



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Little Dominguez Creek</u>		CROSS-SECTION NO.: <u>1</u>
CROSS-SECTION LOCATION: <u>500 ft. upstream from confluence with Big Dominguez Creek</u>		
DATE: <u>11-3-07</u>	OBSERVERS: <u>R. Smith, N. Dietrich</u>	
LEGAL DESCRIPTION:	1/4 SECTION: <u>NE</u>	SECTION: <u>19</u>
	TOWNSHIP: <u>14 N/S</u>	RANGE: <u>98 E/W</u>
COUNTY: <u>Mesa</u>	WATERSHED: <u>Gunnison</u>	WATER DIVISION: <u>4</u>
		DOW WATER CODE: <u>45185</u>
MAP(S):	USGS:	GPS: <u>0727615</u>
	USFS:	<u>4300135</u>

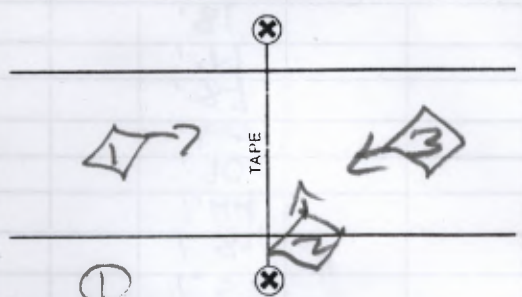
SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: ☒ YES / ☐ NO	METER TYPE: <u>M-M</u>
METER NUMBER:	DATE RATED:
	CALIB/SPIN: _____ sec
	TAPE WEIGHT: <u>surveyed</u> lbs/foot
	TAPE TENSION: <u>surveyed</u> lbs
CHANNEL BED MATERIAL SIZE RANGE: <u>4" cobbles to 1 foot</u>	PHOTOGRAPHS TAKEN: ☒ YES / ☐ NO
	NUMBER OF PHOTOGRAPHS: <u>3</u>

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
☒ Tape @ Stake LB	0.0	<u>surveyed</u>
☒ Tape @ Stake RB	0.0	<u>surveyed</u>
☐ 1 WS @ Tape LB/RB	0.0	<u>6.90 / 6.25</u>
☐ 2 WS Upstream	<u>18.1</u>	<u>6.66</u>
☐ 3 WS Downstream	<u>6.4</u>	<u>6.97</u>
SLOPE	<u>0.31 / 24.5 =</u>	

SKETCH



LEGEND:
Stake ☒
Station ☐
Photo ☐
Direction of Flow

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES/NO	DISTANCE ELECTROFISHED: _____ ft	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: ☒ YES / ☐ NO														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	

COMMENTS

<u>TDS = 260</u>	<u>Temp = 5°C</u>
<u>Ph = 8.6</u>	

[illegible]



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Little Dominguez Creek</u>		CROSS-SECTION NO.: <u>2</u>	
CROSS-SECTION LOCATION: <u>Approx. 700 ft. upstream from confluence w/ Big Dominguez Creek</u>			
DATE: <u>11-3-09</u>	OBSERVERS: <u>R. Smith, N. Dieberich</u>		
LEGAL DESCRIPTION:	1/4 SECTION: <u>NE</u>	SECTION: <u>19</u>	TOWNSHIP: <u>14N</u>
		RANGE: <u>98E</u>	PM: <u>Sixth</u>
COUNTY: <u>Mesa</u>	WATERSHED: <u>Gunnison</u>	WATER DIVISION:	DOW WATER CODE: <u>45185</u>
MAP(S):	USGS:	GPS: <u>727734</u>	
	USFS:	<u>4300120</u>	

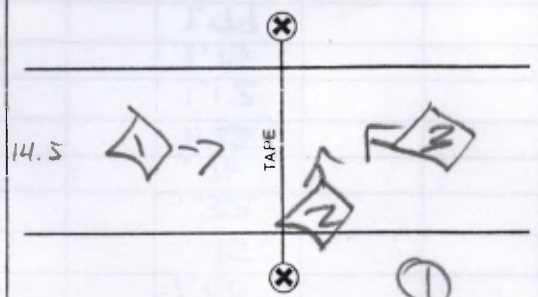
SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: YES/NO	METER TYPE: <u>M-M</u>			
METER NUMBER:	DATE RATED:	CALIB/SPIN: sec	TAPE WEIGHT: <u>surveyed</u> lbs/foot	TAPE TENSION: <u>surveyed</u> lbs
CHANNEL BED MATERIAL SIZE RANGE: <u>4" cobble to 2 foot boulder</u>		PHOTOGRAPHS TAKEN: <u>YES</u>	NUMBER OF PHOTOGRAPHS: <u>3</u>	

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
⊗ Tape @ Stake LB	0.0	<u>surveyed</u>
⊗ Tape @ Stake RB	0.0	<u>surveyed</u>
① WS @ Tape LB/RB	0.0 8.1	<u>8.40 / 8.40</u>
② WS Upstream	<u>14.0'</u>	<u>8.26</u>
③ WS Downstream	<u>14.0'</u>	<u>8.60</u>
SLOPE	<u>0.34 / 28.0 = .0121</u>	

SKETCH



LEGEND:
Stake ⊗
Station ①
Photo ①
Direction of Flow →

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES/NO <u>NO</u>	DISTANCE ELECTROFISHED: ft	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: YES/NO <u>YES</u>														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	

COMMENTS

<u>DS = 260</u>
<u>Ph = 8.6</u>
<u>Temp = 5°C</u>

DISCHARGE/CROSS SECTION NOTES

[illegible]



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Little Dominguez Creek</u>		CROSS-SECTION NO.: <u>1</u>
CROSS-SECTION LOCATION: <u>200' upstream from confluence w/ Big Dominguez</u>		
DATE: <u>7-15-08</u>	OBSERVERS: <u>R. Smith, J. Choy</u>	
LEGAL DESCRIPTION:	1/4 SECTION: <u>NE</u>	SECTION: <u>19</u>
	TOWNSHIP: <u>14 N</u>	RANGE: <u>98 E</u>
COUNTY: <u>Delta</u>	WATERSHED: <u>Gunnison</u>	WATER DIVISION: <u>4</u>
		DOW WATER CODE: <u>45185</u>
MAP(S):	USGS:	
	USFS:	

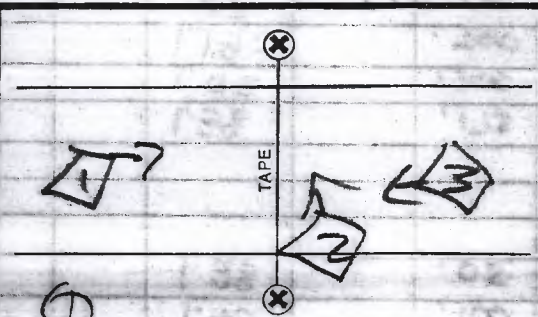
SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: ☒ YES ☐ NO	METER TYPE: <u>M-M</u>
METER NUMBER:	DATE RATED:
	CALIB/SPIN: <u>sec</u>
	TAPE WEIGHT: <u>surv.</u> lbs/foot
	TAPE TENSION: <u>surv.</u> lbs
CHANNEL BED MATERIAL SIZE RANGE: <u>sand to 12" cobbles</u>	PHOTOGRAPHS TAKEN: ☒ YES ☐ NO
	NUMBER OF PHOTOGRAPHS: <u>3</u>

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
⊗ Tape @ Stake LB	0.0	<u>surveyed</u>
⊗ Tape @ Stake RB	0.0	<u>surveyed</u>
① WS @ Tape LB/RB	0.0	<u>3.70 / 3.73</u>
② WS Upstream	<u>12.0</u>	<u>3.53</u>
③ WS Downstream	<u>12.0</u>	<u>3.84</u>
SLOPE	<u>0.31/24.0 = .013</u>	

S K E T C H



LEGEND:
Stake ⊗
Station ①
Photo ◇
Direction of Flow →

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES ☒ NO	DISTANCE ELECTROFISHED: <u>ft</u>	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: YES ☒ NO														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GRDUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	

COMMENTS

DISCHARGE/CROSS SECTION NOTES

STREAM NAME: Little Dominguez

CROSS-SECTION NO.:

DATE: 7-15-08

SHEET ____ OF ____

BEGINNING OF MEASUREMENT

EDGE OF WATER LOOKING DOWNSTREAM:
(0.0 AT STAKE)

LEFT / RIGHT

Gage Reading:

1

TIME:

8:45 am

[illegible]

TOTALS:

End of Measurement

Time:

Gage Reading:

fp

CALCULATIONS PERFORMED BY:

CALCULATIONS CHECKED BY:



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Little Dominguez Creek</u>		CROSS-SECTION NO.: <u>2</u>
CROSS-SECTION LOCATION: <u>500 ft. Downstream from confluence w/ Red Creek</u>		
DATE: <u>7-16-08</u>	OBSERVERS: <u>R. Smith, J. Choy</u>	
LEGAL DESCRIPTION: <u>SW</u>	SECTION: <u>14</u>	TOWNSHIP: <u>51°N/S</u>
COUNTY: <u>Mesa</u>	WATERSHED: <u>Gunnison</u>	RANGE: <u>15 E/W</u>
USGS: <u>Zone 12</u>	WATER DIVISION: <u>4</u>	PM: <u>NM</u>
USFS: <u>NAD 83</u>	DOW WATER CODE: <u>45185</u>	<u>716540</u>
		<u>4284921</u>

SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: <u>YES/NO</u>	METER TYPE: <u>M-M</u>
METER NUMBER: _____	DATE RATED: _____
CALIB/SPIN: _____	sec _____
TAPE WEIGHT: <u>surveyed</u>	lbs/foot _____
TAPE TENSION: <u>surveyed</u>	lbs _____
CHANNEL BED MATERIAL SIZE RANGE: <u>gravel to 1-foot boulders</u>	PHOTOGRAPHS TAKEN: <u>YES/NO</u>
	NUMBER OF PHOTOGRAPHS: <u>3</u>

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
(X) Tape @ Stake LB	0.0	<u>surveyed</u>
(X) Tape @ Stake RB	0.0	<u>surveyed</u>
(1) WS @ Tape LB/RB	0.0	<u>3.86/3.88</u>
(2) WS Upstream	<u>4.4</u>	<u>3.72</u>
(3) WS Downstream	<u>4.0</u>	<u>4.10</u>
SLOPE	<u>0.38/8.4 = .045</u>	

SKETCH

LEGEND:

Stake (X)

Station (1)

Photo (T)

Direction of Flow (arrow)

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES/NO <u>NO</u>	DISTANCE ELECTROFISHED: _____ ft	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: YES/NO														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	
<u>caddisfly, mayfly</u>																	

COMMENTS

DISCHARGE/CROSS SECTION NOTES

[illegible]

COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Little Dominguez Creek
XS LOCATION: 200' u/s fr. Conf. w/ Big Dominguez
XS NUMBER: 1

DATE: 15-Jul-08
OBSERVERS: R. Smith, J. Choy

1/4 SEC: NE
SECTION: 19
TWP: 14S
RANGE: 98W
PM: Sixth

COUNTY: Delta
WATERSHED: Gunnison River
DIVISION: 4
DOW CODE: 45185

USGS MAP: 0
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.013

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Little Dominguez Creek
 XS LOCATION: 200' u/s fr. Conf. w/ Big Dominguez
 XS NUMBER: 1

DATA POINTS= 19

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
1 RS	1.00	2.73		
W	3.70	3.73	0.00	0.00
	4.00	4.10	0.35	0.96
	4.50	4.05	0.30	0.03
	5.00	4.05	0.30	0.00
	5.50	4.10	0.35	0.52
	6.00	4.05	0.30	0.65
	6.50	3.95	0.25	0.28
	7.00	3.72	0.00	0.00
	7.50	4.05	0.35	0.13
	8.00	4.05	0.35	1.32
	8.50	3.90	0.20	1.45
	9.00	3.80	0.10	1.28
	9.30	4.10	0.35	1.38
	9.60	4.10	0.40	1.53
	9.90	4.10	0.40	1.19
	10.20	4.00	0.30	0.82
W	10.30	3.70	0.00	0.00
1 LS	12.30	2.62		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.48	0.35	0.14	0.13	10.1%
0.50	0.30	0.15	0.00	0.3%
0.50	0.30	0.15	0.00	0.0%
0.50	0.35	0.18	0.09	6.8%
0.50	0.30	0.15	0.10	7.3%
0.51	0.25	0.13	0.04	2.6%
0.55		0.00	0.00	0.0%
0.60	0.35	0.18	0.02	1.7%
0.50	0.35	0.18	0.23	17.3%
0.52	0.20	0.10	0.15	10.9%
0.51	0.10	0.04	0.05	3.8%
0.42	0.35	0.11	0.14	10.9%
0.30	0.40	0.12	0.18	13.8%
0.30	0.40	0.12	0.14	10.7%
0.32	0.30	0.06	0.05	3.7%
0.32		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

7.33 0.4 1.79 1.33 100.0%
 (Max.)

Manning's n = 0.0885
 Hydraulic Radius= 0.24345978

STREAM NAME: Little Dominguez Creek
 XS LOCATION: 200' u/s fr. Conf. w/ Big Dominguez
 XS NUMBER: 1

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	1.79	1.77	-0.9%
3.48	1.79	3.55	99.1%
3.50	1.79	3.40	90.5%
3.52	1.79	3.25	82.1%
3.54	1.79	3.10	73.7%
3.56	1.79	2.95	65.4%
3.58	1.79	2.81	57.2%
3.60	1.79	2.66	49.1%
3.62	1.79	2.52	41.2%
3.64	1.79	2.38	33.3%
3.66	1.79	2.24	25.5%
3.68	1.79	2.10	17.9%
3.69	1.79	2.04	14.1%
3.70	1.79	1.97	10.3%
3.71	1.79	1.90	6.6%
3.72	1.79	1.84	2.8%
3.73	1.79	1.77	-0.9%
3.74	1.79	1.70	-4.5%
3.75	1.79	1.64	-8.2%
3.76	1.79	1.57	-11.8%
3.77	1.79	1.51	-15.4%
3.78	1.79	1.45	-18.9%
3.80	1.79	1.32	-26.0%
3.82	1.79	1.20	-32.9%
3.84	1.79	1.08	-39.5%
3.86	1.79	0.96	-46.0%
3.88	1.79	0.85	-52.1%
3.90	1.79	0.75	-58.1%
3.92	1.79	0.65	-63.8%
3.94	1.79	0.55	-69.3%
3.96	1.79	0.45	-74.5%
3.98	1.79	0.36	-79.6%

WATERLINE AT ZERO

AREA ERROR = 3.723

STREAM NAME: Little Dominguez Creek
 XS LOCATION: 200' u/s fr. Conf. w/ Big Dominguez
 XS NUMBER: 1

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	2.73	11.10	0.95	1.37	10.56	12.25	100.0%	0.86	18.31	1.73
	2.77	10.90	0.93	1.33	10.09	12.04	98.3%	0.84	17.17	1.70
	2.82	10.67	0.89	1.28	9.55	11.79	96.2%	0.81	15.89	1.66
	2.87	10.45	0.86	1.23	9.02	11.54	94.2%	0.78	14.66	1.63
	2.92	10.22	0.83	1.18	8.50	11.29	92.2%	0.75	13.48	1.59
	2.97	9.99	0.80	1.13	8.00	11.04	90.1%	0.72	12.36	1.54
	3.02	9.76	0.77	1.08	7.50	10.79	88.1%	0.70	11.28	1.50
	3.07	9.54	0.74	1.03	7.02	10.54	86.1%	0.67	10.26	1.46
	3.12	9.31	0.70	0.98	6.55	10.30	84.0%	0.64	9.28	1.42
	3.17	9.08	0.67	0.93	6.09	10.05	82.0%	0.61	8.36	1.37
	3.22	8.85	0.64	0.88	5.64	9.80	80.0%	0.58	7.48	1.33
	3.27	8.63	0.60	0.83	5.21	9.55	77.9%	0.55	6.65	1.28
	3.32	8.40	0.57	0.78	4.78	9.30	75.9%	0.51	5.88	1.23
	3.37	8.17	0.53	0.73	4.37	9.05	73.9%	0.48	5.14	1.18
	3.42	7.94	0.50	0.68	3.96	8.80	71.8%	0.45	4.46	1.13
	3.47	7.72	0.46	0.63	3.57	8.55	69.8%	0.42	3.82	1.07
	3.52	7.49	0.43	0.58	3.19	8.30	67.8%	0.38	3.23	1.01
	3.57	7.26	0.39	0.53	2.82	8.05	65.7%	0.35	2.69	0.95
	3.62	7.03	0.35	0.48	2.47	7.80	63.7%	0.32	2.19	0.89
	3.67	6.81	0.31	0.43	2.12	7.55	61.7%	0.28	1.74	0.82
WL	3.72	6.60	0.27	0.38	1.78	7.32	59.7%	0.24	1.33	0.75
	3.77	6.35	0.23	0.33	1.46	6.98	57.0%	0.21	0.99	0.68
	3.82	5.97	0.19	0.28	1.15	6.50	53.1%	0.18	0.70	0.60
	3.87	5.43	0.16	0.23	0.87	5.85	47.7%	0.15	0.46	0.54
	3.92	4.92	0.12	0.18	0.61	5.23	42.7%	0.12	0.28	0.46
	3.97	4.40	0.09	0.13	0.37	4.60	37.5%	0.08	0.13	0.36
	4.02	3.74	0.05	0.08	0.17	3.84	31.4%	0.04	0.04	0.24
	4.07	1.55	0.02	0.03	0.03	1.58	12.9%	0.02	0.00	0.13

STREAM NAME: Little Dominguez Creek
XS LOCATION: 200' u/s fr. Conf. w/ Big Dominguez
XS NUMBER: 1

SUMMARY SHEET

MEASURED FLOW (Qm)= 1.33 cfs
CALCULATED FLOW (Qc)= 1.33 cfs
(Qm-Qc)/Qm * 100 = -0.1 %

MEASURED WATERLINE (WLm)= 3.73 ft
CALCULATED WATERLINE (WLc)= 3.72 ft
(WLm-WLc)/WLm * 100 = 0.1 %

MAX MEASURED DEPTH (Dm)= 0.40 ft
MAX CALCULATED DEPTH (Dc)= 0.38 ft
(Dm-Dc)/Dm * 100 = 5.7 %

MEAN VELOCITY= 0.75 ft/sec
MANNING'S N= 0.088
SLOPE= 0.013 ft/ft

.4 * Qm = 0.5 cfs
2.5 * Qm= 3.3 cfs

RECOMMENDED INSTREAM FLOW:
=====

FLOW (CFS)	PERIOD
=====	=====
_____	_____
_____	_____
_____	_____
_____	_____

RATIONALE FOR RECOMMENDATION:
=====

RECOMMENDATION BY: AGENCY..... DATE:.....
CWCB REVIEW BY: DATE:.....

COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Little Dominguez Creek
XS LOCATION: 500 ft. d/s fr. Conf. w/ Red Creek
XS NUMBER: 1

DATE: 16-Jul-08
OBSERVERS: R. Smith, J. Choy

1/4 SEC: SW
SECTION: 14
TWP: 51N
RANGE: 15W
PM: N.M.

COUNTY: Mesa
WATERSHED: Gunnison River
DIVISION: 4
DOW CODE: 45185

USGS MAP: 0
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.045

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Little Dominguez Creek
 XS LOCATION: 500 ft. d/s fr. Conf. w/ Red Creek
 XS NUMBER: 1

DATA POINTS= 19

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
1 LS & G	1.50	3.03		
W	1.70	3.86	0.00	0.00
	2.10	3.96	0.10	0.26
	2.40	4.06	0.20	0.61
	2.70	4.06	0.20	1.04
	3.00	4.06	0.20	0.98
	3.30	4.06	0.20	1.10
	3.60	4.06	0.20	0.87
	3.90	4.06	0.20	1.28
	4.20	4.06	0.20	1.17
	4.50	4.06	0.20	0.99
	4.80	4.03	0.15	2.31
	5.10	3.98	0.10	1.80
	5.40	3.98	0.10	0.30
	5.70	3.98	0.10	0.79
	6.00	3.93	0.05	0.35
W	6.30	3.88	0.00	0.00
	9.70	3.60		
1 RS & G	12.60	3.10		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.41	0.10	0.04	0.01	1.3%
0.32	0.20	0.06	0.04	5.3%
0.30	0.20	0.06	0.06	9.1%
0.30	0.20	0.06	0.06	8.6%
0.30	0.20	0.06	0.07	9.6%
0.30	0.20	0.06	0.05	7.6%
0.30	0.20	0.06	0.08	11.2%
0.30	0.20	0.06	0.07	10.2%
0.30	0.20	0.06	0.06	8.6%
0.30	0.15	0.05	0.10	15.1%
0.30	0.10	0.03	0.05	7.9%
0.30	0.10	0.03	0.01	1.3%
0.30	0.10	0.03	0.02	3.4%
0.30	0.05	0.02	0.01	0.8%
0.30		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

4.64 0.2 0.67 0.69 100.0%
 (Max.)

Manning's n = 0.0835
 Hydraulic Radius= 0.14324336

STREAM NAME: Little Dominguez Creek
 XS LOCATION: 500 ft. d/s fr. Conf. w/ Red Creek
 XS NUMBER: 1

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	0.67	0.65	-1.8%
3.62	0.67	2.22	233.7%
3.64	0.67	2.07	210.6%
3.66	0.67	1.92	188.2%
3.68	0.67	1.77	166.6%
3.70	0.67	1.63	145.7%
3.72	0.67	1.50	125.5%
3.74	0.67	1.37	106.1%
3.76	0.67	1.25	87.5%
3.78	0.67	1.13	69.5%
3.80	0.67	1.01	52.4%
3.82	0.67	0.90	35.9%
3.83	0.67	0.85	28.0%
3.84	0.67	0.80	20.3%
3.85	0.67	0.75	12.7%
3.86	0.67	0.70	5.3%
3.87	0.67	0.65	-1.8%
3.88	0.67	0.61	-8.8%
3.89	0.67	0.56	-15.5%
3.90	0.67	0.52	-22.0%
3.91	0.67	0.48	-28.5%
3.92	0.67	0.43	-34.7%
3.94	0.67	0.35	-46.8%
3.96	0.67	0.28	-58.3%
3.98	0.67	0.20	-69.2%
4.00	0.67	0.15	-77.8%
4.02	0.67	0.09	-85.8%
4.04	0.67	0.04	-93.3%
4.06	0.67	0.00	-100.0%
4.08	0.67	0.00	-100.0%
4.10	0.67	0.00	-100.0%
4.12	0.67	0.00	-100.0%

WATERLINE AT ZERO

AREA ERROR = 3.867

STREAM NAME: Little Dominguez Creek
 XS LOCATION: 500 ft. d/s fr. Conf. w/ Red Creek
 XS NUMBER: 1

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	3.10	11.08	0.65	0.96	7.16	11.78	100.0%	0.61	19.42	2.71
	3.12	10.98	0.64	0.94	6.97	11.66	99.0%	0.60	18.69	2.68
	3.17	10.68	0.60	0.89	6.43	11.31	96.0%	0.57	16.66	2.59
	3.22	10.37	0.57	0.84	5.90	10.97	93.1%	0.54	14.76	2.50
	3.27	10.07	0.54	0.79	5.39	10.62	90.2%	0.51	12.96	2.40
	3.32	9.77	0.50	0.74	4.90	10.28	87.2%	0.48	11.28	2.30
	3.37	9.47	0.47	0.69	4.42	9.93	84.3%	0.44	9.72	2.20
	3.42	9.17	0.43	0.64	3.95	9.58	81.4%	0.41	8.26	2.09
	3.47	8.86	0.39	0.59	3.50	9.24	78.4%	0.38	6.92	1.98
	3.52	8.56	0.36	0.54	3.06	8.89	75.5%	0.34	5.69	1.86
	3.57	8.26	0.32	0.49	2.64	8.55	72.6%	0.31	4.57	1.73
	3.62	7.85	0.29	0.44	2.24	8.09	68.7%	0.28	3.59	1.60
	3.67	7.23	0.26	0.39	1.86	7.43	63.1%	0.25	2.80	1.50
	3.72	6.61	0.23	0.34	1.52	6.77	57.5%	0.22	2.11	1.39
	3.77	5.99	0.20	0.29	1.20	6.11	51.9%	0.20	1.53	1.28
	3.82	5.37	0.17	0.24	0.92	5.45	46.3%	0.17	1.06	1.15
WL	3.87	4.72	0.14	0.19	0.66	4.76	40.5%	0.14	0.68	1.02
	3.92	4.15	0.11	0.14	0.44	4.18	35.5%	0.11	0.38	0.85
	3.97	3.65	0.07	0.09	0.25	3.67	31.2%	0.07	0.16	0.63
	4.02	2.60	0.04	0.04	0.10	2.61	22.2%	0.04	0.04	0.43

STREAM NAME: Little Dominguez Creek
XS LOCATION: 500 ft. d/s fr. Conf. w/ Red Creek
XS NUMBER: 1

SUMMARY SHEET

MEASURED FLOW (Qm)= 0.69 cfs
CALCULATED FLOW (Qc)= 0.68 cfs
(Qm-Qc)/Qm * 100 = 1.8 %

MEASURED WATERLINE (WLm)= 3.87 ft
CALCULATED WATERLINE (WLc)= 3.87 ft
(WLm-WLc)/WLm * 100 = 0.1 %

MAX MEASURED DEPTH (Dm)= 0.20 ft
MAX CALCULATED DEPTH (Dc)= 0.19 ft
(Dm-Dc)/Dm * 100 = 3.7 %

MEAN VELOCITY= 1.02 ft/sec
MANNING'S N= 0.083
SLOPE= 0.045 ft/ft

.4 * Qm = 0.3 cfs
2.5 * Qm= 1.7 cfs

RECOMMENDED INSTREAM FLOW:
=====

FLOW (CFS)	PERIOD
=====	=====
_____	_____
_____	_____
_____	_____
_____	_____

RATIONALE FOR RECOMMENDATION:
=====

RECOMMENDATION BY: AGENCY..... DATE:.....
CWCB REVIEW BY: DATE:.....

COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Little Dominguez Creek
XS LOCATION: Approx. 500' u/s fr Big Dom. Creek
XS NUMBER: 1

DATE: 3-Nov-09
OBSERVERS: R. Smith, N. Dieterich

1/4 SEC: NE
SECTION: 19
TWP: 14S
RANGE: 98W
PM: Sixth

COUNTY: Mesa
WATERSHED: Gunnison
DIVISION: 4
DOW CODE: 45185

USGS MAP: 0
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.0126

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Little Dominguez Creek
 XS LOCATION: Approx. 500' u/s fr Big Dom. Creek
 XS NUMBER: 1

DATA POINTS= 34

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
RS	0.30	3.35		
	4.00	4.32		
	6.40	4.49		
1 G	7.80	5.54		
	10.00	5.68		
	11.00	6.40		
W	11.70	6.85	0.00	0.00
	12.00	6.85	0.00	0.00
	12.30	7.00	0.15	0.53
	12.60	7.10	0.25	1.14
	12.90	7.15	0.30	1.27
	13.20	7.15	0.30	1.52
	13.50	7.15	0.30	1.36
	13.80	7.15	0.30	1.44
	14.10	7.05	0.20	0.90
	14.40	7.05	0.20	0.60
	14.70	7.05	0.20	0.87
	15.00	7.10	0.25	0.99
	15.30	7.25	0.35	0.81
	15.60	7.10	0.25	1.08
	15.90	7.15	0.25	0.40
	16.20	7.20	0.30	0.65
	16.50	7.15	0.25	1.32
	16.80	7.15	0.25	1.22
	17.10	7.15	0.25	1.49
	17.40	7.30	0.40	1.94
	17.70	7.25	0.35	1.75
	18.00	7.20	0.30	0.65
	18.30	7.00	0.10	0.00
W	18.70	6.90	0.00	
	19.30	6.02		
1 G	20.00	5.54		
	22.00	4.44		
LS	25.70	3.28		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.34	0.15	0.05	0.02	1.3%
0.32	0.25	0.08	0.09	4.6%
0.30	0.30	0.09	0.11	6.1%
0.30	0.30	0.09	0.14	7.4%
0.30	0.30	0.09	0.12	6.6%
0.30	0.30	0.09	0.13	7.0%
0.32	0.20	0.06	0.05	2.9%
0.30	0.20	0.06	0.04	1.9%
0.30	0.20	0.06	0.05	2.8%
0.30	0.25	0.08	0.07	4.0%
0.34	0.35	0.11	0.09	4.6%
0.34	0.25	0.08	0.08	4.4%
0.30	0.25	0.08	0.03	1.6%
0.30	0.30	0.09	0.06	3.1%
0.30	0.25	0.08	0.10	5.3%
0.30	0.25	0.08	0.09	4.9%
0.30	0.25	0.07	0.11	6.0%
0.34	0.40	0.12	0.23	12.5%
0.30	0.35	0.11	0.18	9.9%
0.30	0.30	0.09	0.06	3.1%
0.36	0.10	0.04	0.00	0.0%
0.41		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

6.98 0.4 1.66 1.86 100.0%
 (Max.)

Manning's n = 0.0569
 Hydraulic Radius= 0.23724439

STREAM NAME: Little Dominguez Creek
 XS LOCATION: Approx. 500' u/s fr Big Dom. Creek
 XS NUMBER: 1

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	1.66	1.65	-0.3%
6.63	1.66	3.46	108.9%
6.65	1.66	3.31	99.8%
6.67	1.66	3.16	90.8%
6.69	1.66	3.01	81.8%
6.71	1.66	2.86	72.9%
6.73	1.66	2.72	64.1%
6.75	1.66	2.57	55.2%
6.77	1.66	2.42	46.5%
6.79	1.66	2.28	37.8%
6.81	1.66	2.14	29.1%
6.83	1.66	1.99	20.5%
6.84	1.66	1.92	16.3%
6.85	1.66	1.85	12.0%
6.86	1.66	1.78	7.8%
6.87	1.66	1.72	3.8%
6.88	1.66	1.65	-0.3%
6.89	1.66	1.58	-4.3%
6.90	1.66	1.52	-8.3%
6.91	1.66	1.45	-12.3%
6.92	1.66	1.39	-16.2%
6.93	1.66	1.32	-20.1%
6.95	1.66	1.19	-27.9%
6.97	1.66	1.07	-35.4%
6.99	1.66	0.95	-42.9%
7.01	1.66	0.83	-50.1%
7.03	1.66	0.71	-57.3%
7.05	1.66	0.59	-64.4%
7.07	1.66	0.48	-70.7%
7.09	1.66	0.39	-76.6%
7.11	1.66	0.30	-82.1%
7.13	1.66	0.21	-87.2%

WATERLINE AT ZERO

AREA ERROR = 6.874

STREAM NAME: Little Dominguez Creek
 XS LOCATION: Approx. 500' u/s fr Big Dom. Creek
 XS NUMBER: 1

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	5.54	12.20	1.08	1.76	13.12	13.46	100.0%	0.97	37.85	2.88
	5.87	9.24	1.05	1.43	9.73	10.33	76.8%	0.94	27.43	2.82
	5.92	9.10	1.02	1.38	9.27	10.16	75.5%	0.91	25.60	2.76
	5.97	8.96	0.98	1.33	8.82	9.98	74.2%	0.88	23.83	2.70
	6.02	8.82	0.95	1.28	8.38	9.81	72.9%	0.85	22.12	2.64
	6.07	8.72	0.91	1.23	7.94	9.66	71.8%	0.82	20.43	2.57
	6.12	8.61	0.87	1.18	7.51	9.52	70.7%	0.79	18.79	2.50
	6.17	8.51	0.83	1.13	7.08	9.37	69.6%	0.76	17.22	2.43
	6.22	8.40	0.79	1.08	6.65	9.23	68.6%	0.72	15.70	2.36
	6.27	8.30	0.75	1.03	6.24	9.08	67.5%	0.69	14.24	2.28
	6.32	8.20	0.71	0.98	5.82	8.93	66.4%	0.65	12.85	2.21
	6.37	8.09	0.67	0.93	5.42	8.79	65.3%	0.62	11.51	2.12
	6.42	7.99	0.63	0.88	5.01	8.64	64.2%	0.58	10.24	2.04
	6.47	7.87	0.59	0.83	4.62	8.49	63.1%	0.54	9.03	1.96
	6.52	7.76	0.54	0.78	4.23	8.33	61.9%	0.51	7.89	1.87
	6.57	7.65	0.50	0.73	3.84	8.18	60.8%	0.47	6.81	1.77
	6.62	7.54	0.46	0.68	3.46	8.03	59.6%	0.43	5.80	1.67
	6.67	7.43	0.42	0.63	3.09	7.87	58.5%	0.39	4.85	1.57
	6.72	7.32	0.37	0.58	2.72	7.72	57.4%	0.35	3.98	1.46
	6.77	7.20	0.33	0.53	2.36	7.57	56.2%	0.31	3.18	1.35
	6.82	7.09	0.28	0.48	2.00	7.41	55.1%	0.27	2.45	1.22
WL	6.87	6.67	0.25	0.43	1.65	6.95	51.7%	0.24	1.86	1.13
	6.92	6.45	0.21	0.38	1.33	6.71	49.8%	0.20	1.32	1.00
	6.97	6.15	0.16	0.33	1.01	6.39	47.5%	0.16	0.87	0.86
	7.02	5.89	0.12	0.28	0.71	6.11	45.4%	0.12	0.50	0.70
	7.07	4.85	0.09	0.23	0.44	5.03	37.4%	0.09	0.25	0.58
	7.12	4.00	0.05	0.18	0.22	4.14	30.8%	0.05	0.09	0.41
	7.17	1.50	0.05	0.13	0.08	1.59	11.8%	0.05	0.03	0.39
	7.22	0.71	0.03	0.08	0.02	0.74	5.5%	0.03	0.01	0.30
	7.27	0.20	0.01	0.03	0.00	0.21	1.6%	0.01	0.00	0.16

STREAM NAME: Little Dominguez Creek
XS LOCATION: Approx. 500' u/s fr Big Dom. Creek
XS NUMBER: 1

SUMMARY SHEET

MEASURED FLOW (Qm)= 1.86 cfs
CALCULATED FLOW (Qc)= 1.86 cfs
(Qm-Qc)/Qm * 100 = -0.2 %

MEASURED WATERLINE (WLm)= 6.88 ft
CALCULATED WATERLINE (WLc)= 6.87 ft
(WLm-WLc)/WLm * 100 = 0.0 %

MAX MEASURED DEPTH (Dm)= 0.40 ft
MAX CALCULATED DEPTH (Dc)= 0.43 ft
(Dm-Dc)/Dm * 100 = -6.4 %

MEAN VELOCITY= 1.13 ft/sec
MANNING'S N= 0.057
SLOPE= 0.0126 ft/ft

.4 * Qm = 0.7 cfs
2.5 * Qm= 4.7 cfs

RECOMMENDED INSTREAM FLOW:
=====

FLOW (CFS)	PERIOD
=====	=====
_____	_____
_____	_____
_____	_____
_____	_____

RATIONALE FOR RECOMMENDATION:
=====

RECOMMENDATION BY: AGENCY..... DATE:.....
CWCB REVIEW BY: DATE:.....

COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Little Dominguez Creek
XS LOCATION: Approx 900' u/s fr Big Dom. Creek
XS NUMBER: 2

DATE: 3-Nov-09
OBSERVERS: R. Smith, N. Dieterich

1/4 SEC: NE
SECTION: 19
TWP: 14N
RANGE: 98W
PM: Sixth

COUNTY: Mesa
WATERSHED: Gunnison
DIVISION: 4
DOW CODE: 45185

USGS MAP: 0
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.0121

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Little Dominguez Creek
 XS LOCATION: Approx 900' u/s fr Big Dom. Creek
 XS NUMBER: 2

DATA POINTS= 33

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
LS	0.00	5.74		
	2.50	6.08		
	4.00	6.36		
1 G	5.70	6.88		
	6.00	7.14		
	6.80	7.60		
W	8.10	8.40	0.00	0.00
	8.40	8.60	0.20	1.25
	8.70	8.60	0.20	1.41
	9.00	8.65	0.25	0.18
	9.30	8.55	0.15	0.83
	9.60	8.55	0.15	1.00
	9.90	8.55	0.15	0.95
	10.20	8.50	0.10	0.32
	10.50	8.70	0.30	0.76
	10.80	8.80	0.40	1.28
	11.10	8.85	0.45	1.12
	11.40	8.85	0.45	1.18
	11.70	8.80	0.40	1.99
	12.00	8.55	0.15	1.74
	12.30	8.60	0.20	1.34
	12.60	8.90	0.50	1.03
	12.90	8.90	0.50	0.98
	13.20	8.90	0.50	0.35
	13.50	8.80	0.40	0.86
	13.80	8.60	0.20	1.38
	14.10	8.60	0.20	1.30
W	14.50	8.40	0.00	0.00
	15.70	7.93		
	17.00	7.17		
1 G	19.00	6.99		
	21.00	6.10		
RS	23.50	5.52		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.36	0.20	0.06	0.08	4.0%
0.30	0.20	0.06	0.08	4.5%
0.30	0.25	0.08	0.01	0.7%
0.32	0.15	0.05	0.04	2.0%
0.30	0.15	0.05	0.05	2.4%
0.30	0.15	0.05	0.04	2.3%
0.30	0.10	0.03	0.01	0.5%
0.36	0.30	0.09	0.07	3.7%
0.32	0.40	0.12	0.15	8.2%
0.30	0.45	0.14	0.15	8.1%
0.30	0.45	0.14	0.16	8.5%
0.30	0.40	0.12	0.24	12.8%
0.39	0.15	0.05	0.08	4.2%
0.30	0.20	0.06	0.08	4.3%
0.42	0.50	0.15	0.15	8.3%
0.30	0.50	0.15	0.15	7.9%
0.30	0.50	0.15	0.05	2.8%
0.32	0.40	0.12	0.10	5.5%
0.36	0.20	0.06	0.08	4.4%
0.30	0.20	0.07	0.09	4.9%
0.45		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

6.91 0.5 1.77 1.87 100.0%
 (Max.)

Manning's n = 0.0621
 Hydraulic Radius= 0.25531498

STREAM NAME: Little Dominguez Creek
 XS LOCATION: Approx 900' u/s fr Big Dom. Creek
 XS NUMBER: 2

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	1.77	1.77	0.0%
8.15	1.77	3.50	98.0%
8.17	1.77	3.35	89.7%
8.19	1.77	3.20	81.4%
8.21	1.77	3.06	73.2%
8.23	1.77	2.91	65.1%
8.25	1.77	2.77	57.1%
8.27	1.77	2.63	49.1%
8.29	1.77	2.49	41.3%
8.31	1.77	2.36	33.6%
8.33	1.77	2.22	26.0%
8.35	1.77	2.09	18.4%
8.36	1.77	2.02	14.7%
8.37	1.77	1.96	11.0%
8.38	1.77	1.89	7.3%
8.39	1.77	1.83	3.6%
8.40	1.77	1.77	0.0%
8.41	1.77	1.70	-3.6%
8.42	1.77	1.64	-7.2%
8.43	1.77	1.57	-10.8%
8.44	1.77	1.51	-14.3%
8.45	1.77	1.45	-17.9%
8.47	1.77	1.33	-24.9%
8.49	1.77	1.20	-31.8%
8.51	1.77	1.08	-38.7%
8.53	1.77	0.97	-45.3%
8.55	1.77	0.85	-51.6%
8.57	1.77	0.76	-57.0%
8.59	1.77	0.67	-62.0%
8.61	1.77	0.59	-66.4%
8.63	1.77	0.53	-70.1%
8.65	1.77	0.47	-73.5%

WATERLINE AT ZERO

AREA ERROR = 8.400

STREAM NAME: Little Dominguez Creek
 XS LOCATION: Approx 900' u/s fr Big Dom. Creek
 XS NUMBER: 2

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	6.99	13.17	1.12	1.91	14.74	14.39	100.0%	1.02	39.39	2.67
	7.40	10.15	1.00	1.50	10.14	11.18	77.7%	0.91	24.99	2.46
	7.45	9.98	0.97	1.45	9.63	10.98	76.3%	0.88	23.23	2.41
	7.50	9.81	0.93	1.40	9.14	10.78	74.9%	0.85	21.54	2.36
	7.55	9.64	0.90	1.35	8.65	10.58	73.5%	0.82	19.91	2.30
	7.60	9.46	0.86	1.30	8.18	10.38	72.1%	0.79	18.34	2.24
	7.65	9.30	0.83	1.25	7.71	10.19	70.8%	0.76	16.84	2.18
	7.70	9.13	0.79	1.20	7.25	9.99	69.4%	0.73	15.39	2.12
	7.75	8.96	0.76	1.15	6.79	9.80	68.1%	0.69	14.00	2.06
	7.80	8.80	0.72	1.10	6.35	9.60	66.7%	0.66	12.68	2.00
	7.85	8.63	0.69	1.05	5.91	9.41	65.4%	0.63	11.42	1.93
	7.90	8.46	0.65	1.00	5.49	9.22	64.0%	0.60	10.22	1.86
	7.95	8.28	0.61	0.95	5.07	9.01	62.6%	0.56	9.09	1.79
	8.00	8.07	0.58	0.90	4.66	8.77	60.9%	0.53	8.04	1.73
	8.05	7.86	0.54	0.85	4.26	8.54	59.3%	0.50	7.05	1.65
	8.10	7.65	0.51	0.80	3.87	8.31	57.7%	0.47	6.13	1.58
	8.15	7.44	0.47	0.75	3.50	8.08	56.1%	0.43	5.26	1.51
	8.20	7.24	0.43	0.70	3.13	7.84	54.5%	0.40	4.46	1.43
	8.25	7.03	0.39	0.65	2.77	7.61	52.9%	0.36	3.72	1.34
	8.30	6.82	0.36	0.60	2.43	7.38	51.3%	0.33	3.04	1.25
	8.35	6.61	0.32	0.55	2.09	7.15	49.6%	0.29	2.42	1.16
WL	8.40	6.40	0.28	0.50	1.76	6.91	48.0%	0.26	1.87	1.06
	8.45	6.22	0.23	0.45	1.45	6.71	46.6%	0.22	1.37	0.95
	8.50	6.05	0.19	0.40	1.14	6.51	45.2%	0.18	0.94	0.82
	8.55	4.90	0.17	0.35	0.85	5.31	36.9%	0.16	0.66	0.78
	8.60	3.54	0.18	0.30	0.63	3.88	27.0%	0.16	0.49	0.78
	8.65	2.83	0.17	0.25	0.47	3.09	21.5%	0.15	0.35	0.75
	8.70	2.57	0.13	0.20	0.33	2.76	19.2%	0.12	0.21	0.64
	8.75	2.24	0.10	0.15	0.21	2.36	16.4%	0.09	0.11	0.53
	8.80	1.90	0.06	0.10	0.11	1.97	13.7%	0.06	0.04	0.38
	8.85	0.80	0.04	0.05	0.04	0.83	5.8%	0.04	0.01	0.32
	8.90	0.00	#DIV/0!	0.00	0.00	0.00	0.0%	#DIV/0!	#DIV/0!	#DIV/0!

STREAM NAME: Little Dominguez Creek
XS LOCATION: Approx 900' u/s fr Big Dom. Creek
XS NUMBER: 2

SUMMARY SHEET

MEASURED FLOW (Qm)= 1.87 cfs
CALCULATED FLOW (Qc)= 1.87 cfs
(Qm-Qc)/Qm * 100 = 0.0 %

MEASURED WATERLINE (WLm)= 8.40 ft
CALCULATED WATERLINE (WLc)= 8.40 ft
(WLm-WLc)/WLm * 100 = 0.0 %

MAX MEASURED DEPTH (Dm)= 0.50 ft
MAX CALCULATED DEPTH (Dc)= 0.50 ft
(Dm-Dc)/Dm * 100 = 0.0 %

MEAN VELOCITY= 1.06 ft/sec
MANNING'S N= 0.062
SLOPE= 0.0121 ft/ft

.4 * Qm = 0.7 cfs
2.5 * Qm= 4.7 cfs

RECOMMENDED INSTREAM FLOW:
=====

FLOW (CFS)	PERIOD
=====	=====
_____	_____
_____	_____
_____	_____
_____	_____

RATIONALE FOR RECOMMENDATION:
=====

RECOMMENDATION BY: AGENCY..... DATE:.....
CWCB REVIEW BY: DATE:.....

