	234.3.92	230.3.92	228.3.92	226.3.92	223.3.92	106.3.92
2 COMBINED AT	CNEL06	1.30	1	FLOW TIME	1082.4.00	1054.4.00	1015.4.00	981.4.00	962.4.00	951.4.00	949.4.00	940.4.00	449.4.00

2 COMBINED AT													
+	CCNEL06	33.45	1	FLOW TIME	16216. 4.08	15970. 4.08	15316. 4.17	14949. 4.17	14664. 4.17	14455. 4.17	14361. 4.17	14197. 4.17	6857. 4.33
HYDROGRAPH AT													
+	DSAHARA	.00	1	FLOW TIME	3729. 3.92	3607. 3.92	3413. 3.92	3220. 3.92	3143. 3.92	3087. 3.92	3043. 3.92	2992. 3.92	1036. 4.00
ROUTED TO													
+	RDSAHARA	.00	1	FLOW TIME	3699. 3.92	3576. 3.92	3383. 3.92	3191. 3.92	3120. 4.00	3068. 4.00	3023. 4.00	2968. 4.00	1031. 4.00
HYDROGRAPH AT													
+	SA10-2	.20	1	FLOW TIME	161. 4.08	158. 4.08	153. 4.08	147. 4.08	145. 4.08	144. 4.08	143. 4.08	141. 4.08	75. 4.08
HYDROGRAPH AT													
+	SA10-1	.28	1	FLOW TIME	228. 4.00	224. 4.08	217. 4.08	209. 4.08	207. 4.08	205. 4.08	203. 4.08	201. 4.08	109. 4.08
3 COMBINED AT													
+	CSA10-1	.48	1	FLOW TIME	4066. 3.92	3944. 4.00	3748. 4.00	3544. 4.00	3470. 4.00	3414. 4.00	3367. 4.00	3308. 4.00	1212. 4.00
ROUTED TO													
+	RCSA10-1	.48	1	FLOW TIME	4061. 4.00	3942. 4.00	3743. 4.00	3541. 4.00	3465. 4.00	3410. 4.00	3361. 4.00	3303. 4.00	1203. 4.00
HYDROGRAPH AT													
+	SA11	.40	1	FLOW TIME	392. 3.92	385. 3.92	374. 3.92	362. 3.92	358. 3.92	355. 3.92	352. 3.92	349. 3.92	200. 3.92
2 COMBINED AT													
+	CSA11	.88	1	FLOW TIME	4447. 4.00	4321. 4.00	4111. 4.00	3897. 4.00	3817. 4.00	3759. 4.00	3708. 4.00	3646. 4.00	1402. 4.00
ROUTED TO													
+	RCSA11	.88	1	FLOW TIME	4434. 4.00	4302. 4.00	4090. 4.00	3881. 4.00	3794. 4.00	3740. 4.00	3690. 4.00	3623. 4.00	1390. 4.08
HYDROGRAPH AT													
+	SA13-C	.38	1	FLOW TIME	333. 4.00	327. 4.00	317. 4.00	307. 4.00	303. 4.00	301. 4.00	299. 4.00	295. 4.00	167. 4.08
2 COMBINED AT													
+	CSA13	1.26	1	FLOW TIME	4767. 4.00	4629. 4.00	4408. 4.00	4189. 4.00	4097. 4.00	4040. 4.00	3988. 4.00	3919. 4.00	1557. 4.08
ROUTED TO													
+	RCSA13	1.26	1	FLOW TIME	4730. 4.00	4598. 4.00	4366. 4.00	4151. 4.00	4053. 4.00	3994. 4.00	3943. 4.00	3875. 4.00	1551. 4.08
HYDROGRAPH AT													
+	SA14	.25	1	FLOW TIME	222. 3.92	217. 3.92	210. 3.92	203. 3.92	200. 3.92	198. 3.92	196. 3.92	194. 3.92	101. 3.92
2 COMBINED AT													
+	CSA14	1.50	1	FLOW TIME	4947. 4.00	4810. 4.00	4571. 4.00	4349. 4.00	4249. 4.00	4188. 4.00	4135. 4.00	4065. 4.00	1644. 4.08
HYDROGRAPH AT													
+	FR01	.30	1	FLOW TIME	291. 3.83	285. 3.83	276. 3.83	266. 3.83	263. 3.83	260. 3.83	258. 3.83	255. 3.83	135. 3.92
ROUTED TO													
+	RFR01	.30	1	FLOW TIME	294. 4.00	288. 4.00	278. 4.00	269. 4.00	265. 4.00	262. 4.00	260. 4.00	257. 4.00	136. 4.08
HYDROGRAPH AT													
+	FR02	.36	1	FLOW TIME	319. 3.83	312. 3.83	300. 3.83	289. 3.83	284. 3.83	281. 3.83	278. 3.83	275. 3.83	129. 3.83
2 COMBINED AT													
+	CFR02	.66	1	FLOW TIME	577. 3.92	564. 3.92	544. 3.92	524. 3.92	516. 3.92	510. 3.92	506. 3.92	500. 3.92	244. 4.00
ROUTED TO													
+	RCFR02	.66	1	FLOW TIME	571. 3.92	559. 3.92	538. 3.92	518. 3.92	510. 3.92	505. 3.92	500. 3.92	494. 3.92	243. 4.00
2 COMBINED AT													
+	CCSA14	2.16	1	FLOW TIME	5507. 4.00	5359. 4.00	5101. 4.00	4859. 4.00	4751. 4.00	4686. 4.00	4629. 4.00	4553. 4.00	1879. 4.08
ROUTED TO													
+	RCCSA14	2.16	1	FLOW TIME	5464. 4.00	5313. 4.00	5054. 4.00	4811. 4.00	4701. 4.00	4634. 4.00	4579. 4.00	4503. 4.00	1869. 4.08
HYDROGRAPH AT													
+	SA16	.18	1	FLOW TIME	191. 3.75	187. 3.75	180. 3.75	174. 3.75	171. 3.75	169. 3.75	168. 3.75	166. 3.75	84. 3.83
2 COMBINED AT													
+	CSA16	2.34	1	FLOW	5610.	5456.	5193.	4944.	4833.	4765.	4709.	4631.	1925.