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HEC-RAS Version 4.1.0 Jan 2010
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X      X  XXXXXX      XXXX      XXXX      XX      XXXX
X      X  X          X      X      X      X      X
X      X  X          X          X      X      X
XXXXXXXX XXXX      X      XXX XXXX      XXXXXX      XXXX
X      X  X          X          X      X      X
X      X  X          X      X      X      X      X
X      X  XXXXXX      XXXX      X      X      X      XXXXX

```

PROJECT DATA

Project Title: lower little dominguez
Project File : low_littledominguez.prj
Run Date and Time: 12/23/2009 9:09:00 AM

Project in English units

PLAN DATA

Plan Title: Plan 03
Plan File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness
Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\low little
dominguez_final\low_littledominguez.p03

Geometry Title: lower little dominguez geometry
Geometry File : x:\New Appropriations\2010 Recommendations\BLM
Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS
Files\low little dominguez_final\low_littledominguez.g01

Flow Title : lower little dominguez flow
Flow File : x:\New Appropriations\2010 Recommendations\BLM
Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS
Files\low little dominguez_final\low_littledominguez.f01

Plan Summary Information:

Number of: Cross Sections	=	47	Multiple Openings	=	0
Culverts	=	0	Inline Structures	=	0
Bridges	=	0	Lateral Structures	=	0

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	20
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

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FLOW DATA

Flow Title: lower little dominguez flow
 Flow File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness
 Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\low little
 dominguez_final\low_littledominguez.f01

Flow Data (cfs)

River	Reach	RS	PF 1	PF 2
PF 3	PF 4	PF 5	PF 6	
lower little domC		15	1.5591	65
200	250	350	500	

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
lower little domC		PF 1	Normal S = 0.016
Normal S = 0.016			

GEOMETRY DATA

Geometry Title: lower little dominguez geometry
 Geometry File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez
 Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\low little
 dominguez_final\low_littledominguez.g01

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 15

INPUT

Description: lower little dominguez - most upstream location - Z

Station	Elevation	Data	num=	26
Sta	Elev	Sta	Elev	Sta
0	4810	14808.026	21.45	4809.01
89.744808.026	117.264807.871	120.3994806.712	121.2984805.756	122.078 4805.57
124.4124805.301	125.9864805.086	127.7924805.089	128.7844805.195	130.5514805.793
132.9954805.792	135.6494806.676	139.9454808.813	141.5944810.483	153.444809.338
173.684809.338	185.554810.322	233.11 4809.01	260.834809.338	293.46 4809.67
323.054816.226				

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	120.399	.035
		135.649	.06

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.

			low_littledominguez.rep		
120.399	135.649		4.76	4.84	4.82
Ineffective Flow	num=	2			.1
Sta L	Sta R	Elev	Permanent		.3
0	47.1	F			
141.584	323.05	F			

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.39	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.035
W.S. Elev (ft)	4805.36	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4805.30	Flow Area (sq ft)		1.00
E.G. Slope (ft/ft)	0.012679	Area (sq ft)		1.00
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.32	Top Width (ft)		5.32
Vel Total (ft/s)	1.56	Avg. Vel. (ft/s)		1.56
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.8	Conv. (cfs)		13.8
Length Wtd. (ft)	4.84	Wetted Per. (ft)		5.37
Min Ch El (ft)	4805.09	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.23
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.89	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.035
W.S. Elev (ft)	4806.60	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4806.42	Flow Area (sq ft)		15.05
E.G. Slope (ft/ft)	0.010818	Area (sq ft)		15.05
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	14.91	Top Width (ft)		14.91
Vel Total (ft/s)	4.32	Avg. Vel. (ft/s)		4.32
Max Chl Dpth (ft)	1.51	Hydr. Depth (ft)		1.01

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Conv. Total (cfs)	625.0	Conv. (cfs)	625.0
Length Wtd. (ft)	4.84	Wetted Per. (ft)	15.56
Min Ch El (ft)	4805.09	Shear (lb/sq ft)	0.65
Alpha	1.00	Stream Power (lb/ft s)	2.82
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00 0.06
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.06
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4808.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.64	Wt. n-Val.	0.050	0.035
0.060				
W.S. Elev (ft)	4807.61	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.40	Flow Area (sq ft)	1.08	30.40
0.87				
E.G. Slope (ft/ft)	0.009876	Area (sq ft)	1.08	30.40
0.87				
Q Total (cfs)	200.00	Flow (cfs)	1.79	197.02
1.19				
Top Width (ft)	19.54	Top Width (ft)	2.42	15.25
1.87				
Vel Total (ft/s)	6.18	Avg. Vel. (ft/s)	1.65	6.48
1.37				
Max Chl Dpth (ft)	2.52	Hydr. Depth (ft)	0.45	1.99
0.46				
Conv. Total (cfs)	2012.5	Conv. (cfs)	18.0	1982.6
12.0				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	2.58	15.96
2.09				
Min Ch El (ft)	4805.09	Shear (lb/sq ft)	0.26	1.17
0.26				
Alpha	1.08	Stream Power (lb/ft s)	0.43	7.61
0.35				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.01	0.13
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.07
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.050	0.035
0.060				
W.S. Elev (ft)	4807.88	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.69	Flow Area (sq ft)	1.83	34.52
1.45				
E.G. Slope (ft/ft)	0.009949	Area (sq ft)	1.83	34.52
		Page 4		

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1.45				
Q Total (cfs)	250.00	Flow (cfs)	3.17	244.47
2.36				
Top Width (ft)	21.58	Top Width (ft)	3.92	15.25
2.41				
Vel Total (ft/s)	6.61	Avg. Vel. (ft/s)	1.73	7.08
1.63				
Max Chl Dpth (ft)	2.79	Hydr. Depth (ft)	0.47	2.26
0.60				
Conv. Total (cfs)	2506.4	Conv. (cfs)	31.8	2451.0
23.7				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	4.13	15.96
2.69				
Min Ch El (ft)	4805.09	Shear (lb/sq ft)	0.28	1.34
0.33				
Alpha	1.12	Stream Power (lb/ft s)	0.48	9.51
0.54				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.03	0.15
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.09	0.07
0.02				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.24	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.49	Wt. n-Val.	0.050	0.035
0.060				
W.S. Elev (ft)	4808.75	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4808.44	Flow Area (sq ft)	35.00	47.91
4.34				
E.G. Slope (ft/ft)	0.004777	Area (sq ft)	40.63	47.91
4.34				
Q Total (cfs)	350.00	Flow (cfs)	50.42	292.50
7.08				
Top Width (ft)	94.28	Top Width (ft)	74.86	15.25
4.18				
Vel Total (ft/s)	4.01	Avg. Vel. (ft/s)	1.44	6.11
1.63				
Max Chl Dpth (ft)	3.67	Hydr. Depth (ft)	0.59	3.14
1.04				
Conv. Total (cfs)	5064.1	Conv. (cfs)	729.5	4232.2
102.4				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	59.59	15.96
4.66				
Min Ch El (ft)	4805.09	Shear (lb/sq ft)	0.18	0.90
0.28				
Alpha	1.96	Stream Power (lb/ft s)	0.25	5.46
0.45				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.17	0.19
0.04				
C & E Loss (ft)	0.00	Cum SA (acres)	0.36	0.07
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

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E.G. Elev (ft)	4809.81	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.34	Wt. n-Val.	0.050	0.035
0.060				
W.S. Elev (ft)	4809.47	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4809.10	Flow Area (sq ft)	85.40	58.77
7.60				
E.G. Slope (ft/ft)	0.003100	Area (sq ft)	116.98	58.77
23.00				
Q Total (cfs)	500.00	Flow (cfs)	156.13	331.19
12.68				
Top Width (ft)	220.17	Top Width (ft)	120.13	15.25
84.79				
Vel Total (ft/s)	3.29	Avg. Vel. (ft/s)	1.83	5.64
1.67				
Max Chl Dpth (ft)	4.38	Hydr. Depth (ft)	1.17	3.85
1.54				
Conv. Total (cfs)	8980.6	Conv. (cfs)	2804.3	5948.5
227.8				
Length Wtd. (ft)	4.81	Wetted Per. (ft)	73.52	15.96
5.72				
Min Ch El (ft)	4805.09	Shear (lb/sq ft)	0.22	0.71
0.26				
Alpha	2.04	Stream Power (lb/ft s)	0.41	4.02
0.43				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.66	0.25
0.30				
C & E Loss (ft)	0.01	Cum SA (acres)	0.62	0.07
0.54				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 14.875*

INPUT

Description:

Station Elevation Data		num= 44									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.98	.83	4808.26	1.01	4807.94	21.74	4808.85	24.81	4808.85		
47.73	4808.88	55.45	4808.76	84.07	4808.31	90.95	4808.02	111.26	4807.94		
118.65	4807.78	118.84	4807.78	122.02	4806.64	122.95	4805.74	123.76	4805.56		
125.86	4805.33	126.19	4805.25	126.22	4805.25	126.81	4805.15	127.83	4805.02		
129.57	4805.03	130.52	4805.13	131.75	4805.54	132.23	4805.69	133.61	4805.7		
134.59	4805.71	135.06	4805.86	137.15	4806.59	141.42	4808.67	143.06	4810.26		
145.59	4810.07	154.83	4809.22	174.95	4809.21	186.75	4810.13	218.89	4809.28		
234.03	4808.9	261.58	4809.23	285.34	4809.48	294.02	4809.57	297.04	4810.2		
302.37	4811.33	310.05	4812.98	316.73	4814.4	323.43	4815.82				

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	122.02	.035	137.15	.061

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
122.02	137.15	4.76	4.84	4.82	.1	.3

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 Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 052.49375 F
 143.1919 323.43 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.33	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.035
W.S. Elev (ft)	4805.29	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.96
E.G. Slope (ft/ft)	0.013119	Area (sq ft)		0.96
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.97	Top Width (ft)		4.97
Vel Total (ft/s)	1.62	Avg. Vel. (ft/s)		1.62
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.6	Conv. (cfs)		13.6
Length Wtd. (ft)	4.84	Wetted Per. (ft)		5.02
Min Ch El (ft)	4805.02	Shear (lb/sq ft)		0.16
Alpha	1.00	Stream Power (lb/ft s)		0.25
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.83	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.035
W.S. Elev (ft)	4806.54	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		15.02
E.G. Slope (ft/ft)	0.010831	Area (sq ft)		15.02
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	14.88	Top Width (ft)		14.88
Vel Total (ft/s)	4.33	Avg. Vel. (ft/s)		4.33
Max Chl Dpth (ft)	1.52	Hydr. Depth (ft)		1.01
Conv. Total (cfs)	624.6	Conv. (cfs)		624.6

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Length Wtd. (ft)	4.84	Wetted Per. (ft)		15.50
Min Ch El (ft)	4805.02	Shear (lb/sq ft)		0.66
Alpha	1.00	Stream Power (lb/ft s)		2.84
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.06
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.06
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4808.19	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.050	0.035
0.061				
W.S. Elev (ft)	4807.55	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.15	30.26
0.94				
E.G. Slope (ft/ft)	0.009860	Area (sq ft)	1.15	30.26
0.94				
Q Total (cfs)	200.00	Flow (cfs)	1.92	196.78
1.30				
Top Width (ft)	19.63	Top Width (ft)	2.53	15.13
1.97				
Vel Total (ft/s)	6.18	Avg. Vel. (ft/s)	1.67	6.50
1.38				
Max Chl Dpth (ft)	2.53	Hydr. Depth (ft)	0.45	2.00
0.48				
Conv. Total (cfs)	2014.1	Conv. (cfs)	19.4	1981.7
13.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	2.69	15.79
2.19				
Min Ch El (ft)	4805.02	Shear (lb/sq ft)	0.26	1.18
0.26				
Alpha	1.09	Stream Power (lb/ft s)	0.44	7.67
0.37				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.01	0.12
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.07
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.59	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.77	Wt. n-Val.	0.050	0.035
0.061				
W.S. Elev (ft)	4807.82	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.61	Flow Area (sq ft)	1.98	34.36
1.55				
E.G. Slope (ft/ft)	0.009962	Area (sq ft)	1.98	34.36
1.55				

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Q Total (cfs)	250.00	Flow (cfs)	3.02 244.45
2.54			
Top Width (ft)	22.80	Top Width (ft)	5.15 15.13
2.52			
Vel Total (ft/s)	6.60	Avg. Vel. (ft/s)	1.53 7.11
1.64			
Max Chl Dpth (ft)	2.80	Hydr. Depth (ft)	0.38 2.27
0.61			
Conv. Total (cfs)	2504.8	Conv. (cfs)	30.2 2449.2
25.4			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.35 15.79
2.81			
Min Ch El (ft)	4805.02	Shear (lb/sq ft)	0.23 1.35
0.34			
Alpha	1.14	Stream Power (lb/ft s)	0.35 9.62
0.56			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.03 0.14
0.01			
C & E Loss (ft)	0.00	Cum SA (acres)	0.09 0.07
0.02			

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.49	Wt. n-Val.	0.050	0.035
0.061				
W.S. Elev (ft)	4808.73	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	35.86	48.08
4.68				
E.G. Slope (ft/ft)	0.004675	Area (sq ft)	43.04	48.08
4.68				
Q Total (cfs)	350.00	Flow (cfs)	49.23	293.14
7.63				
Top Width (ft)	102.11	Top Width (ft)	82.65	15.13
4.33				
Vel Total (ft/s)	3.95	Avg. Vel. (ft/s)	1.37	6.10
1.63				
Max Chl Dpth (ft)	3.71	Hydr. Depth (ft)	0.56	3.18
1.08				
Conv. Total (cfs)	5118.9	Conv. (cfs)	720.0	4287.3
111.6				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	64.57	15.79
4.83				
Min Ch El (ft)	4805.02	Shear (lb/sq ft)	0.16	0.89
0.28				
Alpha	2.02	Stream Power (lb/ft s)	0.22	5.42
0.46				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.16	0.19
0.03				
C & E Loss (ft)	0.01	Cum SA (acres)	0.36	0.07
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

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		Element	Left OB	Channel
E.G. Elev (ft)	4809.79			
Right OB				
Vel Head (ft)	0.32	Wt. n-Val.	0.050	0.035
0.061				
W.S. Elev (ft)	4809.47	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	87.29	59.32
8.18				
E.G. Slope (ft/ft)	0.002863	Area (sq ft)	128.81	59.32
34.19				
Q Total (cfs)	500.00	Flow (cfs)	161.20	325.55
13.25				
Top Width (ft)	240.51	Top Width (ft)	121.77	15.13
103.61				
Vel Total (ft/s)	3.23	Avg. Vel. (ft/s)	1.85	5.49
1.62				
Max Chl Dpth (ft)	4.45	Hydr. Depth (ft)	1.26	3.92
1.61				
Conv. Total (cfs)	9344.7	Conv. (cfs)	3012.8	6084.3
247.7				
Length Wtd. (ft)	4.81	Wetted Per. (ft)	69.74	15.79
5.90				
Min Ch El (ft)	4805.02	Shear (lb/sq ft)	0.22	0.67
0.25				
Alpha	1.99	Stream Power (lb/ft s)	0.41	3.68
0.40				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.65	0.25
0.29				
C & E Loss (ft)	0.00	Cum SA (acres)	0.60	0.07
0.53				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 14.75*

INPUT

Description:

Station Elevation Data		num= 44							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.97	.85	4808.15	1.03	4807.84	22.03	4808.69	25.14	4808.68
48.37	4808.74	56.19	4808.64	85.18	4808.27	92.15	4808.01	112.73	4807.97
120.22	4807.69	120.41	4807.69	123.64	4806.56	124.61	4805.71	125.45	4805.54
127.63	4805.33	127.97	4805.21	128	4805.19	128.61	4805.08	129.67	4804.96
131.34	4804.97	132.27	4805.06	133.45	4805.44	133.91	4805.59	135.24	4805.6
136.18	4805.62	136.63	4805.77	138.65	4806.51	142.89	4808.52	144.52	4810.04
147.04	4809.9	156.22	4809.11	176.22	4809.09	187.95	4809.94	219.9	4809.13
234.94	4808.79	262.33	4809.13	285.94	4809.39	294.57	4809.46	297.58	4810.05
302.88	4811.13	310.51	4812.72	317.14	4814.06	323.81	4815.41		

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	123.64	.034	138.65	.062

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	123.64	138.65		4.76	4.84	.1	.3
Ineffective Flow			num= 2				

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Sta L	Sta R	Elev	Permanent
0	57.8875		F
144.7997	323.81		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.27	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.034
W.S. Elev (ft)	4805.23	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.94
E.G. Slope (ft/ft)	0.012916	Area (sq ft)		0.94
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.85	Top Width (ft)		4.85
Vel Total (ft/s)	1.65	Avg. Vel. (ft/s)		1.65
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.7	Conv. (cfs)		13.7
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.91
Min Ch El (ft)	4804.96	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.26
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.78	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.034
W.S. Elev (ft)	4806.49	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		15.08
E.G. Slope (ft/ft)	0.010052	Area (sq ft)		15.08
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	14.87	Top Width (ft)		14.87
Vel Total (ft/s)	4.31	Avg. Vel. (ft/s)		4.31
Max Chl Dpth (ft)	1.53	Hydr. Depth (ft)		1.01
Conv. Total (cfs)	648.3	Conv. (cfs)		648.3

Length Wtd. (ft)	low_littledominguez.rep 4.84	Wetted Per. (ft)		15.47
Min Ch El (ft)	4804.96	Shear (lb/sq ft)		0.61
Alpha	1.00	Stream Power (lb/ft s)		2.64
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.06
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.06
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4808.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.050	0.034
0.062				
W.S. Elev (ft)	4807.50	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.25	30.22
1.02				
E.G. Slope (ft/ft)	0.009211	Area (sq ft)	1.25	30.22
1.02				
Q Total (cfs)	200.00	Flow (cfs)	2.07	196.56
1.37				
Top Width (ft)	19.76	Top Width (ft)	2.67	15.01
2.08				
Vel Total (ft/s)	6.16	Avg. Vel. (ft/s)	1.65	6.51
1.34				
Max Chl Dpth (ft)	2.54	Hydr. Depth (ft)	0.47	2.01
0.49				
Conv. Total (cfs)	2083.9	Conv. (cfs)	21.6	2048.0
14.3				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	2.83	15.64
2.30				
Min Ch El (ft)	4804.96	Shear (lb/sq ft)	0.25	1.11
0.26				
Alpha	1.10	Stream Power (lb/ft s)	0.42	7.22
0.34				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.12
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.06
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.54	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.77	Wt. n-Val.	0.050	0.034
0.062				
W.S. Elev (ft)	4807.77	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.59	Flow Area (sq ft)	2.16	34.27
1.66				
E.G. Slope (ft/ft)	0.009337	Area (sq ft)	2.16	34.27
1.66				
Q Total (cfs)	250.00	Flow (cfs)	3.27	244.09

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2.64				
Top Width (ft)	23.10	Top Width (ft)	5.44	15.01
2.65				
Vel Total (ft/s)	6.56	Avg. Vel. (ft/s)	1.52	7.12
1.59				
Max Chl Dpth (ft)	2.81	Hydr. Depth (ft)	0.40	2.28
0.63				
Conv. Total (cfs)	2587.3	Conv. (cfs)	33.9	2526.1
27.3				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.64	15.64
2.93				
Min Ch El (ft)	4804.96	Shear (lb/sq ft)	0.22	1.28
0.33				
Alpha	1.15	Stream Power (lb/ft s)	0.34	9.09
0.52				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.14
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.06
0.02				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.18	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.47	Wt. n-Val.	0.050	0.034
0.062				
W.S. Elev (ft)	4808.71	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	38.07	48.47
5.10				
E.G. Slope (ft/ft)	0.004184	Area (sq ft)	48.28	48.47
5.10				
Q Total (cfs)	350.00	Flow (cfs)	50.74	291.24
8.03				
Top Width (ft)	129.34	Top Width (ft)	109.89	15.01
4.45				
Vel Total (ft/s)	3.82	Avg. Vel. (ft/s)	1.33	6.01
1.58				
Max Chl Dpth (ft)	3.75	Hydr. Depth (ft)	0.58	3.23
1.15				
Conv. Total (cfs)	5410.9	Conv. (cfs)	784.4	4502.4
124.1				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	65.96	15.64
4.97				
Min Ch El (ft)	4804.96	Shear (lb/sq ft)	0.15	0.81
0.27				
Alpha	2.08	Stream Power (lb/ft s)	0.20	4.86
0.42				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.16	0.18
0.03				
C & E Loss (ft)	0.01	Cum SA (acres)	0.35	0.06
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

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E.G. Elev (ft)	4809.78	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.32	Wt. n-Val.	0.050	0.034
0.062				
W.S. Elev (ft)	4809.45	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	86.84	59.61
8.69				
E.G. Slope (ft/ft)	0.002646	Area (sq ft)	139.49	59.61
45.19				
Q Total (cfs)	500.00	Flow (cfs)	159.48	326.90
13.62				
Top Width (ft)	259.32	Top Width (ft)	123.40	15.01
120.91				
Vel Total (ft/s)	3.22	Avg. Vel. (ft/s)	1.84	5.48
1.57				
Max Chl Dpth (ft)	4.49	Hydr. Depth (ft)	1.32	3.97
1.66				
Conv. Total (cfs)	9719.6	Conv. (cfs)	3100.2	6354.7
264.7				
Length Wtd. (ft)	4.81	Wetted Per. (ft)	65.96	15.64
6.06				
Min Ch El (ft)	4804.96	Shear (lb/sq ft)	0.22	0.63
0.24				
Alpha	2.00	Stream Power (lb/ft s)	0.40	3.45
0.37				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.64	0.24
0.29				
C & E Loss (ft)	0.00	Cum SA (acres)	0.59	0.06
0.51				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 14.625*

INPUT

Description:

Station	Elevation	Data	num=	44	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.95	.86	4808.04	1.04	4807.75	22.32	4808.52	25.47	4808.52			
49	4808.61	56.92	4808.53	86.3	4808.23	93.36	4808	114.21	4808			
121.8	4807.6	121.99	4807.59	125.26	4806.48	126.26	4805.69	127.13	4805.53			
129.39	4805.32	129.74	4805.16	129.78	4805.14	130.41	4805.02	131.51	4804.89			
133.12	4804.9	134.01	4805	135.15	4805.35	135.59	4805.49	136.86	4805.5			
137.77	4805.53	138.21	4805.68	140.14	4806.42	144.36	4808.37	145.98	4809.81			
148.49	4809.74	157.62	4809	177.49	4808.97	189.15	4809.75	220.9	4808.98			
235.86	4808.68	263.08	4809.03	286.55	4809.29	295.13	4809.36	298.12	4809.91			
303.38	4810.94	310.97	4812.45	317.56	4813.72	324.19	4815					

Manning's n Values					
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	125.26	.034	140.14	.064

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	125.26	140.14		4.76	4.84		
Ineffective Flow						.1	.3
Sta L	Sta R	Elev	Permanent				

063.28125
146.4076 324.19

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F
F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.034
W.S. Elev (ft)	4805.16	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.94
E.G. Slope (ft/ft)	0.012891	Area (sq ft)		0.94
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.80	Top Width (ft)		4.80
Vel Total (ft/s)	1.66	Avg. Vel. (ft/s)		1.66
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	13.7	Conv. (cfs)		13.7
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.85
Min Ch El (ft)	4804.89	Shear (lb/sq ft)		0.16
Alpha	1.00	Stream Power (lb/ft s)		0.26
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.72	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.034
0.000				
W.S. Elev (ft)	4806.44	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		15.16
0.00				
E.G. Slope (ft/ft)	0.009845	Area (sq ft)		15.16
0.00				
Q Total (cfs)	65.00	Flow (cfs)		65.00
0.00				
Top Width (ft)	14.86	Top Width (ft)		14.83
0.04				
Vel Total (ft/s)	4.29	Avg. Vel. (ft/s)		4.29
0.09				
Max Chl Dpth (ft)	1.55	Hydr. Depth (ft)		1.02
0.01				
Conv. Total (cfs)	655.1	Conv. (cfs)		655.1
0.0				
Length Wtd. (ft)	4.84	Wetted Per. (ft)		15.41

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0.04 Min Ch El (ft)	4804.89	Shear (lb/sq ft)		0.60
Alpha	1.00	Stream Power (lb/ft s)		2.59
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.06
0.00 C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.06
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4808.09	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.64	Wt. n-Val.	0.050	0.034
0.064				
W.S. Elev (ft)	4807.45	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.39	30.24
1.15				
E.G. Slope (ft/ft)	0.009021	Area (sq ft)	1.39	30.24
1.15				
Q Total (cfs)	200.00	Flow (cfs)	2.33	196.14
1.53				
Top Width (ft)	19.97	Top Width (ft)	2.86	14.88
2.23				
Vel Total (ft/s)	6.10	Avg. Vel. (ft/s)	1.68	6.49
1.33				
Max Chl Dpth (ft)	2.56	Hydr. Depth (ft)	0.49	2.03
0.52				
Conv. Total (cfs)	2105.8	Conv. (cfs)	24.6	2065.1
16.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	3.02	15.48
2.46				
Min Ch El (ft)	4804.89	Shear (lb/sq ft)	0.26	1.10
0.26				
Alpha	1.11	Stream Power (lb/ft s)	0.44	7.14
0.35				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.12
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.06
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.49	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.050	0.034
0.064				
W.S. Elev (ft)	4807.72	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.51	Flow Area (sq ft)	2.40	34.26
1.83				
E.G. Slope (ft/ft)	0.009165	Area (sq ft)	2.40	34.26
1.83				
Q Total (cfs)	250.00	Flow (cfs)	3.75	243.39
2.86				

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Top Width (ft)	23.44	Top Width (ft)	5.75	14.88
2.81				
Vel Total (ft/s)	6.49	Avg. Vel. (ft/s)	1.56	7.10
1.56				
Max Chl Dpth (ft)	2.83	Hydr. Depth (ft)	0.42	2.30
0.65				
Conv. Total (cfs)	2611.4	Conv. (cfs)	39.1	2542.4
29.9				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.94	15.48
3.10				
Min Ch El (ft)	4804.89	Shear (lb/sq ft)	0.23	1.27
0.34				
Alpha	1.17	Stream Power (lb/ft s)	0.36	9.00
0.53				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.14
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.06
0.02				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.15	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.44	Wt. n-Val.	0.050	0.034
0.064				
W.S. Elev (ft)	4808.71	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	39.91	48.97
5.61				
E.G. Slope (ft/ft)	0.003861	Area (sq ft)	58.84	48.97
5.67				
Q Total (cfs)	350.00	Flow (cfs)	54.85	286.59
8.56				
Top Width (ft)	147.93	Top Width (ft)	124.70	14.88
8.34				
Vel Total (ft/s)	3.70	Avg. Vel. (ft/s)	1.37	5.85
1.53				
Max Chl Dpth (ft)	3.82	Hydr. Depth (ft)	0.64	3.29
1.22				
Conv. Total (cfs)	5632.4	Conv. (cfs)	882.7	4611.9
137.8				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	62.18	15.48
5.16				
Min Ch El (ft)	4804.89	Shear (lb/sq ft)	0.15	0.76
0.26				
Alpha	2.07	Stream Power (lb/ft s)	0.21	4.46
0.40				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.15	0.18
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.33	0.06
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.76	Element	Left OB	Channel
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Right OB
 Vel Head (ft) 0.32 Wt. n-Val. 0.050 0.034
 0.064
 W.S. Elev (ft) 4809.44 Reach Len. (ft) 4.76 4.84
 4.82
 Crit W.S. (ft) Flow Area (sq ft) 85.34 59.88
 9.29
 E.G. Slope (ft/ft) 0.002571 Area (sq ft) 150.35 59.88
 58.46
 Q Total (cfs) 500.00 Flow (cfs) 158.82 326.96
 14.22
 Top Width (ft) 271.47 Top Width (ft) 125.03 14.88
 131.56
 Vel Total (ft/s) 3.24 Avg. Vel. (ft/s) 1.86 5.46
 1.53
 Max Chl Dpth (ft) 4.55 Hydr. Depth (ft) 1.38 4.02
 1.71
 Conv. Total (cfs) 9860.5 Conv. (cfs) 3132.2 6447.9
 280.4
 Length Wtd. (ft) 4.81 Wetted Per. (ft) 62.18 15.48
 6.26
 Min Ch El (ft) 4804.89 Shear (lb/sq ft) 0.22 0.62
 0.24
 Alpha 1.97 Stream Power (lb/ft s) 0.41 3.39
 0.36
 Frctn Loss (ft) 0.01 Cum Volume (acre-ft) 0.62 0.23
 0.28
 C & E Loss (ft) 0.00 Cum SA (acres) 0.58 0.06
 0.50

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 14.5*

INPUT

Description:

Station		Elevation		Data		num= 44		Sta		Elev		Sta		Elev	
0	4809.94	.87	4807.93	1.05	4807.66	22.6	4808.36	25.8	4808.35						
49.63	4808.48	57.66	4808.41	87.41	4808.19	94.57	4807.99	115.68	4808.02						
123.37	4807.51	123.57	4807.5	126.88	4806.4	127.92	4805.67	128.82	4805.52						
131.16	4805.31	131.52	4805.11	131.56	4805.09	132.21	4804.95	133.35	4804.83						
134.9	4804.84	135.75	4804.93	136.84	4805.26	137.27	4805.39	138.49	4805.4						
139.36	4805.45	139.78	4805.59	141.64	4806.34	145.84	4808.23	147.45	4809.59						
149.94	4809.57	159.01	4808.88	178.77	4808.84	190.35	4809.56	221.91	4808.83						
236.78	4808.57	263.83	4808.92	287.16	4809.19	295.68	4809.26	298.65	4809.76						
303.89	4810.74	311.43	4812.19	317.98	4813.38	324.57	4814.59								

Manning's n Values

Sta		n Val		num= 3	
0	.05	126.88	.033	141.64	.065

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	126.88	141.64		4.76	4.84		.1	.3

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
0	68.675		F

148.0155 324.57 low_littledominguez.rep
F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.033
W.S. Elev (ft)	4805.10	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.93
E.G. Slope (ft/ft)	0.012602	Area (sq ft)		0.93
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.76	Top Width (ft)		4.76
Vel Total (ft/s)	1.68	Avg. Vel. (ft/s)		1.68
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.9	Conv. (cfs)		13.9
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.82
Min Ch El (ft)	4804.83	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.25
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.67	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.033
0.000				
W.S. Elev (ft)	4806.39	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		15.16
0.00				
E.G. Slope (ft/ft)	0.009194	Area (sq ft)		15.16
0.00				
Q Total (cfs)	65.00	Flow (cfs)		65.00
0.00				
Top Width (ft)	14.84	Top Width (ft)		14.74
0.10				
Vel Total (ft/s)	4.29	Avg. Vel. (ft/s)		4.29
0.17				
Max Chl Dpth (ft)	1.56	Hydr. Depth (ft)		1.03
0.02				
Conv. Total (cfs)	677.9	Conv. (cfs)		677.9
0.0				
Length Wtd. (ft)	4.84	Wetted Per. (ft)		15.31
0.11				

Min Ch El (ft)	4804.83	low_littledominguez.rep Shear (lb/sq ft)	0.57
Alpha	1.00	Stream Power (lb/ft s)	2.44
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.06
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.06
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4808.04	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.050	0.033
0.065				
W.S. Elev (ft)	4807.40	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.50	30.10
1.25				
E.G. Slope (ft/ft)	0.008502	Area (sq ft)	1.50	30.10
1.25				
Q Total (cfs)	200.00	Flow (cfs)	2.50	195.89
1.61				
Top Width (ft)	20.12	Top Width (ft)	3.00	14.76
2.35				
Vel Total (ft/s)	6.09	Avg. Vel. (ft/s)	1.67	6.51
1.30				
Max Chl Dpth (ft)	2.57	Hydr. Depth (ft)	0.50	2.04
0.53				
Conv. Total (cfs)	2169.1	Conv. (cfs)	27.1	2124.5
17.5				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	3.17	15.33
2.58				
Min Ch El (ft)	4804.83	Shear (lb/sq ft)	0.25	1.04
0.26				
Alpha	1.12	Stream Power (lb/ft s)	0.42	6.78
0.33				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.11
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.06
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.44	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.77	Wt. n-Val.	0.050	0.033
0.065				
W.S. Elev (ft)	4807.67	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.46	Flow Area (sq ft)	2.59	34.07
1.96				
E.G. Slope (ft/ft)	0.008652	Area (sq ft)	2.60	34.07
1.96				
Q Total (cfs)	250.00	Flow (cfs)	4.07	242.95
2.98				
Top Width (ft)	23.83	Top Width (ft)	6.12	14.76

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2.95				
Vel Total (ft/s)	6.47	Avg. Vel. (ft/s)	1.57	7.13
1.52				
Max Chl Dpth (ft)	2.84	Hydr. Depth (ft)	0.44	2.31
0.66				
Conv. Total (cfs)	2687.7	Conv. (cfs)	43.8	2611.9
32.0				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.07	15.33
3.24				
Min Ch El (ft)	4804.83	Shear (lb/sq ft)	0.23	1.20
0.33				
Alpha	1.18	Stream Power (lb/ft s)	0.36	8.56
0.50				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.13
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.06
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.13	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.44	Wt. n-Val.	0.050	0.033
0.065				
W.S. Elev (ft)	4808.69	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4808.45	Flow Area (sq ft)	39.87	49.14
6.02				
E.G. Slope (ft/ft)	0.003544	Area (sq ft)	67.87	49.14
6.98				
Q Total (cfs)	350.00	Flow (cfs)	54.70	286.40
8.90				
Top Width (ft)	161.85	Top Width (ft)	126.34	14.76
20.76				
Vel Total (ft/s)	3.68	Avg. Vel. (ft/s)	1.37	5.83
1.48				
Max Chl Dpth (ft)	3.86	Hydr. Depth (ft)	0.69	3.33
1.27				
Conv. Total (cfs)	5878.8	Conv. (cfs)	918.8	4810.5
149.6				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	58.40	15.33
5.32				
Min Ch El (ft)	4804.83	Shear (lb/sq ft)	0.15	0.71
0.25				
Alpha	2.07	Stream Power (lb/ft s)	0.21	4.13
0.37				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.15	0.17
0.03				
C & E Loss (ft)	0.06	Cum SA (acres)	0.32	0.06
0.07				

Warning: Divided flow computed for this cross-section.

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.

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This may indicate the need for additional cross sections.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.75	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.34	Wt. n-Val.	0.050	0.033
0.065				
W.S. Elev (ft)	4809.40	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	81.48	59.70
9.72				
E.G. Slope (ft/ft)	0.002516	Area (sq ft)	158.29	59.70
69.96				
Q Total (cfs)	500.00	Flow (cfs)	151.65	333.67
14.68				
Top Width (ft)	282.14	Top Width (ft)	126.65	14.76
140.74				
Vel Total (ft/s)	3.31	Avg. Vel. (ft/s)	1.86	5.59
1.51				
Max Chl Dpth (ft)	4.57	Hydr. Depth (ft)	1.40	4.04
1.74				
Conv. Total (cfs)	9968.2	Conv. (cfs)	3023.4	6652.3
292.6				
Length Wtd. (ft)	4.82	Wetted Per. (ft)	58.40	15.33
6.42				
Min Ch El (ft)	4804.83	Shear (lb/sq ft)	0.22	0.61
0.24				
Alpha	2.00	Stream Power (lb/ft s)	0.41	3.42
0.36				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.60	0.23
0.28				
C & E Loss (ft)	0.00	Cum SA (acres)	0.56	0.06
0.48				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 14.375*

INPUT

Description:

Station	Elevation	Data	num=	44						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	4809.92	.88	4807.81	1.07	4807.57	22.89	4808.2	26.13	4808.19	
50.27	4808.34	58.4	4808.3	88.53	4808.15	95.77	4807.98	117.16	4808.05	
124.95	4807.42	125.14	4807.41	128.49	4806.33	129.57	4805.65	130.51	4805.51	
132.92	4805.31	133.3	4805.06	133.33	4805.04	134.01	4804.88	135.18	4804.77	
136.67	4804.78	137.49	4804.86	138.54	4805.17	138.94	4805.29	140.12	4805.31	
140.96	4805.36	141.36	4805.5	143.14	4806.25	147.31	4808.08	148.91	4809.36	
151.38	4809.41	160.4	4808.77	180.04	4808.72	191.55	4809.37	222.92	4808.68	
237.69	4808.46	264.58	4808.82	287.77	4809.1	296.24	4809.16	299.19	4809.62	
304.4	4810.54	311.89	4811.92	318.4	4813.05	324.95	4814.18			

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	128.49	.033	143.14	.066

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Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
128.49	143.14	4.76	4.84	4.82	.1	.3	
Ineffective Flow	num=	2					
Sta L	Sta R	Elev	Permanent				
074.06875		F					
149.6234	324.95	F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.08	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.033
W.S. Elev (ft)	4805.04	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.91
E.G. Slope (ft/ft)	0.013167	Area (sq ft)		0.91
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.73	Top Width (ft)		4.73
Vel Total (ft/s)	1.71	Avg. Vel. (ft/s)		1.71
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.6	Conv. (cfs)		13.6
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.78
Min Ch El (ft)	4804.77	Shear (lb/sq ft)		0.16
Alpha	1.00	Stream Power (lb/ft s)		0.27
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.62	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.033
0.066				
W.S. Elev (ft)	4806.34	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		15.14
0.01				
E.G. Slope (ft/ft)	0.009149	Area (sq ft)	0.00	15.14
0.01				
Q Total (cfs)	65.00	Flow (cfs)		65.00
0.00				
Top Width (ft)	14.86	Top Width (ft)	0.02	14.65
0.20				
Vel Total (ft/s)	4.29	Avg. Vel. (ft/s)		4.29
0.25				

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Max Chl Dpth (ft)	1.57	Hydr. Depth (ft)	1.03
0.04			
Conv. Total (cfs)	679.6	Conv. (cfs)	679.5
0.0			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	15.21
0.21			
Min Ch El (ft)	4804.77	Shear (lb/sq ft)	0.57
0.02			
Alpha	1.00	Stream Power (lb/ft s)	2.44
0.01			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.05
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.06
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4808.00	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.64	Wt. n-Val.	0.050	0.033
0.066				
W.S. Elev (ft)	4807.35	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.63	30.06
1.39				
E.G. Slope (ft/ft)	0.008406	Area (sq ft)	1.63	30.06
1.39				
Q Total (cfs)	200.00	Flow (cfs)	2.75	195.43
1.82				
Top Width (ft)	20.34	Top Width (ft)	3.18	14.65
2.52				
Vel Total (ft/s)	6.05	Avg. Vel. (ft/s)	1.69	6.50
1.31				
Max Chl Dpth (ft)	2.58	Hydr. Depth (ft)	0.51	2.05
0.55				
Conv. Total (cfs)	2181.4	Conv. (cfs)	30.0	2131.6
19.9				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	3.34	15.21
2.75				
Min Ch El (ft)	4804.77	Shear (lb/sq ft)	0.26	1.04
0.27				
Alpha	1.13	Stream Power (lb/ft s)	0.43	6.74
0.35				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.11
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.06
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.39	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.050	0.033
0.066				
W.S. Elev (ft)	4807.62	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.40	Flow Area (sq ft)	2.82	34.01

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2.15				
E.G. Slope (ft/ft)	0.008552	Area (sq ft)	2.87	34.01
2.15				
Q Total (cfs)	250.00	Flow (cfs)	4.57	242.14
3.29				
Top Width (ft)	25.76	Top Width (ft)	7.98	14.65
3.13				
Vel Total (ft/s)	6.41	Avg. Vel. (ft/s)	1.62	7.12
1.53				
Max Chl Dpth (ft)	2.85	Hydr. Depth (ft)	0.47	2.32
0.69				
Conv. Total (cfs)	2703.3	Conv. (cfs)	49.4	2618.3
35.6				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.24	15.21
3.42				
Min Ch El (ft)	4804.77	Shear (lb/sq ft)	0.24	1.19
0.34				
Alpha	1.20	Stream Power (lb/ft s)	0.39	8.50
0.51				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.13
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.06
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.04	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.99	Wt. n-Val.	0.050	0.033
0.066				
W.S. Elev (ft)	4808.05	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4808.05	Flow Area (sq ft)	7.21	40.18
3.67				
E.G. Slope (ft/ft)	0.009132	Area (sq ft)	11.19	40.18
3.67				
Q Total (cfs)	350.00	Flow (cfs)	12.76	330.31
6.93				
Top Width (ft)	69.40	Top Width (ft)	50.66	14.65
4.09				
Vel Total (ft/s)	6.86	Avg. Vel. (ft/s)	1.77	8.22
1.89				
Max Chl Dpth (ft)	3.27	Hydr. Depth (ft)	0.21	2.74
0.90				
Conv. Total (cfs)	3662.5	Conv. (cfs)	133.6	3456.4
72.5				
Length Wtd. (ft)		Wetted Per. (ft)	34.13	15.21
4.47				
Min Ch El (ft)	4804.77	Shear (lb/sq ft)	0.12	1.51
0.47				
Alpha	1.36	Stream Power (lb/ft s)	0.21	12.38
0.88				
Frctn Loss (ft)		Cum Volume (acre-ft)	0.14	0.17
0.03				
C & E Loss (ft)		Cum SA (acres)	0.31	0.06
0.07				

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Warning: The energy equation could not be balanced within the specified number of iterations. The program used critical depth for the water surface and continued on with the calculations.
Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

Parameter	Value	Element	Left OB	Channel
E.G. Elev (ft)	4809.73			
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.	0.050	0.033
0.066				
W.S. Elev (ft)	4809.37	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	77.10	59.61
10.24				
E.G. Slope (ft/ft)	0.002578	Area (sq ft)	166.82	59.61
82.90				
Q Total (cfs)	500.00	Flow (cfs)	146.42	338.71
14.88				
Top Width (ft)	294.90	Top Width (ft)	128.26	14.65
151.98				
Vel Total (ft/s)	3.40	Avg. Vel. (ft/s)	1.90	5.68
1.45				
Max Chl Dpth (ft)	4.60	Hydr. Depth (ft)	1.42	4.07
1.62				
Conv. Total (cfs)	9846.7	Conv. (cfs)	2883.5	6670.3
293.0				
Length Wtd. (ft)	4.82	Wetted Per. (ft)	54.62	15.21
7.15				
Min Ch El (ft)	4804.77	Shear (lb/sq ft)	0.23	0.63
0.23				
Alpha	1.99	Stream Power (lb/ft s)	0.43	3.58
0.33				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.59	0.22
0.27				
C & E Loss (ft)	0.00	Cum SA (acres)	0.55	0.06
0.47				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
REACH: C

RS: 14.25*

INPUT

Description:

Station	Elevation	Data	num=	44	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.91	.89	4807.7	1.08	4807.48	23.18	4808.04	26.46	4808.03			
50.9	4808.21	59.13	4808.18	89.64	4808.11	96.98	4807.97	118.64	4808.08			
126.52	4807.33	126.72	4807.31	130.11	4806.25	131.23	4805.63	132.19	4805.5			
134.69	4805.3	135.08	4805.02	135.11	4804.99	135.81	4804.81	137.02	4804.7			
138.45	4804.72	139.23	4804.8	140.23	4805.08	140.62	4805.19	141.75	4805.21			
142.55	4805.28	142.93	4805.41	144.64	4806.17	148.78	4807.93	150.37	4809.14			
152.83	4809.24	161.79	4808.65	181.31	4808.6	192.75	4809.18	223.93	4808.53			
238.61	4808.36	265.34	4808.71	288.38	4809	296.8	4809.05	299.73	4809.47			
304.9	4810.34	312.35	4811.66	318.82	4812.71	325.33	4813.77					

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Manning's n Values
 Sta n Val Sta n Val
 0 .05 130.11 .032 144.64 .067

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 130.11 144.64 4.76 4.84 4.82 .1 .3
 Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 079.46249 F
 151.2312 325.33 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4805.02	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.032
W.S. Elev (ft)	4804.97	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.91
E.G. Slope (ft/ft)	0.012184	Area (sq ft)		0.91
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.67	Top Width (ft)		4.67
Vel Total (ft/s)	1.71	Avg. Vel. (ft/s)		1.71
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	14.1	Conv. (cfs)		14.1
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.73
Min Ch El (ft)	4804.70	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.25
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.28	Wt. n-Val.	0.000	0.032
0.067				
W.S. Elev (ft)	4806.29	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.00	15.17
0.02				
E.G. Slope (ft/ft)	0.008442	Area (sq ft)	0.00	15.17
0.02				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.99
0.01				

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Top Width (ft)	14.95	Top Width (ft)	0.13 14.53
0.28			
Vel Total (ft/s)	4.28	Avg. Vel. (ft/s)	0.20 4.28
0.30			
Max Chl Dpth (ft)	1.59	Hydr. Depth (ft)	0.02 1.04
0.06			
Conv. Total (cfs)	707.4	Conv. (cfs)	0.0 707.4
0.1			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	0.14 15.08
0.31			
Min Ch El (ft)	4804.70	Shear (lb/sq ft)	0.53
0.03			
Alpha	1.00	Stream Power (lb/ft s)	2.27
0.01			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.05
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.05
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.95	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.050	0.032
0.067				
W.S. Elev (ft)	4807.30	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.77	29.87
1.51				
E.G. Slope (ft/ft)	0.007959	Area (sq ft)	1.77	29.87
1.51				
Q Total (cfs)	200.00	Flow (cfs)	2.97	195.10
1.93				
Top Width (ft)	20.56	Top Width (ft)	3.37	14.53
2.66				
Vel Total (ft/s)	6.03	Avg. Vel. (ft/s)	1.67	6.53
1.28				
Max Chl Dpth (ft)	2.60	Hydr. Depth (ft)	0.53	2.06
0.57				
Conv. Total (cfs)	2241.9	Conv. (cfs)	33.2	2187.0
21.7				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	3.53	15.08
2.89				
Min Ch El (ft)	4804.70	Shear (lb/sq ft)	0.25	0.98
0.26				
Alpha	1.14	Stream Power (lb/ft s)	0.42	6.43
0.33				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.11
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.06
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.34	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.77	Wt. n-Val.	0.050	0.032

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0.067				
W.S. Elev (ft)	4807.57	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.36	Flow Area (sq ft)	3.03	33.76
2.31				
E.G. Slope (ft/ft)	0.008109	Area (sq ft)	3.20	33.76
2.31				
Q Total (cfs)	250.00	Flow (cfs)	4.99	241.57
3.44				
Top Width (ft)	27.58	Top Width (ft)	9.76	14.53
3.29				
Vel Total (ft/s)	6.39	Avg. Vel. (ft/s)	1.65	7.16
1.49				
Max Chl Dpth (ft)	2.87	Hydr. Depth (ft)	0.50	2.32
0.70				
Conv. Total (cfs)	2776.3	Conv. (cfs)	55.4	2682.7
38.2				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.29	15.08
3.58				
Min Ch El (ft)	4804.70	Shear (lb/sq ft)	0.24	1.13
0.33				
Alpha	1.21	Stream Power (lb/ft s)	0.40	8.11
0.49				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.13
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.06
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4809.00	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.93	Wt. n-Val.	0.050	0.032
0.067				
W.S. Elev (ft)	4808.07	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.97	Flow Area (sq ft)	8.65	41.03
4.24				
E.G. Slope (ft/ft)	0.007780	Area (sq ft)	15.86	41.03
4.24				
Q Total (cfs)	350.00	Flow (cfs)	14.86	327.44
7.70				
Top Width (ft)	86.43	Top Width (ft)	67.58	14.53
4.32				
Vel Total (ft/s)	6.49	Avg. Vel. (ft/s)	1.72	7.98
1.82				
Max Chl Dpth (ft)	3.37	Hydr. Depth (ft)	0.24	2.82
0.98				
Conv. Total (cfs)	3968.1	Conv. (cfs)	168.4	3712.3
87.3				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	36.56	15.08
4.73				
Min Ch El (ft)	4804.70	Shear (lb/sq ft)	0.11	1.32
0.44				
Alpha	1.42	Stream Power (lb/ft s)	0.20	10.55
0.79				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.14	0.16
0.03				

C & E Loss (ft)	low_littledominguez.rep		
0.07	0.00 Cum SA (acres)	0.30	0.06

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.71	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.39	Wt. n-Val.	0.050	0.032
0.067				
W.S. Elev (ft)	4809.32	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	71.14	59.12
10.76				
E.G. Slope (ft/ft)	0.002616	Area (sq ft)	172.57	59.12
93.89				
Q Total (cfs)	500.00	Flow (cfs)	135.26	349.03
15.71				
Top Width (ft)	298.41	Top Width (ft)	129.87	14.53
154.01				
Vel Total (ft/s)	3.55	Avg. Vel. (ft/s)	1.90	5.90
1.46				
Max Chl Dpth (ft)	4.62	Hydr. Depth (ft)	1.40	4.07
1.63				
Conv. Total (cfs)	9776.7	Conv. (cfs)	2644.8	6824.6
307.2				
Length Wtd. (ft)	4.82	Wetted Per. (ft)	50.85	15.08
7.36				
Min Ch El (ft)	4804.70	Shear (lb/sq ft)	0.23	0.64
0.24				
Alpha	2.02	Stream Power (lb/ft s)	0.43	3.78
0.35				
Frcn Loss (ft)	0.01	Cum Volume (acre-ft)	0.57	0.21
0.26				
C & E Loss (ft)	0.00	Cum SA (acres)	0.53	0.06
0.45				

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 14.125*

INPUT

Description:

Station Elevation Data		num=		44					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.89	.9	4807.59	1.09	4807.39	23.47	4807.87	26.79	4807.86
51.53	4808.08	59.87	4808.07	90.76	4808.07	98.19	4807.96	120.11	4808.11
128.1	4807.24	128.3	4807.22	131.73	4806.17	132.88	4805.61	133.88	4805.48
136.45	4805.29	136.86	4804.97	136.89	4804.94	137.61	4804.75	138.86	4804.64
140.22	4804.66	140.97	4804.73	141.93	4804.99	142.3	4805.09	143.38	4805.11
144.14	4805.19	144.51	4805.32	146.14	4806.08	150.26	4807.79	151.84	4808.92
154.28	4809.07	163.19	4808.54	182.58	4808.47	193.95	4808.99	224.93	4808.39
239.53	4808.25	266.09	4808.61	288.99	4808.9	297.35	4808.95	300.27	4809.33
305.41	4810.14	312.81	4811.39	319.24	4812.37	325.71	4813.36		

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Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 131.73 .032 146.14 .069

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
131.73 146.14 4.76 4.84 4.82 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
084.85625 F
152.8391 325.71 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.032
W.S. Elev (ft)	4804.91	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.89
E.G. Slope (ft/ft)	0.013211	Area (sq ft)		0.89
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.62	Top Width (ft)		4.62
Vel Total (ft/s)	1.76	Avg. Vel. (ft/s)		1.76
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.6	Conv. (cfs)		13.6
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.67
Min Ch El (ft)	4804.64	Shear (lb/sq ft)		0.16
Alpha	1.00	Stream Power (lb/ft s)		0.28
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.28	Wt. n-Val.	0.050	0.032
0.069				
W.S. Elev (ft)	4806.25	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.01	15.26
0.03				
E.G. Slope (ft/ft)	0.008194	Area (sq ft)	0.01	15.26
0.03				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.98
0.01				
Top Width (ft)	15.08	Top Width (ft)	0.26	14.41

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0.41				
Vel Total (ft/s)	4.25	Avg. Vel. (ft/s)	0.30	4.26
0.36				
Max Chl Dpth (ft)	1.61	Hydr. Depth (ft)	0.04	1.06
0.08				
Conv. Total (cfs)	718.1	Conv. (cfs)	0.0	717.9
0.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	0.27	14.95
0.44				
Min Ch El (ft)	4804.64	Shear (lb/sq ft)	0.02	0.52
0.04				
Alpha	1.01	Stream Power (lb/ft s)	0.01	2.22
0.01				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.05
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.05
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.91	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.050	0.032
0.069				
W.S. Elev (ft)	4807.26	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	1.94	29.80
1.67				
E.G. Slope (ft/ft)	0.007893	Area (sq ft)	1.94	29.80
1.67				
Q Total (cfs)	200.00	Flow (cfs)	3.19	194.68
2.13				
Top Width (ft)	21.05	Top Width (ft)	3.80	14.41
2.84				
Vel Total (ft/s)	5.99	Avg. Vel. (ft/s)	1.64	6.53
1.28				
Max Chl Dpth (ft)	2.62	Hydr. Depth (ft)	0.51	2.07
0.59				
Conv. Total (cfs)	2251.2	Conv. (cfs)	35.9	2191.3
24.0				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	3.96	14.95
3.07				
Min Ch El (ft)	4804.64	Shear (lb/sq ft)	0.24	0.98
0.27				
Alpha	1.16	Stream Power (lb/ft s)	0.40	6.42
0.34				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.10
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.06
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.29	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.050	0.032
0.069				

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W.S. Elev (ft)	4807.53	Reach Len. (ft)	4.76 4.84
4.82			
Crit W.S. (ft)	4807.30	Flow Area (sq ft)	3.33 33.76
2.55			
E.G. Slope (ft/ft)	0.007952	Area (sq ft)	3.82 33.76
2.55			
Q Total (cfs)	250.00	Flow (cfs)	5.66 240.59
3.75			
Top Width (ft)	31.07	Top Width (ft)	13.16 14.41
3.50			
Vel Total (ft/s)	6.31	Avg. Vel. (ft/s)	1.70 7.13
1.47			
Max Chl Dpth (ft)	2.89	Hydr. Depth (ft)	0.53 2.34
0.73			
Conv. Total (cfs)	2803.5	Conv. (cfs)	63.4 2698.0
42.0			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.50 14.95
3.79			
Min Ch El (ft)	4804.64	Shear (lb/sq ft)	0.25 1.12
0.33			
Alpha	1.23	Stream Power (lb/ft s)	0.43 7.99
0.49			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03 0.12
0.01			
C & E Loss (ft)	0.00	Cum SA (acres)	0.08 0.06
0.01			

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.95	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.93	Wt. n-Val.	0.050	0.032
0.069				
W.S. Elev (ft)	4808.02	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.91	Flow Area (sq ft)	7.84	40.74
4.50				
E.G. Slope (ft/ft)	0.007830	Area (sq ft)	18.57	40.74
4.50				
Q Total (cfs)	350.00	Flow (cfs)	15.30	326.55
8.15				
Top Width (ft)	85.88	Top Width (ft)	67.03	14.41
4.44				
Vel Total (ft/s)	6.59	Avg. Vel. (ft/s)	1.95	8.02
1.81				
Max Chl Dpth (ft)	3.38	Hydr. Depth (ft)	0.34	2.83
1.01				
Conv. Total (cfs)	3955.4	Conv. (cfs)	173.0	3690.4
92.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	23.40	14.95
4.85				
Min Ch El (ft)	4804.64	Shear (lb/sq ft)	0.16	1.33
0.45				
Alpha	1.38	Stream Power (lb/ft s)	0.32	10.67
0.82				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.14	0.16
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.29	0.06

0.07

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

		Element	Left OB	Channel
E.G. Elev (ft)	4809.69			
Right OB				
Vel Head (ft)	0.42	Wt. n-Val.	0.050	0.032
0.069				
W.S. Elev (ft)	4809.27	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	65.42	58.77
11.38				
E.G. Slope (ft/ft)	0.002745	Area (sq ft)	179.71	58.77
105.92				
Q Total (cfs)	500.00	Flow (cfs)	126.85	356.06
17.10				
Top Width (ft)	299.56	Top Width (ft)	131.49	14.41
153.66				
Vel Total (ft/s)	3.69	Avg. Vel. (ft/s)	1.94	6.06
1.50				
Max Chl Dpth (ft)	4.63	Hydr. Depth (ft)	1.40	4.08
1.70				
Conv. Total (cfs)	9543.3	Conv. (cfs)	2421.1	6795.9
326.3				
Length Wtd. (ft)	4.82	Wetted Per. (ft)	47.08	14.95
7.40				
Min Ch El (ft)	4804.64	Shear (lb/sq ft)	0.24	0.67
0.26				
Alpha	2.00	Stream Power (lb/ft s)	0.46	4.08
0.40				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.55	0.21
0.25				
C & E Loss (ft)	0.00	Cum SA (acres)	0.52	0.06
0.43				

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 14.*

INPUT

Description:

Station Elevation Data		num= 44							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.88	.91	4807.48	1.11	4807.3	23.76	4807.71	27.12	4807.7
52.17	4807.94	60.6	4807.96	91.87	4808.03	99.39	4807.95	121.59	4808.13
129.67	4807.16	129.88	4807.13	133.35	4806.1	134.53	4805.59	135.56	4805.47
138.22	4805.29	138.63	4804.92	138.67	4804.89	139.41	4804.68	140.7	4804.57
142	4804.6	142.71	4804.66	143.63	4804.9	143.98	4804.99	145.01	4805.01
145.73	4805.1	146.08	4805.23	147.64	4806	151.73	4807.64	153.3	4808.69
155.73	4808.91	164.58	4808.42	183.85	4808.35	195.15	4808.8	225.94	4808.24
240.44	4808.14	266.84	4808.51	289.59	4808.8	297.91	4808.85	300.81	4809.19
305.91	4809.94	313.27	4811.13	319.66	4812.04	326.08	4812.95		

Manning's n Values

num=

3

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Sta	n Val	Sta	n Val	Sta	n Val
0	.05	133.35	.032	147.64	.07

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

 133.35 147.64 4.76 4.84 4.82 .1 .3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	90.25		F
154.447	326.08		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.89	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.032
W.S. Elev (ft)	4804.85	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.89
E.G. Slope (ft/ft)	0.012851	Area (sq ft)		0.89
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.60	Top Width (ft)		4.60
Vel Total (ft/s)	1.75	Avg. Vel. (ft/s)		1.75
Max Chl Dpth (ft)	0.28	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.8	Conv. (cfs)		13.8
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.65
Min Ch El (ft)	4804.57	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.27
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.49	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.28	Wt. n-Val.	0.050	0.032
0.070				
W.S. Elev (ft)	4806.21	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.02	15.25
0.05				
E.G. Slope (ft/ft)	0.008122	Area (sq ft)	0.02	15.25
0.05				
Q Total (cfs)	65.00	Flow (cfs)	0.01	64.97
0.02				
Top Width (ft)	15.16	Top Width (ft)	0.36	14.29
0.51				

	low_littledominguez.rep		
Vel Total (ft/s)	4.24	Avg. Vel. (ft/s)	0.37 4.26
0.40			
Max Chl Dpth (ft)	1.64	Hydr. Depth (ft)	0.05 1.07
0.10			
Conv. Total (cfs)	721.2	Conv. (cfs)	0.1 720.9
0.2			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	0.37 14.85
0.55			
Min Ch El (ft)	4804.57	Shear (lb/sq ft)	0.03 0.52
0.05			
Alpha	1.01	Stream Power (lb/ft s)	0.01 2.22
0.02			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.05
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.05
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.86	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.050	0.032
0.070				
W.S. Elev (ft)	4807.21	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	2.07	29.54
1.81				
E.G. Slope (ft/ft)	0.008012	Area (sq ft)	2.07	29.54
1.81				
Q Total (cfs)	200.00	Flow (cfs)	3.43	194.23
2.34				
Top Width (ft)	21.36	Top Width (ft)	4.06	14.29
3.01				
Vel Total (ft/s)	5.98	Avg. Vel. (ft/s)	1.66	6.57
1.29				
Max Chl Dpth (ft)	2.64	Hydr. Depth (ft)	0.51	2.07
0.60				
Conv. Total (cfs)	2234.3	Conv. (cfs)	38.4	2169.8
26.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	4.22	14.85
3.24				
Min Ch El (ft)	4804.57	Shear (lb/sq ft)	0.25	1.00
0.28				
Alpha	1.17	Stream Power (lb/ft s)	0.41	6.54
0.36				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.10
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.05
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.77	Wt. n-Val.	0.050	0.032
0.070				
W.S. Elev (ft)	4807.48	Reach Len. (ft)	4.76	4.84

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4.82				
Crit W.S. (ft)	4807.28	Flow Area (sq ft)	3.50	33.47
2.73				
E.G. Slope (ft/ft)	0.008054	Area (sq ft)	4.43	33.47
2.73				
Q Total (cfs)	250.00	Flow (cfs)	6.18	239.77
4.06				
Top Width (ft)	34.54	Top Width (ft)	16.56	14.29
3.69				
Vel Total (ft/s)	6.30	Avg. Vel. (ft/s)	1.76	7.16
1.48				
Max Chl Dpth (ft)	2.91	Hydr. Depth (ft)	0.55	2.34
0.74				
Conv. Total (cfs)	2785.8	Conv. (cfs)	68.8	2671.8
45.2				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.52	14.85
3.98				
Min Ch El (ft)	4804.57	Shear (lb/sq ft)	0.27	1.13
0.35				
Alpha	1.24	Stream Power (lb/ft s)	0.48	8.12
0.51				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.12
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.91	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.95	Wt. n-Val.	0.050	0.032
0.070				
W.S. Elev (ft)	4807.96	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.83	Flow Area (sq ft)	7.47	40.26
4.72				
E.G. Slope (ft/ft)	0.008021	Area (sq ft)	22.15	40.26
4.72				
Q Total (cfs)	350.00	Flow (cfs)	15.81	325.53
8.67				
Top Width (ft)	88.67	Top Width (ft)	69.81	14.29
4.56				
Vel Total (ft/s)	6.67	Avg. Vel. (ft/s)	2.12	8.09
1.84				
Max Chl Dpth (ft)	3.39	Hydr. Depth (ft)	0.64	2.82
1.03				
Conv. Total (cfs)	3908.1	Conv. (cfs)	176.5	3634.8
96.8				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	11.79	14.85
4.97				
Min Ch El (ft)	4804.57	Shear (lb/sq ft)	0.32	1.36
0.48				
Alpha	1.37	Stream Power (lb/ft s)	0.67	10.98
0.87				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.14	0.15
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.29	0.05
0.07				

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Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)	Element	Left OB	Channel
Right OB	4809.67			
Vel Head (ft)	0.46	Wt. n-Val.	0.050	0.032
0.070				
W.S. Elev (ft)	4809.21	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	59.33	58.24
11.98				
E.G. Slope (ft/ft)	0.002922	Area (sq ft)	185.85	58.24
116.76				
Q Total (cfs)	500.00	Flow (cfs)	117.57	363.56
18.88				
Top Width (ft)	300.72	Top Width (ft)	133.10	14.29
153.34				
Vel Total (ft/s)	3.86	Avg. Vel. (ft/s)	1.98	6.24
1.58				
Max Chl Dpth (ft)	4.64	Hydr. Depth (ft)	1.38	4.08
1.76				
Conv. Total (cfs)	9250.1	Conv. (cfs)	2175.0	6725.9
349.2				
Length Wtd. (ft)	4.82	Wetted Per. (ft)	43.31	14.85
7.45				
Min Ch El (ft)	4804.57	Shear (lb/sq ft)	0.25	0.72
0.29				
Alpha	1.97	Stream Power (lb/ft s)	0.50	4.47
0.46				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.53	0.20
0.23				
C & E Loss (ft)	0.01	Cum SA (acres)	0.50	0.05
0.42				

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 13.875*

INPUT

Description:

Station	Elevation	Data	num=	44	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.86	.92	4807.37	1.12	4807.21	24.05	4807.55	27.45	4807.53			
52.8	4807.81	61.34	4807.84	92.99	4807.99	100.6	4807.94	123.07	4808.16			
131.25	4807.07	131.45	4807.04	134.97	4806.02	136.19	4805.57	137.25	4805.46			
139.98	4805.28	140.41	4804.88	140.45	4804.84	141.21	4804.61	142.54	4804.51			
143.78	4804.54	144.45	4804.6	145.32	4804.8	145.66	4804.89	146.63	4804.92			
147.33	4805.02	147.66	4805.14	149.14	4805.92	153.2	4807.49	154.76	4808.47			
157.18	4808.74	165.97	4808.31	185.12	4808.23	196.35	4808.61	226.95	4808.09			
241.36	4808.03	267.59	4808.4	290.2	4808.71	298.46	4808.75	301.34	4809.04			
306.42	4809.74	313.73	4810.86	320.08	4811.7	326.46	4812.54					

Manning's	n Values	Sta	n Val	Sta	n Val	Sta	n Val

num= 3

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0 .05 134.97 .031 149.14 .071
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
134.97 149.14 4.76 4.84 4.82 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
095.64375 F
156.0549 326.46 F

CROSS SECTION OUTPUT Profile #PF 1

		Element	Left OB	Channel
E.G. Elev (ft)	4804.83			
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.031
W.S. Elev (ft)	4804.78	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.88
E.G. Slope (ft/ft)	0.012768	Area (sq ft)		0.88
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.60	Top Width (ft)		4.60
Vel Total (ft/s)	1.78	Avg. Vel. (ft/s)		1.78
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.8	Conv. (cfs)		13.8
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.65
Min Ch El (ft)	4804.51	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.27
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

		Element	Left OB	Channel
E.G. Elev (ft)	4806.45			
Right OB				
Vel Head (ft)	0.28	Wt. n-Val.	0.050	0.031
0.071				
W.S. Elev (ft)	4806.16	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.03	15.20
0.08				
E.G. Slope (ft/ft)	0.007622	Area (sq ft)	0.03	15.20
0.08				
Q Total (cfs)	65.00	Flow (cfs)	0.02	64.95
0.03				
Top Width (ft)	15.29	Top Width (ft)	0.49	14.17
0.63				
Vel Total (ft/s)	4.25	Avg. Vel. (ft/s)	0.43	4.27

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0.43				
Max Chl Dpth (ft)	1.65	Hydr. Depth (ft)	0.07	1.07
0.12				
Conv. Total (cfs)	744.5	Conv. (cfs)	0.2	744.0
0.4				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	0.51	14.73
0.67				
Min Ch El (ft)	4804.51	Shear (lb/sq ft)	0.03	0.49
0.05				
Alpha	1.01	Stream Power (lb/ft s)	0.01	2.10
0.02				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.05
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.05
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.82	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.66	Wt. n-Val.	0.050	0.031
0.071				
W.S. Elev (ft)	4807.15	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	2.24	29.23
1.96				
E.G. Slope (ft/ft)	0.007677	Area (sq ft)	2.24	29.23
1.96				
Q Total (cfs)	200.00	Flow (cfs)	3.66	193.86
2.49				
Top Width (ft)	21.70	Top Width (ft)	4.34	14.17
3.19				
Vel Total (ft/s)	5.98	Avg. Vel. (ft/s)	1.64	6.63
1.27				
Max Chl Dpth (ft)	2.64	Hydr. Depth (ft)	0.52	2.06
0.62				
Conv. Total (cfs)	2282.6	Conv. (cfs)	41.7	2212.5
28.4				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	4.49	14.73
3.42				
Min Ch El (ft)	4804.51	Shear (lb/sq ft)	0.24	0.95
0.28				
Alpha	1.19	Stream Power (lb/ft s)	0.39	6.31
0.35				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.10
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.05
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.20	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.050	0.031
0.071				
W.S. Elev (ft)	4807.43	Reach Len. (ft)	4.76	4.84
4.82				

low_littledominguez.rep				
Crit W.S. (ft)	4807.26	Flow Area (sq ft)	3.71	33.12
2.94				
E.G. Slope (ft/ft)	0.007704	Area (sq ft)	5.32	33.12
2.94				
Q Total (cfs)	250.00	Flow (cfs)	6.61	239.13
4.26				
Top Width (ft)	39.31	Top Width (ft)	21.25	14.17
3.90				
Vel Total (ft/s)	6.29	Avg. Vel. (ft/s)	1.78	7.22
1.45				
Max Chl Dpth (ft)	2.92	Hydr. Depth (ft)	0.58	2.34
0.75				
Conv. Total (cfs)	2848.3	Conv. (cfs)	75.3	2724.5
48.6				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.57	14.73
4.18				
Min Ch El (ft)	4804.51	Shear (lb/sq ft)	0.27	1.08
0.34				
Alpha	1.26	Stream Power (lb/ft s)	0.48	7.81
0.49				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.11
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.08	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.86	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.96	Wt. n-Val.	0.050	0.031
0.071				
W.S. Elev (ft)	4807.90	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.80	Flow Area (sq ft)	7.57	39.81
4.98				
E.G. Slope (ft/ft)	0.007697	Area (sq ft)	27.67	39.81
4.98				
Q Total (cfs)	350.00	Flow (cfs)	16.23	324.80
8.97				
Top Width (ft)	101.87	Top Width (ft)	82.99	14.17
4.71				
Vel Total (ft/s)	6.68	Avg. Vel. (ft/s)	2.14	8.16
1.80				
Max Chl Dpth (ft)	3.39	Hydr. Depth (ft)	0.76	2.81
1.06				
Conv. Total (cfs)	3989.4	Conv. (cfs)	184.9	3702.2
102.3				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	10.14	14.73
5.12				
Min Ch El (ft)	4804.51	Shear (lb/sq ft)	0.36	1.30
0.47				
Alpha	1.39	Stream Power (lb/ft s)	0.77	10.59
0.84				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.13	0.15
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.28	0.05
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)		Element	Left OB	Channel
Right OB					
Vel Head (ft)	0.52	Wt. n-Val.		0.050	0.031
0.071					
W.S. Elev (ft)	4809.14	Reach Len. (ft)		4.76	4.84
4.82					
Crit W.S. (ft)		Flow Area (sq ft)		52.35	57.36
12.45					
E.G. Slope (ft/ft)	0.003055	Area (sq ft)		189.22	57.36
124.16					
Q Total (cfs)	500.00	Flow (cfs)		103.65	376.14
20.20					
Top Width (ft)	301.78	Top Width (ft)		134.70	14.17
152.91					
Vel Total (ft/s)	4.09	Avg. Vel. (ft/s)		1.98	6.56
1.62					
Max Chl Dpth (ft)	4.63	Hydr. Depth (ft)		1.33	4.05
1.80					
Conv. Total (cfs)	9046.3	Conv. (cfs)		1875.4	6805.4
365.5					
Length Wtd. (ft)	4.82	Wetted Per. (ft)		39.55	14.73
7.50					
Min Ch El (ft)	4804.51	Shear (lb/sq ft)		0.25	0.74
0.32					
Alpha	1.99	Stream Power (lb/ft s)		0.50	4.87
0.51					
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)		0.51	0.19
0.22					
C & E Loss (ft)	0.00	Cum SA (acres)		0.49	0.05
0.40					

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 13.75*

INPUT

Description:

Station Elevation Data		num= 44									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.84	.93	4807.25	1.13	4807.12	24.33	4807.39	27.77	4807.37		
53.43	4807.68	62.08	4807.73	94.11	4807.95	101.81	4807.93	124.54	4808.19		
132.82	4806.98	133.03	4806.94	136.59	4805.94	137.84	4805.55	138.93	4805.45		
141.75	4805.28	142.19	4804.83	142.23	4804.79	143.01	4804.54	144.38	4804.45		
145.55	4804.48	146.19	4804.53	147.02	4804.71	147.34	4804.79	148.26	4804.82		
148.92	4804.93	149.23	4805.05	150.63	4805.83	154.67	4807.34	156.22	4808.24		
158.62	4808.57	167.36	4808.19	186.39	4808.1	197.56	4808.42	227.96	4807.94		
242.28	4807.92	268.34	4808.3	290.81	4808.61	299.02	4808.64	301.88	4808.9		
306.92	4809.55	314.19	4810.6	320.5	4811.36	326.84	4812.13				

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	136.59	.031	150.63	.072

low_littledominguez.rep

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
136.59	150.63	4.76	4.84	4.82	.1	.3	
Ineffective Flow	num=	2					
Sta L	Sta R	Elev	Permanent				
0101.0375		F					
157.6628	326.84	F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.77	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.031
W.S. Elev (ft)	4804.72	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.86
E.G. Slope (ft/ft)	0.013692	Area (sq ft)		0.86
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.58	Top Width (ft)		4.58
Vel Total (ft/s)	1.82	Avg. Vel. (ft/s)		1.82
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	13.3	Conv. (cfs)		13.3
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.63
Min Ch El (ft)	4804.45	Shear (lb/sq ft)		0.16
Alpha	1.00	Stream Power (lb/ft s)		0.29
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.	0.050	0.031
0.072				
W.S. Elev (ft)	4806.12	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.06	15.12
0.11				
E.G. Slope (ft/ft)	0.007678	Area (sq ft)	0.06	15.12
0.11				
Q Total (cfs)	65.00	Flow (cfs)	0.03	64.92
0.05				
Top Width (ft)	15.45	Top Width (ft)	0.63	14.04
0.77				
Vel Total (ft/s)	4.25	Avg. Vel. (ft/s)	0.51	4.29
0.48				

	low_littledominguez.rep		
Max Chl Dpth (ft) 0.14	1.67	Hydr. Depth (ft)	0.09 1.08
Conv. Total (cfs) 0.6	741.8	Conv. (cfs)	0.3 740.9
Length Wtd. (ft) 0.82	4.84	Wetted Per. (ft)	0.66 14.62
Min Ch El (ft) 0.06	4804.45	Shear (lb/sq ft)	0.04 0.50
Alpha 0.03	1.02	Stream Power (lb/ft s)	0.02 2.13
Frctn Loss (ft) 0.00	0.04	Cum Volume (acre-ft)	0.00 0.05
C & E Loss (ft) 0.00	0.00	Cum SA (acres)	0.00 0.05

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft) Right OB	4807.77	Element	Left OB	Channel
Vel Head (ft) 0.072	0.67	Wt. n-Val.	0.050	0.031
W.S. Elev (ft) 4.82	4807.10	Reach Len. (ft)	4.76	4.84
Crit W.S. (ft) 2.16		Flow Area (sq ft)	2.43	28.92
E.G. Slope (ft/ft) 2.16	0.007820	Area (sq ft)	2.43	28.92
Q Total (cfs) 2.79	200.00	Flow (cfs)	4.10	193.11
Top Width (ft) 3.40	22.04	Top Width (ft)	4.60	14.04
Vel Total (ft/s) 1.29	5.97	Avg. Vel. (ft/s)	1.68	6.68
Max Chl Dpth (ft) 0.64	2.65	Hydr. Depth (ft)	0.53	2.06
Conv. Total (cfs) 31.6	2261.6	Conv. (cfs)	46.3	2183.8
Length Wtd. (ft) 3.63	4.84	Wetted Per. (ft)	4.75	14.62
Min Ch El (ft) 0.29	4804.45	Shear (lb/sq ft)	0.25	0.97
Alpha 0.38	1.21	Stream Power (lb/ft s)	0.42	6.45
Frctn Loss (ft) 0.01	0.04	Cum Volume (acre-ft)	0.01	0.09
C & E Loss (ft) 0.01	0.00	Cum SA (acres)	0.03	0.05

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft) Right OB	4808.16	Element	Left OB	Channel
Vel Head (ft) 0.072	0.77	Wt. n-Val.	0.050	0.031
W.S. Elev (ft) 4.82	4807.38	Reach Len. (ft)	4.76	4.84
Crit W.S. (ft)	4807.16	Flow Area (sq ft)	4.00	32.88

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3.23				
E.G. Slope (ft/ft)	0.007730	Area (sq ft)	7.04	32.88
3.23				
Q Total (cfs)	250.00	Flow (cfs)	7.42	237.82
4.76				
Top Width (ft)	50.90	Top Width (ft)	32.75	14.04
4.11				
Vel Total (ft/s)	6.23	Avg. Vel. (ft/s)	1.85	7.23
1.48				
Max Chl Dpth (ft)	2.93	Hydr. Depth (ft)	0.61	2.34
0.78				
Conv. Total (cfs)	2843.5	Conv. (cfs)	84.4	2704.9
54.2				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.70	14.62
4.40				
Min Ch El (ft)	4804.45	Shear (lb/sq ft)	0.29	1.09
0.35				
Alpha	1.28	Stream Power (lb/ft s)	0.53	7.85
0.52				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.11
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.07	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)		Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.95	Wt. n-Val.	0.050	0.031
0.072				
W.S. Elev (ft)	4807.86	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.76	Flow Area (sq ft)	7.93	39.62
5.40				
E.G. Slope (ft/ft)	0.007640	Area (sq ft)	35.24	39.62
5.40				
Q Total (cfs)	350.00	Flow (cfs)	17.61	322.59
9.80				
Top Width (ft)	109.55	Top Width (ft)	90.57	14.04
4.94				
Vel Total (ft/s)	6.61	Avg. Vel. (ft/s)	2.22	8.14
1.81				
Max Chl Dpth (ft)	3.41	Hydr. Depth (ft)	0.81	2.82
1.09				
Conv. Total (cfs)	4004.3	Conv. (cfs)	201.5	3690.7
112.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	10.02	14.62
5.35				
Min Ch El (ft)	4804.45	Shear (lb/sq ft)	0.38	1.29
0.48				
Alpha	1.41	Stream Power (lb/ft s)	0.84	10.52
0.87				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.13	0.14
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.27	0.05
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)	4809.64	Element	Left OB	Channel
Right OB					
Vel Head (ft)	0.57		Wt. n-Val.	0.050	0.031
0.072					
W.S. Elev (ft)	4809.07		Reach Len. (ft)	4.76	4.84
4.82					
Crit W.S. (ft)			Flow Area (sq ft)	46.02	56.59
13.09					
E.G. Slope (ft/ft)	0.003308		Area (sq ft)	193.80	56.59
133.50					
Q Total (cfs)	500.00		Flow (cfs)	93.02	384.57
22.41					
Top Width (ft)	302.94		Top Width (ft)	136.31	14.04
152.59					
Vel Total (ft/s)	4.32		Avg. Vel. (ft/s)	2.02	6.80
1.71					
Max Chl Dpth (ft)	4.62		Hydr. Depth (ft)	1.29	4.03
1.86					
Conv. Total (cfs)	8693.6		Conv. (cfs)	1617.3	6686.7
389.7					
Length Wtd. (ft)	4.83		Wetted Per. (ft)	35.78	14.62
7.56					
Min Ch El (ft)	4804.45		Shear (lb/sq ft)	0.27	0.80
0.36					
Alpha	1.95		Stream Power (lb/ft s)	0.54	5.43
0.61					
Frctn Loss (ft)	0.02		Cum Volume (acre-ft)	0.49	0.19
0.21					
C & E Loss (ft)	0.01		Cum SA (acres)	0.48	0.05
0.38					

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 13.625*

INPUT

Description:

Station Elevation Data		num= 44							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.83	.94	4807.14	1.15	4807.03	24.62	4807.22	28.1	4807.21
54.07	4807.54	62.81	4807.61	95.22	4807.91	103.02	4807.92	126.02	4808.22
134.39	4806.89	134.61	4806.85	138.21	4805.87	139.5	4805.53	140.62	4805.43
143.51	4805.27	143.97	4804.78	144.01	4804.74	144.82	4804.48	146.22	4804.38
147.33	4804.41	147.93	4804.46	148.71	4804.62	149.02	4804.69	149.89	4804.72
150.51	4804.85	150.81	4804.96	152.13	4805.75	156.15	4807.2	157.69	4808.02
160.07	4808.41	168.76	4808.08	187.67	4807.98	198.76	4808.23	228.96	4807.79
243.19	4807.81	269.09	4808.19	291.42	4808.51	299.58	4808.54	302.42	4808.75
307.43	4809.35	314.65	4810.33	320.92	4811.02	327.22	4811.72		

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	138.21	.03	152.13	.074

low_littledominguez.rep

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
138.21	152.13	4.76	4.84	4.82		.1	.3
Ineffective Flow	num=	2					
Sta L	Sta R	Elev	Permanent				
0106.43	12	F					
159.27	06	327.22	F				

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.70	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.030
W.S. Elev (ft)	4804.65	Reach Len. (ft)	4.76	4.84
4.82		Flow Area (sq ft)		0.86
Crit W.S. (ft)		Area (sq ft)		0.86
E.G. Slope (ft/ft)	0.012632	Flow (cfs)		1.56
Q Total (cfs)	1.56	Top Width (ft)		4.56
Top Width (ft)	4.56	Avg. Vel. (ft/s)		1.81
Vel Total (ft/s)	1.81	Hydr. Depth (ft)		0.19
Max Chl Dpth (ft)	0.27	Conv. (cfs)		13.9
Conv. Total (cfs)	13.9	Wetted Per. (ft)		4.61
Length Wtd. (ft)	4.84	Shear (lb/sq ft)		0.15
Min Ch El (ft)	4804.38	Stream Power (lb/ft s)		0.27
Alpha	1.00	Cum Volume (acre-ft)		0.00
Frctn Loss (ft)	0.06	Cum SA (acres)		0.02
C & E Loss (ft)	0.00			

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.36	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.	0.050	0.030
0.074		Reach Len. (ft)	4.76	4.84
W.S. Elev (ft)	4806.08	Flow Area (sq ft)	0.08	15.07
4.82		Area (sq ft)	0.08	15.07
Crit W.S. (ft)		Flow (cfs)	0.04	64.89
0.15		Top Width (ft)	0.76	13.92
E.G. Slope (ft/ft)	0.007189	Avg. Vel. (ft/s)	0.54	4.30
0.15		Hydr. Depth (ft)	0.10	1.08
Q Total (cfs)	65.00			
0.07				
Top Width (ft)	15.58			
0.91				
Vel Total (ft/s)	4.25			
0.49				
Max Chl Dpth (ft)	1.70			

low_littledominguez.rep

0.16				
Conv. Total (cfs)	766.6	Conv. (cfs)	0.5	765.2
0.9				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	0.79	14.52
0.96				
Min Ch El (ft)	4804.38	Shear (lb/sq ft)	0.04	0.47
0.07				
Alpha	1.02	Stream Power (lb/ft s)	0.02	2.01
0.03				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.05
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.73	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.69	Wt. n-Val.	0.050	0.030
0.074				
W.S. Elev (ft)	4807.04	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4806.86	Flow Area (sq ft)	2.54	28.44
2.30				
E.G. Slope (ft/ft)	0.007648	Area (sq ft)	2.55	28.44
2.30				
Q Total (cfs)	200.00	Flow (cfs)	4.27	192.84
2.89				
Top Width (ft)	23.15	Top Width (ft)	5.66	13.92
3.57				
Vel Total (ft/s)	6.01	Avg. Vel. (ft/s)	1.68	6.78
1.26				
Max Chl Dpth (ft)	2.66	Hydr. Depth (ft)	0.54	2.04
0.64				
Conv. Total (cfs)	2286.9	Conv. (cfs)	48.8	2205.1
33.0				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	4.89	14.52
3.79				
Min Ch El (ft)	4804.38	Shear (lb/sq ft)	0.25	0.94
0.29				
Alpha	1.23	Stream Power (lb/ft s)	0.42	6.34
0.36				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.09
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.11	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.80	Wt. n-Val.	0.050	0.030
0.074				
W.S. Elev (ft)	4807.32	Reach Len. (ft)	4.76	4.84
4.82				

	low_littledominguez.rep			
Crit W.S. (ft)	4807.19	Flow Area (sq ft)	4.13	32.36
3.41				
E.G. Slope (ft/ft)	0.007534	Area (sq ft)	9.56	32.36
3.41				
Q Total (cfs)	250.00	Flow (cfs)	7.72	237.37
4.91				
Top Width (ft)	60.47	Top Width (ft)	42.31	13.92
4.24				
Vel Total (ft/s)	6.27	Avg. Vel. (ft/s)	1.87	7.33
1.44				
Max Chl Dpth (ft)	2.94	Hydr. Depth (ft)	0.63	2.33
0.80				
Conv. Total (cfs)	2880.3	Conv. (cfs)	89.0	2734.7
56.6				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.69	14.52
4.53				
Min Ch El (ft)	4804.38	Shear (lb/sq ft)	0.29	1.05
0.35				
Alpha	1.30	Stream Power (lb/ft s)	0.54	7.69
0.51				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.11
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.07	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.78	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.98	Wt. n-Val.	0.050	0.030
0.074				
W.S. Elev (ft)	4807.79	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.72	Flow Area (sq ft)	7.94	38.98
5.63				
E.G. Slope (ft/ft)	0.007473	Area (sq ft)	40.50	38.98
5.64				
Q Total (cfs)	350.00	Flow (cfs)	17.82	322.29
9.89				
Top Width (ft)	113.57	Top Width (ft)	91.47	13.92
8.18				
Vel Total (ft/s)	6.66	Avg. Vel. (ft/s)	2.25	8.27
1.76				
Max Chl Dpth (ft)	3.41	Hydr. Depth (ft)	0.83	2.80
1.10				
Conv. Total (cfs)	4048.7	Conv. (cfs)	206.1	3728.2
114.4				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	9.71	14.52
5.54				
Min Ch El (ft)	4804.38	Shear (lb/sq ft)	0.38	1.25
0.47				
Alpha	1.43	Stream Power (lb/ft s)	0.86	10.35
0.83				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.13	0.14
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.26	0.05
0.07				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)		Element	Left OB	Channel
Right OB					
Vel Head (ft)	0.66	Wt. n-Val.	0.050	0.030	
0.074					
W.S. Elev (ft)	4808.96	Reach Len. (ft)	4.76	4.84	
4.82					
Crit W.S. (ft)		Flow Area (sq ft)	38.43	55.15	
13.32					
E.G. Slope (ft/ft)	0.003606	Area (sq ft)	191.86	55.15	
134.76					
Q Total (cfs)	500.00	Flow (cfs)	77.47	399.23	
23.30					
Top Width (ft)	303.83	Top Width (ft)	137.90	13.92	
152.01					
Vel Total (ft/s)	4.68	Avg. Vel. (ft/s)	2.02	7.24	
1.75					
Max Chl Dpth (ft)	4.58	Hydr. Depth (ft)	1.21	3.96	
1.87					
Conv. Total (cfs)	8325.9	Conv. (cfs)	1290.1	6647.9	
388.0					
Length Wtd. (ft)	4.83	Wetted Per. (ft)	32.02	14.52	
7.62					
Min Ch El (ft)	4804.38	Shear (lb/sq ft)	0.27	0.85	
0.39					
Alpha	1.95	Stream Power (lb/ft s)	0.54	6.19	
0.69					
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.47	0.18	
0.19					
C & E Loss (ft)	0.01	Cum SA (acres)	0.46	0.05	
0.37					

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 13.5*

INPUT

Description:

Station Elevation Data		num= 44									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.81	.96	4807.03	1.16	4806.94	24.91	4807.06	28.43	4807.04		
54.7	4807.41	63.55	4807.5	96.34	4807.87	104.22	4807.92	127.49	4808.25		
135.97	4806.8	136.18	4806.76	139.83	4805.79	141.15	4805.51	142.3	4805.42		
145.28	4805.26	145.74	4804.73	145.79	4804.69	146.62	4804.41	148.06	4804.32		
149.1	4804.35	149.68	4804.4	150.41	4804.53	150.69	4804.59	151.52	4804.62		
152.1	4804.76	152.38	4804.87	153.63	4805.66	157.62	4807.05	159.15	4807.8		
161.52	4808.24	170.15	4807.97	188.94	4807.86	199.96	4808.04	229.97	4807.64		
244.11	4807.7	269.84	4808.09	292.03	4808.41	300.13	4808.44	302.96	4808.61		
307.94	4809.15	315.11	4810.07	321.34	4810.69	327.6	4811.31				

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	139.83	.03	153.63	.075

low_littledominguez.rep

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	139.83	153.63		4.76	4.84	4.82	.1
Ineffective Flow			num=	2			
Sta L	Sta R	Elev	Permanent				
0	111.825		F				
160.8785	327.6		F				

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.030
W.S. Elev (ft)	4804.58	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.83
E.G. Slope (ft/ft)	0.014019	Area (sq ft)		0.83
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.55	Top Width (ft)		4.55
Vel Total (ft/s)	1.87	Avg. Vel. (ft/s)		1.87
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.18
Conv. Total (cfs)	13.2	Conv. (cfs)		13.2
Length Wtd. (ft)	4.84	Wetted Per. (ft)		4.61
Min Ch El (ft)	4804.32	Shear (lb/sq ft)		0.16
Alpha	1.00	Stream Power (lb/ft s)		0.30
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.32	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.	0.050	0.030
0.075				
W.S. Elev (ft)	4806.03	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.11	14.95
0.20				
E.G. Slope (ft/ft)	0.007304	Area (sq ft)	0.11	14.95
0.20				
Q Total (cfs)	65.00	Flow (cfs)	0.07	64.83
0.11				
Top Width (ft)	15.79	Top Width (ft)	0.92	13.80
1.07				
Vel Total (ft/s)	4.26	Avg. Vel. (ft/s)	0.61	4.34
0.53				

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Max Chl Dpth (ft)	1.71	Hydr. Depth (ft)	0.12 1.08
0.19			
Conv. Total (cfs)	760.6	Conv. (cfs)	0.8 758.5
1.2			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	0.95 14.43
1.13			
Min Ch El (ft)	4804.32	Shear (lb/sq ft)	0.05 0.47
0.08			
Alpha	1.03	Stream Power (lb/ft s)	0.03 2.05
0.04			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00 0.04
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.04
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.70	Wt. n-Val.	0.050	0.030
0.075				
W.S. Elev (ft)	4806.98	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4806.85	Flow Area (sq ft)	2.73	28.07
2.51				
E.G. Slope (ft/ft)	0.007858	Area (sq ft)	2.92	28.07
2.51				
Q Total (cfs)	200.00	Flow (cfs)	4.75	192.03
3.23				
Top Width (ft)	31.22	Top Width (ft)	13.62	13.80
3.80				
Vel Total (ft/s)	6.00	Avg. Vel. (ft/s)	1.74	6.84
1.28				
Max Chl Dpth (ft)	2.66	Hydr. Depth (ft)	0.55	2.03
0.66				
Conv. Total (cfs)	2256.2	Conv. (cfs)	53.5	2166.2
36.4				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.08	14.43
4.02				
Min Ch El (ft)	4804.32	Shear (lb/sq ft)	0.26	0.95
0.31				
Alpha	1.25	Stream Power (lb/ft s)	0.46	6.53
0.39				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.09
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.07	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.80	Wt. n-Val.	0.050	0.030
0.075				
W.S. Elev (ft)	4807.27	Reach Len. (ft)	4.76	4.84

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4.82				
Crit W.S. (ft)	4807.13	Flow Area (sq ft)	4.37	32.00
3.69				
E.G. Slope (ft/ft)	0.007674	Area (sq ft)	13.41	32.00
3.69				
Q Total (cfs)	250.00	Flow (cfs)	8.49	236.07
5.44				
Top Width (ft)	68.57	Top Width (ft)	50.34	13.80
4.44				
Vel Total (ft/s)	6.24	Avg. Vel. (ft/s)	1.94	7.38
1.47				
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.66	2.32
0.83				
Conv. Total (cfs)	2853.8	Conv. (cfs)	97.0	2694.8
62.1				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.77	14.43
4.72				
Min Ch El (ft)	4804.32	Shear (lb/sq ft)	0.31	1.06
0.37				
Alpha	1.32	Stream Power (lb/ft s)	0.60	7.84
0.55				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.10
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.06	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.73	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.97	Wt. n-Val.	0.050	0.030
0.075				
W.S. Elev (ft)	4807.76	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	8.35	38.83
6.14				
E.G. Slope (ft/ft)	0.007392	Area (sq ft)	49.17	38.83
8.15				
Q Total (cfs)	350.00	Flow (cfs)	19.31	319.89
10.80				
Top Width (ft)	142.43	Top Width (ft)	95.65	13.80
32.98				
Vel Total (ft/s)	6.56	Avg. Vel. (ft/s)	2.31	8.24
1.76				
Max Chl Dpth (ft)	3.44	Hydr. Depth (ft)	0.88	2.81
1.13				
Conv. Total (cfs)	4070.9	Conv. (cfs)	224.6	3720.7
125.6				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	9.71	14.43
5.85				
Min Ch El (ft)	4804.32	Shear (lb/sq ft)	0.40	1.24
0.48				
Alpha	1.45	Stream Power (lb/ft s)	0.92	10.23
0.85				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.12	0.13
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.25	0.05
0.06				

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Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

		Element	Left OB	Channel
E.G. Elev (ft)	4809.60			
Right OB				
Vel Head (ft)	0.72	Wt. n-Val.	0.050	0.030
0.075				
W.S. Elev (ft)	4808.88	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	33.05	54.24
13.89				
E.G. Slope (ft/ft)	0.003913	Area (sq ft)	195.01	54.24
142.05				
Q Total (cfs)	500.00	Flow (cfs)	68.19	406.27
25.54				
Top Width (ft)	305.13	Top Width (ft)	139.51	13.80
151.82				
Vel Total (ft/s)	4.94	Avg. Vel. (ft/s)	2.06	7.49
1.84				
Max Chl Dpth (ft)	4.56	Hydr. Depth (ft)	1.18	3.93
1.92				
Conv. Total (cfs)	7993.0	Conv. (cfs)	1090.1	6494.7
408.2				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	28.26	14.43
7.69				
Min Ch El (ft)	4804.32	Shear (lb/sq ft)	0.29	0.92
0.44				
Alpha	1.90	Stream Power (lb/ft s)	0.59	6.88
0.81				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.44	0.17
0.18				
C & E Loss (ft)	0.03	Cum SA (acres)	0.45	0.05
0.35				

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 13.375*

INPUT

Description:

Station	Elevation	Data	num=	44							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.8	.97	4806.92	1.17	4806.85	25.2	4806.9	28.76	4806.88		
55.33	4807.28	64.28	4807.38	97.45	4807.83	105.43	4807.91	128.97	4808.27		
137.54	4806.71	137.76	4806.66	141.45	4805.71	142.81	4805.49	143.99	4805.41		
147.04	4805.26	147.52	4804.69	147.56	4804.63	148.42	4804.34	149.9	4804.25		
150.88	4804.29	151.42	4804.33	152.11	4804.44	152.37	4804.48	153.15	4804.53		
153.69	4804.67	153.96	4804.78	155.13	4805.58	159.09	4806.9	160.61	4807.57		
162.97	4808.08	171.54	4807.85	190.21	4807.73	201.16	4807.85	230.98	4807.49		
245.02	4807.59	270.59	4807.99	292.64	4808.32	300.69	4808.33	303.5	4808.46		
308.44	4808.95	315.57	4809.8	321.76	4810.35	327.98	4810.9				

Manning's n Values

Sta n Val

Sta

num=

n Val

3

Sta n Val

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0 .05 141.45 .029 155.13 .076
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
141.45 155.13 4.76 4.84 4.82 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0117.2187 F
162.4864 327.98 F

CROSS SECTION OUTPUT Profile #PF 1

		Element	Left OB	Channel
E.G. Elev (ft)	4804.57			
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.029
W.S. Elev (ft)	4804.52	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.86
E.G. Slope (ft/ft)	0.013593	Area (sq ft)		0.86
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.11	Top Width (ft)		5.11
Vel Total (ft/s)	1.81	Avg. Vel. (ft/s)		1.81
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	13.4	Conv. (cfs)		13.4
Length Wtd. (ft)	4.84	Wetted Per. (ft)		5.16
Min Ch El (ft)	4804.25	Shear (lb/sq ft)		0.14
Alpha	1.00	Stream Power (lb/ft s)		0.26
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 2

		Element	Left OB	Channel
E.G. Elev (ft)	4806.28			
Right OB				
Vel Head (ft)	0.30	Wt. n-Val.	0.050	0.029
0.076				
W.S. Elev (ft)	4805.98	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	0.15	14.71
0.24				
E.G. Slope (ft/ft)	0.007140	Area (sq ft)	0.15	14.71
0.24				
Q Total (cfs)	65.00	Flow (cfs)	0.09	64.77
0.13				
Top Width (ft)	15.95	Top Width (ft)	1.06	13.68
1.21				
Vel Total (ft/s)	4.30	Avg. Vel. (ft/s)	0.65	4.40

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0.55				
Max Chl Dpth (ft)	1.73	Hydr. Depth (ft)	0.14	1.08
0.20				
Conv. Total (cfs)	769.3	Conv. (cfs)	1.1	766.5
1.6				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	1.10	14.35
1.28				
Min Ch El (ft)	4804.25	Shear (lb/sq ft)	0.06	0.46
0.09				
Alpha	1.04	Stream Power (lb/ft s)	0.04	2.01
0.05				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.04
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.72	Wt. n-Val.	0.050	0.029
0.076				
W.S. Elev (ft)	4806.92	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4806.81	Flow Area (sq ft)	2.86	27.47
2.68				
E.G. Slope (ft/ft)	0.007790	Area (sq ft)	3.99	27.47
2.68				
Q Total (cfs)	200.00	Flow (cfs)	5.06	191.53
3.41				
Top Width (ft)	52.90	Top Width (ft)	35.22	13.68
4.00				
Vel Total (ft/s)	6.06	Avg. Vel. (ft/s)	1.77	6.97
1.28				
Max Chl Dpth (ft)	2.67	Hydr. Depth (ft)	0.57	2.01
0.67				
Conv. Total (cfs)	2266.0	Conv. (cfs)	57.3	2170.0
38.7				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.19	14.35
4.21				
Min Ch El (ft)	4804.25	Shear (lb/sq ft)	0.27	0.93
0.31				
Alpha	1.27	Stream Power (lb/ft s)	0.47	6.49
0.39				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.08
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.05
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4808.03	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.83	Wt. n-Val.	0.050	0.029
0.076				

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W.S. Elev (ft)	4807.20	Reach Len. (ft)	4.76 4.84
4.82			
Crit W.S. (ft)	4807.10	Flow Area (sq ft)	4.53 31.37
3.91			
E.G. Slope (ft/ft)	0.007557	Area (sq ft)	16.98 31.37
3.91			
Q Total (cfs)	250.00	Flow (cfs)	8.93 235.37
5.70			
Top Width (ft)	74.16	Top Width (ft)	55.84 13.68
4.64			
Vel Total (ft/s)	6.28	Avg. Vel. (ft/s)	1.97 7.50
1.46			
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.68 2.29
0.84			
Conv. Total (cfs)	2875.8	Conv. (cfs)	102.7 2707.5
65.6			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.78 14.35
4.92			
Min Ch El (ft)	4804.25	Shear (lb/sq ft)	0.32 1.03
0.37			
Alpha	1.35	Stream Power (lb/ft s)	0.62 7.74
0.55			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02 0.10
0.01			
C & E Loss (ft)	0.00	Cum SA (acres)	0.06 0.05
0.01			

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.69	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.00	Wt. n-Val.	0.050	0.029
0.076				
W.S. Elev (ft)	4807.69	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.62	Flow Area (sq ft)	8.44	38.10
6.48				
E.G. Slope (ft/ft)	0.007282	Area (sq ft)	54.36	38.10
10.67				
Q Total (cfs)	350.00	Flow (cfs)	19.74	319.36
10.89				
Top Width (ft)	153.08	Top Width (ft)	95.94	13.68
43.46				
Vel Total (ft/s)	6.60	Avg. Vel. (ft/s)	2.34	8.38
1.68				
Max Chl Dpth (ft)	3.44	Hydr. Depth (ft)	0.91	2.79
1.07				
Conv. Total (cfs)	4101.5	Conv. (cfs)	231.4	3742.5
127.7				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	9.52	14.35
6.42				
Min Ch El (ft)	4804.25	Shear (lb/sq ft)	0.40	1.21
0.46				
Alpha	1.48	Stream Power (lb/ft s)	0.94	10.11
0.77				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.11	0.13
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.24	0.05

0.06

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

		Element	Left OB	Channel
E.G. Elev (ft)	4809.54			
Right OB				
Vel Head (ft)	1.03	Wt. n-Val.	0.050	0.029
0.076				
W.S. Elev (ft)	4808.51	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4808.51	Flow Area (sq ft)	21.68	49.32
12.33				
E.G. Slope (ft/ft)	0.005608	Area (sq ft)	157.55	49.32
105.74				
Q Total (cfs)	500.00	Flow (cfs)	44.45	430.94
24.61				
Top Width (ft)	303.60	Top Width (ft)	141.02	13.68
148.91				
Vel Total (ft/s)	6.00	Avg. Vel. (ft/s)	2.05	8.74
1.99				
Max Chl Dpth (ft)	4.26	Hydr. Depth (ft)	0.89	3.61
1.68				
Conv. Total (cfs)	6676.9	Conv. (cfs)	593.6	5754.6
328.6				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	24.50	14.35
7.76				
Min Ch El (ft)	4804.25	Shear (lb/sq ft)	0.31	1.20
0.56				
Alpha	1.84	Stream Power (lb/ft s)	0.64	10.51
1.11				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.43	0.17
0.16				
C & E Loss (ft)	0.02	Cum SA (acres)	0.43	0.05
0.33				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 13.25*

INPUT

Description:

Station	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.78	.98	4806.8	1.19	4806.76	25.49	4806.74	29.09	4806.71

num= 44

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55.97	4807.14	65.02	4807.27	98.57	4807.79	106.64	4807.9	130.45	4808.3
139.12	4806.62	139.34	4806.57	143.07	4805.64	144.46	4805.47	145.67	4805.4
148.81	4805.25	149.3	4804.64	149.34	4804.58	150.22	4804.27	151.74	4804.19
152.66	4804.23	153.16	4804.27	153.8	4804.35	154.05	4804.38	154.77	4804.43
155.29	4804.59	155.53	4804.69	156.63	4805.49	160.57	4806.76	162.08	4807.35
164.41	4807.91	172.93	4807.74	191.48	4807.61	202.36	4807.66	231.99	4807.34
245.94	4807.48	271.34	4807.88	293.24	4808.22	301.25	4808.23	304.03	4808.32
308.95	4808.75	316.03	4809.54	322.18	4810.01	328.36	4810.49		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	143.07	.029	156.63	.078

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	143.07	156.63		4.76	4.84		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0122.6125			F
164.0943	328.36		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.029
W.S. Elev (ft)	4804.45	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.85
E.G. Slope (ft/ft)	0.014463	Area (sq ft)		0.85
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.13	Top Width (ft)		5.13
Vel Total (ft/s)	1.84	Avg. Vel. (ft/s)		1.84
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	13.0	Conv. (cfs)		13.0
Length Wtd. (ft)	4.84	Wetted Per. (ft)		5.17
Min Ch El (ft)	4804.19	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.27
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.24	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.31	Wt. n-Val.	0.050	0.029
0.078				

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W.S. Elev (ft)	4805.93	Reach Len. (ft)	4.76 4.84
4.82			
Crit W.S. (ft)		Flow Area (sq ft)	0.17 14.37
0.30			
E.G. Slope (ft/ft)	0.007647	Area (sq ft)	0.17 14.37
0.30			
Q Total (cfs)	65.00	Flow (cfs)	0.12 64.71
0.18			
Top Width (ft)	16.08	Top Width (ft)	1.16 13.56
1.36			
Vel Total (ft/s)	4.38	Avg. Vel. (ft/s)	0.70 4.50
0.59			
Max Chl Dpth (ft)	1.74	Hydr. Depth (ft)	0.14 1.06
0.22			
Conv. Total (cfs)	743.3	Conv. (cfs)	1.3 740.0
2.0			
Length Wtd. (ft)	4.84	Wetted Per. (ft)	1.20 14.27
1.43			
Min Ch El (ft)	4804.19	Shear (lb/sq ft)	0.07 0.48
0.10			
Alpha	1.05	Stream Power (lb/ft s)	0.05 2.16
0.06			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.04
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.04
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.74	Wt. n-Val.	0.050	0.029
0.078				
W.S. Elev (ft)	4806.86	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	3.00	26.94
2.89				
E.G. Slope (ft/ft)	0.008182	Area (sq ft)	6.73	26.94
2.89				
Q Total (cfs)	200.00	Flow (cfs)	5.52	190.72
3.76				
Top Width (ft)	60.16	Top Width (ft)	42.42	13.56
4.19				
Vel Total (ft/s)	6.09	Avg. Vel. (ft/s)	1.84	7.08
1.30				
Max Chl Dpth (ft)	2.67	Hydr. Depth (ft)	0.58	1.99
0.69				
Conv. Total (cfs)	2211.0	Conv. (cfs)	61.0	2108.4
41.6				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.31	14.27
4.40				
Min Ch El (ft)	4804.19	Shear (lb/sq ft)	0.29	0.96
0.34				
Alpha	1.29	Stream Power (lb/ft s)	0.53	6.83
0.44				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.08
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.04
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.99	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.84	Wt. n-Val.	0.050	0.029
0.078				
W.S. Elev (ft)	4807.14	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	4.70	30.84
4.20				
E.G. Slope (ft/ft)	0.007860	Area (sq ft)	21.74	30.84
4.20				
Q Total (cfs)	250.00	Flow (cfs)	9.67	234.17
6.16				
Top Width (ft)	80.47	Top Width (ft)	61.99	13.56
4.92				
Vel Total (ft/s)	6.29	Avg. Vel. (ft/s)	2.06	7.59
1.47				
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.71	2.27
0.85				
Conv. Total (cfs)	2819.8	Conv. (cfs)	109.0	2641.3
69.5				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.82	14.27
5.19				
Min Ch El (ft)	4804.19	Shear (lb/sq ft)	0.34	1.06
0.40				
Alpha	1.37	Stream Power (lb/ft s)	0.70	8.05
0.58				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.10
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.05	0.04
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.65	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.01	Wt. n-Val.	0.050	0.029
0.078				
W.S. Elev (ft)	4807.64	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.59	Flow Area (sq ft)	8.62	37.55
7.02				
E.G. Slope (ft/ft)	0.007498	Area (sq ft)	61.25	37.55
15.26				
Q Total (cfs)	350.00	Flow (cfs)	20.92	317.49
11.60				
Top Width (ft)	179.23	Top Width (ft)	97.27	13.56
68.40				
Vel Total (ft/s)	6.58	Avg. Vel. (ft/s)	2.43	8.46
1.65				
Max Chl Dpth (ft)	3.45	Hydr. Depth (ft)	0.94	2.77
1.06				

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Conv. Total (cfs)	4042.0	Conv. (cfs)	241.6 3666.5
133.9			
Length Wtd. (ft)	4.83	Wetted Per. (ft)	9.42 14.27
6.99			
Min Ch El (ft)	4804.19	Shear (lb/sq ft)	0.43 1.23
0.47			
Alpha	1.51	Stream Power (lb/ft s)	1.04 10.41
0.78			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.11 0.13
0.03			
C & E Loss (ft)	0.00	Cum SA (acres)	0.23 0.04
0.05			

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.46	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.21	Wt. n-Val.	0.050	0.029
0.078				
W.S. Elev (ft)	4808.25	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4808.30	Flow Area (sq ft)	15.40	45.83
11.49				
E.G. Slope (ft/ft)	0.007166	Area (sq ft)	133.83	45.83
85.46				
Q Total (cfs)	500.00	Flow (cfs)	43.36	432.70
23.94				
Top Width (ft)	298.05	Top Width (ft)	139.28	13.56
145.21				
Vel Total (ft/s)	6.87	Avg. Vel. (ft/s)	2.81	9.44
2.08				
Max Chl Dpth (ft)	4.06	Hydr. Depth (ft)	0.90	3.38
1.54				
Conv. Total (cfs)	5906.4	Conv. (cfs)	512.2	5111.4
282.8				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	17.45	14.27
7.83				
Min Ch El (ft)	4804.19	Shear (lb/sq ft)	0.39	1.44
0.66				
Alpha	1.65	Stream Power (lb/ft s)	1.11	13.57
1.37				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.41	0.16
0.15				
C & E Loss (ft)	0.00	Cum SA (acres)	0.41	0.04
0.32				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 13.125*

INPUT
 Description:

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Station Elevation Data		num= 44		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.77	.99	4806.69	1.2	4806.67	25.78	4806.57	29.42	4806.55		
56.6	4807.01	65.75	4807.16	99.68	4807.76	107.84	4807.89	131.92	4808.33		
140.69	4806.53	140.91	4806.48	144.69	4805.56	146.12	4805.44	147.36	4805.38		
150.57	4805.25	151.08	4804.59	151.12	4804.53	152.02	4804.21	153.58	4804.12		
154.43	4804.17	154.9	4804.2	155.5	4804.26	155.73	4804.28	156.4	4804.33		
156.88	4804.5	157.11	4804.59	158.13	4805.41	162.04	4806.61	163.54	4807.12		
165.86	4807.74	174.32	4807.62	192.75	4807.49	203.56	4807.47	232.99	4807.19		
246.86	4807.38	272.09	4807.78	293.85	4808.12	301.8	4808.13	304.57	4808.17		
309.45	4808.55	316.49	4809.27	322.6	4809.67	328.74	4810.08				

Manning's n Values		num= 3		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	144.69	.028	158.13	.079

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	144.69	158.13		4.76	4.84		.1	.3
Ineffective Flow	num= 2							
Sta L	Sta R	Elev	Permanent					
0128.0062			F					
165.7021	328.74		F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.43	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.06	Wt. n-Val.		0.028
W.S. Elev (ft)	4804.38	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)		0.82
E.G. Slope (ft/ft)	0.014335	Area (sq ft)		0.82
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.98	Top Width (ft)		4.98
Vel Total (ft/s)	1.90	Avg. Vel. (ft/s)		1.90
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.16
Conv. Total (cfs)	13.0	Conv. (cfs)		13.0
Length Wtd. (ft)	4.84	Wetted Per. (ft)		5.03
Min Ch El (ft)	4804.12	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.28
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.20	Element	Left OB	Channel
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Right OB				
Vel Head (ft)	0.33	Wt. n-Val.	0.050	0.028
0.079				
W.S. Elev (ft)	4805.87	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4805.73	Flow Area (sq ft)	0.19	13.92
0.34				
E.G. Slope (ft/ft)	0.007871	Area (sq ft)	0.19	13.92
0.34				
Q Total (cfs)	65.00	Flow (cfs)	0.14	64.65
0.20				
Top Width (ft)	16.18	Top Width (ft)	1.26	13.44
1.48				
Vel Total (ft/s)	4.50	Avg. Vel. (ft/s)	0.74	4.64
0.60				
Max Chl Dpth (ft)	1.75	Hydr. Depth (ft)	0.15	1.04
0.23				
Conv. Total (cfs)	732.7	Conv. (cfs)	1.6	728.8
2.3				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	1.29	14.21
1.55				
Min Ch El (ft)	4804.12	Shear (lb/sq ft)	0.07	0.48
0.11				
Alpha	1.06	Stream Power (lb/ft s)	0.05	2.24
0.06				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.04
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.56	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.050	0.028
0.079				
W.S. Elev (ft)	4806.78	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4806.76	Flow Area (sq ft)	3.09	26.23
3.06				
E.G. Slope (ft/ft)	0.008245	Area (sq ft)	9.49	26.23
3.06				
Q Total (cfs)	200.00	Flow (cfs)	5.78	190.24
3.97				
Top Width (ft)	65.25	Top Width (ft)	47.39	13.44
4.42				
Vel Total (ft/s)	6.18	Avg. Vel. (ft/s)	1.87	7.25
1.30				
Max Chl Dpth (ft)	2.66	Hydr. Depth (ft)	0.59	1.95
0.69				
Conv. Total (cfs)	2202.6	Conv. (cfs)	63.7	2095.1
43.7				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	5.37	14.21
4.62				
Min Ch El (ft)	4804.12	Shear (lb/sq ft)	0.30	0.95
0.34				
Alpha	1.32	Stream Power (lb/ft s)	0.55	6.89
0.44				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.08
0.00				

C & E Loss (ft)	low_littledominguez.rep		
0.01	0.00 Cum SA (acres)	0.02	0.04

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.95	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.87	Wt. n-Val.	0.050	0.028
0.079				
W.S. Elev (ft)	4807.07	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	4.82	30.13
4.47				
E.G. Slope (ft/ft)	0.007827	Area (sq ft)	25.95	30.13
4.47				
Q Total (cfs)	250.00	Flow (cfs)	10.05	233.50
6.45				
Top Width (ft)	84.85	Top Width (ft)	66.15	13.44
5.27				
Vel Total (ft/s)	6.34	Avg. Vel. (ft/s)	2.09	7.75
1.44				
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.73	2.24
0.85				
Conv. Total (cfs)	2825.8	Conv. (cfs)	113.6	2639.4
72.9				
Length Wtd. (ft)	4.84	Wetted Per. (ft)	6.81	14.21
5.52				
Min Ch El (ft)	4804.12	Shear (lb/sq ft)	0.35	1.04
0.39				
Alpha	1.40	Stream Power (lb/ft s)	0.72	8.03
0.57				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.09