				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
ROUTED TO +	RCSA16	2.34	1	FLOW TIME	5589. 4.00	5435. 4.00	5170. 4.00	4922. 4.00	4809. 4.00	4740. 4.00	4686. 4.00	4607. 4.00	1919. 4.08
HYDROGRAPH AT +	CH51	.24	1	FLOW TIME	228. 3.92	224. 3.92	217. 3.92	210. 3.92	207. 3.92	205. 3.92	203. 3.92	201. 3.92	109. 3.92
ROUTED TO +	RCH51	.24	1	FLOW TIME	227. 3.92	220. 3.92	216. 3.92	206. 3.92	206. 3.92	202. 4.00	200. 4.00	197. 4.00	109. 4.00
HYDROGRAPH AT +	CH52-C	.31	1	FLOW TIME	355. 3.83	349. 3.83	339. 3.83	329. 3.83	325. 3.83	322. 3.83	320. 3.83	316. 3.83	182. 3.83
2 COMBINED AT +	CCH52	.55	1	FLOW TIME	567. 3.83	555. 3.83	540. 3.83	521. 3.83	516. 3.83	510. 3.83	505. 3.83	499. 3.83	279. 3.92
ROUTED TO +	RCCH52	.55	1	FLOW TIME	562. 3.92	549. 3.92	536. 3.92	516. 3.92	512. 3.92	506. 3.92	502. 3.92	495. 3.92	281. 3.92
HYDROGRAPH AT +	CH56-C	.35	1	FLOW TIME	321. 3.83	314. 3.83	304. 3.83	293. 3.83	289. 3.83	286. 3.83	283. 3.83	280. 3.83	144. 3.92
HYDROGRAPH AT +	DFLAM	.00	1	FLOW TIME	115. 3.92	109. 3.92	99. 3.92	89. 3.92	85. 3.92	82. 3.92	80. 3.92	77. 3.92	0. .00
ROUTED TO +	RDFLAM	.00	1	FLOW TIME	113. 4.00	107. 4.00	96. 4.00	86. 4.00	82. 4.00	79. 4.00	77. 4.00	74. 4.00	0. .00
HYDROGRAPH AT +	CH60A-C	.41	1	FLOW TIME	502. 3.67	492. 3.67	476. 3.67	460. 3.67	453. 3.67	449. 3.67	446. 3.67	440. 3.67	233. 3.67
2 COMBINED AT +	CCH60A-C	.41	1	FLOW TIME	502. 3.67	492. 3.67	476. 3.67	460. 3.67	453. 3.67	449. 3.67	446. 3.67	440. 3.67	233. 3.67
3 COMBINED AT +	CCH56	1.30	1	FLOW TIME	1338. 3.92	1306. 3.92	1259. 3.92	1208. 3.92	1201. 3.92	1182. 3.92	1165. 3.83	1152. 3.83	621. 3.83
ROUTED TO +	RCCH56	1.30	1	FLOW TIME	1332. 3.92	1301. 3.92	1254. 3.92	1206. 3.92	1197. 3.92	1179. 3.92	1162. 3.92	1146. 3.83	614. 3.83
HYDROGRAPH AT +	CH63-C	.23	1	FLOW TIME	238. 3.75	233. 3.75	225. 3.75	217. 3.75	213. 3.75	211. 3.75	210. 3.75	207. 3.75	104. 3.83
2 COMBINED AT +	CCH63-C	1.54	1	FLOW TIME	1544. 3.92	1511. 3.83	1461. 3.83	1411. 3.83	1393. 3.83	1378. 3.83	1367. 3.83	1350. 3.83	718. 3.83
ROUTED TO +	RCCH63	1.54	1	FLOW TIME	1544. 3.92	1508. 3.92	1457. 3.83	1407. 3.83	1389. 3.83	1374. 3.83	1363. 3.83	1346. 3.83	712. 3.83
HYDROGRAPH AT +	CH64-C	.30	1	FLOW TIME	238. 4.00	233. 4.00	225. 4.00	217. 4.00	213. 4.00	211. 4.00	209. 4.00	207. 4.00	104. 4.00
ROUTED TO +	RCH64	.30	1	FLOW TIME	238. 4.17	234. 4.17	225. 4.17	217. 4.17	214. 4.17	211. 4.17	210. 4.17	207. 4.17	104. 4.25
HYDROGRAPH AT +	CH67-C	.37	1	FLOW TIME	278. 3.92	272. 3.92	261. 3.92	250. 3.92	246. 3.92	242. 3.92	240. 3.92	237. 3.92	104. 3.92
2 COMBINED AT +	CCH67-C	.67	1	FLOW TIME	470. 4.00	459. 4.00	441. 4.00	423. 4.00	416. 4.00	411. 4.08	407. 4.08	402. 4.08	185. 4.08
2 COMBINED AT +	CCCH67-C	2.21	1	FLOW TIME	1990. 3.92	1944. 3.92	1873. 3.92	1799. 3.92	1780. 3.92	1756. 3.92	1735. 3.92	1704. 3.92	861. 3.92
ROUTED TO +	RCCCH67C	2.21	1	FLOW TIME	1986. 3.92	1940. 3.92	1870. 3.92	1797. 3.92	1777. 3.92	1753. 3.92	1732. 3.92	1703. 3.92	859. 3.92
HYDROGRAPH AT +	CH68	.31	1	FLOW TIME	345. 3.75	338. 3.75	326. 3.75	314. 3.75	310. 3.75	307. 3.75	304. 3.75	300. 3.75	152. 3.75
2 COMBINED AT +													