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.05	0.04
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.61	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.04	Wt. n-Val.	0.050	0.028
0.079				
W.S. Elev (ft)	4807.57	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)	4807.54	Flow Area (sq ft)	8.71	36.80
7.52				
E.G. Slope (ft/ft)	0.007376	Area (sq ft)	66.58	36.80
20.97				
Q Total (cfs)	350.00	Flow (cfs)	21.33	316.40
12.28				
Top Width (ft)	194.81	Top Width (ft)	97.20	13.44
84.17				
Vel Total (ft/s)	6.60	Avg. Vel. (ft/s)	2.45	8.60

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1.63				
Max Chl Dpth (ft)	3.45	Hydr. Depth (ft)	0.96	2.74
1.06				
Conv. Total (cfs)	4075.4	Conv. (cfs)	248.3	3684.1
143.0				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	9.28	14.21
7.41				
Min Ch El (ft)	4804.12	Shear (lb/sq ft)	0.43	1.19
0.47				
Alpha	1.54	Stream Power (lb/ft s)	1.06	10.26
0.76				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.10	0.12
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.22	0.04
0.04				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.42	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.25	Wt. n-Val.	0.050	0.028
0.079				
W.S. Elev (ft)	4808.18	Reach Len. (ft)	4.76	4.84
4.82				
Crit W.S. (ft)		Flow Area (sq ft)	15.15	45.01
12.11				
E.G. Slope (ft/ft)	0.007011	Area (sq ft)	137.61	45.01
93.41				
Q Total (cfs)	500.00	Flow (cfs)	43.28	431.37
25.34				
Top Width (ft)	295.15	Top Width (ft)	135.16	13.44
146.55				
Vel Total (ft/s)	6.92	Avg. Vel. (ft/s)	2.86	9.58
2.09				
Max Chl Dpth (ft)	4.06	Hydr. Depth (ft)	1.26	3.35
1.60				
Conv. Total (cfs)	5971.6	Conv. (cfs)	516.9	5152.0
302.7				
Length Wtd. (ft)	4.83	Wetted Per. (ft)	12.32	14.21
7.91				
Min Ch El (ft)	4804.12	Shear (lb/sq ft)	0.54	1.39
0.67				
Alpha	1.68	Stream Power (lb/ft s)	1.54	13.29
1.40				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.39	0.16
0.14				
C & E Loss (ft)	0.01	Cum SA (acres)	0.40	0.04
0.30				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
REACH: C

RS: 13

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INPUT

Description: cross section X

Station Elevation Data num= 23

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.75	1	4806.58	29.75	4806.386	66.49	4807.042	133.44	4808.356
142.26	4806.438	146.30	4805.483	152.33	4805.24	152.90	4804.481	153.82	4804.139
155.42	4804.061	157.19	4804.165	158.03	4804.236	158.68	4804.504	159.62	4805.325
167.31	4807.576	234	4807.042	294.46	4808.026	305.11	4808.026	309.96	4808.354
316.95	4809.01	323.02	4809.338	329.12	4809.67				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	146.30	.028	159.62	.08

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

146.30	159.62	4.9	4.61	5.04	.1	.3
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Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	133.4		F
167.31	329.12		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.05	Wt. n-Val.		0.028
W.S. Elev (ft)	4804.32	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)		Flow Area (sq ft)		0.86
E.G. Slope (ft/ft)	0.011974	Area (sq ft)		0.86
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.89	Top Width (ft)		4.89
Vel Total (ft/s)	1.81	Avg. Vel. (ft/s)		1.81
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.18
Conv. Total (cfs)	14.2	Conv. (cfs)		14.2
Length Wtd. (ft)	4.61	Wetted Per. (ft)		4.95
Min Ch El (ft)	4804.06	Shear (lb/sq ft)		0.13
Alpha	1.00	Stream Power (lb/ft s)		0.24
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.15	Element	Left OB	Channel
Right OB				

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Vel Head (ft)	0.43	Wt. n-Val.	0.050 0.028
0.080			
W.S. Elev (ft)	4805.72	Reach Len. (ft)	4.90 4.61
5.04			
Crit W.S. (ft)	4805.72	Flow Area (sq ft)	0.12 12.30
0.27			
E.G. Slope (ft/ft)	0.011841	Area (sq ft)	0.12 12.30
0.27			
Q Total (cfs)	65.00	Flow (cfs)	0.09 64.73
0.18			
Top Width (ft)	15.67	Top Width (ft)	1.00 13.32
1.35			
Vel Total (ft/s)	5.12	Avg. Vel. (ft/s)	0.77 5.26
0.67			
Max Chl Dpth (ft)	1.66	Hydr. Depth (ft)	0.12 0.92
0.20			
Conv. Total (cfs)	597.3	Conv. (cfs)	0.8 594.9
1.6			
Length Wtd. (ft)	4.61	Wetted Per. (ft)	1.03 14.14
1.41			
Min Ch El (ft)	4804.06	Shear (lb/sq ft)	0.09 0.64
0.14			
Alpha	1.05	Stream Power (lb/ft s)	0.07 3.38
0.09			
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.00 0.04
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.04
0.00			

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.52	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.81	Wt. n-Val.	0.050	0.028
0.080				
W.S. Elev (ft)	4806.72	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.72	Flow Area (sq ft)	3.23	25.56
3.30				
E.G. Slope (ft/ft)	0.008843	Area (sq ft)	12.94	25.56
3.30				
Q Total (cfs)	200.00	Flow (cfs)	6.35	189.25
4.40				
Top Width (ft)	70.62	Top Width (ft)	52.55	13.32
4.75				
Vel Total (ft/s)	6.23	Avg. Vel. (ft/s)	1.97	7.41
1.33				
Max Chl Dpth (ft)	2.65	Hydr. Depth (ft)	0.61	1.92
0.70				
Conv. Total (cfs)	2126.8	Conv. (cfs)	67.5	2012.5

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46.8				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	5.46	14.14
4.94				
Min Ch El (ft)	4804.06	Shear (lb/sq ft)	0.33	1.00
0.37				
Alpha	1.34	Stream Power (lb/ft s)	0.64	7.39
0.49				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.08
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.04
0.01				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.91	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.89	Wt. n-Val.	0.050	0.028
0.080				
W.S. Elev (ft)	4807.01	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.01	Flow Area (sq ft)	5.01	29.50
4.85				
E.G. Slope (ft/ft)	0.008230	Area (sq ft)	31.19	29.50
4.85				
Q Total (cfs)	250.00	Flow (cfs)	10.94	231.96
7.10				
Top Width (ft)	89.70	Top Width (ft)	70.62	13.32
5.76				
Vel Total (ft/s)	6.35	Avg. Vel. (ft/s)	2.18	7.86
1.46				
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.75	2.21
0.84				
Conv. Total (cfs)	2755.8	Conv. (cfs)	120.5	2557.0
78.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	6.86	14.14
6.00				
Min Ch El (ft)	4804.06	Shear (lb/sq ft)	0.37	1.07
0.42				
Alpha	1.43	Stream Power (lb/ft s)	0.82	8.43
0.61				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.09
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.04
0.01				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water

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surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.57	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.05	Wt. n-Val.	0.050	0.028
0.080				
W.S. Elev (ft)	4807.52	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.52	Flow Area (sq ft)	8.99	36.26
8.21				
E.G. Slope (ft/ft)	0.007563	Area (sq ft)	74.24	36.26
29.37				
Q Total (cfs)	350.00	Flow (cfs)	22.78	313.49
13.72				
Top Width (ft)	208.68	Top Width (ft)	99.09	13.32
96.27				
Vel Total (ft/s)	6.55	Avg. Vel. (ft/s)	2.53	8.65
1.67				
Max Chl Dpth (ft)	3.46	Hydr. Depth (ft)	1.00	2.72
1.10				
Conv. Total (cfs)	4024.6	Conv. (cfs)	262.0	3604.8
157.8				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	9.26	14.14
7.80				
Min Ch El (ft)	4804.06	Shear (lb/sq ft)	0.46	1.21
0.50				
Alpha	1.57	Stream Power (lb/ft s)	1.16	10.47
0.83				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.09	0.12
0.02				
C & E Loss (ft)	0.01	Cum SA (acres)	0.21	0.04
0.03				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water

surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.20	Wt. n-Val.	0.050	0.028
0.080				

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W.S. Elev (ft)	4808.17	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4808.17	Flow Area (sq ft)	15.84	44.92
13.20				
E.G. Slope (ft/ft)	0.006829	Area (sq ft)	150.50	44.92
110.62				
Q Total (cfs)	500.00	Flow (cfs)	45.97	425.74
28.29				
Top Width (ft)	296.34	Top Width (ft)	135.42	13.32
147.60				
Vel Total (ft/s)	6.76	Avg. Vel. (ft/s)	2.90	9.48
2.14				
Max Chl Dpth (ft)	4.11	Hydr. Depth (ft)	1.32	3.37
1.72				
Conv. Total (cfs)	6050.6	Conv. (cfs)	556.3	5152.0
342.3				
Length Wtd. (ft)	4.65	Wetted Per. (ft)	12.34	14.14
8.01				
Min Ch El (ft)	4804.06	Shear (lb/sq ft)	0.55	1.35
0.70				
Alpha	1.70	Stream Power (lb/ft s)	1.59	12.84
1.51				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.38	0.15
0.13				
C & E Loss (ft)	0.00	Cum SA (acres)	0.38	0.04
0.28				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 12.8571*

INPUT

Description:

Station Elevation Data		num= 46									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.57	.99	4806.48	1.04	4806.46	29.55	4806.34	59.46	4806.85		
66.05	4806.98	79.1	4807.26	117.36	4807.91	132.52	4808.26	140.18	4806.88		
141.33	4806.59	145.34	4805.49	147.5	4805.29	151.5	4805.16	152.08	4804.51		
152.52	4804.38	153.02	4804.18	153.66	4804.1	154.65	4803.95	155.42	4804		
155.81	4804.05	156.57	4804.12	156.71	4804.13	157.08	4804.17	157.68	4804.22		
157.83	4804.27	158.44	4804.51	159.53	4805.32	161.74	4805.96	164.34	4806.82		
167.31	4807.51	173.68	4807.36	179.67	4807.42	220.35	4807.23	234.77	4807.14		
241.1	4807.22	295.92	4807.9	302.25	4807.89	306.7	4807.98	311.06	4808.32		
311.6	4808.36	318.67	4808.99	320.46	4809.09	324.81	4809.32	327.27	4809.45		
330.98	4809.67										

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val

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0 .05 145.34 .028 159.53 .076

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	145.34	159.53		4.9	4.61		.1	.3
Ineffective Flow		num=	2					
Sta L	Sta R	Elev	Permanent					
0133.5728			F					
166.8543	330.98		F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.06	Wt. n-Val.		0.028
W.S. Elev (ft)	4804.25	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)		Flow Area (sq ft)		0.81
E.G. Slope (ft/ft)	0.014618	Area (sq ft)		0.81
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.92	Top Width (ft)		4.92
Vel Total (ft/s)	1.92	Avg. Vel. (ft/s)		1.92
Max Chl Dpth (ft)	0.30	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	12.9	Conv. (cfs)		12.9
Length Wtd. (ft)	4.61	Wetted Per. (ft)		4.97
Min Ch El (ft)	4803.95	Shear (lb/sq ft)		0.15
Alpha	1.00	Stream Power (lb/ft s)		0.29
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4806.07	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.60	Wt. n-Val.		0.028
0.076				
W.S. Elev (ft)	4805.47	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4805.59	Flow Area (sq ft)		10.44
0.04				
E.G. Slope (ft/ft)	0.021561	Area (sq ft)		10.44
0.04				
Q Total (cfs)	65.00	Flow (cfs)		64.98
0.02				
Top Width (ft)	14.42	Top Width (ft)		13.92
0.50				
Vel Total (ft/s)	6.20	Avg. Vel. (ft/s)		6.22

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0.49				
Max Chl Dpth (ft)	1.52	Hydr. Depth (ft)		0.75
0.07				
Conv. Total (cfs)	442.7	Conv. (cfs)		442.5
0.1				
Length Wtd. (ft)	4.61	Wetted Per. (ft)		14.63
0.52				
Min Ch El (ft)	4803.95	Shear (lb/sq ft)		0.96
0.09				
Alpha	1.01	Stream Power (lb/ft s)		5.98
0.05				
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.00	0.04
0.00				

Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.44	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.11	Wt. n-Val.	0.050	0.028
0.076				
W.S. Elev (ft)	4806.33	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.57	Flow Area (sq ft)	1.30	22.76
1.74				
E.G. Slope (ft/ft)	0.014794	Area (sq ft)	1.30	22.76
1.74				
Q Total (cfs)	200.00	Flow (cfs)	2.57	194.82
2.61				
Top Width (ft)	20.60	Top Width (ft)	3.08	14.19
3.34				
Vel Total (ft/s)	7.75	Avg. Vel. (ft/s)	1.98	8.56
1.50				
Max Chl Dpth (ft)	2.38	Hydr. Depth (ft)	0.42	1.60
0.52				
Conv. Total (cfs)	1644.3	Conv. (cfs)	21.1	1601.7
21.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	3.19	14.90
3.49				
Min Ch El (ft)	4803.95	Shear (lb/sq ft)	0.38	1.41
0.46				
Alpha	1.19	Stream Power (lb/ft s)	0.75	12.08
0.69				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.01	0.07
0.00				
C & E Loss (ft)	0.03	Cum SA (acres)	0.01	0.04
0.01				

Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.83	Element	Left OB	Channel
Right OB				

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Vel Head (ft)	1.23	Wt. n-Val.	0.050	0.028
0.076				
W.S. Elev (ft)	4806.60	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.87	Flow Area (sq ft)	2.24	26.53
2.74				
E.G. Slope (ft/ft)	0.013494	Area (sq ft)	9.92	26.53
2.74				
Q Total (cfs)	250.00	Flow (cfs)	5.10	240.32
4.58				
Top Width (ft)	66.21	Top Width (ft)	47.87	14.19
4.14				
Vel Total (ft/s)	7.93	Avg. Vel. (ft/s)	2.27	9.06
1.67				
Max Chl Dpth (ft)	2.65	Hydr. Depth (ft)	0.55	1.87
0.66				
Conv. Total (cfs)	2152.1	Conv. (cfs)	43.9	2068.7
39.4				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	4.20	14.90
4.34				
Min Ch El (ft)	4803.95	Shear (lb/sq ft)	0.45	1.50
0.53				
Alpha	1.26	Stream Power (lb/ft s)	1.02	13.59
0.89				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.01	0.09
0.01				
C & E Loss (ft)	0.03	Cum SA (acres)	0.03	0.04
0.01				

Warning: Divided flow computed for this cross-section.

Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.49	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.40	Wt. n-Val.	0.050	0.028
0.076				
W.S. Elev (ft)	4807.09	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.32	Flow Area (sq ft)	4.74	33.50
5.18				
E.G. Slope (ft/ft)	0.011568	Area (sq ft)	40.77	33.50
5.18				
Q Total (cfs)	350.00	Flow (cfs)	12.25	328.11
9.64				
Top Width (ft)	96.90	Top Width (ft)	76.73	14.19
5.97				
Vel Total (ft/s)	8.06	Avg. Vel. (ft/s)	2.58	9.80
1.86				
Max Chl Dpth (ft)	3.14	Hydr. Depth (ft)	0.75	2.36
0.87				
Conv. Total (cfs)	3254.1	Conv. (cfs)	113.9	3050.6
89.6				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	6.53	14.90
6.23				
Min Ch El (ft)	4803.95	Shear (lb/sq ft)	0.52	1.62
0.60				
Alpha	1.39	Stream Power (lb/ft s)	1.35	15.90
1.12				

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Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.09 0.11
0.02			
C & E Loss (ft)	0.04	Cum SA (acres)	0.20 0.04
0.03			

Warning: Divided flow computed for this cross-section.
Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.30	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.58	Wt. n-Val.	0.050	0.028
0.076				
W.S. Elev (ft)	4807.72	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4808.03	Flow Area (sq ft)	9.85	42.46
9.60				
E.G. Slope (ft/ft)	0.009862	Area (sq ft)	100.98	42.46
50.98				
Q Total (cfs)	500.00	Flow (cfs)	28.58	449.69
21.73				
Top Width (ft)	251.72	Top Width (ft)	115.51	14.19
122.02				
Vel Total (ft/s)	8.08	Avg. Vel. (ft/s)	2.90	10.59
2.26				
Max Chl Dpth (ft)	3.77	Hydr. Depth (ft)	1.00	2.99
1.31				
Conv. Total (cfs)	5034.9	Conv. (cfs)	287.8	4528.3
218.8				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	10.09	14.90
7.62				
Min Ch El (ft)	4803.95	Shear (lb/sq ft)	0.60	1.75
0.78				
Alpha	1.56	Stream Power (lb/ft s)	1.74	18.58
1.76				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.36	0.15
0.12				
C & E Loss (ft)	0.04	Cum SA (acres)	0.37	0.04
0.27				

Warning: Divided flow computed for this cross-section.
Note: Program found supercritical flow starting at this cross section.

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 12.7142*

INPUT

Description:

Station	Elevation	Data	num=	46					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.39	.99	4806.37	1.03	4806.34	29.36	4806.29	59.07	4806.77
65.62	4806.92	78.58	4807.23	116.58	4807.77	131.65	4808.17	139.25	4807.08
140.4	4806.74	144.38	4805.49	146.58	4805.18	150.67	4805.08	151.25	4804.54
151.7	4804.43	152.21	4804.22	152.87	4804.09	153.88	4803.83	154.76	4803.9

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155.2	4803.98	156.07	4804.07	156.23	4804.09	156.65	4804.15	157.33	4804.2
157.5	4804.25	158.2	4804.52	159.44	4805.32	161.68	4805.96	164.31	4806.92
167.3	4807.44	173.75	4807.2	179.81	4807.35	220.95	4807.31	235.53	4807.23
241.94	4807.3	297.39	4807.76	303.79	4807.74	308.28	4807.93	312.7	4808.33
313.25	4808.36	320.4	4808.97	322.2	4809.08	326.61	4809.3	329.09	4809.43
332.85	4809.67								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	144.38	.029	159.44	.071

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 144.38 159.44 4.9 4.61 5.04 .1 .3

Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 0133.7457 F
 166.3986 332.85 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.24	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.06	Wt. n-Val.		0.029
W.S. Elev (ft)	4804.18	Reach Len. (ft)	4.90	4.61
5.04		Flow Area (sq ft)		0.78
Crit W.S. (ft)		Area (sq ft)		0.78
E.G. Slope (ft/ft)	0.015975	Flow (cfs)		1.56
Q Total (cfs)	1.56	Top Width (ft)		4.55
Top Width (ft)	4.55	Avg. Vel. (ft/s)		1.99
Vel Total (ft/s)	1.99	Hydr. Depth (ft)		0.17
Max Chl Dpth (ft)	0.34	Conv. (cfs)		12.3
Conv. Total (cfs)	12.3	Wetted Per. (ft)		4.61
Length Wtd. (ft)	4.61	Shear (lb/sq ft)		0.17
Min Ch El (ft)	4803.83	Stream Power (lb/ft s)		0.34
Alpha	1.00	Cum Volume (acre-ft)		0.00
Frctn Loss (ft)	0.08	Cum SA (acres)		0.01
C & E Loss (ft)	0.00			

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.61	Wt. n-Val.		0.029
0.000		Reach Len. (ft)	4.90	4.61
W.S. Elev (ft)	4805.35			
5.04				

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Crit W.S. (ft)	4805.50	Flow Area (sq ft)	10.36
0.00			
E.G. Slope (ft/ft)	0.023870	Area (sq ft)	10.36
0.00			
Q Total (cfs)	65.00	Flow (cfs)	65.00
0.00			
Top Width (ft)	14.13	Top Width (ft)	14.03
0.09			
Vel Total (ft/s)	6.27	Avg. Vel. (ft/s)	6.28
0.17			
Max Chl Dpth (ft)	1.52	Hydr. Depth (ft)	0.74
0.01			
Conv. Total (cfs)	420.7	Conv. (cfs)	420.7
0.0			
Length Wtd. (ft)	4.61	Wetted Per. (ft)	14.68
0.09			
Min Ch El (ft)	4803.83	Shear (lb/sq ft)	1.05
Alpha	1.00	Stream Power (lb/ft s)	6.60
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.00 0.03
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.04
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.36	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.24	Wt. n-Val.	0.050	0.029
0.071				
W.S. Elev (ft)	4806.12	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.46	Flow Area (sq ft)	0.63	21.92
1.11				
E.G. Slope (ft/ft)	0.019757	Area (sq ft)	0.63	21.92
1.11				
Q Total (cfs)	200.00	Flow (cfs)	1.17	197.07
1.75				
Top Width (ft)	19.73	Top Width (ft)	2.00	15.06
2.67				
Vel Total (ft/s)	8.46	Avg. Vel. (ft/s)	1.87	8.99
1.59				
Max Chl Dpth (ft)	2.29	Hydr. Depth (ft)	0.31	1.46
0.41				
Conv. Total (cfs)	1422.9	Conv. (cfs)	8.4	1402.1
12.5				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	2.10	15.71
2.79				
Min Ch El (ft)	4803.83	Shear (lb/sq ft)	0.37	1.72
0.49				
Alpha	1.11	Stream Power (lb/ft s)	0.69	15.47
0.78				
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.01	0.07
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 4

		Element	Left OB	Channel
E.G. Elev (ft)	4807.75			
Right OB				
Vel Head (ft)	1.39	Wt. n-Val.	0.050	0.029
0.071				
W.S. Elev (ft)	4806.36	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.73	Flow Area (sq ft)	1.19	25.48
1.82				
E.G. Slope (ft/ft)	0.018325	Area (sq ft)	2.46	25.48
1.82				
Q Total (cfs)	250.00	Flow (cfs)	2.65	244.01
3.33				
Top Width (ft)	53.51	Top Width (ft)	35.12	15.06
3.32				
Vel Total (ft/s)	8.78	Avg. Vel. (ft/s)	2.23	9.58
1.84				
Max Chl Dpth (ft)	2.52	Hydr. Depth (ft)	0.43	1.69
0.55				
Conv. Total (cfs)	1846.8	Conv. (cfs)	19.6	1802.6
24.6				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	2.89	15.71
3.48				
Min Ch El (ft)	4803.83	Shear (lb/sq ft)	0.47	1.86
0.60				
Alpha	1.16	Stream Power (lb/ft s)	1.05	17.77
1.09				
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.01	0.08
0.01				
C & E Loss (ft)	0.02	Cum SA (acres)	0.03	0.04
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

		Element	Left OB	Channel
E.G. Elev (ft)	4808.41			
Right OB				
Vel Head (ft)	1.60	Wt. n-Val.	0.050	0.029
0.071				
W.S. Elev (ft)	4806.81	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.13	Flow Area (sq ft)	2.77	32.33
3.61				
E.G. Slope (ft/ft)	0.015595	Area (sq ft)	25.17	32.33
3.61				
Q Total (cfs)	350.00	Flow (cfs)	7.54	334.67
7.79				
Top Width (ft)	83.79	Top Width (ft)	64.17	15.06
4.57				
Vel Total (ft/s)	9.04	Avg. Vel. (ft/s)	2.72	10.35
2.16				
Max Chl Dpth (ft)	2.98	Hydr. Depth (ft)	0.66	2.15
0.79				
Conv. Total (cfs)	2802.7	Conv. (cfs)	60.4	2680.0
62.4				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	4.42	15.71
4.81				

Min Ch El (ft)	4803.83	low_littledominguez.rep	Shear (lb/sq ft)	0.61	2.00
0.73					
Alpha	1.26		Stream Power (lb/ft s)	1.66	20.74
1.58					
Frctn Loss (ft)	0.06		Cum Volume (acre-ft)	0.08	0.11
0.02					
C & E Loss (ft)	0.02		Cum SA (acres)	0.19	0.04
0.03					

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.23	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.80	Wt. n-Val.	0.050	0.029
0.071				
W.S. Elev (ft)	4807.43	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.93	Flow Area (sq ft)	6.23	41.62
7.28				
E.G. Slope (ft/ft)	0.012939	Area (sq ft)	74.33	41.62
17.22				
Q Total (cfs)	500.00	Flow (cfs)	18.12	464.51
17.37				
Top Width (ft)	211.76	Top Width (ft)	99.33	15.06
97.37				
Vel Total (ft/s)	9.07	Avg. Vel. (ft/s)	2.91	11.16
2.39				
Max Chl Dpth (ft)	3.60	Hydr. Depth (ft)	0.83	2.76
1.05				
Conv. Total (cfs)	4395.6	Conv. (cfs)	159.3	4083.6
152.7				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	7.81	15.71
7.25				
Min Ch El (ft)	4803.83	Shear (lb/sq ft)	0.64	2.14
0.81				
Alpha	1.41	Stream Power (lb/ft s)	1.87	23.88
1.94				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.35	0.14
0.12				
C & E Loss (ft)	0.02	Cum SA (acres)	0.36	0.04
0.26				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 12.5714*

INPUT

Description:

Station	Elevation	Data	num=	46					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.21	.98	4806.27	1.03	4806.22	29.16	4806.24	58.67	4806.69
65.18	4806.86	78.05	4807.19	115.81	4807.62	130.77	4808.08	138.32	4807.27

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139.46	4806.89	143.42	4805.49	145.66	4805.07	149.83	4805.01	150.43	4804.57
150.89	4804.49	151.41	4804.26	152.08	4804.09	153.11	4803.72	154.09	4803.8
154.59	4803.92	155.57	4804.03	155.74	4804.06	156.22	4804.13	156.98	4804.19
157.17	4804.23	157.95	4804.53	159.35	4805.32	161.61	4805.96	164.27	4807.02
167.3	4807.37	173.82	4807.04	179.95	4807.29	221.55	4807.39	236.3	4807.32
242.78	4807.38	298.85	4807.63	305.32	4807.6	309.87	4807.89	314.33	4808.33
314.89	4808.37	322.12	4808.96	323.94	4809.06	328.4	4809.29	330.91	4809.41
334.71	4809.67								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	143.42	.029	159.35	.067

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	143.42	159.35		4.9	4.61	5.04	.1 .3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0133.9186			F
165.9429	334.71		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.15	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.08	Wt. n-Val.		0.029
W.S. Elev (ft)	4804.07	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4804.07	Flow Area (sq ft)		0.69
E.G. Slope (ft/ft)	0.018946	Area (sq ft)		0.69
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	3.70	Top Width (ft)		3.70
Vel Total (ft/s)	2.26	Avg. Vel. (ft/s)		2.26
Max Chl Dpth (ft)	0.35	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	11.3	Conv. (cfs)		11.3
Length Wtd. (ft)	4.61	Wetted Per. (ft)		3.79
Min Ch El (ft)	4803.72	Shear (lb/sq ft)		0.21
Alpha	1.00	Stream Power (lb/ft s)		0.49
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.85	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.60	Wt. n-Val.		0.029

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W.S. Elev (ft)	4805.25	Reach Len. (ft)	4.90 4.61
5.04			
Crit W.S. (ft)	4805.40	Flow Area (sq ft)	10.45
E.G. Slope (ft/ft)	0.024071	Area (sq ft)	10.45
Q Total (cfs)	65.00	Flow (cfs)	65.00
Top Width (ft)	14.52	Top Width (ft)	14.52
Vel Total (ft/s)	6.22	Avg. Vel. (ft/s)	6.22
Max Chl Dpth (ft)	1.53	Hydr. Depth (ft)	0.72
Conv. Total (cfs)	419.0	Conv. (cfs)	419.0
Length Wtd. (ft)	4.61	Wetted Per. (ft)	15.11
Min Ch El (ft)	4803.72	Shear (lb/sq ft)	1.04
Alpha	1.00	Stream Power (lb/ft s)	6.47
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.00 0.03
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.03
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.26	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.30	Wt. n-Val.	0.050	0.029
0.067				
W.S. Elev (ft)	4805.96	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.34	Flow Area (sq ft)	0.31	21.60
0.72				
E.G. Slope (ft/ft)	0.022528	Area (sq ft)	0.31	21.60
0.72				
Q Total (cfs)	200.00	Flow (cfs)	0.51	198.40
1.10				
Top Width (ft)	19.52	Top Width (ft)	1.33	15.93
2.26				
Vel Total (ft/s)	8.84	Avg. Vel. (ft/s)	1.63	9.18
1.52				
Max Chl Dpth (ft)	2.24	Hydr. Depth (ft)	0.23	1.36
0.32				
Conv. Total (cfs)	1332.5	Conv. (cfs)	3.4	1321.8
7.3				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	1.41	16.56
2.35				
Min Ch El (ft)	4803.72	Shear (lb/sq ft)	0.31	1.84
0.43				
Alpha	1.07	Stream Power (lb/ft s)	0.51	16.85
0.66				
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.01	0.07
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.04
0.01				

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CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.66	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.48	Wt. n-Val.	0.050	0.029
0.067				
W.S. Elev (ft)	4806.18	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.60	Flow Area (sq ft)	0.67	25.06
1.27				
E.G. Slope (ft/ft)	0.021155	Area (sq ft)	0.67	25.06
1.27				
Q Total (cfs)	250.00	Flow (cfs)	1.36	246.29
2.35				
Top Width (ft)	20.68	Top Width (ft)	1.94	15.93
2.80				
Vel Total (ft/s)	9.26	Avg. Vel. (ft/s)	2.04	9.83
1.85				
Max Chl Dpth (ft)	2.46	Hydr. Depth (ft)	0.34	1.57
0.45				
Conv. Total (cfs)	1718.8	Conv. (cfs)	9.3	1693.3
16.2				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	2.06	16.56
2.93				
Min Ch El (ft)	4803.72	Shear (lb/sq ft)	0.43	2.00
0.57				
Alpha	1.11	Stream Power (lb/ft s)	0.87	19.65
1.06				
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)	0.01	0.08
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.71	Wt. n-Val.	0.050	0.029
0.067				
W.S. Elev (ft)	4806.61	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.05	Flow Area (sq ft)	1.76	31.89
2.70				
E.G. Slope (ft/ft)	0.018002	Area (sq ft)	16.70	31.89
2.70				
Q Total (cfs)	350.00	Flow (cfs)	4.56	339.33
6.10				
Top Width (ft)	75.19	Top Width (ft)	55.38	15.93
3.88				
Vel Total (ft/s)	9.63	Avg. Vel. (ft/s)	2.60	10.64
2.26				
Max Chl Dpth (ft)	2.88	Hydr. Depth (ft)	0.56	2.00
0.70				
Conv. Total (cfs)	2608.6	Conv. (cfs)	34.0	2529.1
45.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	3.34	16.56
4.09				

Min Ch El (ft)	4803.72	low_littledominguez.rep	Shear (lb/sq ft)	0.59	2.16
0.74					
Alpha	1.19		Stream Power (lb/ft s)	1.53	23.03
1.68					
Frctn Loss (ft)	0.08		Cum Volume (acre-ft)	0.08	0.11
0.02					
C & E Loss (ft)	0.01		Cum SA (acres)	0.18	0.04
0.03					

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.15	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.96	Wt. n-Val.	0.050	0.029
0.067				
W.S. Elev (ft)	4807.19	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.81	Flow Area (sq ft)	4.07	41.13
5.46				
E.G. Slope (ft/ft)	0.015045	Area (sq ft)	57.13	41.13
5.93				
Q Total (cfs)	500.00	Flow (cfs)	12.72	474.25
13.03				
Top Width (ft)	110.78	Top Width (ft)	82.05	15.93
12.79				
Vel Total (ft/s)	9.87	Avg. Vel. (ft/s)	3.12	11.53
2.38				
Max Chl Dpth (ft)	3.47	Hydr. Depth (ft)	0.84	2.58
0.86				
Conv. Total (cfs)	4076.4	Conv. (cfs)	103.7	3866.5
106.2				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	5.13	16.56
6.65				
Min Ch El (ft)	4803.72	Shear (lb/sq ft)	0.74	2.33
0.77				
Alpha	1.30	Stream Power (lb/ft s)	2.33	26.91
1.84				
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.35	0.14
0.12				
C & E Loss (ft)	0.02	Cum SA (acres)	0.35	0.04
0.25				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 12.4285*

INPUT

Description:

Station	Elevation	Data	num=	46					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4809.04	.97	4806.17	1.02	4806.09	28.97	4806.19	58.28	4806.62
64.74	4806.79	77.53	4807.15	115.03	4807.48	129.89	4807.99	137.39	4807.47

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138.53	4807.04	142.46	4805.5	144.75	4804.97	149	4804.93	149.61	4804.61
150.07	4804.54	150.61	4804.3	151.29	4804.08	152.34	4803.61	153.43	4803.71
153.98	4803.85	155.07	4803.99	155.26	4804.02	155.78	4804.11	156.63	4804.17
156.85	4804.2	157.71	4804.54	159.26	4805.32	161.54	4805.95	164.23	4807.12
167.3	4807.3	173.89	4806.87	180.09	4807.23	222.15	4807.47	237.07	4807.42
243.61	4807.46	300.32	4807.5	306.86	4807.46	311.46	4807.84	315.97	4808.34
316.53	4808.38	323.85	4808.94	325.69	4809.05	330.2	4809.27	332.73	4809.39
336.58	4809.67								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	142.46	.029	159.26	.063

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	142.46	159.26		4.9	4.61	5.04	.1
							.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0134.0914			F
165.4871	336.58		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4804.06	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.09	Wt. n-Val.		0.029
W.S. Elev (ft)	4803.98	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4803.98	Flow Area (sq ft)		0.66
E.G. Slope (ft/ft)	0.019742	Area (sq ft)		0.66
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	3.43	Top Width (ft)		3.43
Vel Total (ft/s)	2.35	Avg. Vel. (ft/s)		2.35
Max Chl Dpth (ft)	0.37	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	11.1	Conv. (cfs)		11.1
Length Wtd. (ft)	4.61	Wetted Per. (ft)		3.54
Min Ch El (ft)	4803.61	Shear (lb/sq ft)		0.23
Alpha	1.00	Stream Power (lb/ft s)		0.54
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is

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not a valid subcritical answer. The program
defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.74	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.58	Wt. n-Val.		0.029
W.S. Elev (ft)	4805.16	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4805.29	Flow Area (sq ft)		10.60
E.G. Slope (ft/ft)	0.023881	Area (sq ft)		10.60
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	15.02	Top Width (ft)		15.02
Vel Total (ft/s)	6.13	Avg. Vel. (ft/s)		6.13
Max Chl Dpth (ft)	1.55	Hydr. Depth (ft)		0.71
Conv. Total (cfs)	420.6	Conv. (cfs)		420.6
Length Wtd. (ft)	4.61	Wetted Per. (ft)		15.57
Min Ch El (ft)	4803.61	Shear (lb/sq ft)		1.02
Alpha	1.00	Stream Power (lb/ft s)		6.23
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.15	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.32	Wt. n-Val.	0.050	0.029
0.063				
W.S. Elev (ft)	4805.83	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.22	Flow Area (sq ft)	0.14	21.56
0.47				
E.G. Slope (ft/ft)	0.024467	Area (sq ft)	0.14	21.56
0.47				
Q Total (cfs)	200.00	Flow (cfs)	0.18	199.14
0.68				
Top Width (ft)	19.48	Top Width (ft)	0.84	16.80
1.84				
Vel Total (ft/s)	9.02	Avg. Vel. (ft/s)	1.33	9.24
1.45				
Max Chl Dpth (ft)	2.22	Hydr. Depth (ft)	0.16	1.28
0.25				
Conv. Total (cfs)	1278.6	Conv. (cfs)	1.2	1273.1
4.3				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	0.90	17.43

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1.91				
Min Ch El (ft)	4803.61	Shear (lb/sq ft)	0.23	1.89
0.37				
Alpha	1.04	Stream Power (lb/ft s)	0.31	17.46
0.54				
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.01	0.07
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.55	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.52	Wt. n-Val.	0.050	0.029
0.063				
W.S. Elev (ft)	4806.03	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.46	Flow Area (sq ft)	0.35	24.89
0.90				
E.G. Slope (ft/ft)	0.023460	Area (sq ft)	0.35	24.89
0.90				
Q Total (cfs)	250.00	Flow (cfs)	0.63	247.74
1.62				
Top Width (ft)	20.60	Top Width (ft)	1.35	16.80
2.46				
Vel Total (ft/s)	9.56	Avg. Vel. (ft/s)	1.78	9.95
1.80				
Max Chl Dpth (ft)	2.42	Hydr. Depth (ft)	0.26	1.48
0.37				
Conv. Total (cfs)	1632.2	Conv. (cfs)	4.1	1617.5
10.6				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	1.45	17.43
2.56				
Min Ch El (ft)	4803.61	Shear (lb/sq ft)	0.36	2.09
0.52				
Alpha	1.07	Stream Power (lb/ft s)	0.64	20.82
0.93				
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.01	0.08
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.78	Wt. n-Val.	0.050	0.029
0.063				
W.S. Elev (ft)	4806.43	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.94	Flow Area (sq ft)	1.10	31.63
2.07				
E.G. Slope (ft/ft)	0.020166	Area (sq ft)	11.14	31.63
2.07				
Q Total (cfs)	350.00	Flow (cfs)	2.66	342.51
4.84				

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Top Width (ft)	66.91	Top Width (ft)	46.73 16.80
3.38			
Vel Total (ft/s)	10.06	Avg. Vel. (ft/s)	2.41 10.83
2.33			
Max Chl Dpth (ft)	2.82	Hydr. Depth (ft)	0.46 1.88
0.61			
Conv. Total (cfs)	2464.7	Conv. (cfs)	18.7 2411.9
34.1			
Length Wtd. (ft)	4.62	Wetted Per. (ft)	2.55 17.43
3.57			
Min Ch El (ft)	4803.61	Shear (lb/sq ft)	0.54 2.29
0.73			
Alpha	1.14	Stream Power (lb/ft s)	1.31 24.74
1.71			
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)	0.08 0.10
0.02			
C & E Loss (ft)	0.01	Cum SA (acres)	0.18 0.04
0.03			

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4809.06	Element	Left OB	Channel
Right OB				
Vel Head (ft)	2.10	Wt. n-Val.	0.050	0.029
0.063				
W.S. Elev (ft)	4806.96	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.48	Flow Area (sq ft)	2.70	40.48
4.17				
E.G. Slope (ft/ft)	0.017424	Area (sq ft)	43.85	40.48
4.29				
Q Total (cfs)	500.00	Flow (cfs)	8.17	480.14
11.69				
Top Width (ft)	97.77	Top Width (ft)	73.61	16.80
7.36				
Vel Total (ft/s)	10.56	Avg. Vel. (ft/s)	3.03	11.86
2.80				
Max Chl Dpth (ft)	3.35	Hydr. Depth (ft)	0.73	2.41
0.91				
Conv. Total (cfs)	3787.8	Conv. (cfs)	61.9	3637.4
88.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	3.99	17.43
4.89				
Min Ch El (ft)	4803.61	Shear (lb/sq ft)	0.74	2.53
0.93				
Alpha	1.21	Stream Power (lb/ft s)	2.23	29.97
2.60				
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.34	0.14
0.12				
C & E Loss (ft)	0.01	Cum SA (acres)	0.34	0.04
0.25				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

low_littledominguez.rep

RIVER: lower little dom
REACH: C

RS: 12.2857*

INPUT

Description:

Station Elevation Data		num= 46		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.86	.97	4806.06	1.01	4805.97	28.77	4806.15	57.89	4806.54		
64.3	4806.73	77.01	4807.12	114.25	4807.33	129.01	4807.9	136.47	4807.66		
137.59	4807.18	141.5	4805.5	143.83	4804.86	148.16	4804.85	148.79	4804.64		
149.26	4804.6	149.8	4804.34	150.5	4804.07	151.57	4803.49	152.77	4803.61		
153.38	4803.78	154.56	4803.94	154.77	4803.98	155.35	4804.09	156.28	4804.15		
156.52	4804.18	157.46	4804.55	159.17	4805.32	161.48	4805.95	164.19	4807.22		
167.29	4807.23	173.96	4806.71	180.22	4807.17	222.76	4807.54	237.83	4807.51		
244.45	4807.54	301.78	4807.37	308.4	4807.32	313.05	4807.8	317.61	4808.34		
318.18	4808.38	325.57	4808.92	327.43	4809.04	331.99	4809.25	334.56	4809.38		
338.44	4809.67										

Manning's n Values		num= 3		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.05	141.5	.029	159.17	.059		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	141.5	159.17		4.9	4.61		.1	.3
Ineffective Flow	num= 2							
Sta L	Sta R	Elev	Permanent					
0134.2643			F					
165.0314	338.44		F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.12	Wt. n-Val.		0.029
W.S. Elev (ft)	4803.84	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4803.86	Flow Area (sq ft)		0.56
E.G. Slope (ft/ft)	0.027710	Area (sq ft)		0.56
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	2.89	Top Width (ft)		2.89
Vel Total (ft/s)	2.78	Avg. Vel. (ft/s)		2.78
Max Chl Dpth (ft)	0.35	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	9.4	Conv. (cfs)		9.4
Length Wtd. (ft)	4.61	Wetted Per. (ft)		3.02
Min Ch El (ft)	4803.49	Shear (lb/sq ft)		0.32
Alpha	1.00	Stream Power (lb/ft s)		0.89
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

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Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.57	Wt. n-Val.		0.029
W.S. Elev (ft)	4805.07	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4805.18	Flow Area (sq ft)		10.75
E.G. Slope (ft/ft)	0.023880	Area (sq ft)		10.75
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	15.56	Top Width (ft)		15.56
Vel Total (ft/s)	6.04	Avg. Vel. (ft/s)		6.04
Max Chl Dpth (ft)	1.58	Hydr. Depth (ft)		0.69
Conv. Total (cfs)	420.6	Conv. (cfs)		420.6
Length Wtd. (ft)	4.61	Wetted Per. (ft)		16.12
Min Ch El (ft)	4803.49	Shear (lb/sq ft)		0.99
Alpha	1.00	Stream Power (lb/ft s)		6.01
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4807.02	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.30	Wt. n-Val.	0.050	0.029
0.059				
W.S. Elev (ft)	4805.72	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.11	Flow Area (sq ft)	0.06	21.82
0.29				
E.G. Slope (ft/ft)	0.025281	Area (sq ft)	0.06	21.82
0.29				
Q Total (cfs)	200.00	Flow (cfs)	0.06	199.55
0.39				
Top Width (ft)	19.65	Top Width (ft)	0.51	17.67
1.47				
Vel Total (ft/s)	9.02	Avg. Vel. (ft/s)	1.03	9.15
1.34				
Max Chl Dpth (ft)	2.23	Hydr. Depth (ft)	0.11	1.23
0.20				
Conv. Total (cfs)	1257.9	Conv. (cfs)	0.4	1255.0

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2.5				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	0.56	18.34
1.52				
Min Ch El (ft)	4803.49	Shear (lb/sq ft)	0.16	1.88
0.31				
Alpha	1.03	Stream Power (lb/ft s)	0.16	17.17
0.41				
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.01	0.06
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.44	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.54	Wt. n-Val.	0.050	0.029
0.059				
W.S. Elev (ft)	4805.90	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.37	Flow Area (sq ft)	0.18	24.91
0.61				
E.G. Slope (ft/ft)	0.025255	Area (sq ft)	0.18	24.91
0.61				
Q Total (cfs)	250.00	Flow (cfs)	0.28	248.69
1.03				
Top Width (ft)	20.70	Top Width (ft)	0.92	17.67
2.11				
Vel Total (ft/s)	9.73	Avg. Vel. (ft/s)	1.52	9.98
1.70				
Max Chl Dpth (ft)	2.41	Hydr. Depth (ft)	0.20	1.41
0.29				
Conv. Total (cfs)	1573.1	Conv. (cfs)	1.7	1564.9
6.5				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	1.00	18.34
2.19				
Min Ch El (ft)	4803.49	Shear (lb/sq ft)	0.29	2.14
0.44				
Alpha	1.05	Stream Power (lb/ft s)	0.43	21.38
0.75				
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.01	0.08
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4808.11	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.84	Wt. n-Val.	0.050	0.029
0.059				
W.S. Elev (ft)	4806.26	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.81	Flow Area (sq ft)	0.68	31.42
1.56				
E.G. Slope (ft/ft)	0.022380	Area (sq ft)	6.85	31.42
1.56				

	low_littledominguez.rep		
Q Total (cfs)	350.00	Flow (cfs)	1.50 344.81
3.69			
Top Width (ft)	58.83	Top Width (ft)	38.18 17.67
2.98			
Vel Total (ft/s)	10.40	Avg. Vel. (ft/s)	2.21 10.97
2.36			
Max Chl Dpth (ft)	2.77	Hydr. Depth (ft)	0.38 1.78
0.52			
Conv. Total (cfs)	2339.6	Conv. (cfs)	10.0 2304.9
24.6			
Length Wtd. (ft)	4.62	Wetted Per. (ft)	1.94 18.34
3.13			
Min Ch El (ft)	4803.49	Shear (lb/sq ft)	0.49 2.39
0.69			
Alpha	1.10	Stream Power (lb/ft s)	1.09 26.26
1.64			
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.08 0.10
0.02			
C & E Loss (ft)	0.01	Cum SA (acres)	0.17 0.03
0.03			

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	2.20	Wt. n-Val.	0.050	0.029
0.059				
W.S. Elev (ft)	4806.76	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.44	Flow Area (sq ft)	1.84	40.16
3.29				
E.G. Slope (ft/ft)	0.019536	Area (sq ft)	34.21	40.16
3.33				
Q Total (cfs)	500.00	Flow (cfs)	5.32	484.98
9.71				
Top Width (ft)	90.44	Top Width (ft)	67.44	17.67
5.33				
Vel Total (ft/s)	11.04	Avg. Vel. (ft/s)	2.88	12.08
2.95				
Max Chl Dpth (ft)	3.27	Hydr. Depth (ft)	0.63	2.27
0.82				
Conv. Total (cfs)	3577.2	Conv. (cfs)	38.0	3469.8
69.4				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	3.19	18.34
4.30				
Min Ch El (ft)	4803.49	Shear (lb/sq ft)	0.71	2.67
0.93				
Alpha	1.16	Stream Power (lb/ft s)	2.03	32.25
2.75				
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)	0.34	0.13
0.12				
C & E Loss (ft)	0.01	Cum SA (acres)	0.33	0.03
0.25				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 12.1428*

INPUT

Description:

Station	Elevation	Data	num=	46
Sta	Elev	Sta	Elev	Sta Elev Sta Elev Sta Elev
0	4808.68	.96	4805.96	1.01 4805.85 28.58 4806.1 57.49 4806.46
63.87	4806.67	76.48	4807.08	113.48 4807.19 128.14 4807.8 135.54 4807.86
136.66	4807.33	140.53	4805.51	142.91 4804.75 147.33 4804.77 147.96 4804.67
148.45	4804.65	149	4804.38	149.71 4804.06 150.8 4803.38 152.1 4803.51
152.77	4803.71	154.06	4803.9	154.29 4803.94 154.92 4804.07 155.93 4804.14
156.19	4804.16	157.22	4804.55	159.07 4805.32 161.41 4805.95 164.16 4807.32
167.29	4807.16	174.03	4806.55	180.36 4807.1 223.36 4807.62 238.6 4807.6
245.29	4807.62	303.25	4807.24	309.93 4807.18 314.63 4807.75 319.24 4808.35
319.82	4808.39	327.29	4808.9	329.18 4809.02 333.78 4809.24 336.38 4809.36
340.31	4809.67			

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
0	.05	140.53	.03
		159.07	.054

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	140.53	159.07		4.9	4.61	5.04	.1	.3
Ineffective Flow	num= 2							
Sta L	Sta R	Elev	Permanent					
0134.4371			F					
164.5757	340.31		F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.85	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.11	Wt. n-Val.		0.030
W.S. Elev (ft)	4803.74	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4803.75	Flow Area (sq ft)		0.58
E.G. Slope (ft/ft)	0.025328	Area (sq ft)		0.58
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	2.75	Top Width (ft)		2.75
Vel Total (ft/s)	2.69	Avg. Vel. (ft/s)		2.69
Max Chl Dpth (ft)	0.36	Hydr. Depth (ft)		0.21
Conv. Total (cfs)	9.8	Conv. (cfs)		9.8
Length Wtd. (ft)	4.61	Wetted Per. (ft)		2.89
Min Ch El (ft)	4803.38	Shear (lb/sq ft)		0.32
Alpha	1.00	Stream Power (lb/ft s)		0.85
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.00

C & E Loss (ft)	low_littledominguez.rep 0.01	Cum SA (acres)	0.01
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Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.52	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.51	Wt. n-Val.		0.030
W.S. Elev (ft)	4805.02	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4805.11	Flow Area (sq ft)		11.36
E.G. Slope (ft/ft)	0.022615	Area (sq ft)		11.36
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	16.26	Top Width (ft)		16.26
Vel Total (ft/s)	5.72	Avg. Vel. (ft/s)		5.72
Max Chl Dpth (ft)	1.63	Hydr. Depth (ft)		0.70
Conv. Total (cfs)	432.2	Conv. (cfs)		432.2
Length Wtd. (ft)	4.61	Wetted Per. (ft)		16.87
Min Ch El (ft)	4803.38	Shear (lb/sq ft)		0.95
Alpha	1.00	Stream Power (lb/ft s)		5.44
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.90	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.29	Wt. n-Val.	0.050	0.030
0.054				
W.S. Elev (ft)	4805.61	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.00	Flow Area (sq ft)	0.01	21.91
0.16				
E.G. Slope (ft/ft)	0.028613	Area (sq ft)	0.01	21.91
0.16				
Q Total (cfs)	200.00	Flow (cfs)	0.01	199.80
0.20				
Top Width (ft)	19.83	Top Width (ft)	0.21	18.54
1.08				

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Vel Total (ft/s)	9.06	Avg. Vel. (ft/s)	0.64 9.12
1.26			
Max Chl Dpth (ft)	2.23	Hydr. Depth (ft)	0.05 1.18
0.15			
Conv. Total (cfs)	1182.4	Conv. (cfs)	0.0 1181.2
1.2			
Length Wtd. (ft)	4.61	Wetted Per. (ft)	0.24 19.29
1.12			
Min Ch El (ft)	4803.38	Shear (lb/sq ft)	0.08 2.03
0.25			
Alpha	1.01	Stream Power (lb/ft s)	0.05 18.50
0.31			
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.01 0.06
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.03
0.01			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.52	Wt. n-Val.	0.050	0.030
0.054				
W.S. Elev (ft)	4805.79	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4806.24	Flow Area (sq ft)	0.08	25.15
0.40				
E.G. Slope (ft/ft)	0.028106	Area (sq ft)	0.08	25.15
0.40				
Q Total (cfs)	250.00	Flow (cfs)	0.10	249.21
0.69				
Top Width (ft)	20.85	Top Width (ft)	0.59	18.54
1.73				
Vel Total (ft/s)	9.75	Avg. Vel. (ft/s)	1.24	9.91
1.70				
Max Chl Dpth (ft)	2.41	Hydr. Depth (ft)	0.14	1.36
0.23				
Conv. Total (cfs)	1491.2	Conv. (cfs)	0.6	1486.5
4.1				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	0.65	19.29
1.79				
Min Ch El (ft)	4803.38	Shear (lb/sq ft)	0.22	2.29
0.39				
Alpha	1.03	Stream Power (lb/ft s)	0.27	22.67
0.67				
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.01	0.07
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.99	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.87	Wt. n-Val.	0.050	0.030
0.054				
W.S. Elev (ft)	4806.12	Reach Len. (ft)	4.90	4.61

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5.04				
Crit W.S. (ft)	4806.69	Flow Area (sq ft)	0.40	31.42
1.17				
E.G. Slope (ft/ft)	0.025829	Area (sq ft)	4.53	31.42
1.17				
Q Total (cfs)	350.00	Flow (cfs)	0.81	346.29
2.90				
Top Width (ft)	52.09	Top Width (ft)	30.87	18.54
2.69				
Vel Total (ft/s)	10.61	Avg. Vel. (ft/s)	2.03	11.02
2.47				
Max Chl Dpth (ft)	2.74	Hydr. Depth (ft)	0.31	1.69
0.44				
Conv. Total (cfs)	2177.8	Conv. (cfs)	5.1	2154.7
18.0				
Length Wtd. (ft)	4.61	Wetted Per. (ft)	1.44	19.29
2.81				
Min Ch El (ft)	4803.38	Shear (lb/sq ft)	0.45	2.63
0.67				
Alpha	1.07	Stream Power (lb/ft s)	0.91	28.95
1.66				
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.08	0.10
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.17	0.03
0.03				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.85	Element	Left OB	Channel
Right OB				
Vel Head (ft)	2.27	Wt. n-Val.	0.050	0.030
0.054				
W.S. Elev (ft)	4806.58	Reach Len. (ft)	4.90	4.61
5.04				
Crit W.S. (ft)	4807.26	Flow Area (sq ft)	1.22	39.89
2.61				
E.G. Slope (ft/ft)	0.023157	Area (sq ft)	26.92	39.89
2.62				
Q Total (cfs)	500.00	Flow (cfs)	3.40	488.14
8.46				
Top Width (ft)	85.53	Top Width (ft)	62.69	18.54
4.30				
Vel Total (ft/s)	11.44	Avg. Vel. (ft/s)	2.79	12.24
3.24				
Max Chl Dpth (ft)	3.20	Hydr. Depth (ft)	0.54	2.15
0.72				
Conv. Total (cfs)	3285.7	Conv. (cfs)	22.3	3207.8
55.6				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	2.52	19.29
3.84				
Min Ch El (ft)	4803.38	Shear (lb/sq ft)	0.70	2.99
0.98				
Alpha	1.12	Stream Power (lb/ft s)	1.95	36.59
3.19				
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.33	0.13
0.12				
C & E Loss (ft)	0.01	Cum SA (acres)	0.32	0.03
0.25				

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Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 12

INPUT

Description: cross section W

Station		Elevation Data		num= 28		Sta		Elev		Sta		Elev	
0	4808.5	1	4805.73	57.14	806.386	75.96	4807.042	112.74	807.042				
134.61	4808.052	139.572	4805.51	141.993	4804.642	147.632	4804.705	148.92	4804.055				
150.032	4803.266	151.439	4803.411	152.158	4803.642	153.557	4803.858	154.486	4804.048				
155.864	4804.141	158.981	4805.319	161.342	4805.944	164.124	807.417	174.148	806.386				
180.54	807.042	223.964	807.698	246.134	807.698	311.474	807.042	320.884	808.354				
330.92	4809.01	338.248	809.338	342.17	4809.67								

Manning's n		Values		num= 3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	139.572	.03	158.981	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
139.572	158.981	4.73	4.63	4.64	.1	.3		

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
0	134.61		F
164.12	342.17		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.74	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.12	Wt. n-Val.		0.030
W.S. Elev (ft)	4803.63	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4803.64	Flow Area (sq ft)		0.57
E.G. Slope (ft/ft)	0.024642	Area (sq ft)		0.57
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	2.59	Top Width (ft)		2.59
Vel Total (ft/s)	2.73	Avg. Vel. (ft/s)		2.73
Max Chl Dpth (ft)	0.36	Hydr. Depth (ft)		0.22
Conv. Total (cfs)	9.9	Conv. (cfs)		9.9
Length Wtd. (ft)	4.63	Wetted Per. (ft)		2.75
Min Ch El (ft)	4803.27	Shear (lb/sq ft)		0.32
Alpha	1.00	Stream Power (lb/ft s)		0.87
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)		0.00

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C & E Loss (ft)	0.00	Cum SA (acres)	0.01
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CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.42	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.47	Wt. n-Val.		0.030
W.S. Elev (ft)	4804.95	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.04	Flow Area (sq ft)		11.82
E.G. Slope (ft/ft)	0.020926	Area (sq ft)		11.82
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	16.88	Top Width (ft)		16.88
Vel Total (ft/s)	5.50	Avg. Vel. (ft/s)		5.50
Max Chl Dpth (ft)	1.69	Hydr. Depth (ft)		0.70
Conv. Total (cfs)	449.3	Conv. (cfs)		449.3
Length Wtd. (ft)	4.63	Wetted Per. (ft)		17.57
Min Ch El (ft)	4803.27	Shear (lb/sq ft)		0.88
Alpha	1.00	Stream Power (lb/ft s)		4.83
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.76	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.23	Wt. n-Val.	0.000	0.030
0.050				
W.S. Elev (ft)	4805.53	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.89	Flow Area (sq ft)	0.00	22.45
0.08				
E.G. Slope (ft/ft)	0.028187	Area (sq ft)	0.00	22.45
0.08				
Q Total (cfs)	200.00	Flow (cfs)	0.00	199.91
0.09				
Top Width (ft)	20.25	Top Width (ft)	0.04	19.41
0.80				
Vel Total (ft/s)	8.87	Avg. Vel. (ft/s)	0.22	8.90
1.09				
Max Chl Dpth (ft)	2.26	Hydr. Depth (ft)	0.01	1.16
0.11				

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Conv. Total (cfs)	1191.3	Conv. (cfs)	0.0 1190.7
0.6			
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.05 20.26
0.83			
Min Ch El (ft)	4803.27	Shear (lb/sq ft)	1.95
0.18			
Alpha	1.01	Stream Power (lb/ft s)	17.36
0.20			
Frctn Loss (ft)	0.13	Cum Volume (acre-ft)	0.01 0.06
0.00			
C & E Loss (ft)	0.02	Cum SA (acres)	0.01 0.03
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.17	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.47	Wt. n-Val.	0.050	0.030
0.050				
W.S. Elev (ft)	4805.69	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4806.13	Flow Area (sq ft)	0.03	25.59
0.26				
E.G. Slope (ft/ft)	0.028404	Area (sq ft)	0.03	25.59
0.26				
Q Total (cfs)	250.00	Flow (cfs)	0.03	249.55
0.42				
Top Width (ft)	21.18	Top Width (ft)	0.36	19.41
1.41				
Vel Total (ft/s)	9.66	Avg. Vel. (ft/s)	0.94	9.75
1.60				
Max Chl Dpth (ft)	2.43	Hydr. Depth (ft)	0.09	1.32
0.19				
Conv. Total (cfs)	1483.4	Conv. (cfs)	0.2	1480.7
2.5				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.40	20.26
1.46				
Min Ch El (ft)	4803.27	Shear (lb/sq ft)	0.14	2.24
0.32				
Alpha	1.02	Stream Power (lb/ft s)	0.14	21.84
0.51				
Frctn Loss (ft)	0.13	Cum Volume (acre-ft)	0.01	0.07
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.85	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.84	Wt. n-Val.	0.050	0.030
0.050				
W.S. Elev (ft)	4806.01	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4806.57	Flow Area (sq ft)	0.25	31.81
0.90				
E.G. Slope (ft/ft)	0.026658	Area (sq ft)	3.68	31.81

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0.90				
Q Total (cfs)	350.00	Flow (cfs)	0.44	347.38
2.18				
Top Width (ft)	47.15	Top Width (ft)	25.25	19.41
2.49				
Vel Total (ft/s)	10.62	Avg. Vel. (ft/s)	1.79	10.92
2.41				
Max Chl Dpth (ft)	2.75	Hydr. Depth (ft)	0.25	1.64
0.36				
Conv. Total (cfs)	2143.7	Conv. (cfs)	2.7	2127.6
13.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	1.10	20.26
2.59				
Min Ch El (ft)	4803.27	Shear (lb/sq ft)	0.37	2.61
0.58				
Alpha	1.05	Stream Power (lb/ft s)	0.67	28.53
1.40				
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.08	0.09
0.02				
C & E Loss (ft)	0.01	Cum SA (acres)	0.17	0.03
0.03				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.67	Wt. n-Val.	0.050	0.030
0.050				
W.S. Elev (ft)	4807.92	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4807.12	Flow Area (sq ft)	5.68	68.86
8.86				
E.G. Slope (ft/ft)	0.003678	Area (sq ft)	174.61	68.86
94.53				
Q Total (cfs)	500.00	Flow (cfs)	10.73	467.57
21.70				
Top Width (ft)	314.50	Top Width (ft)	136.29	19.41
158.80				
Vel Total (ft/s)	6.00	Avg. Vel. (ft/s)	1.89	6.79
2.45				
Max Chl Dpth (ft)	4.66	Hydr. Depth (ft)	1.21	3.55
1.72				
Conv. Total (cfs)	8244.0	Conv. (cfs)	176.9	7709.3
357.9				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	5.29	20.26
5.59				
Min Ch El (ft)	4803.27	Shear (lb/sq ft)	0.25	0.78
0.36				
Alpha	1.21	Stream Power (lb/ft s)	0.47	5.30
0.89				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.32	0.12
0.11				
C & E Loss (ft)	0.00	Cum SA (acres)	0.31	0.03
0.24				

Warning: Divided flow computed for this cross-section.

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 11.875*

INPUT

Description:

Station	Elevation	Data	num=	48									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.44	1	4805.7	1.03	4805.69	56.83	4806.37	64.83	4806.63				
75.6	4806.96	111.35	4806.96	112.17	4806.97	126.14	4807.63	132.37	4807.73				
133.97	4807.65	134.47	4807.38	138.91	4805.36	140.98	4804.59	141.17	4804.52				
144.32	4804.46	146.36	4804.44	146.41	4804.44	147.61	4803.85	148.65	4803.15				
150	4803.28	150.7	4803.48	151.26	4803.57	152.04	4803.69	152.68	4803.83				
152.94	4803.88	154.13	4803.98	154.26	4804	157.27	4805.18	158.05	4805.49				
159.63	4805.9	162.41	4807.25	168.35	4806.85	172.38	4806.51	177.51	4807.01				
178.77	4807.12	222.19	4807.7	238.06	4807.7	244.34	4807.69	309.63	4807.05				
315.48	4807.76	319.03	4808.19	326.24	4808.6	328.91	4808.88	329.06	4808.89				
335.42	4809.26	336.33	4809.31	340.3	4809.67								

Manning's n Values		num=		3
Sta	n Val	Sta	n Val	Sta
0	.05	138.91	.029	157.27

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	138.91	157.27		4.73	4.63		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	133.0275		F
164.2687	340.3		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.62	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.14	Wt. n-Val.		0.029
W.S. Elev (ft)	4803.49	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4803.51	Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.030547	Area (sq ft)		0.52
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	2.58	Top Width (ft)		2.58
Vel Total (ft/s)	2.98	Avg. Vel. (ft/s)		2.98
Max Chl Dpth (ft)	0.34	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	8.9	Conv. (cfs)		8.9
Length Wtd. (ft)	4.63	Wetted Per. (ft)		2.72
Min Ch El (ft)	4803.15	Shear (lb/sq ft)		0.37
Alpha	1.00	Stream Power (lb/ft s)		1.09

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Frctn Loss (ft)	0.13	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.55	Wt. n-Val.		0.029
W.S. Elev (ft)	4804.76	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.89	Flow Area (sq ft)		10.94
E.G. Slope (ft/ft)	0.022864	Area (sq ft)		10.94
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	15.67	Top Width (ft)		15.67
Vel Total (ft/s)	5.94	Avg. Vel. (ft/s)		5.94
Max Chl Dpth (ft)	1.61	Hydr. Depth (ft)		0.70
Conv. Total (cfs)	429.9	Conv. (cfs)		429.9
Length Wtd. (ft)	4.63	Wetted Per. (ft)		16.29
Min Ch El (ft)	4803.15	Shear (lb/sq ft)		0.96
Alpha	1.00	Stream Power (lb/ft s)		5.70
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.20	Wt. n-Val.	0.050	0.029
0.054				
W.S. Elev (ft)	4805.44	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.77	Flow Area (sq ft)	0.01	22.77
0.09				
E.G. Slope (ft/ft)	0.023326	Area (sq ft)	0.01	22.77
0.09				
Q Total (cfs)	200.00	Flow (cfs)	0.00	199.91
0.09				
Top Width (ft)	19.20	Top Width (ft)	0.18	18.36
0.66				
Vel Total (ft/s)	8.75	Avg. Vel. (ft/s)	0.51	8.78
1.03				

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Max Chl Dpth (ft)	2.29	Hydr. Depth (ft)	0.04 1.24
0.13			
Conv. Total (cfs)	1309.5	Conv. (cfs)	0.0 1308.9
0.6			
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.20 19.16
0.71			
Min Ch El (ft)	4803.15	Shear (lb/sq ft)	0.05 1.73
0.18			
Alpha	1.01	Stream Power (lb/ft s)	0.03 15.19
0.18			
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.01 0.06
0.00			
C & E Loss (ft)	0.01	Cum SA (acres)	0.01 0.03
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4807.04	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.42	Wt. n-Val.	0.050	0.029
0.054				
W.S. Elev (ft)	4805.62	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4806.02	Flow Area (sq ft)	0.08	26.10
0.26				
E.G. Slope (ft/ft)	0.023076	Area (sq ft)	0.08	26.10
0.26				
Q Total (cfs)	250.00	Flow (cfs)	0.08	249.56
0.36				
Top Width (ft)	20.23	Top Width (ft)	0.58	18.36
1.29				
Vel Total (ft/s)	9.46	Avg. Vel. (ft/s)	1.10	9.56
1.38				
Max Chl Dpth (ft)	2.47	Hydr. Depth (ft)	0.13	1.42
0.20				
Conv. Total (cfs)	1645.7	Conv. (cfs)	0.6	1642.8
2.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.64	19.16
1.37				
Min Ch El (ft)	4803.15	Shear (lb/sq ft)	0.17	1.96
0.27				
Alpha	1.02	Stream Power (lb/ft s)	0.19	18.76
0.38				
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.01	0.07
0.01				
C & E Loss (ft)	0.02	Cum SA (acres)	0.02	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.71	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.71	Wt. n-Val.	0.050	0.029
0.054				
W.S. Elev (ft)	4806.00	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4806.48	Flow Area (sq ft)	0.45	32.95

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1.00				
E.G. Slope (ft/ft)	0.020511	Area (sq ft)	4.34	32.95
1.00				
Q Total (cfs)	350.00	Flow (cfs)	0.83	347.12
2.05				
Top Width (ft)	47.66	Top Width (ft)	26.74	18.36
2.56				
Vel Total (ft/s)	10.17	Avg. Vel. (ft/s)	1.86	10.53
2.04				
Max Chl Dpth (ft)	2.85	Hydr. Depth (ft)	0.32	1.79
0.39				
Conv. Total (cfs)	2443.8	Conv. (cfs)	5.8	2423.7
14.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	1.54	19.16
2.69				
Min Ch El (ft)	4803.15	Shear (lb/sq ft)	0.37	2.20
0.48				
Alpha	1.06	Stream Power (lb/ft s)	0.69	23.20
0.97				
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.08	0.09
0.02				
C & E Loss (ft)	0.04	Cum SA (acres)	0.16	0.03
0.03				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.69	Wt. n-Val.	0.050	0.029
0.054				
W.S. Elev (ft)	4807.89	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	7.13	67.67
10.41				
E.G. Slope (ft/ft)	0.003360	Area (sq ft)	178.14	67.67
87.39				
Q Total (cfs)	500.00	Flow (cfs)	13.20	466.01
20.79				
Top Width (ft)	316.33	Top Width (ft)	138.71	18.36
159.27				
Vel Total (ft/s)	5.87	Avg. Vel. (ft/s)	1.85	6.89
2.00				
Max Chl Dpth (ft)	4.74	Hydr. Depth (ft)	1.21	3.69
1.49				
Conv. Total (cfs)	8626.4	Conv. (cfs)	227.8	8040.0
358.6				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	6.39	19.16
7.43				
Min Ch El (ft)	4803.15	Shear (lb/sq ft)	0.23	0.74
0.29				
Alpha	1.29	Stream Power (lb/ft s)	0.43	5.10
0.59				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.30	0.11
0.10				
C & E Loss (ft)	0.00	Cum SA (acres)	0.30	0.03
0.22				

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CROSS SECTION

RIVER: lower little dom
REACH: C

RS: 11.75*

INPUT

Description:

Station Elevation Data		num= 48		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.38	.99	4805.67	1.03	4805.65	56.56	4806.36	64.53	4806.6
75.24	4806.88	110.82	4806.88	111.63	4806.89	125.54	4807.58	131.74	4807.49
133.34	4807.25	133.83	4806.97	138.25	4805.22	140.17	4804.46	140.34	4804.39
143.26	4804.25	145.14	4804.17	145.2	4804.17	146.31	4803.65	147.27	4803.04
148.57	4803.15	149.24	4803.33	149.78	4803.4	150.53	4803.53	151.15	4803.66
151.39	4803.71	152.54	4803.83	152.67	4803.85	155.56	4805.04	156.34	4805.46
157.92	4805.85	160.69	4807.08	166.63	4806.9	170.65	4806.64	175.78	4807.11
177.04	4807.21	220.43	4807.7	236.28	4807.7	242.56	4807.69	307.78	4807.05
313.64	4807.66	317.18	4808.03	324.39	4808.38	327.06	4808.76	327.2	4808.77
333.55	4809.22	334.47	4809.29	338.43	4809.67				

Manning's n Values		num= 3		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	138.25	.029	155.56	.058

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	138.25	155.56		4.73	4.63		.1	.3
Ineffective Flow	num= 2							
Sta L	Sta R	Elev	Permanent					
0	131.445		F					
164.4175	338.43		F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.10	Wt. n-Val.		0.029
W.S. Elev (ft)	4803.39	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4803.39	Flow Area (sq ft)		0.60
E.G. Slope (ft/ft)	0.022854	Area (sq ft)		0.60
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	3.02	Top Width (ft)		3.02
Vel Total (ft/s)	2.58	Avg. Vel. (ft/s)		2.58
Max Chl Dpth (ft)	0.35	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	10.3	Conv. (cfs)		10.3
Length Wtd. (ft)	4.63	Wetted Per. (ft)		3.15
Min Ch El (ft)	4803.04	Shear (lb/sq ft)		0.27
Alpha	1.00	Stream Power (lb/ft s)		0.71
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)		0.00

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C & E Loss (ft) 0.00 Cum SA (acres) 0.01

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.
Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.19	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.60	Wt. n-Val.		0.029
W.S. Elev (ft)	4804.59	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.75	Flow Area (sq ft)		10.45
E.G. Slope (ft/ft)	0.024240	Area (sq ft)		10.45
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	14.64	Top Width (ft)		14.64
Vel Total (ft/s)	6.22	Avg. Vel. (ft/s)		6.22
Max Chl Dpth (ft)	1.55	Hydr. Depth (ft)		0.71
Conv. Total (cfs)	417.5	Conv. (cfs)		417.5
Length Wtd. (ft)	4.63	Wetted Per. (ft)		15.19
Min Ch El (ft)	4803.04	Shear (lb/sq ft)		1.04
Alpha	1.00	Stream Power (lb/ft s)		6.48
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.54	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.19	Wt. n-Val.	0.050	0.029
0.058				
W.S. Elev (ft)	4805.35	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.66	Flow Area (sq ft)	0.02	22.87
0.09				

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E.G. Slope (ft/ft)	0.021253	Area (sq ft)	0.02	22.87
0.09				
Q Total (cfs)	200.00	Flow (cfs)	0.01	199.89
0.09				
Top Width (ft)	18.22	Top Width (ft)	0.33	17.31
0.58				
Vel Total (ft/s)	8.70	Avg. Vel. (ft/s)	0.68	8.74
1.00				
Max Chl Dpth (ft)	2.31	Hydr. Depth (ft)	0.07	1.32
0.16				
Conv. Total (cfs)	1371.9	Conv. (cfs)	0.1	1371.2
0.6				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.36	18.07
0.66				
Min Ch El (ft)	4803.04	Shear (lb/sq ft)	0.08	1.68
0.18				
Alpha	1.01	Stream Power (lb/ft s)	0.06	14.68
0.18				
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.01	0.05
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.94	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.38	Wt. n-Val.	0.050	0.029
0.058				
W.S. Elev (ft)	4805.56	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.90	Flow Area (sq ft)	0.15	26.46
0.26				
E.G. Slope (ft/ft)	0.020380	Area (sq ft)	0.15	26.46
0.26				
Q Total (cfs)	250.00	Flow (cfs)	0.18	249.49
0.33				
Top Width (ft)	19.35	Top Width (ft)	0.86	17.31
1.18				
Vel Total (ft/s)	9.31	Avg. Vel. (ft/s)	1.24	9.43
1.25				
Max Chl Dpth (ft)	2.52	Hydr. Depth (ft)	0.17	1.53
0.22				
Conv. Total (cfs)	1751.2	Conv. (cfs)	1.3	1747.6
2.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.92	18.07
1.30				
Min Ch El (ft)	4803.04	Shear (lb/sq ft)	0.20	1.86
0.26				
Alpha	1.02	Stream Power (lb/ft s)	0.25	17.56
0.32				
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.01	0.06
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 5

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		Element	Left OB	Channel
E.G. Elev (ft)	4807.58			
Right OB				
Vel Head (ft)	0.70	Wt. n-Val.	0.050	0.029
0.058				
W.S. Elev (ft)	4806.89	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4806.38	Flow Area (sq ft)	3.51	49.45
4.44				
E.G. Slope (ft/ft)	0.004619	Area (sq ft)	58.02	49.45
5.25				
Q Total (cfs)	350.00	Flow (cfs)	5.99	336.94
7.07				
Top Width (ft)	143.70	Top Width (ft)	115.14	17.31
11.25				
Vel Total (ft/s)	6.10	Avg. Vel. (ft/s)	1.70	6.81
1.59				
Max Chl Dpth (ft)	3.85	Hydr. Depth (ft)	0.83	2.86
0.95				
Conv. Total (cfs)	5149.6	Conv. (cfs)	88.1	4957.4
104.1				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	4.53	18.07
5.07				
Min Ch El (ft)	4803.04	Shear (lb/sq ft)	0.22	0.79
0.25				
Alpha	1.20	Stream Power (lb/ft s)	0.38	5.38
0.40				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.07	0.09
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.15	0.03
0.02				

Warning: Divided flow computed for this cross-section.

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 6

		Element	Left OB	Channel
E.G. Elev (ft)	4808.56			
Right OB				
Vel Head (ft)	0.68	Wt. n-Val.	0.050	0.029
0.058				
W.S. Elev (ft)	4807.88	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	9.18	66.59
12.66				
E.G. Slope (ft/ft)	0.003186	Area (sq ft)	184.77	66.59
83.99				
Q Total (cfs)	500.00	Flow (cfs)	18.06	459.41
22.53				
Top Width (ft)	315.54	Top Width (ft)	138.07	17.31
160.17				
Vel Total (ft/s)	5.65	Avg. Vel. (ft/s)	1.97	6.90
1.78				
Max Chl Dpth (ft)	4.84	Hydr. Depth (ft)	1.35	3.85
1.43				
Conv. Total (cfs)	8857.9	Conv. (cfs)	320.0	8138.8
399.2				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	7.23	18.07
9.27				

Min Ch El (ft)	low_littledominguez.rep			
0.27	4803.04	Shear (lb/sq ft)	0.25	0.73
Alpha	1.38	Stream Power (lb/ft s)	0.50	5.06
0.48				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.28	0.11
0.09				
C & E Loss (ft)	0.00	Cum SA (acres)	0.28	0.03
0.20				

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 11.625*

INPUT

Description:

Station	Elevation	Data	num=	48
Sta	Elev	Sta	Elev	Sta
0	4808.31	.99	4805.64	1.02
74.88	4806.8	110.29	4806.8	111.1
132.7	4806.85	133.19	4806.55	137.59
142.2	4804.03	143.93	4803.9	143.98
147.14	4803.02	147.78	4803.17	148.3
149.85	4803.55	150.95	4803.68	151.07
156.2	4805.8	158.98	4806.92	164.91
175.31	4807.29	218.66	4807.7	234.5
311.79	4807.55	315.33	4807.86	322.53
331.69	4809.19	332.6	4809.26	336.56

Manning's n Values	num=	3
Sta	n Val	Sta
0	.05	137.59
		.028
		153.85
		.061

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
137.59	153.85	4.73	4.63	4.64		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0129.8625			F
164.5663	336.56		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.13	Wt. n-Val.		0.028
W.S. Elev (ft)	4803.24	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4803.27	Flow Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.031650	Area (sq ft)		0.53
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	2.99	Top Width (ft)		2.99
Vel Total (ft/s)	2.92	Avg. Vel. (ft/s)		2.92
Max Chl Dpth (ft)	0.32	Hydr. Depth (ft)		0.18

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Conv. Total (cfs)	8.8	Conv. (cfs)	8.8
Length Wtd. (ft)	4.63	Wetted Per. (ft)	3.11
Min Ch El (ft)	4802.92	Shear (lb/sq ft)	0.34
Alpha	1.00	Stream Power (lb/ft s)	0.99
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4805.07	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.63	Wt. n-Val.		0.028
W.S. Elev (ft)	4804.44	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.60	Flow Area (sq ft)		10.16
E.G. Slope (ft/ft)	0.022666	Area (sq ft)		10.16
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	13.68	Top Width (ft)		13.68
Vel Total (ft/s)	6.39	Avg. Vel. (ft/s)		6.39
Max Chl Dpth (ft)	1.52	Hydr. Depth (ft)		0.74
Conv. Total (cfs)	431.7	Conv. (cfs)		431.7
Length Wtd. (ft)	4.63	Wetted Per. (ft)		14.20
Min Ch El (ft)	4802.92	Shear (lb/sq ft)		1.01
Alpha	1.00	Stream Power (lb/ft s)		6.48
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.45	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.18	Wt. n-Val.	0.050	0.028
0.061				
W.S. Elev (ft)	4805.27	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.57	Flow Area (sq ft)	0.06	22.91
0.10				

		low_littledominguez.rep		
E.G. Slope (ft/ft)	0.018145	Area (sq ft)	0.06	22.91
0.10				
Q Total (cfs)	200.00	Flow (cfs)	0.05	199.86
0.09				
Top Width (ft)	17.39	Top Width (ft)	0.59	16.26
0.54				
Vel Total (ft/s)	8.67	Avg. Vel. (ft/s)	0.83	8.72
0.93				
Max Chl Dpth (ft)	2.35	Hydr. Depth (ft)	0.10	1.41
0.18				
Conv. Total (cfs)	1484.7	Conv. (cfs)	0.4	1483.7
0.7				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	0.62	16.99
0.65				
Min Ch El (ft)	4802.92	Shear (lb/sq ft)	0.11	1.53
0.17				
Alpha	1.01	Stream Power (lb/ft s)	0.09	13.32
0.16				
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)	0.01	0.05
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.86	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.36	Wt. n-Val.	0.050	0.028
0.061				
W.S. Elev (ft)	4805.49	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.85	Flow Area (sq ft)	0.27	26.58
0.26				
E.G. Slope (ft/ft)	0.017214	Area (sq ft)	0.27	26.58
0.26				
Q Total (cfs)	250.00	Flow (cfs)	0.36	249.34
0.31				
Top Width (ft)	18.57	Top Width (ft)	1.26	16.26
1.05				
Vel Total (ft/s)	9.22	Avg. Vel. (ft/s)	1.34	9.38
1.15				
Max Chl Dpth (ft)	2.57	Hydr. Depth (ft)	0.21	1.63
0.25				
Conv. Total (cfs)	1905.4	Conv. (cfs)	2.7	1900.4
2.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	1.33	16.99
1.22				
Min Ch El (ft)	4802.92	Shear (lb/sq ft)	0.22	1.68
0.23				
Alpha	1.03	Stream Power (lb/ft s)	0.29	15.77
0.27				
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)	0.01	0.06
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.02
0.01				

CROSS SECTION OUTPUT Profile #PF 5

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E.G. Elev (ft)	4807.56	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.70	Wt. n-Val.	0.050	0.028
0.061				
W.S. Elev (ft)	4806.86	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	4.68	48.75
4.66				
E.G. Slope (ft/ft)	0.004115	Area (sq ft)	60.95	48.75
4.79				
Q Total (cfs)	350.00	Flow (cfs)	8.28	335.11
6.60				
Top Width (ft)	140.69	Top Width (ft)	116.39	16.26
8.04				
Vel Total (ft/s)	6.02	Avg. Vel. (ft/s)	1.77	6.87
1.42				
Max Chl Dpth (ft)	3.94	Hydr. Depth (ft)	0.95	3.00
0.94				
Conv. Total (cfs)	5455.9	Conv. (cfs)	129.1	5223.8
102.9				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	5.25	16.99
5.38				
Min Ch El (ft)	4802.92	Shear (lb/sq ft)	0.23	0.74
0.22				
Alpha	1.25	Stream Power (lb/ft s)	0.41	5.07
0.32				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.07	0.08
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.14	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.55	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.68	Wt. n-Val.	0.050	0.028
0.061				
W.S. Elev (ft)	4807.86	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	11.64	65.11
15.03				
E.G. Slope (ft/ft)	0.002861	Area (sq ft)	191.17	65.11
80.16				
Q Total (cfs)	500.00	Flow (cfs)	23.56	452.54
23.90				
Top Width (ft)	315.23	Top Width (ft)	137.42	16.26
161.55				
Vel Total (ft/s)	5.45	Avg. Vel. (ft/s)	2.02	6.95
1.59				
Max Chl Dpth (ft)	4.94	Hydr. Depth (ft)	1.51	4.00
1.40				
Conv. Total (cfs)	9347.6	Conv. (cfs)	440.5	8460.3
446.8				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	8.10	16.99
11.14				
Min Ch El (ft)	4802.92	Shear (lb/sq ft)	0.26	0.68
0.24				

Alpha	low_littledominguez.rep		
0.38	1.48	Stream Power (lb/ft s)	0.52 4.76
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.26 0.10
0.08			
C & E Loss (ft)	0.00	Cum SA (acres)	0.27 0.02
0.19			

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 11.5*

INPUT
 Description:
 Station Elevation Data num= 48

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.25	.98	4805.62	1.02	4805.57	56.02	4806.32	63.91	4806.53
74.52	4806.71	109.76	4806.71	110.57	4806.74	124.35	4807.46	130.49	4807
132.07	4806.45	132.56	4806.14	136.93	4804.92	138.54	4804.2	138.69	4804.15
141.14	4803.81	142.72	4803.63	142.76	4803.63	143.7	4803.25	144.5	4802.81
145.7	4802.89	146.31	4803.01	146.82	4803.06	147.51	4803.2	148.07	4803.33
148.3	4803.38	149.35	4803.52	149.48	4803.56	152.14	4804.76	152.92	4805.4
154.49	4805.76	157.26	4806.75	163.19	4806.99	167.21	4806.9	172.32	4807.31
173.58	4807.37	216.89	4807.7	232.72	4807.7	238.99	4807.67	304.1	4807.07
309.94	4807.45	313.48	4807.7	320.67	4807.93	323.34	4808.51	323.48	4808.53
329.82	4809.15	330.73	4809.24	334.69	4809.67				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	136.93	.027	152.14	.065

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
136.93	152.14	4.73	4.63	4.64		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	128.28		F
164.715	334.69		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.24	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.11	Wt. n-Val.		0.027
W.S. Elev (ft)	4803.13	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4803.14	Flow Area (sq ft)		0.59
E.G. Slope (ft/ft)	0.022727	Area (sq ft)		0.59
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	3.24	Top Width (ft)		3.24
Vel Total (ft/s)	2.62	Avg. Vel. (ft/s)		2.62
Max Chl Dpth (ft)	0.32	Hydr. Depth (ft)		0.18
Conv. Total (cfs)	10.3	Conv. (cfs)		10.3

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Length Wtd. (ft)	4.63	Wetted Per. (ft)	3.34
Min Ch El (ft)	4802.81	Shear (lb/sq ft)	0.25
Alpha	1.00	Stream Power (lb/ft s)	0.66
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.01	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.67	Wt. n-Val.		0.027
W.S. Elev (ft)	4804.29	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.47	Flow Area (sq ft)		9.92
E.G. Slope (ft/ft)	0.020885	Area (sq ft)		9.92
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	12.78	Top Width (ft)		12.78
Vel Total (ft/s)	6.56	Avg. Vel. (ft/s)		6.56
Max Chl Dpth (ft)	1.48	Hydr. Depth (ft)		0.78
Conv. Total (cfs)	449.8	Conv. (cfs)		449.8
Length Wtd. (ft)	4.63	Wetted Per. (ft)		13.25
Min Ch El (ft)	4802.81	Shear (lb/sq ft)		0.98
Alpha	1.00	Stream Power (lb/ft s)		6.40
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.18	Wt. n-Val.	0.050	0.027
0.065				
W.S. Elev (ft)	4805.19	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.48	Flow Area (sq ft)	0.13	22.89
0.11				
E.G. Slope (ft/ft)	0.015501	Area (sq ft)	0.13	22.89
0.11				

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Q Total (cfs)	200.00	Flow (cfs)	0.13 199.78
0.10			
Top Width (ft)	16.71	Top Width (ft)	0.97 15.21
0.53			
Vel Total (ft/s)	8.65	Avg. Vel. (ft/s)	0.95 8.73
0.86			
Max Chl Dpth (ft)	2.38	Hydr. Depth (ft)	0.14 1.50
0.22			
Conv. Total (cfs)	1606.4	Conv. (cfs)	1.0 1604.6
0.8			
Length Wtd. (ft)	4.63	Wetted Per. (ft)	1.01 15.92
0.68			
Min Ch El (ft)	4802.81	Shear (lb/sq ft)	0.13 1.39
0.16			
Alpha	1.02	Stream Power (lb/ft s)	0.12 12.15
0.14			
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.01 0.05
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.02
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.79	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.35	Wt. n-Val.	0.050	0.027
0.065				
W.S. Elev (ft)	4805.44	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.76	Flow Area (sq ft)	0.48	26.67
0.28				
E.G. Slope (ft/ft)	0.014468	Area (sq ft)	0.48	26.67
0.28				
Q Total (cfs)	250.00	Flow (cfs)	0.69	249.01
0.30				
Top Width (ft)	18.03	Top Width (ft)	1.86	15.21
0.95				
Vel Total (ft/s)	9.11	Avg. Vel. (ft/s)	1.42	9.34
1.06				
Max Chl Dpth (ft)	2.63	Hydr. Depth (ft)	0.26	1.75
0.30				
Conv. Total (cfs)	2078.5	Conv. (cfs)	5.7	2070.2
2.5				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	1.93	15.92
1.19				
Min Ch El (ft)	4802.81	Shear (lb/sq ft)	0.23	1.51
0.22				
Alpha	1.05	Stream Power (lb/ft s)	0.32	14.13
0.23				
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.01	0.06
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.02
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.53	Element	Left OB	Channel
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Right OB				
Vel Head (ft)	0.74	Wt. n-Val.	0.050	0.027
0.065				
W.S. Elev (ft)	4806.79	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	5.93	47.23
4.75				
E.G. Slope (ft/ft)	0.003870	Area (sq ft)	60.52	47.23
4.75				
Q Total (cfs)	350.00	Flow (cfs)	10.68	333.90
5.42				
Top Width (ft)	138.23	Top Width (ft)	116.86	15.21
6.16				
Vel Total (ft/s)	6.04	Avg. Vel. (ft/s)	1.80	7.07
1.14				
Max Chl Dpth (ft)	3.98	Hydr. Depth (ft)	1.01	3.11
0.77				
Conv. Total (cfs)	5626.5	Conv. (cfs)	171.7	5367.7
87.2				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	6.16	15.92
6.60				
Min Ch El (ft)	4802.81	Shear (lb/sq ft)	0.23	0.72
0.17				
Alpha	1.31	Stream Power (lb/ft s)	0.42	5.07
0.20				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.06	0.08
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.13	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.70	Wt. n-Val.	0.050	0.027
0.065				
W.S. Elev (ft)	4807.83	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	14.20	63.01
17.03				
E.G. Slope (ft/ft)	0.002648	Area (sq ft)	195.21	63.01
73.73				
Q Total (cfs)	500.00	Flow (cfs)	29.41	446.62
23.97				
Top Width (ft)	317.37	Top Width (ft)	136.77	15.21
165.39				
Vel Total (ft/s)	5.31	Avg. Vel. (ft/s)	2.07	7.09
1.41				
Max Chl Dpth (ft)	5.02	Hydr. Depth (ft)	1.64	4.14
1.35				
Conv. Total (cfs)	9715.9	Conv. (cfs)	571.4	8678.6
465.8				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	9.01	15.92
13.02				
Min Ch El (ft)	4802.81	Shear (lb/sq ft)	0.26	0.65
0.22				
Alpha	1.61	Stream Power (lb/ft s)	0.54	4.64
0.30				

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Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.24
0.07			0.09
C & E Loss (ft)	0.00	Cum SA (acres)	0.25
0.17			0.02

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 11.375*

INPUT

Description:

Station	Elevation	Data	num=	48					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.19	.98	4805.59	1.01	4805.52	55.75	4806.31	63.6	4806.49
74.17	4806.63	109.24	4806.63	110.04	4806.66	123.75	4807.41	129.86	4806.75
131.43	4806.05	131.92	4805.72	136.27	4804.77	137.73	4804.08	137.86	4804.02
140.07	4803.59	141.51	4803.36	141.55	4803.36	142.39	4803.05	143.12	4802.69
144.27	4802.76	144.85	4802.86	145.33	4802.9	146	4803.04	146.54	4803.16
146.76	4803.21	147.76	4803.37	147.88	4803.41	150.43	4804.62	151.21	4805.37
152.78	4805.71	155.55	4806.58	161.47	4807.04	165.48	4807.02	170.59	4807.4
171.85	4807.45	215.13	4807.7	230.94	4807.7	237.2	4807.67	302.25	4807.07
308.09	4807.35	311.62	4807.53	318.81	4807.71	321.48	4808.39	321.62	4808.41
327.95	4809.12	328.87	4809.21	332.82	4809.67				

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	136.27	.027
		150.43	.069

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	136.27	150.43		4.73	4.63		.1	.3
Ineffective Flow			num=	2				
Sta L	Sta R	Elev	Permanent					
0	126.6975		F					
164.8638	332.82		F					

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4803.11	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.13	Wt. n-Val.		0.027
W.S. Elev (ft)	4802.98	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4803.00	Flow Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.031487	Area (sq ft)		0.53
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	3.16	Top Width (ft)		3.16
Vel Total (ft/s)	2.92	Avg. Vel. (ft/s)		2.92
Max Chl Dpth (ft)	0.29	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	8.8	Conv. (cfs)		8.8
Length Wtd. (ft)	4.63	Wetted Per. (ft)		3.25

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Min Ch El (ft)	4802.69	Shear (lb/sq ft)	0.32
Alpha	1.00	Stream Power (lb/ft s)	0.94
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.86	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.70	Wt. n-Val.		0.027
W.S. Elev (ft)	4804.15	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.32	Flow Area (sq ft)		9.65
E.G. Slope (ft/ft)	0.020769	Area (sq ft)		9.65
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	11.86	Top Width (ft)		11.86
Vel Total (ft/s)	6.74	Avg. Vel. (ft/s)		6.74
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.81
Conv. Total (cfs)	451.0	Conv. (cfs)		451.0
Length Wtd. (ft)	4.63	Wetted Per. (ft)		12.32
Min Ch El (ft)	4802.69	Shear (lb/sq ft)		1.02
Alpha	1.00	Stream Power (lb/ft s)		6.84
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.18	Wt. n-Val.	0.050	0.027
0.069				
W.S. Elev (ft)	4805.13	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.38	Flow Area (sq ft)	0.30	22.91
0.14				
E.G. Slope (ft/ft)	0.014062	Area (sq ft)	0.30	22.91
0.14				
Q Total (cfs)	200.00	Flow (cfs)	0.33	199.55
0.11				

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Top Width (ft)	16.35	Top Width (ft)	1.66 14.16
0.53			
Vel Total (ft/s)	8.56	Avg. Vel. (ft/s)	1.11 8.71
0.83			
Max Chl Dpth (ft)	2.44	Hydr. Depth (ft)	0.18 1.62
0.26			
Conv. Total (cfs)	1686.5	Conv. (cfs)	2.8 1682.8
1.0			
Length Wtd. (ft)	4.63	Wetted Per. (ft)	1.70 14.86
0.74			
Min Ch El (ft)	4802.69	Shear (lb/sq ft)	0.16 1.35
0.16			
Alpha	1.03	Stream Power (lb/ft s)	0.17 11.79
0.13			
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.01 0.05
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.02
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.71	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.75	Wt. n-Val.	0.050	0.027
0.069				
W.S. Elev (ft)	4805.97	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.69	Flow Area (sq ft)	3.18	34.70
1.53				
E.G. Slope (ft/ft)	0.005249	Area (sq ft)	10.09	34.70
1.53				
Q Total (cfs)	250.00	Flow (cfs)	5.13	243.51
1.36				
Top Width (ft)	53.06	Top Width (ft)	35.74	14.16
3.16				
Vel Total (ft/s)	6.34	Avg. Vel. (ft/s)	1.61	7.02
0.89				
Max Chl Dpth (ft)	3.28	Hydr. Depth (ft)	0.67	2.45
0.48				
Conv. Total (cfs)	3450.6	Conv. (cfs)	70.8	3360.9
18.8				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	4.89	14.86
3.54				
Min Ch El (ft)	4802.69	Shear (lb/sq ft)	0.21	0.77
0.14				
Alpha	1.19	Stream Power (lb/ft s)	0.34	5.37
0.13				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.06
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.02
0.01				

Warning: Divided flow computed for this cross-section.

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 5

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E.G. Elev (ft)	4807.51	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.050	0.027
0.069				
W.S. Elev (ft)	4806.75	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	7.54	45.86
5.16				
E.G. Slope (ft/ft)	0.003806	Area (sq ft)	63.04	45.86
5.16				
Q Total (cfs)	350.00	Flow (cfs)	14.82	329.99
5.18				
Top Width (ft)	139.16	Top Width (ft)	117.65	14.16
7.35				
Vel Total (ft/s)	5.98	Avg. Vel. (ft/s)	1.97	7.20
1.01				
Max Chl Dpth (ft)	4.06	Hydr. Depth (ft)	1.17	3.24
0.70				
Conv. Total (cfs)	5673.4	Conv. (cfs)	240.3	5349.1
84.0				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	6.79	14.86
7.83				
Min Ch El (ft)	4802.69	Shear (lb/sq ft)	0.26	0.73
0.16				
Alpha	1.37	Stream Power (lb/ft s)	0.52	5.27
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.05	0.07
0.02				
C & E Loss (ft)	0.01	Cum SA (acres)	0.12	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.52	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.72	Wt. n-Val.	0.050	0.027
0.069				
W.S. Elev (ft)	4807.80	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	17.01	60.65
18.76				
E.G. Slope (ft/ft)	0.002648	Area (sq ft)	199.07	60.65
68.43				
Q Total (cfs)	500.00	Flow (cfs)	37.21	438.58
24.21				
Top Width (ft)	319.01	Top Width (ft)	136.12	14.16
168.73				
Vel Total (ft/s)	5.19	Avg. Vel. (ft/s)	2.19	7.23
1.29				
Max Chl Dpth (ft)	5.11	Hydr. Depth (ft)	1.78	4.28
1.30				
Conv. Total (cfs)	9716.5	Conv. (cfs)	723.1	8523.0
470.5				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	9.94	14.86
14.92				
Min Ch El (ft)	4802.69	Shear (lb/sq ft)	0.28	0.67
0.21				

Alpha	low_littledominguez.rep		
0.27	1.72	Stream Power (lb/ft s)	0.62 4.88
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.22 0.09
0.07			
C & E Loss (ft)	0.01	Cum SA (acres)	0.24 0.02
0.15			

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 11.25*

INPUT
 Description:
 Station Elevation Data num= 48

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.12	.97	4805.56	1.01	4805.48	55.48	4806.29	63.3	4806.46
73.81	4806.55	108.71	4806.55	109.5	4806.59	123.15	4807.35	129.23	4806.51
130.79	4805.65	131.28	4805.31	135.62	4804.63	136.92	4803.95	137.03	4803.9
139.01	4803.38	140.29	4803.09	140.33	4803.09	141.08	4802.85	141.73	4802.58
142.83	4802.63	143.39	4802.7	143.85	4802.73	144.48	4802.87	145	4803
145.21	4803.05	146.17	4803.22	146.28	4803.27	148.72	4804.48	149.5	4805.34
151.07	4805.66	153.83	4806.41	159.75	4807.08	163.76	4807.15	168.87	4807.5
170.13	4807.53	213.36	4807.7	229.16	4807.7	235.41	4807.66	300.41	4807.08
306.24	4807.25	309.77	4807.37	316.96	4807.49	319.62	4808.27	319.76	4808.29
326.09	4809.08	327	4809.18	330.95	4809.67				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	135.62	.026	148.72	.072

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	135.62	148.72		4.73	4.63		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	125.115		F
165.0125	330.95		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.97	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.11	Wt. n-Val.		0.026
W.S. Elev (ft)	4802.86	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4802.88	Flow Area (sq ft)		0.58
E.G. Slope (ft/ft)	0.023205	Area (sq ft)		0.58
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	3.38	Top Width (ft)		3.38
Vel Total (ft/s)	2.67	Avg. Vel. (ft/s)		2.67
Max Chl Dpth (ft)	0.28	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	10.2	Conv. (cfs)		10.2

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Length Wtd. (ft)	4.63	Wetted Per. (ft)	3.45
Min Ch El (ft)	4802.58	Shear (lb/sq ft)	0.25
Alpha	1.00	Stream Power (lb/ft s)	0.65
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.01	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.76	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.72	Wt. n-Val.		0.026
W.S. Elev (ft)	4804.03	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.22	Flow Area (sq ft)		9.51
E.G. Slope (ft/ft)	0.018437	Area (sq ft)		9.51
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	11.04	Top Width (ft)		11.04
Vel Total (ft/s)	6.83	Avg. Vel. (ft/s)		6.83
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.86
Conv. Total (cfs)	478.7	Conv. (cfs)		478.7
Length Wtd. (ft)	4.63	Wetted Per. (ft)		11.51
Min Ch El (ft)	4802.58	Shear (lb/sq ft)		0.95
Alpha	1.00	Stream Power (lb/ft s)		6.50
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.13	Wt. n-Val.	0.050	0.026
0.072				
W.S. Elev (ft)	4805.12	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.34	Flow Area (sq ft)	0.77	23.27
0.19				
E.G. Slope (ft/ft)	0.011165	Area (sq ft)	0.77	23.27
0.19				

low_littledominguez.rep				
Q Total (cfs)	200.00	Flow (cfs)	0.95	198.91
0.15				
Top Width (ft)	16.82	Top Width (ft)	3.14	13.10
0.58				
Vel Total (ft/s)	8.25	Avg. Vel. (ft/s)	1.22	8.55
0.78				
Max Chl Dpth (ft)	2.54	Hydr. Depth (ft)	0.25	1.78
0.32				
Conv. Total (cfs)	1892.8	Conv. (cfs)	8.9	1882.5
1.4				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	3.18	13.82
0.87				
Min Ch El (ft)	4802.58	Shear (lb/sq ft)	0.17	1.17
0.15				
Alpha	1.07	Stream Power (lb/ft s)	0.21	10.03
0.12				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.01	0.05
0.00				
C & E Loss (ft)	0.09	Cum SA (acres)	0.01	0.02
0.00				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.79	Wt. n-Val.	0.050	0.026
0.072				
W.S. Elev (ft)	4805.88	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	4.21	33.25
1.45				
E.G. Slope (ft/ft)	0.005009	Area (sq ft)	9.71	33.25
1.45				
Q Total (cfs)	250.00	Flow (cfs)	7.44	241.41
1.16				
Top Width (ft)	48.81	Top Width (ft)	32.54	13.10
3.17				
Vel Total (ft/s)	6.43	Avg. Vel. (ft/s)	1.77	7.26
0.80				
Max Chl Dpth (ft)	3.30	Hydr. Depth (ft)	0.80	2.54
0.46				
Conv. Total (cfs)	3532.2	Conv. (cfs)	105.1	3410.8
16.3				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	5.47	13.82
3.61				
Min Ch El (ft)	4802.58	Shear (lb/sq ft)	0.24	0.75
0.13				
Alpha	1.24	Stream Power (lb/ft s)	0.42	5.46
0.10				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.05
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.02
0.01				

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Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.49	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.83	Wt. n-Val.	0.050	0.026
0.072				
W.S. Elev (ft)	4806.65	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	8.84	43.31
5.12				
E.G. Slope (ft/ft)	0.003817	Area (sq ft)	58.19	43.31
5.12				
Q Total (cfs)	350.00	Flow (cfs)	17.62	327.43
4.95				
Top Width (ft)	137.80	Top Width (ft)	117.46	13.10
7.24				
Vel Total (ft/s)	6.11	Avg. Vel. (ft/s)	1.99	7.56
0.97				
Max Chl Dpth (ft)	4.07	Hydr. Depth (ft)	1.19	3.31
0.71				
Conv. Total (cfs)	5664.9	Conv. (cfs)	285.2	5299.6
80.1				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	7.80	13.82
7.77				
Min Ch El (ft)	4802.58	Shear (lb/sq ft)	0.27	0.75
0.16				
Alpha	1.44	Stream Power (lb/ft s)	0.54	5.65
0.15				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.05	0.07
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.10	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.49	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.80	Wt. n-Val.	0.050	0.026
0.072				
W.S. Elev (ft)	4807.70	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	19.15	56.99
18.79				
E.G. Slope (ft/ft)	0.002702	Area (sq ft)	193.32	56.99
51.49				
Q Total (cfs)	500.00	Flow (cfs)	43.00	435.32
21.68				
Top Width (ft)	299.90	Top Width (ft)	135.46	13.10
151.34				
Vel Total (ft/s)	5.27	Avg. Vel. (ft/s)	2.25	7.64
1.15				
Max Chl Dpth (ft)	5.12	Hydr. Depth (ft)	1.82	4.35
1.15				
Conv. Total (cfs)	9618.8	Conv. (cfs)	827.1	8374.6

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417.1				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	10.92	13.82
16.85				
Min Ch El (ft)	4802.58	Shear (lb/sq ft)	0.30	0.70
0.19				
Alpha	1.85	Stream Power (lb/ft s)	0.66	5.31
0.22				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.20	0.08
0.06				
C & E Loss (ft)	0.01	Cum SA (acres)	0.22	0.02
0.13				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 11.125*

INPUT

Description:

Station Elevation Data		num=	48						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808.06	.97	4805.53	1	4805.44	55.21	4806.28	62.99	4806.42
73.45	4806.47	108.18	4806.47	108.97	4806.51	122.55	4807.3	128.6	4806.26
130.16	4805.24	130.64	4804.89	134.96	4804.48	136.1	4803.82	136.2	4803.78
137.95	4803.16	139.08	4802.82	139.11	4802.82	139.78	4802.65	140.35	4802.47
141.4	4802.5	141.93	4802.54	142.37	4802.56	142.97	4802.71	143.46	4802.83
143.66	4802.88	144.58	4803.07	144.69	4803.12	147.01	4804.34	147.79	4805.31
149.35	4805.61	152.12	4806.25	158.03	4807.13	162.04	4807.28	167.14	4807.6
168.4	4807.62	211.59	4807.7	227.38	4807.7	233.63	4807.65	298.57	4807.09
304.4	4807.14	307.92	4807.21	315.1	4807.27	317.76	4808.15	317.9	4808.17
324.22	4809.05	325.14	4809.16	329.08	4809.67				

Manning's n Values

num=		3
Sta	n Val	Sta
0	.05	134.96
		.026
		147.01
		.076

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
134.96	147.01	4.73	4.63	4.64		.1	.3

Ineffective Flow	num=	2
Sta L	Sta R	Elev
0	123.5325	F
165.1613	329.08	F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.84	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.13	Wt. n-Val.		0.026
W.S. Elev (ft)	4802.71	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4802.74	Flow Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.031384	Area (sq ft)		0.53
Q Total (cfs)	1.56	Flow (cfs)		1.56

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Top Width (ft)	3.40	Top Width (ft)	3.40
Vel Total (ft/s)	2.92	Avg. Vel. (ft/s)	2.92
Max Chl Dpth (ft)	0.24	Hydr. Depth (ft)	0.16
Conv. Total (cfs)	8.8	Conv. (cfs)	8.8
Length Wtd. (ft)	4.63	Wetted Per. (ft)	3.46
Min Ch El (ft)	4802.47	Shear (lb/sq ft)	0.30
Alpha	1.00	Stream Power (lb/ft s)	0.88
Frctn Loss (ft)	0.12	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.66	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.75	Wt. n-Val.		0.026
W.S. Elev (ft)	4803.91	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4804.08	Flow Area (sq ft)		9.37
E.G. Slope (ft/ft)	0.017750	Area (sq ft)		9.37
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	10.26	Top Width (ft)		10.26
Vel Total (ft/s)	6.94	Avg. Vel. (ft/s)		6.94
Max Chl Dpth (ft)	1.44	Hydr. Depth (ft)		0.91
Conv. Total (cfs)	487.9	Conv. (cfs)		487.9
Length Wtd. (ft)	4.63	Wetted Per. (ft)		10.77
Min Ch El (ft)	4802.47	Shear (lb/sq ft)		0.96
Alpha	1.00	Stream Power (lb/ft s)		6.69
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.20	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.050	0.026

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0.076				
W.S. Elev (ft)	4805.42	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)	4805.28	Flow Area (sq ft)	3.36	27.05
0.49				
E.G. Slope (ft/ft)	0.005815	Area (sq ft)	3.36	27.05
0.49				
Q Total (cfs)	200.00	Flow (cfs)	5.66	194.03
0.31				
Top Width (ft)	18.47	Top Width (ft)	5.07	12.05
1.35				
Vel Total (ft/s)	6.47	Avg. Vel. (ft/s)	1.68	7.17
0.62				
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.66	2.25
0.37				
Conv. Total (cfs)	2622.8	Conv. (cfs)	74.2	2544.5
4.0				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	5.26	12.81
1.82				
Min Ch El (ft)	4802.47	Shear (lb/sq ft)	0.23	0.77
0.10				
Alpha	1.19	Stream Power (lb/ft s)	0.39	5.50
0.06				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.02
0.00				

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)		Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.85	Wt. n-Val.	0.050	0.026
0.076				
W.S. Elev (ft)	4805.79	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	5.36	31.54
1.34				
E.G. Slope (ft/ft)	0.005255	Area (sq ft)	9.37	31.54
1.34				
Q Total (cfs)	250.00	Flow (cfs)	10.78	238.24
0.98				
Top Width (ft)	43.64	Top Width (ft)	28.47	12.05
3.13				
Vel Total (ft/s)	6.54	Avg. Vel. (ft/s)	2.01	7.55
0.73				
Max Chl Dpth (ft)	3.32	Hydr. Depth (ft)	0.95	2.62
0.43				
Conv. Total (cfs)	3448.8	Conv. (cfs)	148.8	3286.5
13.5				
Length Wtd. (ft)	4.63	Wetted Per. (ft)	5.94	12.81
3.64				
Min Ch El (ft)	4802.47	Shear (lb/sq ft)	0.30	0.81
0.12				
Alpha	1.28	Stream Power (lb/ft s)	0.60	6.10
0.09				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.05

0.01	low_littledominguez.rep			
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.02
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.46	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.91	Wt. n-Val.	0.050	0.026
0.076				
W.S. Elev (ft)	4806.55	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	10.23	40.63
5.04				
E.G. Slope (ft/ft)	0.004153	Area (sq ft)	52.91	40.63
5.04				
Q Total (cfs)	350.00	Flow (cfs)	22.19	323.02
4.79				
Top Width (ft)	136.18	Top Width (ft)	117.04	12.05
7.10				
Vel Total (ft/s)	6.26	Avg. Vel. (ft/s)	2.17	7.95
0.95				
Max Chl Dpth (ft)	4.08	Hydr. Depth (ft)	1.27	3.37
0.71				
Conv. Total (cfs)	5430.9	Conv. (cfs)	344.3	5012.3
74.3				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	8.49	12.81
7.69				
Min Ch El (ft)	4802.47	Shear (lb/sq ft)	0.31	0.82
0.17				
Alpha	1.50	Stream Power (lb/ft s)	0.68	6.54
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.06
0.01				
C & E Loss (ft)	0.04	Cum SA (acres)	0.09	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.47	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.90	Wt. n-Val.	0.050	0.026
0.076				
W.S. Elev (ft)	4807.57	Reach Len. (ft)	4.73	4.63
4.64				
Crit W.S. (ft)		Flow Area (sq ft)	20.95	52.98
17.26				
E.G. Slope (ft/ft)	0.003069	Area (sq ft)	184.30	52.98
37.30				
Q Total (cfs)	500.00	Flow (cfs)	50.17	432.18
17.66				
Top Width (ft)	239.69	Top Width (ft)	134.77	12.05
92.87				

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Vel Total (ft/s)	5.48	Avg. Vel. (ft/s)	2.40	8.16
1.02				
Max Chl Dpth (ft)	5.10	Hydr. Depth (ft)	1.83	4.40
0.95				
Conv. Total (cfs)	9025.0	Conv. (cfs)	905.5	7800.7
318.7				
Length Wtd. (ft)	4.64	Wetted Per. (ft)	11.94	12.81
18.79				
Min Ch El (ft)	4802.47	Shear (lb/sq ft)	0.34	0.79
0.18				
Alpha	1.93	Stream Power (lb/ft s)	0.81	6.46
0.18				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.18	0.07
0.06				
C & E Loss (ft)	0.06	Cum SA (acres)	0.21	0.02
0.12				

Warning: Divided flow computed for this cross-section.
Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 11

INPUT
Description: cross section V
Station Elevation Data num= 25

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808	14805.402	62.684806.386	107.654806.386	121.95	4807.24			
127.9744806.018	130.0024804.479	134.2964804.334	135.2894803.693	136.89	4802.94				
137.8674802.556	138.9674802.351	140.8864802.395	141.9284802.667	142.994802.918					
145.2984804.197	146.0754805.277	156.314807.176	165.414807.698	225.5984807.698					
302.5474807.042	313.244807.042	315.8964808.026	322.358	4809.01	327.212	4809.67			

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	134.296	.025	145.298	.08

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	134.296	145.298		3.06	3.72		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	121.95		F
165.31	327.212		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.69	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.12	Wt. n-Val.		0.025
W.S. Elev (ft)	4802.57	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4802.60	Flow Area (sq ft)		0.56
E.G. Slope (ft/ft)	0.027979	Area (sq ft)		0.56

Q Total (cfs)	1.56	low_littledominguez.rep Flow (cfs)	1.56
Top Width (ft)	3.71	Top Width (ft)	3.71
Vel Total (ft/s)	2.79	Avg. Vel. (ft/s)	2.79
Max Chl Dpth (ft)	0.22	Hydr. Depth (ft)	0.15
Conv. Total (cfs)	9.3	Conv. (cfs)	9.3
Length Wtd. (ft)	3.72	Wetted Per. (ft)	3.76
Min Ch El (ft)	4802.35	Shear (lb/sq ft)	0.26
Alpha	1.00	Stream Power (lb/ft s)	0.72
Frctn Loss (ft)	0.14	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.58	Element	Left OB	Channel
Right OB Vel Head (ft)	0.77	Wt. n-Val.		0.025
W.S. Elev (ft)	4803.81	Reach Len. (ft)	3.06	3.72
3.50 Crit W.S. (ft)	4804.01	Flow Area (sq ft)		9.21
E.G. Slope (ft/ft)	0.015896	Area (sq ft)		9.21
Q Total (cfs)	65.00	Flow (cfs)		65.00
Top Width (ft)	9.49	Top Width (ft)		9.49
Vel Total (ft/s)	7.06	Avg. Vel. (ft/s)		7.06
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.97
Conv. Total (cfs)	515.6	Conv. (cfs)		515.6
Length Wtd. (ft)	3.72	Wetted Per. (ft)		10.08
Min Ch El (ft)	4802.35	Shear (lb/sq ft)		0.91
Alpha	1.00	Stream Power (lb/ft s)		6.40
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.00	0.02
0.00 C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.16	Element	Left OB	Channel
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Right OB				
Vel Head (ft)	0.86	Wt. n-Val.	0.050	0.025
0.080				
W.S. Elev (ft)	4805.30	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4805.23	Flow Area (sq ft)	4.29	25.29
0.44				
E.G. Slope (ft/ft)	0.005908	Area (sq ft)	4.29	25.29
0.44				
Q Total (cfs)	200.00	Flow (cfs)	8.16	191.56
0.28				
Top Width (ft)	17.29	Top Width (ft)	5.38	11.00
0.91				
Vel Total (ft/s)	6.66	Avg. Vel. (ft/s)	1.90	7.57
0.64				
Max Chl Dpth (ft)	2.95	Hydr. Depth (ft)	0.80	2.30
0.48				
Conv. Total (cfs)	2601.9	Conv. (cfs)	106.1	2492.1
3.7				
Length Wtd. (ft)	3.69	Wetted Per. (ft)	5.66	11.85
1.47				
Min Ch El (ft)	4802.35	Shear (lb/sq ft)	0.28	0.79
0.11				
Alpha	1.24	Stream Power (lb/ft s)	0.53	5.96
0.07				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.61	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.00	Wt. n-Val.	0.050	0.025
0.080				
W.S. Elev (ft)	4805.60	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4805.53	Flow Area (sq ft)	5.98	28.61
0.96				
E.G. Slope (ft/ft)	0.005942	Area (sq ft)	7.26	28.61
0.96				
Q Total (cfs)	250.00	Flow (cfs)	13.42	235.95
0.63				
Top Width (ft)	32.06	Top Width (ft)	18.52	11.00
2.54				
Vel Total (ft/s)	7.03	Avg. Vel. (ft/s)	2.25	8.25
0.65				
Max Chl Dpth (ft)	3.25	Hydr. Depth (ft)	1.03	2.60
0.38				
Conv. Total (cfs)	3243.2	Conv. (cfs)	174.1	3060.9
8.2				
Length Wtd. (ft)	3.68	Wetted Per. (ft)	6.16	11.85
3.12				
Min Ch El (ft)	4802.35	Shear (lb/sq ft)	0.36	0.90
0.11				
Alpha	1.30	Stream Power (lb/ft s)	0.81	7.39
0.07				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.05
0.01				

C & E Loss (ft)	low_littledominguez.rep		
0.01	0.02	Cum SA (acres)	0.01 0.02

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.29	Wt. n-Val.	0.050	0.025
0.080				
W.S. Elev (ft)	4806.11	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4806.07	Flow Area (sq ft)	9.07	34.16
2.93				
E.G. Slope (ft/ft)	0.006161	Area (sq ft)	24.81	34.16
2.93				
Q Total (cfs)	350.00	Flow (cfs)	24.47	322.85
2.68				
Top Width (ft)	67.57	Top Width (ft)	51.31	11.00
5.26				
Vel Total (ft/s)	7.58	Avg. Vel. (ft/s)	2.70	9.45
0.92				
Max Chl Dpth (ft)	3.76	Hydr. Depth (ft)	1.34	3.10
0.56				
Conv. Total (cfs)	4459.0	Conv. (cfs)	311.7	4113.1
34.2				
Length Wtd. (ft)	3.67	Wetted Per. (ft)	7.30	11.85
5.89				
Min Ch El (ft)	4802.35	Shear (lb/sq ft)	0.48	1.11
0.19				
Alpha	1.44	Stream Power (lb/ft s)	1.29	10.48
0.18				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.06
0.01				
C & E Loss (ft)	0.04	Cum SA (acres)	0.08	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4808.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.46	Wt. n-Val.	0.050	0.025
0.080				
W.S. Elev (ft)	4806.93	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4806.93	Flow Area (sq ft)	16.33	43.23
9.10				
E.G. Slope (ft/ft)	0.005312	Area (sq ft)	107.97	43.23
9.10				
Q Total (cfs)	500.00	Flow (cfs)	44.82	443.91
11.26				
Top Width (ft)	147.93	Top Width (ft)	127.23	11.00
9.70				
Vel Total (ft/s)	7.28	Avg. Vel. (ft/s)	2.75	10.27