+	CCH68-C	2.52	1	FLOW TIME	2259. 3.92	2207. 3.92	2128. 3.92	2046. 3.92	2023. 3.92	1996. 3.92	1975. 3.83	1949. 3.83	983. 3.92
ROUTED TO													
+	RCCH68-C	2.52	1	FLOW TIME	2250. 3.92	2204. 3.92	2122. 3.92	2041. 3.92	2019. 3.92	1991. 3.92	1972. 3.92	1946. 3.92	976. 3.92
HYDROGRAPH AT													
+	FR04-C	.34	1	FLOW TIME	362. 3.67	354. 3.67	341. 3.67	328. 3.67	323. 3.67	319. 3.67	317. 3.67	312. 3.67	151. 3.75
2 COMBINED AT													
+	CFR04	2.86	1	FLOW TIME	2528. 3.83	2475. 3.83	2386. 3.83	2292. 3.83	2259. 3.83	2236. 3.83	2213. 3.83	2190. 3.83	1093. 3.92
ROUTED TO													
+	RCFR04	2.86	1	FLOW TIME	2517. 3.92	2465. 3.92	2374. 3.92	2283. 3.92	2257. 3.92	2227. 3.92	2206. 3.92	2178. 3.92	1090. 3.92
HYDROGRAPH AT													
+	FR03	.26	1	FLOW TIME	235. 3.75	230. 3.75	221. 3.75	212. 3.75	208. 3.75	206. 3.75	204. 3.75	201. 3.75	91. 3.83
2 COMBINED AT													
+	CFR03	3.12	1	FLOW TIME	2744. 3.83	2684. 3.83	2587. 3.83	2485. 3.83	2448. 3.83	2424. 3.83	2398. 3.83	2372. 3.83	1174. 3.92
2 COMBINED AT													
+	CCFR03	5.46	1	FLOW TIME	8177. 4.00	7968. 4.00	7611. 4.00	7273. 4.00	7131. 4.00	7030. 4.00	6955. 4.00	6841. 4.00	2993. 4.00

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SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	DT	PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1	RATIO=	.00							
RFW1	MANE	5.00	172.49	235.00	.91	5.00	172.49	235.00	.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1572E+02 EXCESS= .0000E+00 OUTFLOW= .1573E+02 BASIN STORAGE= .2018E-02 PERCENT ERROR= -.1

*** NORMAL END OF HEC-1 ***