```

                                low_littledominguez.rep
1.24
Max Chl Dpth (ft)              4.58   Hydr. Depth (ft)              1.51      3.93
0.94
Conv. Total (cfs)              6860.5   Conv. (cfs)              615.0      6090.9
154.5
Length Wtd. (ft)              3.65   Wetted Per. (ft)              11.44      11.85
10.41
Min Ch El (ft)                4802.35   Shear (lb/sq ft)              0.47      1.21
0.29
Alpha                          1.78   Stream Power (lb/ft s)              1.30      12.43
0.36
Frctn Loss (ft)              0.02   Cum Volume (acre-ft)              0.16      0.07
0.05
C & E Loss (ft)              0.01   Cum SA (acres)              0.20      0.02
0.12

```

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 10.6666*

INPUT

Description:

```

Station Elevation Data      num=      47
Sta      Elev      Sta      Elev      Sta      Elev      Sta      Elev      Sta      Elev
0      4808      .99 4805.53      1.02 4805.51      62.01 4806.39      62.1 4806.39
106.65 4806.39 109.12 4806.49      114.4 4807.05      120.81 4807.04      124.04 4806.46
126.78 4805.73 128.29 4804.77      128.79 4804.49      133.04 4804.21      134.01 4803.65
134.55 4803.4 135.29 4802.97      135.56 4802.83      136.32 4802.49      136.51 4802.44
137.58 4802.26 139.05 4802.33      139.46 4802.36      140.02 4802.49      140.49 4802.58
140.74 4802.63 141.36 4802.86      141.53 4802.92      142.42 4803.45      143.8 4804.09
144.59 4804.93 147.13 4805.64      152.78 4806.83      155.11 4807.12      164.47 4807.47
174.03 4807.48 226.33 4807.67      234.77 4807.65      246.46 4807.59      299.62 4807.07
305.41 4806.95 313.15 4806.82      316.4 4807.07      319.13 4807.93      321.8 4808.4
325.78 4808.99 330.76 4809.67

```

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Manning's n Values      num=      3
Sta      n Val      Sta      n Val      Sta      n Val
0      .05 133.04      .028 143.8      .07

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Bank Sta: Left      Right      Lengths: Left Channel      Right      Coeff Contr.      Expan.
      133.04      143.8      3.06      3.72      3.5      .1      .3
Ineffective Flow      num=      2
Sta L      Sta R      Elev Permanent
0118.7133      F
189.1 330.76      F

```

CROSS SECTION OUTPUT Profile #PF 1

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E.G. Elev (ft)	4802.61	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.07	Wt. n-Val.		0.028
W.S. Elev (ft)	4802.54	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4802.53	Flow Area (sq ft)		0.74
E.G. Slope (ft/ft)	0.015687	Area (sq ft)		0.74
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.09	Top Width (ft)		4.09
Vel Total (ft/s)	2.11	Avg. Vel. (ft/s)		2.11
Max Chl Dpth (ft)	0.28	Hydr. Depth (ft)		0.18
Conv. Total (cfs)	12.4	Conv. (cfs)		12.4
Length Wtd. (ft)	3.72	Wetted Per. (ft)		4.14
Min Ch El (ft)	4802.26	Shear (lb/sq ft)		0.17
Alpha	1.00	Stream Power (lb/ft s)		0.37
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.01	Cum SA (acres)		0.01

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.54	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.38	Wt. n-Val.		0.028
0.000				
W.S. Elev (ft)	4804.17	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4803.96	Flow Area (sq ft)		13.19
0.00				
E.G. Slope (ft/ft)	0.007171	Area (sq ft)		13.19
0.00				
Q Total (cfs)	65.00	Flow (cfs)		65.00
0.00				
Top Width (ft)	10.75	Top Width (ft)		10.68
0.07				
Vel Total (ft/s)	4.93	Avg. Vel. (ft/s)		4.93
0.16				
Max Chl Dpth (ft)	1.91	Hydr. Depth (ft)		1.23
0.04				
Conv. Total (cfs)	767.6	Conv. (cfs)		767.6
0.0				
Length Wtd. (ft)	3.72	Wetted Per. (ft)		11.49
0.10				
Min Ch El (ft)	4802.26	Shear (lb/sq ft)		0.51

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Alpha	1.00	Stream Power (lb/ft s)		2.53
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.12	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.83	Wt. n-Val.	0.050	0.028
0.070				
W.S. Elev (ft)	4805.29	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4805.20	Flow Area (sq ft)	4.53	25.29
0.85				
E.G. Slope (ft/ft)	0.007048	Area (sq ft)	4.53	25.29
0.85				
Q Total (cfs)	200.00	Flow (cfs)	9.60	189.66
0.74				
Top Width (ft)	18.40	Top Width (ft)	5.57	10.76
2.08				
Vel Total (ft/s)	6.52	Avg. Vel. (ft/s)	2.12	7.50
0.87				
Max Chl Dpth (ft)	3.03	Hydr. Depth (ft)	0.81	2.35
0.41				
Conv. Total (cfs)	2382.3	Conv. (cfs)	114.4	2259.2
8.8				
Length Wtd. (ft)	3.68	Wetted Per. (ft)	5.80	11.58
2.49				
Min Ch El (ft)	4802.26	Shear (lb/sq ft)	0.34	0.96
0.15				
Alpha	1.26	Stream Power (lb/ft s)	0.73	7.21
0.13				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.56	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.95	Wt. n-Val.	0.050	0.028
0.070				
W.S. Elev (ft)	4805.61	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4805.51	Flow Area (sq ft)	6.43	28.78
1.71				
E.G. Slope (ft/ft)	0.006871	Area (sq ft)	6.81	28.78
1.71				
Q Total (cfs)	250.00	Flow (cfs)	15.86	232.34

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1.80				
Top Width (ft)	27.38	Top Width (ft)	13.38	10.76
3.24				
Vel Total (ft/s)	6.77	Avg. Vel. (ft/s)	2.47	8.07
1.05				
Max Chl Dpth (ft)	3.35	Hydr. Depth (ft)	1.06	2.68
0.53				
Conv. Total (cfs)	3016.1	Conv. (cfs)	191.3	2803.0
21.7				
Length Wtd. (ft)	3.67	Wetted Per. (ft)	6.41	11.58
3.69				
Min Ch El (ft)	4802.26	Shear (lb/sq ft)	0.43	1.07
0.20				
Alpha	1.33	Stream Power (lb/ft s)	1.06	8.61
0.21				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.02
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.34	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.16	Wt. n-Val.	0.050	0.028
0.070				
W.S. Elev (ft)	4806.17	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4806.11	Flow Area (sq ft)	10.29	34.81
4.25				
E.G. Slope (ft/ft)	0.006724	Area (sq ft)	25.69	34.81
4.25				
Q Total (cfs)	350.00	Flow (cfs)	28.83	315.52
5.64				
Top Width (ft)	70.88	Top Width (ft)	54.25	10.76
5.87				
Vel Total (ft/s)	7.09	Avg. Vel. (ft/s)	2.80	9.06
1.33				
Max Chl Dpth (ft)	3.91	Hydr. Depth (ft)	1.30	3.24
0.72				
Conv. Total (cfs)	4268.3	Conv. (cfs)	351.6	3847.9
68.8				
Length Wtd. (ft)	3.65	Wetted Per. (ft)	8.35	11.58
6.38				
Min Ch El (ft)	4802.26	Shear (lb/sq ft)	0.52	1.26
0.28				
Alpha	1.49	Stream Power (lb/ft s)	1.45	11.44
0.37				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.04	0.05
0.01				
C & E Loss (ft)	0.05	Cum SA (acres)	0.08	0.02
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

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E.G. Elev (ft)	4808.29	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.42	Wt. n-Val.	0.050	0.028
0.070				
W.S. Elev (ft)	4806.88	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)	4806.85	Flow Area (sq ft)	16.92	42.34
9.53				
E.G. Slope (ft/ft)	0.006568	Area (sq ft)	97.10	42.34
9.63				
Q Total (cfs)	500.00	Flow (cfs)	51.80	432.25
15.94				
Top Width (ft)	147.66	Top Width (ft)	123.60	10.76
13.29				
Vel Total (ft/s)	7.27	Avg. Vel. (ft/s)	3.06	10.21
1.67				
Max Chl Dpth (ft)	4.61	Hydr. Depth (ft)	1.50	3.94
1.02				
Conv. Total (cfs)	6169.8	Conv. (cfs)	639.2	5333.8
196.7				
Length Wtd. (ft)	3.64	Wetted Per. (ft)	11.80	11.58
9.92				
Min Ch El (ft)	4802.26	Shear (lb/sq ft)	0.59	1.50
0.39				
Alpha	1.73	Stream Power (lb/ft s)	1.80	15.31
0.66				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.16	0.07
0.05				
C & E Loss (ft)	0.07	Cum SA (acres)	0.19	0.02
0.11				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 10.3333*

INPUT

Description:

Station Elevation Data		num= 47									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4808	.98	4805.66	1.01	4805.62	61.43	4806.39	61.51	4806.39		
105.64	4806.39	108.09	4806.44	113.32	4807.25	119.67	4806.84	122.87	4806.35		
125.59	4805.45	127.08	4804.68	127.58	4804.51	131.79	4804.1	132.73	4803.61		
133.25	4803.37	133.97	4802.87	134.23	4802.73	134.97	4802.35	135.16	4802.31		
136.19	4802.17	137.63	4802.27	138.04	4802.32	138.59	4802.43	139.05	4802.5		
139.3	4802.53	139.91	4802.84	140.07	4802.92	140.94	4803.48	142.29	4803.98		
143.11	4804.59	145.72	4805.54	151.52	4806.91	153.92	4807.06	163.52	4807.25		
173.34	4807.26	227.06	4807.64	235.72	4807.67	247.74	4807.64	302.33	4807.06		
308.28	4806.85	316.22	4806.6	319.57	4807.1	322.37	4807.84	325.11	4808.38		
329.19	4808.96	334.32	4809.67								

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	131.79	.032	142.29	.06

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
----------------	-------	-----------------------	-------	--------------	--------

	131.79	142.29		low_littledominguez.rep			
Ineffective Flow			num=	2	3.06	3.72	3.5
Sta L		Sta R	Elev	Permanent			.1
	0115.4767			F			.3
	212.89	334.32		F			

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.56	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.032
W.S. Elev (ft)	4802.52	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)		Flow Area (sq ft)		0.97
E.G. Slope (ft/ft)	0.009608	Area (sq ft)		0.97
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.55	Top Width (ft)		4.55
Vel Total (ft/s)	1.61	Avg. Vel. (ft/s)		1.61
Max Chl Dpth (ft)	0.35	Hydr. Depth (ft)		0.21
Conv. Total (cfs)	15.9	Conv. (cfs)		15.9
Length Wtd. (ft)	3.72	Wetted Per. (ft)		4.63
Min Ch El (ft)	4802.17	Shear (lb/sq ft)		0.13
Alpha	1.00	Stream Power (lb/ft s)		0.20
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.01	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.51	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.37	Wt. n-Val.	0.050	0.032
0.060				
W.S. Elev (ft)	4804.13	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)		Flow Area (sq ft)	0.01	13.23
0.02				
E.G. Slope (ft/ft)	0.009109	Area (sq ft)	0.01	13.23
0.02				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.99
0.01				
Top Width (ft)	11.05	Top Width (ft)	0.34	10.50
0.21				
Vel Total (ft/s)	4.90	Avg. Vel. (ft/s)	0.18	4.91
0.37				
Max Chl Dpth (ft)	1.96	Hydr. Depth (ft)	0.02	1.26
0.08				

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Conv. Total (cfs)	681.0	Conv. (cfs)	0.0 681.0
0.1			
Length Wtd. (ft)	3.72	Wetted Per. (ft)	0.34 11.34
0.26			
Min Ch El (ft)	4802.17	Shear (lb/sq ft)	0.01 0.66
0.03			
Alpha	1.00	Stream Power (lb/ft s)	0.00 3.26
0.01			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.02
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.08	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.79	Wt. n-Val.	0.050	0.032
0.060				
W.S. Elev (ft)	4805.29	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)		Flow Area (sq ft)	4.83	25.34
1.49				
E.G. Slope (ft/ft)	0.008601	Area (sq ft)	4.83	25.34
1.49				
Q Total (cfs)	200.00	Flow (cfs)	11.43	186.46
2.11				
Top Width (ft)	19.12	Top Width (ft)	5.88	10.50
2.73				
Vel Total (ft/s)	6.32	Avg. Vel. (ft/s)	2.37	7.36
1.42				
Max Chl Dpth (ft)	3.12	Hydr. Depth (ft)	0.82	2.41
0.54				
Conv. Total (cfs)	2156.6	Conv. (cfs)	123.2	2010.6
22.8				
Length Wtd. (ft)	3.67	Wetted Per. (ft)	6.08	11.34
3.06				
Min Ch El (ft)	4802.17	Shear (lb/sq ft)	0.43	1.20
0.26				
Alpha	1.27	Stream Power (lb/ft s)	1.01	8.83
0.37				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.51	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.87	Wt. n-Val.	0.050	0.032
0.060				
W.S. Elev (ft)	4805.64	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)		Flow Area (sq ft)	7.07	29.08
2.64				
E.G. Slope (ft/ft)	0.008041	Area (sq ft)	7.09	29.08

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2.64				
Q Total (cfs)	250.00	Flow (cfs)	18.89	226.83
4.28				
Top Width (ft)	22.92	Top Width (ft)	8.56	10.50
3.86				
Vel Total (ft/s)	6.44	Avg. Vel. (ft/s)	2.67	7.80
1.62				
Max Chl Dpth (ft)	3.47	Hydr. Depth (ft)	1.04	2.77
0.68				
Conv. Total (cfs)	2787.9	Conv. (cfs)	210.6	2529.5
47.7				
Length Wtd. (ft)	3.66	Wetted Per. (ft)	7.05	11.34
4.25				
Min Ch El (ft)	4802.17	Shear (lb/sq ft)	0.50	1.29
0.31				
Alpha	1.34	Stream Power (lb/ft s)	1.35	10.04
0.51				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.03	Cum SA (acres)	0.01	0.01
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.98	Wt. n-Val.	0.050	0.032
0.060				
W.S. Elev (ft)	4806.27	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)		Flow Area (sq ft)	11.91	35.66
5.89				
E.G. Slope (ft/ft)	0.007254	Area (sq ft)	28.53	35.66
5.89				
Q Total (cfs)	350.00	Flow (cfs)	36.24	302.64
11.12				
Top Width (ft)	76.89	Top Width (ft)	59.88	10.50
6.52				
Vel Total (ft/s)	6.55	Avg. Vel. (ft/s)	3.04	8.49
1.89				
Max Chl Dpth (ft)	4.10	Hydr. Depth (ft)	1.37	3.40
0.90				
Conv. Total (cfs)	4109.4	Conv. (cfs)	425.5	3553.4
130.5				
Length Wtd. (ft)	3.64	Wetted Per. (ft)	9.04	11.34
6.97				
Min Ch El (ft)	4802.17	Shear (lb/sq ft)	0.60	1.42
0.38				
Alpha	1.48	Stream Power (lb/ft s)	1.81	12.08
0.72				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.03	0.05
0.01				
C & E Loss (ft)	0.04	Cum SA (acres)	0.07	0.01
0.02				

Warning: Divided flow computed for this cross-section.

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CROSS SECTION OUTPUT Profile #PF 6

		Element	Left OB	Channel
E.G. Elev (ft)	4808.20			
Right OB				
Vel Head (ft)	1.19	Wt. n-Val.	0.050	0.032
0.060				
W.S. Elev (ft)	4807.00	Reach Len. (ft)	3.06	3.72
3.50				
Crit W.S. (ft)		Flow Area (sq ft)	19.96	43.36
11.87				
E.G. Slope (ft/ft)	0.007077	Area (sq ft)	110.22	43.36
14.95				
Q Total (cfs)	500.00	Flow (cfs)	60.19	414.18
25.62				
Top Width (ft)	162.14	Top Width (ft)	125.95	10.50
25.69				
Vel Total (ft/s)	6.65	Avg. Vel. (ft/s)	3.02	9.55
2.16				
Max Chl Dpth (ft)	4.83	Hydr. Depth (ft)	1.36	4.13
1.11				
Conv. Total (cfs)	5943.4	Conv. (cfs)	715.5	4923.3
304.6				
Length Wtd. (ft)	3.62	Wetted Per. (ft)	15.07	11.34
11.25				
Min Ch El (ft)	4802.17	Shear (lb/sq ft)	0.59	1.69
0.47				
Alpha	1.74	Stream Power (lb/ft s)	1.77	16.13
1.01				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.15	0.06
0.05				
C & E Loss (ft)	0.02	Cum SA (acres)	0.18	0.01
0.11				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 10

INPUT

Description: cross section U

Station Elevation Data				num=	27
Sta	Elev	Sta	Elev	Sta	Elev
0	4808	1	4805.73	60.844	4806.386
121.705	4806.23	125.869	4804.585	130.536	4803.977
133.617	4802.213	134.806	4802.081	136.224	4802.207
138.448	4802.815	139.465	4803.508	140.794	4803.869
172.656	4807.042	236.684	4807.698	305.044	4807.042
328.423	4808.354	337.87	4809.67		

Manning's n Values				num=	3
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	130.536	.035	140.79	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	130.536	140.79		5.03	4.87	.1	.3
Ineffective Flow			num=	2			

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Sta L	Sta R	Elev	Permanent
0	112.24		F
236.68	337.87		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.035
W.S. Elev (ft)	4802.50	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.28
E.G. Slope (ft/ft)	0.005029	Area (sq ft)		1.28
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.85	Top Width (ft)		4.85
Vel Total (ft/s)	1.22	Avg. Vel. (ft/s)		1.22
Max Chl Dpth (ft)	0.42	Hydr. Depth (ft)		0.26
Conv. Total (cfs)	22.0	Conv. (cfs)		22.0
Length Wtd. (ft)	4.87	Wetted Per. (ft)		4.98
Min Ch El (ft)	4802.08	Shear (lb/sq ft)		0.08
Alpha	1.00	Stream Power (lb/ft s)		0.10
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.47	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.38	Wt. n-Val.	0.050	0.035
0.050				
W.S. Elev (ft)	4804.08	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.04	13.07
0.05				
E.G. Slope (ft/ft)	0.011070	Area (sq ft)	0.04	13.07
0.05				
Q Total (cfs)	65.00	Flow (cfs)	0.02	64.95
0.03				
Top Width (ft)	11.54	Top Width (ft)	0.81	10.25
0.48				
Vel Total (ft/s)	4.94	Avg. Vel. (ft/s)	0.44	4.97
0.66				
Max Chl Dpth (ft)	2.00	Hydr. Depth (ft)	0.05	1.28
0.11				
Conv. Total (cfs)	617.8	Conv. (cfs)	0.2	617.3
0.3				

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Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.82 11.15
0.52			
Min Ch El (ft)	4802.08	Shear (lb/sq ft)	0.04 0.81
0.07			
Alpha	1.01	Stream Power (lb/ft s)	0.02 4.03
0.04			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00 0.02
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4806.02	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.71	Wt. n-Val.	0.050	0.035
0.050				
W.S. Elev (ft)	4805.31	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	5.48	25.69
2.33				
E.G. Slope (ft/ft)	0.009092	Area (sq ft)	5.48	25.69
2.33				
Q Total (cfs)	200.00	Flow (cfs)	13.62	181.40
4.99				
Top Width (ft)	19.98	Top Width (ft)	6.51	10.25
3.22				
Vel Total (ft/s)	5.97	Avg. Vel. (ft/s)	2.48	7.06
2.15				
Max Chl Dpth (ft)	3.23	Hydr. Depth (ft)	0.84	2.51
0.72				
Conv. Total (cfs)	2097.5	Conv. (cfs)	142.8	1902.4
52.3				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	6.69	11.15
3.53				
Min Ch El (ft)	4802.08	Shear (lb/sq ft)	0.47	1.31
0.37				
Alpha	1.28	Stream Power (lb/ft s)	1.16	9.24
0.80				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.45	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.050	0.035
0.050				
W.S. Elev (ft)	4805.68	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	8.07	29.49
3.72				
E.G. Slope (ft/ft)	0.008355	Area (sq ft)	8.07	29.49
3.72				
Q Total (cfs)	250.00	Flow (cfs)	22.63	218.85

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8.52				
Top Width (ft)	22.13	Top Width (ft)	7.45	10.25
4.43				
Vel Total (ft/s)	6.06	Avg. Vel. (ft/s)	2.80	7.42
2.29				
Max Chl Dpth (ft)	3.60	Hydr. Depth (ft)	1.08	2.88
0.84				
Conv. Total (cfs)	2735.0	Conv. (cfs)	247.5	2394.3
93.2				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	7.70	11.15
4.80				
Min Ch El (ft)	4802.08	Shear (lb/sq ft)	0.55	1.38
0.40				
Alpha	1.34	Stream Power (lb/ft s)	1.53	10.24
0.93				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.01				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.18	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.84	Wt. n-Val.	0.050	0.035
0.050				
W.S. Elev (ft)	4806.34	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	13.55	36.24
7.47				
E.G. Slope (ft/ft)	0.007323	Area (sq ft)	30.67	36.24
7.47				
Q Total (cfs)	350.00	Flow (cfs)	42.05	288.86
19.09				
Top Width (ft)	82.93	Top Width (ft)	65.71	10.25
6.97				
Vel Total (ft/s)	6.11	Avg. Vel. (ft/s)	3.10	7.97
2.55				
Max Chl Dpth (ft)	4.26	Hydr. Depth (ft)	1.40	3.53
1.07				
Conv. Total (cfs)	4090.1	Conv. (cfs)	491.4	3375.7
223.1				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	10.05	11.15
7.42				
Min Ch El (ft)	4802.08	Shear (lb/sq ft)	0.62	1.49
0.46				
Alpha	1.44	Stream Power (lb/ft s)	1.91	11.85
1.18				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.05
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.07	0.01
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

low_littledominguez.rep				
E.G. Elev (ft)	4808.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.12	Wt. n-Val.	0.050	0.035
0.050				
W.S. Elev (ft)	4807.03	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.73	Flow Area (sq ft)	22.04	43.28
13.44				
E.G. Slope (ft/ft)	0.007899	Area (sq ft)	111.10	43.28
18.87				
Q Total (cfs)	500.00	Flow (cfs)	73.82	403.32
22.86				
Top Width (ft)	177.46	Top Width (ft)	124.78	10.25
42.43				
Vel Total (ft/s)	6.35	Avg. Vel. (ft/s)	3.35	9.32
1.70				
Max Chl Dpth (ft)	4.95	Hydr. Depth (ft)	1.47	4.22
0.53				
Conv. Total (cfs)	5625.8	Conv. (cfs)	830.6	4538.0
257.2				
Length Wtd. (ft)	4.89	Wetted Per. (ft)	15.43	11.15
26.03				
Min Ch El (ft)	4802.08	Shear (lb/sq ft)	0.70	1.91
0.25				
Alpha	1.78	Stream Power (lb/ft s)	2.36	17.84
0.43				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.14	0.06
0.05				
C & E Loss (ft)	0.00	Cum SA (acres)	0.17	0.01
0.11				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 9.91666*

INPUT

Description:

Station Elevation Data		num= 52									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.92	.99	4805.68	1.12	4805.66	18.69	4805.91	60.28	4806.34		
105.95	4806.36	106.06	4806.36	111.2	4807.3	120.57	4806.13	121.56	4805.76		
124.7	4804.58	126.59	4804.33	129.32	4803.93	130.73	4803.3	131.42	4802.76		
131.95	4802.47	132.38	4802.22	132.84	4802.16	133.56	4802.05	134.65	4802.16		
134.98	4802.18	135.42	4802.25	135.9	4802.35	135.93	4802.35	136.22	4802.35		
136.63	4802.38	137.15	4802.69	137.23	4802.73	138.14	4803.3	138.25	4803.37		
138.83	4803.54	139.14	4803.63	139.58	4803.81	140.93	4804.4	142.33	4805.07		
143.16	4805.4	149.21	4806.84	166.38	4806.92	171.96	4806.95	180.68	4807.07		
199.74	4807.3	237	4807.64	249.53	4807.64	250.35	4807.64	263.4	4807.44		
269.4	4807.32	291.03	4807.15	306.45	4806.99	320.02	4806.42	320.93	4806.39		
330.2	4808.19	339.8	4809.4								

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.051	129.32	.035	139.58	.051

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	129.32	139.58		5.03 4.87	4.73	.1	.3

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 Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 0110.8033 F
 233.3592 339.8 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.035
W.S. Elev (ft)	4802.48	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.26
E.G. Slope (ft/ft)	0.005314	Area (sq ft)		1.26
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.86	Top Width (ft)		4.86
Vel Total (ft/s)	1.24	Avg. Vel. (ft/s)		1.24
Max Chl Dpth (ft)	0.43	Hydr. Depth (ft)		0.26
Conv. Total (cfs)	21.4	Conv. (cfs)		21.4
Length Wtd. (ft)	4.87	Wetted Per. (ft)		4.99
Min Ch El (ft)	4802.05	Shear (lb/sq ft)		0.08
Alpha	1.00	Stream Power (lb/ft s)		0.10
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.41	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.39	Wt. n-Val.	0.051	0.035
0.051				
W.S. Elev (ft)	4804.02	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.03	12.97
0.05				
E.G. Slope (ft/ft)	0.011313	Area (sq ft)	0.03	12.97
0.05				
Q Total (cfs)	65.00	Flow (cfs)	0.01	64.95
0.03				
Top Width (ft)	11.39	Top Width (ft)	0.64	10.26
0.49				
Vel Total (ft/s)	4.98	Avg. Vel. (ft/s)	0.40	5.01
0.66				
Max Chl Dpth (ft)	1.97	Hydr. Depth (ft)	0.05	1.26
0.11				
Conv. Total (cfs)	611.1	Conv. (cfs)	0.1	610.7

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0.3				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.65	11.11
0.53				
Min Ch El (ft)	4802.05	Shear (lb/sq ft)	0.03	0.82
0.07				
Alpha	1.01	Stream Power (lb/ft s)	0.01	4.13
0.05				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.98	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.73	Wt. n-Val.	0.051	0.035
0.051				
W.S. Elev (ft)	4805.26	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	5.21	25.63
2.33				
E.G. Slope (ft/ft)	0.009235	Area (sq ft)	5.21	25.63
2.33				
Q Total (cfs)	200.00	Flow (cfs)	12.46	182.59
4.95				
Top Width (ft)	19.91	Top Width (ft)	6.42	10.26
3.22				
Vel Total (ft/s)	6.03	Avg. Vel. (ft/s)	2.39	7.12
2.12				
Max Chl Dpth (ft)	3.21	Hydr. Depth (ft)	0.81	2.50
0.72				
Conv. Total (cfs)	2081.2	Conv. (cfs)	129.6	1900.1
51.5				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	6.59	11.11
3.53				
Min Ch El (ft)	4802.05	Shear (lb/sq ft)	0.46	1.33
0.38				
Alpha	1.29	Stream Power (lb/ft s)	1.09	9.48
0.81				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.41	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.051	0.035
0.051				
W.S. Elev (ft)	4805.63	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	7.80	29.47
3.76				
E.G. Slope (ft/ft)	0.008449	Area (sq ft)	7.80	29.47
3.76				

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Q Total (cfs)	250.00	Flow (cfs)	21.15 220.43
8.42			
Top Width (ft)	22.24	Top Width (ft)	7.42 10.26
4.56			
Vel Total (ft/s)	6.09	Avg. Vel. (ft/s)	2.71 7.48
2.24			
Max Chl Dpth (ft)	3.58	Hydr. Depth (ft)	1.05 2.87
0.83			
Conv. Total (cfs)	2719.8	Conv. (cfs)	230.0 2398.1
91.6			
Length Wtd. (ft)	4.88	Wetted Per. (ft)	7.66 11.11
4.92			
Min Ch El (ft)	4802.05	Shear (lb/sq ft)	0.54 1.40
0.40			
Alpha	1.35	Stream Power (lb/ft s)	1.46 10.47
0.90			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01 0.03
0.00			
C & E Loss (ft)	0.01	Cum SA (acres)	0.01 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.15	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.86	Wt. n-Val.	0.051	0.035
0.051				
W.S. Elev (ft)	4806.29	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	13.32	36.21
7.66				
E.G. Slope (ft/ft)	0.007432	Area (sq ft)	29.28	36.21
7.66				
Q Total (cfs)	350.00	Flow (cfs)	39.54	291.38
19.08				
Top Width (ft)	82.24	Top Width (ft)	64.67	10.26
7.32				
Vel Total (ft/s)	6.12	Avg. Vel. (ft/s)	2.97	8.05
2.49				
Max Chl Dpth (ft)	4.24	Hydr. Depth (ft)	1.33	3.53
1.05				
Conv. Total (cfs)	4059.8	Conv. (cfs)	458.6	3379.9
221.3				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	10.36	11.11
7.76				
Min Ch El (ft)	4802.05	Shear (lb/sq ft)	0.60	1.51
0.46				
Alpha	1.47	Stream Power (lb/ft s)	1.77	12.17
1.14				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.03	0.04
0.01				
C & E Loss (ft)	0.01	Cum SA (acres)	0.06	0.01
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

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		Element	Left OB	Channel
E.G. Elev (ft)	4808.10			
Right OB				
Vel Head (ft)	1.16	Wt. n-Val.	0.051	0.035
0.051				
W.S. Elev (ft)	4806.94	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.71	Flow Area (sq ft)	21.51	42.87
14.30				
E.G. Slope (ft/ft)	0.008250	Area (sq ft)	103.93	42.87
18.75				
Q Total (cfs)	500.00	Flow (cfs)	70.51	406.72
22.77				
Top Width (ft)	180.46	Top Width (ft)	124.01	10.26
46.19				
Vel Total (ft/s)	6.35	Avg. Vel. (ft/s)	3.28	9.49
1.59				
Max Chl Dpth (ft)	4.89	Hydr. Depth (ft)	1.41	4.18
0.47				
Conv. Total (cfs)	5504.8	Conv. (cfs)	776.3	4477.8
250.7				
Length Wtd. (ft)	4.89	Wetted Per. (ft)	15.60	11.11
30.64				
Min Ch El (ft)	4802.05	Shear (lb/sq ft)	0.71	1.99
0.24				
Alpha	1.85	Stream Power (lb/ft s)	2.33	18.86
0.38				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.13	0.05
0.05				
C & E Loss (ft)	0.00	Cum SA (acres)	0.15	0.01
0.11				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 9.83333*

INPUT

Description:

Station Elevation Data		num= 52							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.83	.98	4805.63	1.1	4805.59	18.52	4805.89	59.71	4806.3
104.96	4806.33	105.07	4806.33	110.15	4807.16	119.44	4806.03	120.42	4805.69
123.53	4804.57	125.4	4804.32	128.11	4803.88	129.5	4803.27	130.19	4802.76
130.71	4802.47	131.14	4802.23	131.6	4802.16	132.31	4802.02	133.41	4802.14
133.75	4802.16	134.19	4802.22	134.67	4802.32	134.7	4802.32	134.99	4802.3
135.4	4802.33	135.93	4802.62	136	4802.65	136.93	4803.16	137.03	4803.23
137.62	4803.42	137.93	4803.51	138.38	4803.75	139.74	4804.34	141.17	4805.05
142.01	4805.36	148.15	4806.69	165.6	4806.81	171.26	4806.87	180.12	4807.01
199.47	4807.28	237.32	4807.59	250.04	4807.59	250.88	4807.58	264.13	4807.35
270.23	4807.18	292.2	4807.08	307.86	4806.93	321.64	4806.42	322.57	4806.39
331.98	4808.03	341.73	4809.12						

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.052	128.11	.034	138.38	.052

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.

			low_littledominguez.rep		
128.11	138.38		5.03	4.87	4.73
Ineffective Flow	num=	2			.1
Sta L	Sta R	Elev	Permanent		.3
0109.3667		F			
230.0383	341.73	F			

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.48	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.034
W.S. Elev (ft)	4802.45	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.24
E.G. Slope (ft/ft)	0.005260	Area (sq ft)		1.24
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.88	Top Width (ft)		4.88
Vel Total (ft/s)	1.25	Avg. Vel. (ft/s)		1.25
Max Chl Dpth (ft)	0.43	Hydr. Depth (ft)		0.26
Conv. Total (cfs)	21.5	Conv. (cfs)		21.5
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.01
Min Ch El (ft)	4802.02	Shear (lb/sq ft)		0.08
Alpha	1.00	Stream Power (lb/ft s)		0.10
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.36	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.40	Wt. n-Val.	0.052	0.034
0.052				
W.S. Elev (ft)	4803.97	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.02	12.86
0.05				
E.G. Slope (ft/ft)	0.010960	Area (sq ft)	0.02	12.86
0.05				
Q Total (cfs)	65.00	Flow (cfs)	0.01	64.96
0.03				
Top Width (ft)	11.29	Top Width (ft)	0.52	10.27
0.50				
Vel Total (ft/s)	5.03	Avg. Vel. (ft/s)	0.36	5.05
0.64				
Max Chl Dpth (ft)	1.94	Hydr. Depth (ft)	0.04	1.25
0.11				

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Conv. Total (cfs)	620.9	Conv. (cfs)	0.1 620.5
0.3			
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.53 11.08
0.54			
Min Ch El (ft)	4802.02	Shear (lb/sq ft)	0.03 0.79
0.07			
Alpha	1.01	Stream Power (lb/ft s)	0.01 4.01
0.04			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00 0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.94	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.052	0.034
0.052				
W.S. Elev (ft)	4805.17	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	4.73	25.20
2.22				
E.G. Slope (ft/ft)	0.009402	Area (sq ft)	4.73	25.20
2.22				
Q Total (cfs)	200.00	Flow (cfs)	10.74	184.65
4.61				
Top Width (ft)	19.61	Top Width (ft)	6.24	10.27
3.11				
Vel Total (ft/s)	6.22	Avg. Vel. (ft/s)	2.27	7.33
2.08				
Max Chl Dpth (ft)	3.15	Hydr. Depth (ft)	0.76	2.45
0.71				
Conv. Total (cfs)	2062.6	Conv. (cfs)	110.7	1904.3
47.5				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.39	11.08
3.42				
Min Ch El (ft)	4802.02	Shear (lb/sq ft)	0.43	1.33
0.38				
Alpha	1.29	Stream Power (lb/ft s)	0.99	9.78
0.79				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.83	Wt. n-Val.	0.052	0.034
0.052				
W.S. Elev (ft)	4805.54	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	7.27	29.05
3.61				
E.G. Slope (ft/ft)	0.008561	Area (sq ft)	7.27	29.05

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3.61				
Q Total (cfs)	250.00	Flow (cfs)	18.82	223.34
7.84				
Top Width (ft)	22.02	Top Width (ft)	7.28	10.27
4.47				
Vel Total (ft/s)	6.26	Avg. Vel. (ft/s)	2.59	7.69
2.17				
Max Chl Dpth (ft)	3.52	Hydr. Depth (ft)	1.00	2.83
0.81				
Conv. Total (cfs)	2701.9	Conv. (cfs)	203.4	2413.7
84.7				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	7.50	11.08
4.83				
Min Ch El (ft)	4802.02	Shear (lb/sq ft)	0.52	1.40
0.40				
Alpha	1.36	Stream Power (lb/ft s)	1.34	10.77
0.87				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.11	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.92	Wt. n-Val.	0.052	0.034
0.052				
W.S. Elev (ft)	4806.19	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	12.70	35.75
7.51				
E.G. Slope (ft/ft)	0.007524	Area (sq ft)	25.41	35.75
7.51				
Q Total (cfs)	350.00	Flow (cfs)	36.10	295.95
17.96				
Top Width (ft)	76.15	Top Width (ft)	58.40	10.27
7.48				
Vel Total (ft/s)	6.25	Avg. Vel. (ft/s)	2.84	8.28
2.39				
Max Chl Dpth (ft)	4.17	Hydr. Depth (ft)	1.27	3.48
1.00				
Conv. Total (cfs)	4035.1	Conv. (cfs)	416.1	3411.9
207.0				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	10.34	11.08
7.92				
Min Ch El (ft)	4802.02	Shear (lb/sq ft)	0.58	1.52
0.45				
Alpha	1.51	Stream Power (lb/ft s)	1.64	12.54
1.07				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.04
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.06	0.01
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

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		Element	Left OB	Channel
E.G. Elev (ft)	4808.06			
Right OB				
Vel Head (ft)	1.21	Wt. n-Val.	0.052	0.034
0.052				
W.S. Elev (ft)	4806.85	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.69	Flow Area (sq ft)	21.09	42.52
15.27				
E.G. Slope (ft/ft)	0.008106	Area (sq ft)	97.48	42.52
18.85				
Q Total (cfs)	500.00	Flow (cfs)	65.79	410.11
24.10				
Top Width (ft)	180.16	Top Width (ft)	123.28	10.27
46.61				
Vel Total (ft/s)	6.34	Avg. Vel. (ft/s)	3.12	9.64
1.58				
Max Chl Dpth (ft)	4.83	Hydr. Depth (ft)	1.37	4.14
0.49				
Conv. Total (cfs)	5553.6	Conv. (cfs)	730.7	4555.2
267.7				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	15.79	11.08
31.80				
Min Ch El (ft)	4802.02	Shear (lb/sq ft)	0.68	1.94
0.24				
Alpha	1.93	Stream Power (lb/ft s)	2.11	18.73
0.38				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.12	0.05
0.05				
C & E Loss (ft)	0.03	Cum SA (acres)	0.14	0.01
0.10				

Warning: Divided flow computed for this cross-section.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 9.75*

INPUT

Description:

Station Elevation Data		num= 52		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.75	.97	4805.58	1.09	4805.52	18.34	4805.88	59.14	4806.26
103.96	4806.3	104.07	4806.3	109.11	4807.01	118.31	4805.93	119.28	4805.62
122.35	4804.56	124.21	4804.31	126.89	4803.83	128.27	4803.24	128.96	4802.75
129.48	4802.48	129.9	4802.25	130.36	4802.16	131.06	4802	132.17	4802.12
132.51	4802.14	132.95	4802.19	133.44	4802.3	133.47	4802.29	133.76	4802.25
134.17	4802.28	134.71	4802.54	134.78	4802.57	135.71	4803.03	135.82	4803.1
136.4	4803.3	136.72	4803.39	137.17	4803.69	138.56	4804.27	140	4805.04
140.86	4805.32	147.1	4806.53	164.81	4806.71	170.56	4806.78	179.56	4806.94
199.21	4807.25	237.64	4807.53	250.56	4807.53	251.41	4807.53	264.87	4807.25
271.06	4807.03	293.36	4807.01	309.26	4806.88	323.26	4806.42	324.2	4806.39
333.76	4807.86	343.66	4808.85						

Manning's n Values		num= 3		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val

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0 .053 126.89 .034 137.17 .053
Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
126.89 137.17 5.03 4.87 4.73 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 107.93 F
226.7175 343.66 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.45	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.034
W.S. Elev (ft)	4802.42	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.20
E.G. Slope (ft/ft)	0.005946	Area (sq ft)		1.20
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.88	Top Width (ft)		4.88
Vel Total (ft/s)	1.30	Avg. Vel. (ft/s)		1.30
Max Chl Dpth (ft)	0.42	Hydr. Depth (ft)		0.25
Conv. Total (cfs)	20.2	Conv. (cfs)		20.2
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.01
Min Ch El (ft)	4802.00	Shear (lb/sq ft)		0.09
Alpha	1.00	Stream Power (lb/ft s)		0.12
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.41	Wt. n-Val.	0.053	0.034
0.053				
W.S. Elev (ft)	4803.90	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.02	12.70
0.05				
E.G. Slope (ft/ft)	0.011392	Area (sq ft)	0.02	12.70
0.05				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.96
0.04				
Top Width (ft)	11.20	Top Width (ft)	0.41	10.28
0.51				
Vel Total (ft/s)	5.09	Avg. Vel. (ft/s)	0.33	5.11

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0.64				
Max Chl Dpth (ft)	1.90	Hydr. Depth (ft)	0.04	1.24
0.11				
Conv. Total (cfs)	609.0	Conv. (cfs)	0.0	608.6
0.3				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.42	11.07
0.56				
Min Ch El (ft)	4802.00	Shear (lb/sq ft)	0.03	0.82
0.07				
Alpha	1.01	Stream Power (lb/ft s)	0.01	4.17
0.04				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.90	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.79	Wt. n-Val.	0.053	0.034
0.053				
W.S. Elev (ft)	4805.11	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	4.49	25.13
2.24				
E.G. Slope (ft/ft)	0.009561	Area (sq ft)	4.49	25.13
2.24				
Q Total (cfs)	200.00	Flow (cfs)	9.85	185.48
4.68				
Top Width (ft)	19.47	Top Width (ft)	6.14	10.28
3.05				
Vel Total (ft/s)	6.28	Avg. Vel. (ft/s)	2.19	7.38
2.09				
Max Chl Dpth (ft)	3.11	Hydr. Depth (ft)	0.73	2.44
0.73				
Conv. Total (cfs)	2045.5	Conv. (cfs)	100.7	1896.9
47.8				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.29	11.07
3.37				
Min Ch El (ft)	4802.00	Shear (lb/sq ft)	0.43	1.36
0.40				
Alpha	1.29	Stream Power (lb/ft s)	0.93	10.00
0.83				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.34	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.84	Wt. n-Val.	0.053	0.034
0.053				
W.S. Elev (ft)	4805.49	Reach Len. (ft)	5.03	4.87
4.73				

Crit W.S. (ft)	low_littledominguez.rep	Flow Area (sq ft)	7.03	29.02
3.65				
E.G. Slope (ft/ft)	0.008669	Area (sq ft)	7.03	29.02
3.65				
Q Total (cfs)	250.00	Flow (cfs)	17.65	224.58
7.78				
Top Width (ft)	22.09	Top Width (ft)	7.24	10.28
4.57				
Vel Total (ft/s)	6.30	Avg. Vel. (ft/s)	2.51	7.74
2.13				
Max Chl Dpth (ft)	3.49	Hydr. Depth (ft)	0.97	2.82
0.80				
Conv. Total (cfs)	2685.0	Conv. (cfs)	189.5	2412.0
83.5				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	7.45	11.07
4.94				
Min Ch El (ft)	4802.00	Shear (lb/sq ft)	0.51	1.42
0.40				
Alpha	1.37	Stream Power (lb/ft s)	1.28	10.98
0.85				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.08	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.93	Wt. n-Val.	0.053	0.034
0.053				
W.S. Elev (ft)	4806.15	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	12.58	35.79
7.78				
E.G. Slope (ft/ft)	0.007583	Area (sq ft)	24.38	35.79
7.78				
Q Total (cfs)	350.00	Flow (cfs)	34.12	297.85
18.03				
Top Width (ft)	75.27	Top Width (ft)	57.02	10.28
7.97				
Vel Total (ft/s)	6.23	Avg. Vel. (ft/s)	2.71	8.32
2.32				
Max Chl Dpth (ft)	4.15	Hydr. Depth (ft)	1.20	3.48
0.98				
Conv. Total (cfs)	4019.2	Conv. (cfs)	391.8	3420.3
207.0				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	10.75	11.07
8.40				
Min Ch El (ft)	4802.00	Shear (lb/sq ft)	0.55	1.53
0.44				
Alpha	1.54	Stream Power (lb/ft s)	1.50	12.74
1.02				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.04
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.05	0.01
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)	4807.99	Element	Left OB	Channel
Right OB					
Vel Head (ft)	1.10	Wt. n-Val.	0.053	0.034	
0.053					
W.S. Elev (ft)	4806.88	Reach Len. (ft)	5.03	4.87	
4.73					
Crit W.S. (ft)	4806.53	Flow Area (sq ft)	22.53	43.32	
20.41					
E.G. Slope (ft/ft)	0.007351	Area (sq ft)	104.89	43.32	
24.91					
Q Total (cfs)	500.00	Flow (cfs)	65.24	403.22	
31.54					
Top Width (ft)	192.38	Top Width (ft)	124.51	10.28	
57.59					
Vel Total (ft/s)	5.80	Avg. Vel. (ft/s)	2.90	9.31	
1.54					
Max Chl Dpth (ft)	4.88	Hydr. Depth (ft)	1.33	4.21	
0.52					
Conv. Total (cfs)	5831.6	Conv. (cfs)	761.0	4702.8	
367.8					
Length Wtd. (ft)	4.88	Wetted Per. (ft)	17.31	11.07	
39.62					
Min Ch El (ft)	4802.00	Shear (lb/sq ft)	0.60	1.80	
0.24					
Alpha	2.12	Stream Power (lb/ft s)	1.73	16.72	
0.37					
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.11	0.04	
0.04					
C & E Loss (ft)	0.02	Cum SA (acres)	0.13	0.01	
0.10					

Warning: Divided flow computed for this cross-section.

Note: Multiple critical depths were found at this location. The critical depth with the lowest, valid, water surface was used.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 9.66666*

INPUT

Description:

Station	Elevation	Data	num=	52	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.67	.96	4805.53	1.08	4805.45	18.17	4805.86	58.58	4806.22			
102.96	4806.27	103.07	4806.27	108.06	4806.86	117.17	4805.83	118.14	4805.54			
121.18	4804.56	123.02	4804.3	125.68	4803.78	127.05	4803.2	127.73	4802.75			
128.24	4802.48	128.66	4802.26	129.11	4802.16	129.82	4801.97	130.93	4802.1			
131.27	4802.11	131.72	4802.16	132.21	4802.27	132.23	4802.27	132.53	4802.2			
132.95	4802.23	133.48	4802.46	133.56	4802.49	134.49	4802.89	134.6	4802.96			
135.19	4803.18	135.51	4803.27	135.96	4803.63	137.37	4804.21	138.84	4805.03			
139.71	4805.28	146.04	4806.38	164.02	4806.6	169.86	4806.69	178.99	4806.88			
198.94	4807.23	237.96	4807.48	251.07	4807.48	251.94	4807.47	265.6	4807.15			
271.88	4806.89	294.53	4806.94	310.67	4806.82	324.88	4806.41	325.84	4806.39			
335.54	4807.7	345.59	4808.58									

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Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 0 .053 125.68 .033 135.96 .053

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 125.68 135.96 5.03 4.87 4.73 .1 .3
 Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 0106.4933 F
 223.3967 345.59 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.42	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.033
W.S. Elev (ft)	4802.39	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.18
E.G. Slope (ft/ft)	0.005963	Area (sq ft)		1.18
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	4.92	Top Width (ft)		4.92
Vel Total (ft/s)	1.32	Avg. Vel. (ft/s)		1.32
Max Chl Dpth (ft)	0.42	Hydr. Depth (ft)		0.24
Conv. Total (cfs)	20.2	Conv. (cfs)		20.2
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.05
Min Ch El (ft)	4801.97	Shear (lb/sq ft)		0.09
Alpha	1.00	Stream Power (lb/ft s)		0.11
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.26	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.41	Wt. n-Val.	0.053	0.033
0.053				
W.S. Elev (ft)	4803.85	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.01	12.61
0.06				
E.G. Slope (ft/ft)	0.010978	Area (sq ft)	0.01	12.61
0.06				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.96
0.04				

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Top Width (ft)	11.14	Top Width (ft)	0.34 10.28
0.52			
Vel Total (ft/s)	5.13	Avg. Vel. (ft/s)	0.30 5.15
0.63			
Max Chl Dpth (ft)	1.88	Hydr. Depth (ft)	0.03 1.23
0.11			
Conv. Total (cfs)	620.4	Conv. (cfs)	0.0 620.0
0.3			
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.34 11.06
0.57			
Min Ch El (ft)	4801.97	Shear (lb/sq ft)	0.02 0.78
0.07			
Alpha	1.01	Stream Power (lb/ft s)	0.01 4.03
0.04			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00 0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.86	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.80	Wt. n-Val.	0.053	0.033
0.053				
W.S. Elev (ft)	4805.06	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	4.25	25.08
2.25				
E.G. Slope (ft/ft)	0.009146	Area (sq ft)	4.25	25.08
2.25				
Q Total (cfs)	200.00	Flow (cfs)	8.87	186.46
4.67				
Top Width (ft)	19.31	Top Width (ft)	6.05	10.28
2.98				
Vel Total (ft/s)	6.33	Avg. Vel. (ft/s)	2.09	7.43
2.07				
Max Chl Dpth (ft)	3.09	Hydr. Depth (ft)	0.70	2.44
0.76				
Conv. Total (cfs)	2091.3	Conv. (cfs)	92.8	1949.7
48.8				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.19	11.06
3.31				
Min Ch El (ft)	4801.97	Shear (lb/sq ft)	0.39	1.30
0.39				
Alpha	1.29	Stream Power (lb/ft s)	0.82	9.63
0.80				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.30	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.87	Wt. n-Val.	0.053	0.033

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0.053				
W.S. Elev (ft)	4805.43	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	6.67	28.85
3.60				
E.G. Slope (ft/ft)	0.008460	Area (sq ft)	6.67	28.85
3.60				
Q Total (cfs)	250.00	Flow (cfs)	16.09	226.41
7.50				
Top Width (ft)	22.05	Top Width (ft)	7.18	10.28
4.58				
Vel Total (ft/s)	6.39	Avg. Vel. (ft/s)	2.41	7.85
2.08				
Max Chl Dpth (ft)	3.45	Hydr. Depth (ft)	0.93	2.81
0.79				
Conv. Total (cfs)	2718.0	Conv. (cfs)	174.9	2461.5
81.5				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	7.39	11.06
4.96				
Min Ch El (ft)	4801.97	Shear (lb/sq ft)	0.48	1.38
0.38				
Alpha	1.38	Stream Power (lb/ft s)	1.15	10.82
0.80				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.05	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.96	Wt. n-Val.	0.053	0.033
0.053				
W.S. Elev (ft)	4806.09	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	12.35	35.68
7.92				
E.G. Slope (ft/ft)	0.007335	Area (sq ft)	22.87	35.68
7.92				
Q Total (cfs)	350.00	Flow (cfs)	31.89	300.45
17.66				
Top Width (ft)	72.69	Top Width (ft)	54.00	10.28
8.41				
Vel Total (ft/s)	6.26	Avg. Vel. (ft/s)	2.58	8.42
2.23				
Max Chl Dpth (ft)	4.12	Hydr. Depth (ft)	1.14	3.47
0.94				
Conv. Total (cfs)	4086.6	Conv. (cfs)	372.4	3508.0
206.2				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	11.08	11.06
8.84				
Min Ch El (ft)	4801.97	Shear (lb/sq ft)	0.51	1.48
0.41				
Alpha	1.58	Stream Power (lb/ft s)	1.32	12.44
0.91				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.03
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.01
0.02				

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Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)	4807.92	Element	Left OB	Channel
Right OB					
Vel Head (ft)	1.02		Wt. n-Val.	0.053	0.033
0.053					
W.S. Elev (ft)	4806.90		Reach Len. (ft)	5.03	4.87
4.73					
Crit W.S. (ft)			Flow Area (sq ft)	24.20	44.00
25.72					
E.G. Slope (ft/ft)	0.006384		Area (sq ft)	111.30	44.00
31.63					
Q Total (cfs)	500.00		Flow (cfs)	62.55	397.51
39.93					
Top Width (ft)	213.50		Top Width (ft)	125.33	10.28
77.89					
Vel Total (ft/s)	5.32		Avg. Vel. (ft/s)	2.58	9.03
1.55					
Max Chl Dpth (ft)	4.93		Hydr. Depth (ft)	1.26	4.28
0.58					
Conv. Total (cfs)	6258.1		Conv. (cfs)	782.9	4975.3
499.8					
Length Wtd. (ft)	4.88		Wetted Per. (ft)	19.52	11.06
44.58					
Min Ch El (ft)	4801.97		Shear (lb/sq ft)	0.49	1.59
0.23					
Alpha	2.33		Stream Power (lb/ft s)	1.28	14.33
0.36					
Frctn Loss (ft)	0.03		Cum Volume (acre-ft)	0.09	0.04
0.04					
C & E Loss (ft)	0.07		Cum SA (acres)	0.11	0.01
0.09					

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 9.58333*

INPUT

Description:

Station Elevation Data		num=		52					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.58	.95	4805.48	1.07	4805.38	17.99	4805.84	58.01	4806.18
101.97	4806.25	102.08	4806.24	107.02	4806.71	116.04	4805.73	116.99	4805.47
120.01	4804.55	121.83	4804.29	124.46	4803.73	125.82	4803.17	126.5	4802.74
127.01	4802.49	127.43	4802.27	127.87	4802.16	128.57	4801.94	129.69	4802.08
130.03	4802.09	130.48	4802.13	130.98	4802.25	131	4802.24	131.3	4802.15
131.72	4802.18	132.26	4802.39	132.34	4802.41	133.28	4802.76	133.39	4802.83
133.98	4803.05	134.3	4803.15	134.76	4803.57	136.18	4804.15	137.68	4805.02
138.56	4805.24	144.98	4806.23	163.24	4806.49	169.16	4806.6	178.43	4806.82
198.68	4807.21	238.28	4807.42	251.59	4807.42	252.46	4807.42	266.33	4807.06
272.71	4806.74	295.69	4806.87	312.08	4806.77	326.5	4806.41	327.47	4806.39

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337.32 4807.53 347.52 4808.3

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 0 .054 124.46 .033 134.76 .054

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 124.46 134.76 5.03 4.87 4.73 .1 .3
 Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 0105.0567 F
 220.0758 347.52 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.39	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.033
W.S. Elev (ft)	4802.36	Reach Len. (ft)	5.03	4.87
4.73		Flow Area (sq ft)		1.15
Crit W.S. (ft)		Area (sq ft)		1.15
E.G. Slope (ft/ft)	0.006625	Flow (cfs)		1.56
Q Total (cfs)	1.56	Top Width (ft)		4.92
Top Width (ft)	4.92	Avg. Vel. (ft/s)		1.36
Vel Total (ft/s)	1.36	Hydr. Depth (ft)		0.23
Max Chl Dpth (ft)	0.42	Conv. (cfs)		19.2
Conv. Total (cfs)	19.2	Wetted Per. (ft)		5.07
Length Wtd. (ft)	4.87	Shear (lb/sq ft)		0.09
Min Ch El (ft)	4801.94	Stream Power (lb/ft s)		0.13
Alpha	1.00	Cum Volume (acre-ft)		0.00
Frctn Loss (ft)	0.03	Cum SA (acres)		0.00
C & E Loss (ft)	0.00			

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.42	Wt. n-Val.	0.054	0.033
0.054		Reach Len. (ft)	5.03	4.87
W.S. Elev (ft)	4803.79	Flow Area (sq ft)	0.01	12.51
4.73		Area (sq ft)	0.01	12.51
Crit W.S. (ft)		Flow (cfs)	0.00	64.96
0.06				
E.G. Slope (ft/ft)	0.011311			
0.06				
Q Total (cfs)	65.00			

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0.04				
Top Width (ft)	11.10	Top Width (ft)	0.27	10.30
0.53				
Vel Total (ft/s)	5.17	Avg. Vel. (ft/s)	0.27	5.19
0.63				
Max Chl Dpth (ft)	1.85	Hydr. Depth (ft)	0.03	1.21
0.11				
Conv. Total (cfs)	611.2	Conv. (cfs)	0.0	610.8
0.3				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.27	11.08
0.57				
Min Ch El (ft)	4801.94	Shear (lb/sq ft)	0.02	0.80
0.07				
Alpha	1.01	Stream Power (lb/ft s)	0.01	4.14
0.04				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.82	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.81	Wt. n-Val.	0.054	0.033
0.054				
W.S. Elev (ft)	4805.01	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.91	Flow Area (sq ft)	4.04	25.09
2.27				
E.G. Slope (ft/ft)	0.009231	Area (sq ft)	4.04	25.09
2.27				
Q Total (cfs)	200.00	Flow (cfs)	8.12	187.17
4.72				
Top Width (ft)	19.15	Top Width (ft)	5.95	10.30
2.90				
Vel Total (ft/s)	6.37	Avg. Vel. (ft/s)	2.01	7.46
2.08				
Max Chl Dpth (ft)	3.07	Hydr. Depth (ft)	0.68	2.44
0.78				
Conv. Total (cfs)	2081.6	Conv. (cfs)	84.5	1948.0
49.1				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.10	11.08
3.24				
Min Ch El (ft)	4801.94	Shear (lb/sq ft)	0.38	1.31
0.40				
Alpha	1.29	Stream Power (lb/ft s)	0.77	9.74
0.84				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.26	Element	Left OB	Channel
Right OB				

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Vel Head (ft)	0.89	Wt. n-Val.	0.054	0.033
0.054				
W.S. Elev (ft)	4805.38	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	6.46	28.88
3.62				
E.G. Slope (ft/ft)	0.008540	Area (sq ft)	6.46	28.88
3.62				
Q Total (cfs)	250.00	Flow (cfs)	15.04	227.61
7.35				
Top Width (ft)	22.15	Top Width (ft)	7.16	10.30
4.68				
Vel Total (ft/s)	6.42	Avg. Vel. (ft/s)	2.33	7.88
2.03				
Max Chl Dpth (ft)	3.44	Hydr. Depth (ft)	0.90	2.80
0.77				
Conv. Total (cfs)	2705.3	Conv. (cfs)	162.7	2463.1
79.5				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	7.36	11.08
5.07				
Min Ch El (ft)	4801.94	Shear (lb/sq ft)	0.47	1.39
0.38				
Alpha	1.38	Stream Power (lb/ft s)	1.09	10.95
0.77				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4807.01	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.96	Wt. n-Val.	0.054	0.033
0.054				
W.S. Elev (ft)	4806.05	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	12.39	35.84
8.26				
E.G. Slope (ft/ft)	0.007318	Area (sq ft)	22.66	35.84
8.26				
Q Total (cfs)	350.00	Flow (cfs)	30.40	301.90
17.71				
Top Width (ft)	72.96	Top Width (ft)	53.60	10.30
9.06				
Vel Total (ft/s)	6.20	Avg. Vel. (ft/s)	2.45	8.42
2.14				
Max Chl Dpth (ft)	4.11	Hydr. Depth (ft)	1.09	3.48
0.91				
Conv. Total (cfs)	4091.5	Conv. (cfs)	355.3	3529.2
207.0				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	11.65	11.08
9.50				
Min Ch El (ft)	4801.94	Shear (lb/sq ft)	0.49	1.48
0.40				
Alpha	1.61	Stream Power (lb/ft s)	1.19	12.45
0.85				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.02	0.03
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.04	0.01

0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

	E.G. Elev (ft)	4807.82	Element	Left OB	Channel
Right OB					
Vel Head (ft)	0.80	Wt. n-Val.	0.054	0.033	
0.054					
W.S. Elev (ft)	4807.02	Reach Len. (ft)	5.03	4.87	
4.73					
Crit W.S. (ft)	4807.01	Flow Area (sq ft)	28.02	45.78	
36.67					
E.G. Slope (ft/ft)	0.005018	Area (sq ft)	130.09	45.78	
53.99					
Q Total (cfs)	500.00	Flow (cfs)	69.04	375.99	
54.97					
Top Width (ft)	254.12	Top Width (ft)	124.21	10.30	
119.61					
Vel Total (ft/s)	4.53	Avg. Vel. (ft/s)	2.46	8.21	
1.50					
Max Chl Dpth (ft)	5.08	Hydr. Depth (ft)	1.44	4.44	
0.68					
Conv. Total (cfs)	7058.5	Conv. (cfs)	974.6	5307.8	
776.0					
Length Wtd. (ft)	4.88	Wetted Per. (ft)	19.71	11.08	
54.37					
Min Ch El (ft)	4801.94	Shear (lb/sq ft)	0.45	1.29	
0.21					
Alpha	2.53	Stream Power (lb/ft s)	1.10	10.63	
0.32					
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.08	0.03	
0.04					
C & E Loss (ft)	0.03	Cum SA (acres)	0.10	0.01	
0.08					

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 9.5*

INPUT

Description:

Station	Elevation	Data	num=	52	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.5	.94	4805.43	1.06	4805.31	17.81	4805.83	57.45	4806.13			
100.97	4806.22	101.08	4806.22	105.97	4806.57	114.91	4805.63	115.85	4805.4			
118.84	4804.54	120.64	4804.28	123.25	4803.68	124.6	4803.13	125.27	4802.73			
125.77	4802.5	126.19	4802.28	126.63	4802.15	127.32	4801.91	128.45	4802.06			
128.8	4802.06	129.25	4802.09	129.75	4802.22	129.77	4802.21	130.07	4802.1			
130.49	4802.13	131.04	4802.31	131.11	4802.33	132.06	4802.62	132.17	4802.69			
132.77	4802.93	133.09	4803.03	133.55	4803.51	135	4804.09	136.51	4805			
137.41	4805.2	143.93	4806.07	162.45	4806.38	168.46	4806.51	177.87	4806.76			
198.41	4807.18	238.6	4807.37	252.11	4807.37	252.99	4807.37	267.06	4806.96			

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273.54 4806.6 296.86 4806.8 313.49 4806.71 328.12 4806.41 329.11 4806.39
339.1 4807.37 349.45 4808.03

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .055 123.25 .032 133.55 .055

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
123.25 133.55 5.03 4.87 4.73 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 103.62 F
216.755 349.45 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.36	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.032
W.S. Elev (ft)	4802.33	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.14
E.G. Slope (ft/ft)	0.006469	Area (sq ft)		1.14
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.00	Top Width (ft)		5.00
Vel Total (ft/s)	1.37	Avg. Vel. (ft/s)		1.37
Max Chl Dpth (ft)	0.42	Hydr. Depth (ft)		0.23
Conv. Total (cfs)	19.4	Conv. (cfs)		19.4
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.16
Min Ch El (ft)	4801.91	Shear (lb/sq ft)		0.09
Alpha	1.00	Stream Power (lb/ft s)		0.12
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.15	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.42	Wt. n-Val.	0.055	0.032
0.055				
W.S. Elev (ft)	4803.73	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.01	12.46
0.06				
E.G. Slope (ft/ft)	0.010791	Area (sq ft)	0.01	12.46
0.06				

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Q Total (cfs)	65.00	Flow (cfs)	0.00 64.96
0.04			
Top Width (ft)	11.08	Top Width (ft)	0.22 10.30
0.55			
Vel Total (ft/s)	5.19	Avg. Vel. (ft/s)	0.24 5.21
0.62			
Max Chl Dpth (ft)	1.82	Hydr. Depth (ft)	0.03 1.21
0.11			
Conv. Total (cfs)	625.7	Conv. (cfs)	0.0 625.4
0.4			
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.23 11.09
0.60			
Min Ch El (ft)	4801.91	Shear (lb/sq ft)	0.02 0.76
0.07			
Alpha	1.01	Stream Power (lb/ft s)	0.00 3.94
0.04			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00 0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.78	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.90	Wt. n-Val.	0.055	0.032
0.055				
W.S. Elev (ft)	4804.88	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.86	Flow Area (sq ft)	3.38	24.27
2.08				
E.G. Slope (ft/ft)	0.009931	Area (sq ft)	3.38	24.27
2.08				
Q Total (cfs)	200.00	Flow (cfs)	6.42	189.28
4.30				
Top Width (ft)	18.64	Top Width (ft)	5.58	10.30
2.76				
Vel Total (ft/s)	6.73	Avg. Vel. (ft/s)	1.90	7.80
2.07				
Max Chl Dpth (ft)	2.97	Hydr. Depth (ft)	0.61	2.36
0.75				
Conv. Total (cfs)	2006.9	Conv. (cfs)	64.5	1899.4
43.1				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	5.72	11.09
3.09				
Min Ch El (ft)	4801.91	Shear (lb/sq ft)	0.37	1.36
0.42				
Alpha	1.28	Stream Power (lb/ft s)	0.70	10.58
0.86				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.22	Element	Left OB	Channel
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Right OB				
Vel Head (ft)	0.97	Wt. n-Val.	0.055	0.032
0.055				
W.S. Elev (ft)	4805.25	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	5.73	28.14
3.33				
E.G. Slope (ft/ft)	0.008992	Area (sq ft)	5.73	28.14
3.33				
Q Total (cfs)	250.00	Flow (cfs)	12.74	230.44
6.82				
Top Width (ft)	21.45	Top Width (ft)	6.89	10.30
4.26				
Vel Total (ft/s)	6.72	Avg. Vel. (ft/s)	2.22	8.19
2.05				
Max Chl Dpth (ft)	3.34	Hydr. Depth (ft)	0.83	2.73
0.78				
Conv. Total (cfs)	2636.4	Conv. (cfs)	134.3	2430.1
71.9				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	7.08	11.09
4.65				
Min Ch El (ft)	4801.91	Shear (lb/sq ft)	0.45	1.42
0.40				
Alpha	1.38	Stream Power (lb/ft s)	1.01	11.66
0.82				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4806.98	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.99	Wt. n-Val.	0.055	0.032
0.055				
W.S. Elev (ft)	4805.99	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	12.22	35.74
8.51				
E.G. Slope (ft/ft)	0.007087	Area (sq ft)	21.16	35.74
8.51				
Q Total (cfs)	350.00	Flow (cfs)	28.09	304.78
17.13				
Top Width (ft)	70.37	Top Width (ft)	50.28	10.30
9.79				
Vel Total (ft/s)	6.20	Avg. Vel. (ft/s)	2.30	8.53
2.01				
Max Chl Dpth (ft)	4.08	Hydr. Depth (ft)	1.04	3.47
0.87				
Conv. Total (cfs)	4157.7	Conv. (cfs)	333.7	3620.5
203.5				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	12.04	11.09
10.23				
Min Ch El (ft)	4801.91	Shear (lb/sq ft)	0.45	1.43
0.37				
Alpha	1.67	Stream Power (lb/ft s)	1.03	12.15
0.74				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.02
0.01				

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0.00      Cum SA (acres)
```

CROSS SECTION OUTPUT Profile #PF 6

Right OB	E.G. Elev (ft)	4807.78	Element	Left OB	Channel
0.055	Vel Head (ft)	1.05	Wt. n-Val.	0.055	0.032
4.73	W.S. Elev (ft)	4806.72	Reach Len. (ft)	5.03	4.87
27.86	Crit W.S. (ft)		Flow Area (sq ft)	23.84	43.28
32.19	E.G. Slope (ft/ft)	0.006365	Area (sq ft)	98.16	43.28
44.69	Q Total (cfs)	500.00	Flow (cfs)	57.93	397.39
81.16	Top Width (ft)	214.36	Top Width (ft)	122.90	10.30
1.60	Vel Total (ft/s)	5.26	Avg. Vel. (ft/s)	2.43	9.18
0.65	Max Chl Dpth (ft)	4.81	Hydr. Depth (ft)	1.21	4.20
560.1	Conv. Total (cfs)	6266.9	Conv. (cfs)	726.0	4980.8
43.41	Length Wtd. (ft)	4.88	Wetted Per. (ft)	19.92	11.09
0.26	Min Ch El (ft)	4801.91	Shear (lb/sq ft)	0.48	1.55
0.41	Alpha	2.45	Stream Power (lb/ft s)	1.16	14.23
0.03	Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.07	0.03
0.07	C & E Loss (ft)	0.07	Cum SA (acres)	0.08	0.01

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 9.41666*

Description:

Station Elevation		Data	num=		52							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	4807.42	.93	4805.38	1.05	4805.24	17.64	4805.81	56.88	4806.09			
99.98	4806.19	100.08	4806.19	104.93	4806.42	113.77	4805.53	114.71	4805.32			
117.67	4804.54	119.45	4804.27	122.03	4803.63	123.37	4803.1	124.04	4802.73			
124.54	4802.5	124.95	4802.29	125.39	4802.15	126.08	4801.88	127.21	4802.04			
127.56	4802.04	128.02	4802.06	128.52	4802.2	128.54	4802.19	128.84	4802.05			
129.27	4802.08	129.82	4802.23	129.89	4802.25	130.84	4802.49	130.96	4802.55			
131.56	4802.81	131.88	4802.91	132.35	4803.45	133.81	4804.03	135.35	4804.99			
136.26	4805.16	142.87	4805.92	161.66	4806.27	167.76	4806.43	177.31	4806.7			

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 198.15 4807.16 238.92 4807.32 252.62 4807.32 253.52 4807.31 267.8 4806.87
 274.37 4806.45 298.03 4806.73 314.89 4806.66 329.74 4806.4 330.74 4806.39
 340.88 4807.21 351.38 4807.75

Manning's n Values num= 3
 Sta n Val Sta n Val Sta n Val
 0 .056 122.03 .032 132.35 .056

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 122.03 132.35 5.03 4.87 4.73 .1 .3
 Ineffective Flow num= 2
 Sta L Sta R Elev Permanent
 0102.1833 F
 213.4342 351.38 F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.32	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.032
W.S. Elev (ft)	4802.29	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.12
E.G. Slope (ft/ft)	0.007170	Area (sq ft)		1.12
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.12	Top Width (ft)		5.12
Vel Total (ft/s)	1.40	Avg. Vel. (ft/s)		1.40
Max Chl Dpth (ft)	0.41	Hydr. Depth (ft)		0.22
Conv. Total (cfs)	18.4	Conv. (cfs)		18.4
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.28
Min Ch El (ft)	4801.88	Shear (lb/sq ft)		0.09
Alpha	1.00	Stream Power (lb/ft s)		0.13
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4804.10	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.43	Wt. n-Val.	0.000	0.032
0.056				
W.S. Elev (ft)	4803.67	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.00	12.38
0.06				
E.G. Slope (ft/ft)	0.011100	Area (sq ft)	0.00	12.38

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0.06				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.96
0.04				
Top Width (ft)	11.06	Top Width (ft)	0.18	10.32
0.56				
Vel Total (ft/s)	5.22	Avg. Vel. (ft/s)	0.21	5.25
0.62				
Max Chl Dpth (ft)	1.79	Hydr. Depth (ft)	0.02	1.20
0.11				
Conv. Total (cfs)	617.0	Conv. (cfs)	0.0	616.6
0.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.18	11.14
0.61				
Min Ch El (ft)	4801.88	Shear (lb/sq ft)		0.77
0.07				
Alpha	1.01	Stream Power (lb/ft s)		4.04
0.04				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.73	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.91	Wt. n-Val.	0.056	0.032
0.056				
W.S. Elev (ft)	4804.82	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.81	Flow Area (sq ft)	3.14	24.22
2.08				
E.G. Slope (ft/ft)	0.010131	Area (sq ft)	3.14	24.22
2.08				
Q Total (cfs)	200.00	Flow (cfs)	5.73	189.98
4.29				
Top Width (ft)	18.48	Top Width (ft)	5.43	10.32
2.73				
Vel Total (ft/s)	6.79	Avg. Vel. (ft/s)	1.82	7.84
2.06				
Max Chl Dpth (ft)	2.94	Hydr. Depth (ft)	0.58	2.35
0.76				
Conv. Total (cfs)	1987.0	Conv. (cfs)	56.9	1887.5
42.6				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	5.56	11.14
3.07				
Min Ch El (ft)	4801.88	Shear (lb/sq ft)	0.36	1.38
0.43				
Alpha	1.27	Stream Power (lb/ft s)	0.65	10.79
0.89				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

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E.G. Elev (ft)	4806.18	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.98	Wt. n-Val.	0.056	0.032
0.056				
W.S. Elev (ft)	4805.20	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4805.14	Flow Area (sq ft)	5.47	28.14
3.32				
E.G. Slope (ft/ft)	0.009129	Area (sq ft)	5.47	28.14
3.32				
Q Total (cfs)	250.00	Flow (cfs)	11.72	231.58
6.70				
Top Width (ft)	21.46	Top Width (ft)	6.87	10.32
4.27				
Vel Total (ft/s)	6.77	Avg. Vel. (ft/s)	2.14	8.23
2.02				
Max Chl Dpth (ft)	3.32	Hydr. Depth (ft)	0.80	2.73
0.78				
Conv. Total (cfs)	2616.6	Conv. (cfs)	122.7	2423.8
70.2				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	7.05	11.14
4.67				
Min Ch El (ft)	4801.88	Shear (lb/sq ft)	0.44	1.44
0.41				
Alpha	1.38	Stream Power (lb/ft s)	0.95	11.85
0.82				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4806.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.01	Wt. n-Val.	0.056	0.032
0.056				
W.S. Elev (ft)	4805.95	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	12.30	35.86
8.97				
E.G. Slope (ft/ft)	0.007143	Area (sq ft)	20.86	35.86
8.97				
Q Total (cfs)	350.00	Flow (cfs)	27.02	306.90
16.07				
Top Width (ft)	71.42	Top Width (ft)	48.99	10.32
12.12				
Vel Total (ft/s)	6.13	Avg. Vel. (ft/s)	2.20	8.56
1.79				
Max Chl Dpth (ft)	4.07	Hydr. Depth (ft)	0.99	3.48
0.74				
Conv. Total (cfs)	4141.3	Conv. (cfs)	319.8	3631.4
190.2				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	12.67	11.14
12.56				
Min Ch El (ft)	4801.88	Shear (lb/sq ft)	0.43	1.44
0.32				
Alpha	1.72	Stream Power (lb/ft s)	0.95	12.29
0.57				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.02

0.01	low_littledominguez.rep			
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.01
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4807.67	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.81	Wt. n-Val.	0.056	0.032
0.056				
W.S. Elev (ft)	4806.86	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.86	Flow Area (sq ft)	28.08	45.22
39.22				
E.G. Slope (ft/ft)	0.004915	Area (sq ft)	118.67	45.22
56.18				
Q Total (cfs)	500.00	Flow (cfs)	65.25	374.68
60.07				
Top Width (ft)	252.63	Top Width (ft)	121.77	10.32
120.53				
Vel Total (ft/s)	4.44	Avg. Vel. (ft/s)	2.32	8.29
1.53				
Max Chl Dpth (ft)	4.98	Hydr. Depth (ft)	1.41	4.38
0.75				
Conv. Total (cfs)	7131.7	Conv. (cfs)	930.7	5344.2
856.8				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	20.12	11.14
52.50				
Min Ch El (ft)	4801.88	Shear (lb/sq ft)	0.43	1.25
0.23				
Alpha	2.66	Stream Power (lb/ft s)	1.00	10.32
0.35				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.05	0.02
0.03				
C & E Loss (ft)	0.02	Cum SA (acres)	0.07	0.01
0.06				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 9.33333*

INPUT
 Description:

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Station Elevation Data		num= 52		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.33	.93	4805.33	1.04	4805.17	17.46	4805.8	56.31	4806.05		
98.98	4806.16	99.09	4806.16	103.88	4806.27	112.64	4805.43	113.57	4805.25		
116.5	4804.53	118.26	4804.26	120.81	4803.58	122.15	4803.06	122.81	4802.72		
123.3	4802.51	123.71	4802.3	124.15	4802.15	124.83	4801.86	125.97	4802.02		
126.32	4802.02	126.78	4802.03	127.29	4802.17	127.31	4802.16	127.61	4802		
128.04	4802.02	128.59	4802.16	128.67	4802.17	129.63	4802.35	129.74	4802.42		
130.35	4802.69	130.68	4802.79	131.14	4803.39	132.63	4803.96	134.19	4804.98		
135.11	4805.12	141.82	4805.77	160.88	4806.16	167.06	4806.34	176.74	4806.63		
197.89	4807.14	239.24	4807.26	253.14	4807.26	254.05	4807.26	268.53	4806.77		
275.19	4806.31	299.19	4806.66	316.3	4806.6	331.36	4806.4	332.38	4806.39		
342.66	4807.04	353.31	4807.48								

Manning's n Values		num= 3		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val
0	.057	120.81	.032	131.14	.057

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	120.81	131.14		5.03	4.87	.1	.3

Ineffective Flow		num= 2		Sta L Sta R Elev Permanent	
Sta L	Sta R	Elev	Permanent		
0100.7467			F		
210.1133	353.31		F		

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.29	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.032
W.S. Elev (ft)	4802.25	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.07
E.G. Slope (ft/ft)	0.008500	Area (sq ft)		1.07
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.26	Top Width (ft)		5.26
Vel Total (ft/s)	1.45	Avg. Vel. (ft/s)		1.45
Max Chl Dpth (ft)	0.39	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	16.9	Conv. (cfs)		16.9
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.43
Min Ch El (ft)	4801.86	Shear (lb/sq ft)		0.10
Alpha	1.00	Stream Power (lb/ft s)		0.15
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

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E.G. Elev (ft)	4804.05	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.43	Wt. n-Val.	0.000	0.032
0.057				
W.S. Elev (ft)	4803.62	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.00	12.29
0.07				
E.G. Slope (ft/ft)	0.011432	Area (sq ft)	0.00	12.29
0.07				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.96
0.04				
Top Width (ft)	11.05	Top Width (ft)	0.13	10.33
0.59				
Vel Total (ft/s)	5.26	Avg. Vel. (ft/s)	0.18	5.29
0.62				
Max Chl Dpth (ft)	1.76	Hydr. Depth (ft)	0.02	1.19
0.11				
Conv. Total (cfs)	607.9	Conv. (cfs)	0.0	607.6
0.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.14	11.18
0.63				
Min Ch El (ft)	4801.86	Shear (lb/sq ft)		0.78
0.08				
Alpha	1.01	Stream Power (lb/ft s)		4.15
0.05				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.69	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.92	Wt. n-Val.	0.057	0.032
0.057				
W.S. Elev (ft)	4804.77	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.77	Flow Area (sq ft)	2.93	24.18
2.12				
E.G. Slope (ft/ft)	0.010291	Area (sq ft)	2.93	24.18
2.12				
Q Total (cfs)	200.00	Flow (cfs)	5.14	190.47
4.39				
Top Width (ft)	18.33	Top Width (ft)	5.27	10.33
2.72				
Vel Total (ft/s)	6.84	Avg. Vel. (ft/s)	1.76	7.88
2.07				
Max Chl Dpth (ft)	2.91	Hydr. Depth (ft)	0.56	2.34
0.78				
Conv. Total (cfs)	1971.5	Conv. (cfs)	50.7	1877.5
43.3				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	5.41	11.18
3.07				
Min Ch El (ft)	4801.86	Shear (lb/sq ft)	0.35	1.39
0.44				
Alpha	1.27	Stream Power (lb/ft s)	0.61	10.94
0.92				

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Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00 0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.00
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.99	Wt. n-Val.	0.057	0.032
0.057				
W.S. Elev (ft)	4805.15	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4805.06	Flow Area (sq ft)	5.25	28.15
3.36				
E.G. Slope (ft/ft)	0.009240	Area (sq ft)	5.25	28.15
3.36				
Q Total (cfs)	250.00	Flow (cfs)	10.84	232.44
6.72				
Top Width (ft)	21.45	Top Width (ft)	6.83	10.33
4.28				
Vel Total (ft/s)	6.80	Avg. Vel. (ft/s)	2.06	8.26
2.00				
Max Chl Dpth (ft)	3.29	Hydr. Depth (ft)	0.77	2.72
0.78				
Conv. Total (cfs)	2600.8	Conv. (cfs)	112.8	2418.1
69.9				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	7.02	11.18
4.70				
Min Ch El (ft)	4801.86	Shear (lb/sq ft)	0.43	1.45
0.41				
Alpha	1.38	Stream Power (lb/ft s)	0.89	11.99
0.82				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4806.92	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.04	Wt. n-Val.	0.057	0.032
0.057				
W.S. Elev (ft)	4805.89	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4805.76	Flow Area (sq ft)	12.14	35.74
9.55				
E.G. Slope (ft/ft)	0.007391	Area (sq ft)	19.42	35.74
9.55				
Q Total (cfs)	350.00	Flow (cfs)	25.79	309.51
14.70				
Top Width (ft)	69.62	Top Width (ft)	42.98	10.33
16.31				
Vel Total (ft/s)	6.10	Avg. Vel. (ft/s)	2.12	8.66
1.54				
Max Chl Dpth (ft)	4.03	Hydr. Depth (ft)	0.94	3.46

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0.59				
Conv. Total (cfs)	4071.1	Conv. (cfs)	299.9	3600.1
171.0				
Length Wtd. (ft)	4.88	Wetted Per. (ft)	13.15	11.18
16.76				
Min Ch El (ft)	4801.86	Shear (lb/sq ft)	0.43	1.47
0.26				
Alpha	1.80	Stream Power (lb/ft s)	0.90	12.77
0.40				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.02
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.00
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4807.61	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.04	Wt. n-Val.	0.057	0.032
0.057				
W.S. Elev (ft)	4806.57	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.76	Flow Area (sq ft)	23.94	42.77
30.77				
E.G. Slope (ft/ft)	0.006533	Area (sq ft)	87.50	42.77
34.96				
Q Total (cfs)	500.00	Flow (cfs)	56.27	392.61
51.13				
Top Width (ft)	211.89	Top Width (ft)	120.45	10.33
81.10				
Vel Total (ft/s)	5.13	Avg. Vel. (ft/s)	2.35	9.18
1.66				
Max Chl Dpth (ft)	4.71	Hydr. Depth (ft)	1.19	4.14
0.71				
Conv. Total (cfs)	6186.1	Conv. (cfs)	696.2	4857.4
632.6				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	20.32	11.18
43.94				
Min Ch El (ft)	4801.86	Shear (lb/sq ft)	0.48	1.56
0.29				
Alpha	2.55	Stream Power (lb/ft s)	1.13	14.32
0.47				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.04	0.02
0.02				
C & E Loss (ft)	0.07	Cum SA (acres)	0.05	0.00
0.04				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
 REACH: C RS: 9.25*

INPUT

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Description:

Station Elevation Data		num=		52					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.25	.92	4805.28	1.03	4805.1	17.29	4805.78	55.75	4806.01
97.99	4806.14	98.09	4806.13	102.84	4806.13	111.51	4805.33	112.43	4805.18
115.32	4804.52	117.07	4804.26	119.6	4803.53	120.92	4803.03	121.58	4802.72
122.07	4802.51	122.47	4802.31	122.91	4802.15	123.58	4801.83	124.74	4802
125.08	4801.99	125.55	4802	126.05	4802.15	126.08	4802.13	126.38	4801.95
126.82	4801.97	127.37	4802.08	127.45	4802.09	128.41	4802.21	128.53	4802.28
129.14	4802.57	129.47	4802.67	129.93	4803.33	131.44	4803.9	133.02	4804.96
133.96	4805.08	140.76	4805.61	160.09	4806.06	166.36	4806.25	176.18	4806.57
197.62	4807.11	239.56	4807.21	253.65	4807.21	254.58	4807.2	269.26	4806.67
276.02	4806.17	300.36	4806.59	317.71	4806.55	332.98	4806.4	334.01	4806.39
344.44	4806.88	355.24	4807.21						

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.057	119.6	.031	129.93	.057

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	119.6	129.93		5.03	4.87	4.73	.1
Ineffective Flow	num=		2				
Sta L	Sta R	Elev	Permanent				
0	99.31		F				
206.7925	355.24		F				

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.24	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.031
W.S. Elev (ft)	4802.21	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.05
E.G. Slope (ft/ft)	0.009445	Area (sq ft)		1.05
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.63	Top Width (ft)		5.63
Vel Total (ft/s)	1.49	Avg. Vel. (ft/s)		1.49
Max Chl Dpth (ft)	0.38	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	16.0	Conv. (cfs)		16.0
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.82
Min Ch El (ft)	4801.83	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.16
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

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E.G. Elev (ft)	4804.00	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.44	Wt. n-Val.	0.000	0.031
0.057				
W.S. Elev (ft)	4803.56	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.00	12.20
0.07				
E.G. Slope (ft/ft)	0.011049	Area (sq ft)	0.00	12.20
0.07				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.96
0.04				
Top Width (ft)	11.02	Top Width (ft)	0.09	10.33
0.60				
Vel Total (ft/s)	5.30	Avg. Vel. (ft/s)	0.15	5.32
0.61				
Max Chl Dpth (ft)	1.73	Hydr. Depth (ft)	0.01	1.18
0.11				
Conv. Total (cfs)	618.4	Conv. (cfs)	0.0	618.0
0.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.10	11.24
0.64				
Min Ch El (ft)	4801.83	Shear (lb/sq ft)		0.75
0.07				
Alpha	1.01	Stream Power (lb/ft s)		3.99
0.04				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.65	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.93	Wt. n-Val.	0.057	0.031
0.057				
W.S. Elev (ft)	4804.71	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.71	Flow Area (sq ft)	2.70	24.12
2.14				
E.G. Slope (ft/ft)	0.009875	Area (sq ft)	2.70	24.12
2.14				
Q Total (cfs)	200.00	Flow (cfs)	4.49	191.14
4.37				
Top Width (ft)	18.16	Top Width (ft)	5.11	10.33
2.72				
Vel Total (ft/s)	6.91	Avg. Vel. (ft/s)	1.66	7.93
2.04				
Max Chl Dpth (ft)	2.88	Hydr. Depth (ft)	0.53	2.33
0.79				
Conv. Total (cfs)	2012.7	Conv. (cfs)	45.2	1923.5
44.0				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	5.26	11.24
3.07				
Min Ch El (ft)	4801.83	Shear (lb/sq ft)	0.32	1.32
0.43				
Alpha	1.26	Stream Power (lb/ft s)	0.53	10.49

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0.88				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.10	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.05	Wt. n-Val.	0.057	0.031
0.057				
W.S. Elev (ft)	4805.05	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.99	Flow Area (sq ft)	4.70	27.64
3.18				
E.G. Slope (ft/ft)	0.009402	Area (sq ft)	4.70	27.64
3.18				
Q Total (cfs)	250.00	Flow (cfs)	9.29	234.06
6.65				
Top Width (ft)	20.73	Top Width (ft)	6.60	10.33
3.80				
Vel Total (ft/s)	7.04	Avg. Vel. (ft/s)	1.98	8.47
2.09				
Max Chl Dpth (ft)	3.22	Hydr. Depth (ft)	0.71	2.68
0.84				
Conv. Total (cfs)	2578.3	Conv. (cfs)	95.8	2413.9
68.6				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.79	11.24
4.23				
Min Ch El (ft)	4801.83	Shear (lb/sq ft)	0.41	1.44
0.44				
Alpha	1.36	Stream Power (lb/ft s)	0.80	12.23
0.92				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4806.88	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.02	Wt. n-Val.	0.057	0.031
0.057				
W.S. Elev (ft)	4805.86	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4805.61	Flow Area (sq ft)	12.51	35.97
11.24				
E.G. Slope (ft/ft)	0.006828	Area (sq ft)	19.97	35.97
11.24				
Q Total (cfs)	350.00	Flow (cfs)	24.96	309.54
15.50				
Top Width (ft)	75.33	Top Width (ft)	43.52	10.33
21.48				
Vel Total (ft/s)	5.86	Avg. Vel. (ft/s)	1.99	8.60
1.38				

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Max Chl Dpth (ft)	4.03	Hydr. Depth (ft)	0.91	3.48
0.52				
Conv. Total (cfs)	4235.6	Conv. (cfs)	302.0	3746.0
187.6				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	14.05	11.24
21.94				
Min Ch El (ft)	4801.83	Shear (lb/sq ft)	0.38	1.36
0.22				
Alpha	1.92	Stream Power (lb/ft s)	0.76	11.74
0.30				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.01
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.00
0.01				

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4807.51	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.82	Wt. n-Val.	0.057	0.031
0.057				
W.S. Elev (ft)	4806.68	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.68	Flow Area (sq ft)	27.91	44.50
41.52				
E.G. Slope (ft/ft)	0.004858	Area (sq ft)	105.53	44.50
57.08				
Q Total (cfs)	500.00	Flow (cfs)	62.20	372.22
65.58				
Top Width (ft)	251.81	Top Width (ft)	119.34	10.33
122.14				
Vel Total (ft/s)	4.39	Avg. Vel. (ft/s)	2.23	8.36
1.58				
Max Chl Dpth (ft)	4.85	Hydr. Depth (ft)	1.38	4.31
0.82				
Conv. Total (cfs)	7173.8	Conv. (cfs)	892.5	5340.4
940.9				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	20.54	11.24
51.24				
Min Ch El (ft)	4801.83	Shear (lb/sq ft)	0.41	1.20
0.25				
Alpha	2.75	Stream Power (lb/ft s)	0.92	10.05
0.39				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.03	0.01
0.02				
C & E Loss (ft)	0.02	Cum SA (acres)	0.04	0.00
0.03				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: The cross section had to be extended vertically during the critical depth calculations.

Warning: During the standard step iterations, when the assumed water surface was set

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equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower little dom

REACH: C

RS: 9.16666*

INPUT

Description:

Station	Elevation	Data	num=	52	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807.17	.91	4805.23	1.02	4805.03	17.11	4805.76	55.18	4805.97			
96.99	4806.11	97.09	4806.1	101.79	4805.98	110.38	4805.23	111.28	4805.1			
114.15	4804.52	115.88	4804.25	118.38	4803.48	119.69	4803	120.34	4802.71			
120.83	4802.52	121.24	4802.32	121.66	4802.15	122.34	4801.8	123.5	4801.98			
123.85	4801.97	124.31	4801.97	124.82	4802.12	124.85	4802.11	125.16	4801.9			
125.59	4801.92	126.15	4802.01	126.22	4802.01	127.2	4802.08	127.31	4802.14			
127.92	4802.44	128.26	4802.55	128.73	4803.27	130.26	4803.84	131.86	4804.95			
132.81	4805.03	139.71	4805.46	159.31	4805.95	165.66	4806.16	175.62	4806.51			
197.36	4807.09	239.88	4807.15	254.17	4807.15	255.11	4807.15	270	4806.58			
276.85	4806.02	301.52	4806.53	319.12	4806.5	334.6	4806.39	335.64	4806.39			
346.22	4806.71	357.17	4806.93									

Manning's n	Values	num=	3	Sta	n Val	Sta	n Val	Sta	n Val
0	.058	118.38	.031	128.73	.058				

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
118.38	128.73	5.03	4.87	4.73	.1	.3			

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
097.87334			F
203.4717	357.17		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.19	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.031
W.S. Elev (ft)	4802.16	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)		1.02
E.G. Slope (ft/ft)	0.010459	Area (sq ft)		1.02
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.70	Top Width (ft)		5.70
Vel Total (ft/s)	1.52	Avg. Vel. (ft/s)		1.52
Max Chl Dpth (ft)	0.36	Hydr. Depth (ft)		0.18
Conv. Total (cfs)	15.2	Conv. (cfs)		15.2
Length Wtd. (ft)	4.87	Wetted Per. (ft)		5.92

Min Ch El (ft)	4801.80	low_littledominguez.rep Shear (lb/sq ft)	0.11
Alpha	1.00	Stream Power (lb/ft s)	0.17
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4803.94	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.45	Wt. n-Val.	0.000	0.031
0.058				
W.S. Elev (ft)	4803.50	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)		Flow Area (sq ft)	0.00	12.12
0.07				
E.G. Slope (ft/ft)	0.011387	Area (sq ft)	0.00	12.12
0.07				
Q Total (cfs)	65.00	Flow (cfs)	0.00	64.96
0.04				
Top Width (ft)	11.02	Top Width (ft)	0.06	10.35
0.61				
Vel Total (ft/s)	5.33	Avg. Vel. (ft/s)	0.12	5.36
0.62				
Max Chl Dpth (ft)	1.70	Hydr. Depth (ft)	0.01	1.17
0.11				
Conv. Total (cfs)	609.1	Conv. (cfs)	0.0	608.7
0.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	0.06	11.30
0.65				
Min Ch El (ft)	4801.80	Shear (lb/sq ft)		0.76
0.08				
Alpha	1.01	Stream Power (lb/ft s)		4.09
0.05				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.96	Wt. n-Val.	0.058	0.031
0.058				
W.S. Elev (ft)	4804.64	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.66	Flow Area (sq ft)	2.39	23.89
2.11				
E.G. Slope (ft/ft)	0.010352	Area (sq ft)	2.39	23.89
2.11				
Q Total (cfs)	200.00	Flow (cfs)	3.83	191.85
4.32				
Top Width (ft)	17.82	Top Width (ft)	4.80	10.35

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2.68				
Vel Total (ft/s)	7.05	Avg. Vel. (ft/s)	1.60	8.03
2.05				
Max Chl Dpth (ft)	2.83	Hydr. Depth (ft)	0.50	2.31
0.79				
Conv. Total (cfs)	1965.7	Conv. (cfs)	37.7	1885.6
42.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	4.95	11.30
3.03				
Min Ch El (ft)	4801.80	Shear (lb/sq ft)	0.31	1.37
0.45				
Alpha	1.25	Stream Power (lb/ft s)	0.50	10.97
0.92				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.06	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.05	Wt. n-Val.	0.058	0.031
0.058				
W.S. Elev (ft)	4805.00	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.94	Flow Area (sq ft)	4.48	27.68
3.20				
E.G. Slope (ft/ft)	0.009490	Area (sq ft)	4.48	27.68
3.20				
Q Total (cfs)	250.00	Flow (cfs)	8.47	234.86
6.67				
Top Width (ft)	20.70	Top Width (ft)	6.61	10.35
3.74				
Vel Total (ft/s)	7.07	Avg. Vel. (ft/s)	1.89	8.48
2.08				
Max Chl Dpth (ft)	3.20	Hydr. Depth (ft)	0.68	2.67
0.85				
Conv. Total (cfs)	2566.4	Conv. (cfs)	87.0	2411.0
68.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.80	11.30
4.19				
Min Ch El (ft)	4801.80	Shear (lb/sq ft)	0.39	1.45
0.45				
Alpha	1.36	Stream Power (lb/ft s)	0.74	12.31
0.94				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4806.82	Element	Left OB	Channel
Right OB				

	low_littledominguez.rep			
Vel Head (ft)	0.94	Wt. n-Val.	0.058	0.031
0.058				
W.S. Elev (ft)	4805.87	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4805.87	Flow Area (sq ft)	13.67	36.71
14.52				
E.G. Slope (ft/ft)	0.006269	Area (sq ft)	22.74	36.71
14.52				
Q Total (cfs)	350.00	Flow (cfs)	25.37	305.62
19.01				
Top Width (ft)	90.43	Top Width (ft)	52.55	10.35
27.53				
Vel Total (ft/s)	5.39	Avg. Vel. (ft/s)	1.86	8.32
1.31				
Max Chl Dpth (ft)	4.07	Hydr. Depth (ft)	0.89	3.55
0.53				
Conv. Total (cfs)	4420.4	Conv. (cfs)	320.4	3859.8
240.1				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	15.61	11.30
28.01				
Min Ch El (ft)	4801.80	Shear (lb/sq ft)	0.34	1.27
0.20				
Alpha	2.09	Stream Power (lb/ft s)	0.64	10.58
0.27				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.00
0.01				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION OUTPUT Profile #PF 6

		Element	Left OB	Channel
E.G. Elev (ft)	4807.43			
Right OB				
Vel Head (ft)	0.98	Wt. n-Val.	0.058	0.031
0.058				
W.S. Elev (ft)	4806.45	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.60	Flow Area (sq ft)	24.83	42.69
35.78				
E.G. Slope (ft/ft)	0.005995	Area (sq ft)	82.14	42.69
41.80				
Q Total (cfs)	500.00	Flow (cfs)	55.51	384.21
60.28				
Top Width (ft)	211.41	Top Width (ft)	118.04	10.35
83.02				
Vel Total (ft/s)	4.84	Avg. Vel. (ft/s)	2.24	9.00
1.68				
Max Chl Dpth (ft)	4.65	Hydr. Depth (ft)	1.21	4.12
0.79				

low_littledominguez.rep				
Conv. Total (cfs)	6457.8	Conv. (cfs)	716.9	4962.4
778.5				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	20.74	11.30
45.70				
Min Ch El (ft)	4801.80	Shear (lb/sq ft)	0.45	1.41
0.29				
Alpha	2.70	Stream Power (lb/ft s)	1.00	12.72
0.49				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.02	0.01
0.01				
C & E Loss (ft)	0.05	Cum SA (acres)	0.03	0.00
0.02				

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: lower little dom
REACH: C RS: 9.08333*

INPUT

Description:

Station	Elevation	Data	num=	52
Sta	Elev	Sta	Elev	Sta
0	4807.08	.9	4805.18	1.01
96	4806.08	96.1	4806.07	100.75
112.98	4804.51	114.69	4804.24	117.17
119.6	4802.52	120	4802.33	120.42
122.61	4801.95	123.08	4801.94	123.59
124.36	4801.87	124.92	4801.93	125
126.71	4802.32	127.05	4802.43	127.52
131.66	4804.99	138.65	4805.31	158.52
197.09	4807.07	240.2	4807.1	254.68
277.67	4805.88	302.69	4806.46	320.52
348	4806.55	359.1	4806.66	

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.059	117.17	.03
		127.52	.059

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	117.17	127.52		5.03	4.87	4.73		.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
096.43667			F
200.1508	359.1		F

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4802.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.030
W.S. Elev (ft)	4802.11	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4802.06	Flow Area (sq ft)		1.04
E.G. Slope (ft/ft)	0.009706	Area (sq ft)		1.04

Q Total (cfs)	low_littledominguez.rep 1.56	Flow (cfs)	1.56
Top Width (ft)	5.80	Top Width (ft)	5.80
Vel Total (ft/s)	1.50	Avg. Vel. (ft/s)	1.50
Max Chl Dpth (ft)	0.34	Hydr. Depth (ft)	0.18
Conv. Total (cfs)	15.8	Conv. (cfs)	15.8
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.06
Min Ch El (ft)	4801.77	Shear (lb/sq ft)	0.10
Alpha	1.00	Stream Power (lb/ft s)	0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.

This may indicate the need for additional cross sections.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4803.89	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.46	Wt. n-Val.		0.030
0.059				
W.S. Elev (ft)	4803.43	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4803.35	Flow Area (sq ft)		11.98
0.07				
E.G. Slope (ft/ft)	0.011191	Area (sq ft)	0.00	11.98
0.07				
Q Total (cfs)	65.00	Flow (cfs)		64.96
0.04				
Top Width (ft)	10.97	Top Width (ft)	0.01	10.35
0.61				
Vel Total (ft/s)	5.40	Avg. Vel. (ft/s)		5.42
0.59				
Max Chl Dpth (ft)	1.66	Hydr. Depth (ft)		1.16
0.11				
Conv. Total (cfs)	614.4	Conv. (cfs)		614.1
0.4				
Length Wtd. (ft)	4.87	Wetted Per. (ft)		11.37
0.65				
Min Ch El (ft)	4801.77	Shear (lb/sq ft)		0.74
0.07				
Alpha	1.01	Stream Power (lb/ft s)		3.99
0.04				
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 3

		Element	Left OB	Channel
E.G. Elev (ft)	4805.56			
Right OB				
Vel Head (ft)	0.96	Wt. n-Val.	0.059	0.030
0.059				
W.S. Elev (ft)	4804.60	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.59	Flow Area (sq ft)	2.30	24.03
2.18				
E.G. Slope (ft/ft)	0.009615	Area (sq ft)	2.30	24.03
2.18				
Q Total (cfs)	200.00	Flow (cfs)	3.46	192.25
4.30				
Top Width (ft)	17.73	Top Width (ft)	4.68	10.35
2.70				
Vel Total (ft/s)	7.01	Avg. Vel. (ft/s)	1.50	8.00
1.97				
Max Chl Dpth (ft)	2.83	Hydr. Depth (ft)	0.49	2.32
0.81				
Conv. Total (cfs)	2039.6	Conv. (cfs)	35.2	1960.6
43.8				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	4.83	11.37
3.06				
Min Ch El (ft)	4801.77	Shear (lb/sq ft)	0.29	1.27
0.43				
Alpha	1.25	Stream Power (lb/ft s)	0.43	10.15
0.84				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 4

		Element	Left OB	Channel
E.G. Elev (ft)	4806.02			
Right OB				
Vel Head (ft)	1.06	Wt. n-Val.	0.059	0.030
0.059				
W.S. Elev (ft)	4804.95	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4804.91	Flow Area (sq ft)	4.29	27.69
3.22				
E.G. Slope (ft/ft)	0.009013	Area (sq ft)	4.29	27.69
3.22				
Q Total (cfs)	250.00	Flow (cfs)	7.54	235.64
6.82				
Top Width (ft)	20.36	Top Width (ft)	6.60	10.35
3.40				
Vel Total (ft/s)	7.10	Avg. Vel. (ft/s)	1.76	8.51
2.11				
Max Chl Dpth (ft)	3.18	Hydr. Depth (ft)	0.65	2.68
0.95				
Conv. Total (cfs)	2633.4	Conv. (cfs)	79.5	2482.1
71.8				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	6.79	11.37

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3.88				
Min Ch El (ft)	4801.77	Shear (lb/sq ft)	0.36	1.37
0.47				
Alpha	1.36	Stream Power (lb/ft s)	0.62	11.66
0.99				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 5

E.G. Elev (ft)	4806.77	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.11	Wt. n-Val.	0.059	0.030
0.059				
W.S. Elev (ft)	4805.67	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4805.84	Flow Area (sq ft)	11.56	35.08
12.15				
E.G. Slope (ft/ft)	0.007216	Area (sq ft)	16.71	35.08
12.15				
Q Total (cfs)	350.00	Flow (cfs)	21.12	312.80
16.08				
Top Width (ft)	63.84	Top Width (ft)	29.01	10.35
24.48				
Vel Total (ft/s)	5.95	Avg. Vel. (ft/s)	1.83	8.92
1.32				
Max Chl Dpth (ft)	3.90	Hydr. Depth (ft)	0.80	3.39
0.50				
Conv. Total (cfs)	4120.3	Conv. (cfs)	248.7	3682.4
189.3				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	14.66	11.37
24.97				
Min Ch El (ft)	4801.77	Shear (lb/sq ft)	0.36	1.39
0.22				
Alpha	2.01	Stream Power (lb/ft s)	0.65	12.39
0.29				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.00	0.00
0.00				

Warning: Divided flow computed for this cross-section.

Note: Program found supercritical flow starting at this cross section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4807.35	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.82	Wt. n-Val.	0.059	0.030
0.059				
W.S. Elev (ft)	4806.53	Reach Len. (ft)	5.03	4.87
4.73				
Crit W.S. (ft)	4806.53	Flow Area (sq ft)	28.05	43.99
44.73				
E.G. Slope (ft/ft)	0.004741	Area (sq ft)	94.93	43.99

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59.95				
Q Total (cfs)	500.00	Flow (cfs)	59.06	369.65
71.30				
Top Width (ft)	254.33	Top Width (ft)	116.91	10.35
127.07				
Vel Total (ft/s)	4.28	Avg. Vel. (ft/s)	2.11	8.40
1.59				
Max Chl Dpth (ft)	4.76	Hydr. Depth (ft)	1.35	4.25
0.89				
Conv. Total (cfs)	7261.7	Conv. (cfs)	857.7	5368.5
1035.5				
Length Wtd. (ft)	4.87	Wetted Per. (ft)	20.97	11.37
50.75				
Min Ch El (ft)	4801.77	Shear (lb/sq ft)	0.40	1.14
0.26				
Alpha	2.90	Stream Power (lb/ft s)	0.83	9.62
0.42				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.00
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.00
0.01				

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: Divided flow computed for this cross-section.

Warning: The cross section had to be extended vertically during the critical depth calculations.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower little dom

REACH: C RS: 9

INPUT

Description: cross section T

Station Elevation Data		num= 30							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4807	1	4804.89	16.76	4805.73	954806.052	108.9994804.958		
113.5044804.228		115.9544803.382		118.365	4802.53	119.1814802.148		119.8414801.743	
121.0164801.935		121.8434801.904		122.3614802.074		122.6974801.798		123.7014801.853	
124.7644801.807		125.501	4802.2	125.8384802.314		126.3134803.145		127.8874803.715	
129.5344804.925		157.732	4805.73	174.4934806.386		196.834807.042		256.1654807.042	
271.4644806.386		278.502	4805.73	303.8564806.386		337.8374806.386		361.034806.386	

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.06	115.954	.03	126.313	.06

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	115.954	126.313		.1	.3

Ineffective Flow		num= 2	
Sta L	Sta R	Elev	Permanent
0	95		F

196.83 361.03

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F

CROSS SECTION OUTPUT Profile #PF 1

		Element	Left OB	Channel
E.G. Elev (ft)	4802.07			
Right OB				
Vel Head (ft)	0.06	Wt. n-Val.		0.030
W.S. Elev (ft)	4802.01	Reach Len. (ft)		
Crit W.S. (ft)	4802.01	Flow Area (sq ft)		0.77
E.G. Slope (ft/ft)	0.024088	Area (sq ft)		0.77
Q Total (cfs)	1.56	Flow (cfs)		1.56
Top Width (ft)	5.43	Top Width (ft)		5.43
Vel Total (ft/s)	2.03	Avg. Vel. (ft/s)		2.03
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.14
Conv. Total (cfs)	10.0	Conv. (cfs)		10.0
Length Wtd. (ft)		Wetted Per. (ft)		5.66
Min Ch El (ft)	4801.74	Shear (lb/sq ft)		0.20
Alpha	1.00	Stream Power (lb/ft s)		0.41
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

Warning: Slope-Area method could not converge on a starting water surface elevation within the specified number of trials. The program used critical depth as the starting water surface.
Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

		Element	Left OB	Channel
E.G. Elev (ft)	4803.83			
Right OB				
Vel Head (ft)	0.53	Wt. n-Val.		0.030
0.060				
W.S. Elev (ft)	4803.30	Reach Len. (ft)		
Crit W.S. (ft)	4803.30	Flow Area (sq ft)		11.10
0.03				
E.G. Slope (ft/ft)	0.014118	Area (sq ft)		11.10
0.03				
Q Total (cfs)	65.00	Flow (cfs)		64.98
0.02				
Top Width (ft)	10.54	Top Width (ft)		10.12
0.42				
Vel Total (ft/s)	5.84	Avg. Vel. (ft/s)		5.85
0.51				
Max Chl Dpth (ft)	1.55	Hydr. Depth (ft)		1.10

low_littledominguez.rep			
0.08			
Conv. Total (cfs)	547.1	Conv. (cfs)	546.9
0.1			
Length Wtd. (ft)		Wetted Per. (ft)	11.19
0.45			
Min Ch El (ft)	4801.74	Shear (lb/sq ft)	0.87
0.06			
Alpha	1.00	Stream Power (lb/ft s)	5.12
0.03			
Frctn Loss (ft)		Cum Volume (acre-ft)	
C & E Loss (ft)		Cum SA (acres)	

Warning: Slope too steep for slope area to converge during supercritical flow calculations (normal depth is below critical depth).
Water surface set to critical depth.

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4805.51	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.98	Wt. n-Val.	0.060	0.030
0.060				
W.S. Elev (ft)	4804.53	Reach Len. (ft)		
Crit W.S. (ft)	4804.53	Flow Area (sq ft)	2.06	23.88
2.19				
E.G. Slope (ft/ft)	0.009954	Area (sq ft)	2.06	23.88
2.19				
Q Total (cfs)	200.00	Flow (cfs)	3.04	192.64
4.33				
Top Width (ft)	17.37	Top Width (ft)	4.32	10.36
2.69				
Vel Total (ft/s)	7.11	Avg. Vel. (ft/s)	1.47	8.07
1.98				
Max Chl Dpth (ft)	2.79	Hydr. Depth (ft)	0.48	2.31
0.81				
Conv. Total (cfs)	2004.6	Conv. (cfs)	30.4	1930.8
43.4				
Length Wtd. (ft)		Wetted Per. (ft)	4.49	11.45
3.05				
Min Ch El (ft)	4801.74	Shear (lb/sq ft)	0.29	1.30
0.45				
Alpha	1.24	Stream Power (lb/ft s)	0.42	10.46
0.88				
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

Warning: Slope too steep for slope area to converge during supercritical flow calculations (normal depth is below critical depth).
Water surface set to critical depth.

CROSS SECTION OUTPUT Profile #PF 4

low_littledominguez.rep		Left OB	Channel
E.G. Elev (ft)	4805.97	Element	
Right OB			
Vel Head (ft)	1.06	Wt. n-Val.	0.060 0.030
0.060			
W.S. Elev (ft)	4804.91	Reach Len. (ft)	
Crit W.S. (ft)	4804.91	Flow Area (sq ft)	4.13 27.78
3.29			
E.G. Slope (ft/ft)	0.009015	Area (sq ft)	4.13 27.78
3.29			
Q Total (cfs)	250.00	Flow (cfs)	6.93 235.89
7.18			
Top Width (ft)	20.54	Top Width (ft)	6.98 10.36
3.20			
Vel Total (ft/s)	7.10	Avg. Vel. (ft/s)	1.68 8.49
2.18			
Max Chl Dpth (ft)	3.16	Hydr. Depth (ft)	0.62 2.68
1.03			
Conv. Total (cfs)	2633.1	Conv. (cfs)	73.0 2484.5
75.7			
Length Wtd. (ft)		Wetted Per. (ft)	6.84 11.45
3.69			
Min Ch El (ft)	4801.74	Shear (lb/sq ft)	0.34 1.37
0.50			
Alpha	1.35	Stream Power (lb/ft s)	0.57 11.60
1.10			
Frctn Loss (ft)		Cum Volume (acre-ft)	
C & E Loss (ft)		Cum SA (acres)	

Warning: Divided flow computed for this cross-section.
Warning: Slope too steep for slope area to converge during supercritical flow calculations (normal depth is below critical depth).
Water surface set to critical depth.

CROSS SECTION OUTPUT Profile #PF 5

low_littledominguez.rep		Left OB	Channel
E.G. Elev (ft)	4806.69	Element	
Right OB			
Vel Head (ft)	0.96	Wt. n-Val.	0.060 0.030
0.060			
W.S. Elev (ft)	4805.73	Reach Len. (ft)	
Crit W.S. (ft)	4805.85	Flow Area (sq ft)	13.59 36.26
17.19			
E.G. Slope (ft/ft)	0.006198	Area (sq ft)	20.32 36.26
17.19			
Q Total (cfs)	350.00	Flow (cfs)	22.82 304.95
22.23			
Top Width (ft)	74.54	Top Width (ft)	32.88 10.36
31.30			
Vel Total (ft/s)	5.22	Avg. Vel. (ft/s)	1.68 8.41
1.29			
Max Chl Dpth (ft)	3.98	Hydr. Depth (ft)	0.81 3.50
0.55			
Conv. Total (cfs)	4445.8	Conv. (cfs)	289.8 3873.6
282.4			
Length Wtd. (ft)		Wetted Per. (ft)	17.02 11.45
31.81			

Min Ch El (ft)	4801.74	low_littledominguez.rep	Shear (lb/sq ft)	0.31	1.23
0.21					
Alpha	2.27		Stream Power (lb/ft s)	0.52	10.31
0.27					
Frctn Loss (ft)	0.03		Cum Volume (acre-ft)		
C & E Loss (ft)	0.04		Cum SA (acres)		

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 6

E.G. Elev (ft)	4807.30	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.08	Wt. n-Val.	0.060	0.030
0.060				
W.S. Elev (ft)	4806.22	Reach Len. (ft)		
Crit W.S. (ft)	4806.44	Flow Area (sq ft)	23.21	41.35
35.66				
E.G. Slope (ft/ft)	0.006514	Area (sq ft)	63.51	41.35
41.53				
Q Total (cfs)	500.00	Flow (cfs)	49.29	389.12
61.59				
Top Width (ft)	193.90	Top Width (ft)	115.58	10.36
67.95				
Vel Total (ft/s)	4.99	Avg. Vel. (ft/s)	2.12	9.41
1.73				
Max Chl Dpth (ft)	4.47	Hydr. Depth (ft)	1.11	3.99
0.81				
Conv. Total (cfs)	6195.1	Conv. (cfs)	610.7	4821.3
763.1				
Length Wtd. (ft)		Wetted Per. (ft)	21.20	11.45
44.40				
Min Ch El (ft)	4801.74	Shear (lb/sq ft)	0.45	1.47
0.33				
Alpha	2.80	Stream Power (lb/ft s)	0.95	13.82
0.56				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		
C & E Loss (ft)	0.03	Cum SA (acres)		

Warning: Divided flow computed for this cross-section.

Warning: The cross section had to be extended vertically during the critical depth calculations.

Note: Program found supercritical flow starting at this cross section.

SUMMARY OF MANNING'S N VALUES

River:lower little dom

Reach	River Sta.	n1	n2	n3
C	15	.05	.035	.06

		low_littledominguez.rep		
C	14.875*	.05	.035	.061
C	14.75*	.05	.034	.062
C	14.625*	.05	.034	.064
C	14.5*	.05	.033	.065
C	14.375*	.05	.033	.066
C	14.25*	.05	.032	.067
C	14.125*	.05	.032	.069
C	14.*	.05	.032	.07
C	13.875*	.05	.031	.071
C	13.75*	.05	.031	.072
C	13.625*	.05	.03	.074
C	13.5*	.05	.03	.075
C	13.375*	.05	.029	.076
C	13.25*	.05	.029	.078
C	13.125*	.05	.028	.079
C	13	.05	.028	.08
C	12.8571*	.05	.028	.076
C	12.7142*	.05	.029	.071
C	12.5714*	.05	.029	.067
C	12.4285*	.05	.029	.063
C	12.2857*	.05	.029	.059
C	12.1428*	.05	.03	.054
C	12	.05	.03	.05
C	11.875*	.05	.029	.054
C	11.75*	.05	.029	.058
C	11.625*	.05	.028	.061
C	11.5*	.05	.027	.065
C	11.375*	.05	.027	.069
C	11.25*	.05	.026	.072
C	11.125*	.05	.026	.076
C	11	.05	.025	.08
C	10.6666*	.05	.028	.07
C	10.3333*	.05	.032	.06
C	10	.05	.035	.05
C	9.91666*	.051	.035	.051
C	9.83333*	.052	.034	.052
C	9.75*	.053	.034	.053
C	9.66666*	.053	.033	.053
C	9.58333*	.054	.033	.054
C	9.5*	.055	.032	.055
C	9.41666*	.056	.032	.056
C	9.33333*	.057	.032	.057
C	9.25*	.057	.031	.057
C	9.16666*	.058	.031	.058
C	9.08333*	.059	.03	.059
C	9	.06	.03	.06

SUMMARY OF REACH LENGTHS

River: lower little dom

	Reach	River Sta.	Left	Channel	Right
C		15	4.76	4.84	4.82
C		14.875*	4.76	4.84	4.82
C		14.75*	4.76	4.84	4.82
C		14.625*	4.76	4.84	4.82
C		14.5*	4.76	4.84	4.82
C		14.375*	4.76	4.84	4.82
C		14.25*	4.76	4.84	4.82

		low_littledominguez.rep		
C	14.125*	4.76	4.84	4.82
C	14.*	4.76	4.84	4.82
C	13.875*	4.76	4.84	4.82
C	13.75*	4.76	4.84	4.82
C	13.625*	4.76	4.84	4.82
C	13.5*	4.76	4.84	4.82
C	13.375*	4.76	4.84	4.82
C	13.25*	4.76	4.84	4.82
C	13.125*	4.76	4.84	4.82
C	13	4.9	4.61	5.04
C	12.8571*	4.9	4.61	5.04
C	12.7142*	4.9	4.61	5.04
C	12.5714*	4.9	4.61	5.04
C	12.4285*	4.9	4.61	5.04
C	12.2857*	4.9	4.61	5.04
C	12.1428*	4.9	4.61	5.04
C	12	4.73	4.63	4.64
C	11.875*	4.73	4.63	4.64
C	11.75*	4.73	4.63	4.64
C	11.625*	4.73	4.63	4.64
C	11.5*	4.73	4.63	4.64
C	11.375*	4.73	4.63	4.64
C	11.25*	4.73	4.63	4.64
C	11.125*	4.73	4.63	4.64
C	11	3.06	3.72	3.5
C	10.6666*	3.06	3.72	3.5
C	10.3333*	3.06	3.72	3.5
C	10	5.03	4.87	4.73
C	9.91666*	5.03	4.87	4.73
C	9.83333*	5.03	4.87	4.73
C	9.75*	5.03	4.87	4.73
C	9.66666*	5.03	4.87	4.73
C	9.58333*	5.03	4.87	4.73
C	9.5*	5.03	4.87	4.73
C	9.41666*	5.03	4.87	4.73
C	9.33333*	5.03	4.87	4.73
C	9.25*	5.03	4.87	4.73
C	9.16666*	5.03	4.87	4.73
C	9.08333*	5.03	4.87	4.73
C	9			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: lower little dom

Reach	River Sta.	Contr.	Expan.
C	15	.1	.3
C	14.875*	.1	.3
C	14.75*	.1	.3
C	14.625*	.1	.3
C	14.5*	.1	.3
C	14.375*	.1	.3
C	14.25*	.1	.3
C	14.125*	.1	.3
C	14.*	.1	.3
C	13.875*	.1	.3
C	13.75*	.1	.3
C	13.625*	.1	.3
C	13.5*	.1	.3

low_littledominguez.rep

C	13.375*	.1	.3
C	13.25*	.1	.3
C	13.125*	.1	.3
C	13	.1	.3
C	12.8571*	.1	.3
C	12.7142*	.1	.3
C	12.5714*	.1	.3
C	12.4285*	.1	.3
C	12.2857*	.1	.3
C	12.1428*	.1	.3
C	12	.1	.3
C	11.875*	.1	.3
C	11.75*	.1	.3
C	11.625*	.1	.3
C	11.5*	.1	.3
C	11.375*	.1	.3
C	11.25*	.1	.3
C	11.125*	.1	.3
C	11	.1	.3
C	10.6666*	.1	.3
C	10.3333*	.1	.3
C	10	.1	.3
C	9.91666*	.1	.3
C	9.83333*	.1	.3
C	9.75*	.1	.3
C	9.66666*	.1	.3
C	9.58333*	.1	.3
C	9.5*	.1	.3
C	9.41666*	.1	.3
C	9.33333*	.1	.3
C	9.25*	.1	.3
C	9.16666*	.1	.3
C	9.08333*	.1	.3
C	9	.1	.3

Profile Output Table - Standard Table 1

Reach E.G. Elev (ft)	River Sta E.G. Slope (ft/ft)	Profile Vel Chnl (ft/s)	Q Total Flow Area (cfs) (sq ft)	Min Ch El Top Width (ft)	W.S. Elev Froude # Chl (ft)	Crit W.S. (ft)
C	15	PF 1	1.56	4805.09	4805.36	4805.30
4805.39	0.012679	1.56	1.00	5.32	0.63	
C	15	PF 2	65.00	4805.09	4806.60	4806.42
4806.89	0.010818	4.32	15.05	14.91	0.76	
C	15	PF 3	200.00	4805.09	4807.61	4807.40
4808.25	0.009876	6.48	32.34	19.54	0.81	
C	15	PF 4	250.00	4805.09	4807.88	4807.69
4808.64	0.009949	7.08	37.80	21.58	0.83	
C	15	PF 5	350.00	4805.09	4808.75	4808.44
4809.24	0.004777	6.11	87.25	94.28	0.61	
C	15	PF 6	500.00	4805.09	4809.47	4809.10
4809.81	0.003100	5.64	151.77	220.17	0.51	
C	14.875*	PF 1	1.56	4805.02	4805.29	
4805.33	0.013119	1.62	0.96	4.97	0.65	
C	14.875*	PF 2	65.00	4805.02	4806.54	
4806.83	0.010831	4.33	15.02	14.88	0.76	

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C	14.875*	PF 3	200.00	4805.02	4807.55
4808.19	0.009860	6.50	32.35	19.63	0.81
C	14.875*	PF 4	250.00	4805.02	4807.82
4808.59	0.009962	7.11	37.89	22.80	0.83
C	14.875*	PF 5	350.00	4805.02	4808.73
4809.21	0.004675	6.10	88.62	102.11	0.60
C	14.875*	PF 6	500.00	4805.02	4809.47
4809.79	0.002863	5.49	154.78	240.51	0.49
C	14.75*	PF 1	1.56	4804.96	4805.23
4805.27	0.012916	1.65	0.94	4.85	0.66
C	14.75*	PF 2	65.00	4804.96	4806.49
4806.78	0.010052	4.31	15.08	14.87	0.75
C	14.75*	PF 3	200.00	4804.96	4807.50
4808.14	0.009211	6.51	32.49	19.76	0.81
C	14.75*	PF 4	250.00	4804.96	4807.77
4808.54	0.009337	7.12	38.09	23.10	0.83
C	14.75*	PF 5	350.00	4804.96	4808.71
4809.18	0.004184	6.01	91.64	129.34	0.59
C	14.75*	PF 6	500.00	4804.96	4809.45
4809.78	0.002646	5.48	155.13	259.32	0.49
C	14.625*	PF 1	1.56	4804.89	4805.16
4805.21	0.012891	1.66	0.94	4.80	0.66
C	14.625*	PF 2	65.00	4804.89	4806.44
4806.72	0.009845	4.29	15.16	14.86	0.75
C	14.625*	PF 3	200.00	4804.89	4807.45
4808.09	0.009021	6.49	32.78	19.97	0.80
C	14.625*	PF 4	250.00	4804.89	4807.72
4808.49	0.009165	7.10	38.49	23.44	0.83
C	14.625*	PF 5	350.00	4804.89	4808.71
4809.15	0.003861	5.85	94.49	147.93	0.57
C	14.625*	PF 6	500.00	4804.89	4809.44
4809.76	0.002571	5.46	154.50	271.47	0.48
C	14.5*	PF 1	1.56	4804.83	4805.10
4805.14	0.012602	1.68	0.93	4.76	0.67
C	14.5*	PF 2	65.00	4804.83	4806.39
4806.67	0.009194	4.29	15.16	14.84	0.75
C	14.5*	PF 3	200.00	4804.83	4807.40
4808.04	0.008502	6.51	32.84	20.12	0.80
C	14.5*	PF 4	250.00	4804.83	4807.67
4808.44	0.008652	7.13	38.62	23.83	0.83
C	14.5*	PF 5	350.00	4804.83	4808.69
4809.13	0.003544	5.83	95.04	161.85	0.56
C	14.5*	PF 6	500.00	4804.83	4809.40
4809.75	0.002516	5.59	150.89	282.14	0.49
C	14.375*	PF 1	1.56	4804.77	4805.04
4805.08	0.013167	1.71	0.91	4.73	0.69
C	14.375*	PF 2	65.00	4804.77	4806.34
4806.62	0.009149	4.29	15.15	14.86	0.74
C	14.375*	PF 3	200.00	4804.77	4807.35
4808.00	0.008406	6.50	33.08	20.34	0.80
C	14.375*	PF 4	250.00	4804.77	4807.62
4808.39	0.008552	7.12	38.98	25.76	0.82
C	14.375*	PF 5	350.00	4804.77	4808.05
4809.04	0.009132	8.22	51.05	69.40	0.87
C	14.375*	PF 6	500.00	4804.77	4809.37

		low_littledominguez.rep				
		5.68	146.95	294.90		0.50
4809.73	0.002578					
C	14.25*	PF 1	1.56	4804.70	4804.97	
4805.02	0.012184	1.71	0.91	4.67	0.68	
C	14.25*	PF 2	65.00	4804.70	4806.29	
4806.58	0.008442	4.28	15.19	14.95	0.74	
C	14.25*	PF 3	200.00	4804.70	4807.30	
4807.95	0.007959	6.53	33.14	20.56	0.80	
C	14.25*	PF 4	250.00	4804.70	4807.57	4807.36
4808.34	0.008109	7.16	39.10	27.58	0.83	
C	14.25*	PF 5	350.00	4804.70	4808.07	4807.97
4809.00	0.007780	7.98	53.92	86.43	0.84	
C	14.25*	PF 6	500.00	4804.70	4809.32	
4809.71	0.002616	5.90	141.02	298.41	0.52	
C	14.125*	PF 1	1.56	4804.64	4804.91	
4804.96	0.013211	1.76	0.89	4.62	0.71	
C	14.125*	PF 2	65.00	4804.64	4806.25	
4806.53	0.008194	4.26	15.30	15.08	0.73	
C	14.125*	PF 3	200.00	4804.64	4807.26	
4807.91	0.007893	6.53	33.41	21.05	0.80	
C	14.125*	PF 4	250.00	4804.64	4807.53	4807.30
4808.29	0.007952	7.13	39.64	31.07	0.82	
C	14.125*	PF 5	350.00	4804.64	4808.02	4807.91
4808.95	0.007830	8.02	53.07	85.88	0.84	
C	14.125*	PF 6	500.00	4804.64	4809.27	
4809.69	0.002745	6.06	135.57	299.56	0.53	
C	14.*	PF 1	1.56	4804.57	4804.85	
4804.89	0.012851	1.75	0.89	4.60	0.70	
C	14.*	PF 2	65.00	4804.57	4806.21	
4806.49	0.008122	4.26	15.32	15.16	0.73	
C	14.*	PF 3	200.00	4804.57	4807.21	
4807.86	0.008012	6.57	33.43	21.36	0.81	
C	14.*	PF 4	250.00	4804.57	4807.48	4807.28
4808.25	0.008054	7.16	39.71	34.54	0.82	
C	14.*	PF 5	350.00	4804.57	4807.96	4807.83
4808.91	0.008021	8.09	52.45	88.67	0.85	
C	14.*	PF 6	500.00	4804.57	4809.21	
4809.67	0.002922	6.24	129.55	300.72	0.54	
C	13.875*	PF 1	1.56	4804.51	4804.78	
4804.83	0.012768	1.78	0.88	4.60	0.72	
C	13.875*	PF 2	65.00	4804.51	4806.16	
4806.45	0.007622	4.27	15.31	15.29	0.73	
C	13.875*	PF 3	200.00	4804.51	4807.15	
4807.82	0.007677	6.63	33.43	21.70	0.81	
C	13.875*	PF 4	250.00	4804.51	4807.43	4807.26
4808.20	0.007704	7.22	39.76	39.31	0.83	
C	13.875*	PF 5	350.00	4804.51	4807.90	4807.80
4808.86	0.007697	8.16	52.36	101.87	0.86	
C	13.875*	PF 6	500.00	4804.51	4809.14	
4809.65	0.003055	6.56	122.16	301.78	0.57	
C	13.75*	PF 1	1.56	4804.45	4804.72	
4804.77	0.013692	1.82	0.86	4.58	0.74	
C	13.75*	PF 2	65.00	4804.45	4806.12	
4806.40	0.007678	4.29	15.29	15.45	0.73	

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C	13.75*	PF 3	200.00	4804.45	4807.10
4807.77	0.007820	6.68	33.51	22.04	0.82
C	13.75*	PF 4	250.00	4804.45	4807.38
4808.16	0.007730	7.23	40.11	50.90	0.83
C	13.75*	PF 5	350.00	4804.45	4807.86
4808.82	0.007640	8.14	52.95	109.55	0.85
C	13.75*	PF 6	500.00	4804.45	4809.07
4809.64	0.003308	6.80	115.71	302.94	0.60
C	13.625*	PF 1	1.56	4804.38	4804.65
4804.70	0.012632	1.81	0.86	4.56	0.74
C	13.625*	PF 2	65.00	4804.38	4806.08
4806.36	0.007189	4.30	15.30	15.58	0.73
C	13.625*	PF 3	200.00	4804.38	4807.04
4807.73	0.007648	6.78	33.28	23.15	0.84
C	13.625*	PF 4	250.00	4804.38	4807.32
4808.11	0.007534	7.33	39.90	60.47	0.85
C	13.625*	PF 5	350.00	4804.38	4807.79
4808.78	0.007473	8.27	52.55	113.57	0.87
C	13.625*	PF 6	500.00	4804.38	4808.96
4809.62	0.003606	7.24	106.90	303.83	0.64
C	13.5*	PF 1	1.56	4804.32	4804.58
4804.64	0.014019	1.87	0.83	4.55	0.77
C	13.5*	PF 2	65.00	4804.32	4806.03
4806.32	0.007304	4.34	15.26	15.79	0.73
C	13.5*	PF 3	200.00	4804.32	4806.98
4807.68	0.007858	6.84	33.31	31.22	0.85
C	13.5*	PF 4	250.00	4804.32	4807.27
4808.07	0.007674	7.38	40.06	68.57	0.85
C	13.5*	PF 5	350.00	4804.32	4807.76
4808.73	0.007392	8.24	53.32	142.43	0.87
C	13.5*	PF 6	500.00	4804.32	4808.88
4809.60	0.003913	7.49	101.17	305.13	0.67
C	13.375*	PF 1	1.56	4804.25	4804.52
4804.57	0.013593	1.81	0.86	5.11	0.78
C	13.375*	PF 2	65.00	4804.25	4805.98
4806.28	0.007140	4.40	15.10	15.95	0.75
C	13.375*	PF 3	200.00	4804.25	4806.92
4807.64	0.007790	6.97	33.02	52.90	0.87
C	13.375*	PF 4	250.00	4804.25	4807.20
4808.03	0.007557	7.50	39.81	74.16	0.87
C	13.375*	PF 5	350.00	4804.25	4807.69
4808.69	0.007282	8.38	53.02	153.08	0.89
C	13.375*	PF 6	500.00	4804.25	4808.51
4809.54	0.005608	8.74	83.33	303.60	0.81
C	13.25*	PF 1	1.56	4804.19	4804.45
4804.50	0.014463	1.84	0.85	5.13	0.80
C	13.25*	PF 2	65.00	4804.19	4805.93
4806.24	0.007647	4.50	14.84	16.08	0.77
C	13.25*	PF 3	200.00	4804.19	4806.86
4807.60	0.008182	7.08	32.83	60.16	0.89
C	13.25*	PF 4	250.00	4804.19	4807.14
4807.99	0.007860	7.59	39.74	80.47	0.89
C	13.25*	PF 5	350.00	4804.19	4807.64
4808.65	0.007498	8.46	53.19	179.23	0.90
C	13.25*	PF 6	500.00	4804.19	4808.25
					4808.30

low_littledominguez.rep						
4809.46	0.007166	9.44	72.73	298.05	0.91	
C	13.125*	PF 1	1.56	4804.12	4804.38	
4804.43	0.014335	1.90	0.82	4.98	0.82	
C	13.125*	PF 2	65.00	4804.12	4805.87	4805.73
4806.20	0.007871	4.64	14.45	16.18	0.80	
C	13.125*	PF 3	200.00	4804.12	4806.78	4806.76
4807.56	0.008245	7.25	32.39	65.25	0.91	
C	13.125*	PF 4	250.00	4804.12	4807.07	
4807.95	0.007827	7.75	39.41	84.85	0.91	
C	13.125*	PF 5	350.00	4804.12	4807.57	4807.54
4808.61	0.007376	8.60	53.04	194.81	0.92	
C	13.125*	PF 6	500.00	4804.12	4808.18	
4809.42	0.007011	9.58	72.27	295.15	0.92	
C	13	PF 1	1.56	4804.06	4804.32	
4804.37	0.011974	1.81	0.86	4.89	0.76	
C	13	PF 2	65.00	4804.06	4805.72	4805.72
4806.15	0.011841	5.26	12.69	15.67	0.97	
C	13	PF 3	200.00	4804.06	4806.72	4806.72
4807.52	0.008843	7.41	32.08	70.62	0.94	
C	13	PF 4	250.00	4804.06	4807.01	4807.01
4807.91	0.008230	7.86	39.36	89.70	0.93	
C	13	PF 5	350.00	4804.06	4807.52	4807.52
4808.57	0.007563	8.65	53.46	208.68	0.92	
C	13	PF 6	500.00	4804.06	4808.17	4808.17
4809.37	0.006829	9.48	73.97	296.34	0.91	
C	12.8571*	PF 1	1.56	4803.95	4804.25	
4804.31	0.014618	1.92	0.81	4.92	0.83	
C	12.8571*	PF 2	65.00	4803.95	4805.47	4805.59
4806.07	0.021561	6.22	10.48	14.42	1.27	
C	12.8571*	PF 3	200.00	4803.95	4806.33	4806.57
4807.44	0.014794	8.56	25.80	20.60	1.19	
C	12.8571*	PF 4	250.00	4803.95	4806.60	4806.87
4807.83	0.013494	9.06	31.52	66.21	1.17	
C	12.8571*	PF 5	350.00	4803.95	4807.09	4807.32
4808.49	0.011568	9.80	43.42	96.90	1.12	
C	12.8571*	PF 6	500.00	4803.95	4807.72	4808.03
4809.30	0.009862	10.59	61.90	251.72	1.08	
C	12.7142*	PF 1	1.56	4803.83	4804.18	
4804.24	0.015975	1.99	0.78	4.55	0.84	
C	12.7142*	PF 2	65.00	4803.83	4805.35	4805.50
4805.96	0.023870	6.28	10.36	14.13	1.29	
C	12.7142*	PF 3	200.00	4803.83	4806.12	4806.46
4807.36	0.019757	8.99	23.65	19.73	1.31	
C	12.7142*	PF 4	250.00	4803.83	4806.36	4806.73
4807.75	0.018325	9.58	28.49	53.51	1.30	
C	12.7142*	PF 5	350.00	4803.83	4806.81	4807.13
4808.41	0.015595	10.35	38.71	83.79	1.25	
C	12.7142*	PF 6	500.00	4803.83	4807.43	4807.93
4809.23	0.012939	11.16	55.13	211.76	1.18	
C	12.5714*	PF 1	1.56	4803.72	4804.07	4804.07
4804.15	0.018946	2.26	0.69	3.70	0.92	
C	12.5714*	PF 2	65.00	4803.72	4805.25	4805.40
4805.85	0.024071	6.22	10.45	14.52	1.29	

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C	12.5714*	PF 3	200.00	4803.72	4805.96	4806.34
4807.26	0.022528	9.18	22.64	19.52	1.39	
C	12.5714*	PF 4	250.00	4803.72	4806.18	4806.60
4807.66	0.021155	9.83	27.00	20.68	1.38	
C	12.5714*	PF 5	350.00	4803.72	4806.61	4807.05
4808.31	0.018002	10.64	36.35	75.19	1.33	
C	12.5714*	PF 6	500.00	4803.72	4807.19	4807.81
4809.15	0.015045	11.53	50.67	110.78	1.26	
C	12.4285*	PF 1	1.56	4803.61	4803.98	4803.98
4804.06	0.019742	2.35	0.66	3.43	0.94	
C	12.4285*	PF 2	65.00	4803.61	4805.16	4805.29
4805.74	0.023881	6.13	10.60	15.02	1.29	
C	12.4285*	PF 3	200.00	4803.61	4805.83	4806.22
4807.15	0.024467	9.24	22.17	19.48	1.44	
C	12.4285*	PF 4	250.00	4803.61	4806.03	4806.46
4807.55	0.023460	9.95	26.15	20.60	1.44	
C	12.4285*	PF 5	350.00	4803.61	4806.43	4806.94
4808.21	0.020166	10.83	34.81	66.91	1.39	
C	12.4285*	PF 6	500.00	4803.61	4806.96	4807.48
4809.06	0.017424	11.86	47.35	97.77	1.35	
C	12.2857*	PF 1	1.56	4803.49	4803.84	4803.86
4803.96	0.027710	2.78	0.56	2.89	1.11	
C	12.2857*	PF 2	65.00	4803.49	4805.07	4805.18
4805.64	0.023880	6.04	10.75	15.56	1.28	
C	12.2857*	PF 3	200.00	4803.49	4805.72	4806.11
4807.02	0.025281	9.15	22.17	19.65	1.45	
C	12.2857*	PF 4	250.00	4803.49	4805.90	4806.37
4807.44	0.025255	9.98	25.70	20.70	1.48	
C	12.2857*	PF 5	350.00	4803.49	4806.26	4806.81
4808.11	0.022380	10.97	33.66	58.83	1.45	
C	12.2857*	PF 6	500.00	4803.49	4806.76	4807.44
4808.96	0.019536	12.08	45.30	90.44	1.41	
C	12.1428*	PF 1	1.56	4803.38	4803.74	4803.75
4803.85	0.025328	2.69	0.58	2.75	1.04	
C	12.1428*	PF 2	65.00	4803.38	4805.02	4805.11
4805.52	0.022615	5.72	11.36	16.26	1.21	
C	12.1428*	PF 3	200.00	4803.38	4805.61	4806.00
4806.90	0.028613	9.12	22.07	19.83	1.48	
C	12.1428*	PF 4	250.00	4803.38	4805.79	4806.24
4807.31	0.028106	9.91	25.63	20.85	1.50	
C	12.1428*	PF 5	350.00	4803.38	4806.12	4806.69
4807.99	0.025829	11.02	32.99	52.09	1.49	
C	12.1428*	PF 6	500.00	4803.38	4806.58	4807.26
4808.85	0.023157	12.24	43.72	85.53	1.47	
C	12	PF 1	1.56	4803.27	4803.63	4803.64
4803.74	0.024642	2.73	0.57	2.59	1.02	
C	12	PF 2	65.00	4803.27	4804.95	4805.04
4805.42	0.020926	5.50	11.82	16.88	1.16	
C	12	PF 3	200.00	4803.27	4805.53	4805.89
4806.76	0.028187	8.90	22.54	20.25	1.46	
C	12	PF 4	250.00	4803.27	4805.69	4806.13
4807.17	0.028404	9.75	25.88	21.18	1.50	
C	12	PF 5	350.00	4803.27	4806.01	4806.57
4807.85	0.026658	10.92	32.96	47.15	1.50	
C	12	PF 6	500.00	4803.27	4807.92	4807.12

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4808.60	0.003678	6.79	83.40	314.50	0.64	
C	11.875*	PF 1	1.56	4803.15	4803.49	4803.51
4803.62	0.030547	2.98	0.52	2.58	1.17	
C	11.875*	PF 2	65.00	4803.15	4804.76	4804.89
4805.31	0.022864	5.94	10.94	15.67	1.25	
C	11.875*	PF 3	200.00	4803.15	4805.44	4805.77
4806.64	0.023326	8.78	22.86	19.20	1.39	
C	11.875*	PF 4	250.00	4803.15	4805.62	4806.02
4807.04	0.023076	9.56	26.43	20.23	1.41	
C	11.875*	PF 5	350.00	4803.15	4806.00	4806.48
4807.71	0.020511	10.53	34.40	47.66	1.39	
C	11.875*	PF 6	500.00	4803.15	4807.89	
4808.58	0.003360	6.89	85.20	316.33	0.63	
C	11.75*	PF 1	1.56	4803.04	4803.39	4803.39
4803.50	0.022854	2.58	0.60	3.02	1.01	
C	11.75*	PF 2	65.00	4803.04	4804.59	4804.75
4805.19	0.024240	6.22	10.45	14.64	1.30	
C	11.75*	PF 3	200.00	4803.04	4805.35	4805.66
4806.54	0.021253	8.74	22.99	18.22	1.34	
C	11.75*	PF 4	250.00	4803.04	4805.56	4805.90
4806.94	0.020380	9.43	26.86	19.35	1.34	
C	11.75*	PF 5	350.00	4803.04	4806.89	4806.38
4807.58	0.004619	6.81	57.41	143.70	0.71	
C	11.75*	PF 6	500.00	4803.04	4807.88	
4808.56	0.003186	6.90	88.43	315.54	0.62	
C	11.625*	PF 1	1.56	4802.92	4803.24	4803.27
4803.37	0.031650	2.92	0.53	2.99	1.22	
C	11.625*	PF 2	65.00	4802.92	4804.44	4804.60
4805.07	0.022666	6.39	10.16	13.68	1.31	
C	11.625*	PF 3	200.00	4802.92	4805.27	4805.57
4806.45	0.018145	8.72	23.07	17.39	1.30	
C	11.625*	PF 4	250.00	4802.92	4805.49	4805.85
4806.86	0.017214	9.38	27.11	18.57	1.29	
C	11.625*	PF 5	350.00	4802.92	4806.86	
4807.56	0.004115	6.87	58.09	140.69	0.70	
C	11.625*	PF 6	500.00	4802.92	4807.86	
4808.55	0.002861	6.95	91.77	315.23	0.61	
C	11.5*	PF 1	1.56	4802.81	4803.13	4803.14
4803.24	0.022727	2.62	0.59	3.24	1.08	
C	11.5*	PF 2	65.00	4802.81	4804.29	4804.47
4804.96	0.020885	6.56	9.92	12.78	1.31	
C	11.5*	PF 3	200.00	4802.81	4805.19	4805.48
4806.37	0.015501	8.73	23.13	16.71	1.25	
C	11.5*	PF 4	250.00	4802.81	4805.44	4805.76
4806.79	0.014468	9.34	27.44	18.03	1.24	
C	11.5*	PF 5	350.00	4802.81	4806.79	
4807.53	0.003870	7.07	57.91	138.23	0.71	
C	11.5*	PF 6	500.00	4802.81	4807.83	
4808.53	0.002648	7.09	94.24	317.37	0.61	
C	11.375*	PF 1	1.56	4802.69	4802.98	4803.00
4803.11	0.031487	2.92	0.53	3.16	1.26	
C	11.375*	PF 2	65.00	4802.69	4804.15	4804.32
4804.86	0.020769	6.74	9.65	11.86	1.32	

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C	11.375*	PF 3	200.00	4802.69	4805.13	4805.38
4806.31	0.014062	8.71	23.35	16.35	1.21	
C	11.375*	PF 4	250.00	4802.69	4805.97	4805.69
4806.71	0.005249	7.02	39.41	53.06	0.79	
C	11.375*	PF 5	350.00	4802.69	4806.75	
4807.51	0.003806	7.20	58.56	139.16	0.70	
C	11.375*	PF 6	500.00	4802.69	4807.80	
4808.52	0.002648	7.23	96.42	319.01	0.62	
C	11.25*	PF 1	1.56	4802.58	4802.86	4802.88
4802.97	0.023205	2.67	0.58	3.38	1.13	
C	11.25*	PF 2	65.00	4802.58	4804.03	4804.22
4804.76	0.018437	6.83	9.51	11.04	1.30	
C	11.25*	PF 3	200.00	4802.58	4805.12	4805.34
4806.25	0.011165	8.55	24.23	16.82	1.13	
C	11.25*	PF 4	250.00	4802.58	4805.88	
4806.68	0.005009	7.26	38.91	48.81	0.80	
C	11.25*	PF 5	350.00	4802.58	4806.65	
4807.49	0.003817	7.56	57.27	137.80	0.73	
C	11.25*	PF 6	500.00	4802.58	4807.70	
4808.49	0.002702	7.64	94.93	299.90	0.65	
C	11.125*	PF 1	1.56	4802.47	4802.71	4802.74
4802.84	0.031384	2.92	0.53	3.40	1.30	
C	11.125*	PF 2	65.00	4802.47	4803.91	4804.08
4804.66	0.017750	6.94	9.37	10.26	1.28	
C	11.125*	PF 3	200.00	4802.47	4805.42	4805.28
4806.20	0.005815	7.17	30.91	18.47	0.84	
C	11.125*	PF 4	250.00	4802.47	4805.79	
4806.64	0.005255	7.55	38.25	43.64	0.82	
C	11.125*	PF 5	350.00	4802.47	4806.55	
4807.46	0.004153	7.95	55.90	136.18	0.76	
C	11.125*	PF 6	500.00	4802.47	4807.57	
4808.47	0.003069	8.16	91.18	239.69	0.69	
C	11	PF 1	1.56	4802.35	4802.57	4802.60
4802.69	0.027979	2.79	0.56	3.71	1.27	
C	11	PF 2	65.00	4802.35	4803.81	4804.01
4804.58	0.015896	7.06	9.21	9.49	1.26	
C	11	PF 3	200.00	4802.35	4805.30	4805.23
4806.16	0.005908	7.57	30.02	17.29	0.88	
C	11	PF 4	250.00	4802.35	4805.60	4805.53
4806.61	0.005942	8.25	35.55	32.06	0.90	
C	11	PF 5	350.00	4802.35	4806.11	4806.07
4807.40	0.006161	9.45	46.16	67.57	0.95	
C	11	PF 6	500.00	4802.35	4806.93	4806.93
4808.40	0.005312	10.27	68.66	147.93	0.91	
C	10.6666*	PF 1	1.56	4802.26	4802.54	4802.53
4802.61	0.015687	2.11	0.74	4.09	0.87	
C	10.6666*	PF 2	65.00	4802.26	4804.17	4803.96
4804.54	0.007171	4.93	13.19	10.75	0.78	
C	10.6666*	PF 3	200.00	4802.26	4805.29	4805.20
4806.12	0.007048	7.50	30.67	18.40	0.86	
C	10.6666*	PF 4	250.00	4802.26	4805.61	4805.51
4806.56	0.006871	8.07	36.92	27.38	0.87	
C	10.6666*	PF 5	350.00	4802.26	4806.17	4806.11
4807.34	0.006724	9.06	49.35	70.88	0.89	
C	10.6666*	PF 6	500.00	4802.26	4806.88	4806.85

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4808.29	0.006568	10.21	68.79	147.66	0.91
C	10.3333*	PF 1	1.56	4802.17	4802.52
4802.56	0.009608	1.61	0.97	4.55	0.61
C	10.3333*	PF 2	65.00	4802.17	4804.13
4804.51	0.009109	4.91	13.25	11.05	0.77
C	10.3333*	PF 3	200.00	4802.17	4805.29
4806.08	0.008601	7.36	31.66	19.12	0.83
C	10.3333*	PF 4	250.00	4802.17	4805.64
4806.51	0.008041	7.80	38.79	22.92	0.83
C	10.3333*	PF 5	350.00	4802.17	4806.27
4807.25	0.007254	8.49	53.47	76.89	0.81
C	10.3333*	PF 6	500.00	4802.17	4807.00
4808.20	0.007077	9.55	75.19	162.14	0.83
C	10	PF 1	1.56	4802.08	4802.50
4802.53	0.005029	1.22	1.28	4.85	0.42
C	10	PF 2	65.00	4802.08	4804.08
4804.47	0.011070	4.97	13.17	11.54	0.78
C	10	PF 3	200.00	4802.08	4805.31
4806.02	0.009092	7.06	33.50	19.98	0.79
C	10	PF 4	250.00	4802.08	4805.68
4806.45	0.008355	7.42	41.28	22.13	0.77
C	10	PF 5	350.00	4802.08	4806.34
4807.18	0.007323	7.97	57.26	82.93	0.75
C	10	PF 6	500.00	4802.08	4807.03
4808.14	0.007899	9.32	78.76	177.46	0.80
C	9.91666*	PF 1	1.56	4802.05	4802.48
4802.50	0.005314	1.24	1.26	4.86	0.43
C	9.91666*	PF 2	65.00	4802.05	4804.02
4804.41	0.011313	5.01	13.05	11.39	0.78
C	9.91666*	PF 3	200.00	4802.05	4805.26
4805.98	0.009235	7.12	33.17	19.91	0.79
C	9.91666*	PF 4	250.00	4802.05	4805.63
4806.41	0.008449	7.48	41.04	22.24	0.78
C	9.91666*	PF 5	350.00	4802.05	4806.29
4807.15	0.007432	8.05	57.19	82.24	0.75
C	9.91666*	PF 6	500.00	4802.05	4806.94
4808.10	0.008250	9.49	78.68	180.46	0.82
C	9.83333*	PF 1	1.56	4802.02	4802.45
4802.48	0.005260	1.25	1.24	4.88	0.44
C	9.83333*	PF 2	65.00	4802.02	4803.97
4804.36	0.010960	5.05	12.93	11.29	0.80
C	9.83333*	PF 3	200.00	4802.02	4805.17
4805.94	0.009402	7.33	32.15	19.61	0.82
C	9.83333*	PF 4	250.00	4802.02	4805.54
4806.37	0.008561	7.69	39.92	22.02	0.81
C	9.83333*	PF 5	350.00	4802.02	4806.19
4807.11	0.007524	8.28	55.96	76.15	0.78
C	9.83333*	PF 6	500.00	4802.02	4806.85
4808.06	0.008106	9.64	78.89	180.16	0.84
C	9.75*	PF 1	1.56	4802.00	4802.42
4802.45	0.005946	1.30	1.20	4.88	0.46
C	9.75*	PF 2	65.00	4802.00	4803.90
4804.31	0.011392	5.11	12.77	11.20	0.81

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C	9.75*	PF 3	200.00	4802.00	4805.11	
4805.90	0.009561	7.38	31.86	19.47	0.83	
C	9.75*	PF 4	250.00	4802.00	4805.49	
4806.34	0.008669	7.74	39.70	22.09	0.81	
C	9.75*	PF 5	350.00	4802.00	4806.15	
4807.08	0.007583	8.32	56.14	75.27	0.79	
C	9.75*	PF 6	500.00	4802.00	4806.88	4806.53
4807.99	0.007351	9.31	86.27	192.38	0.80	
C	9.66666*	PF 1	1.56	4801.97	4802.39	
4802.42	0.005963	1.32	1.18	4.92	0.47	
C	9.66666*	PF 2	65.00	4801.97	4803.85	
4804.26	0.010978	5.15	12.68	11.14	0.82	
C	9.66666*	PF 3	200.00	4801.97	4805.06	
4805.86	0.009146	7.43	31.58	19.31	0.84	
C	9.66666*	PF 4	250.00	4801.97	4805.43	
4806.30	0.008460	7.85	39.12	22.05	0.83	
C	9.66666*	PF 5	350.00	4801.97	4806.09	
4807.05	0.007335	8.42	55.95	72.69	0.80	
C	9.66666*	PF 6	500.00	4801.97	4806.90	
4807.92	0.006384	9.03	93.92	213.50	0.77	
C	9.58333*	PF 1	1.56	4801.94	4802.36	
4802.39	0.006625	1.36	1.15	4.92	0.50	
C	9.58333*	PF 2	65.00	4801.94	4803.79	
4804.21	0.011311	5.19	12.58	11.10	0.83	
C	9.58333*	PF 3	200.00	4801.94	4805.01	4804.91
4805.82	0.009231	7.46	31.40	19.15	0.84	
C	9.58333*	PF 4	250.00	4801.94	4805.38	
4806.26	0.008540	7.88	38.95	22.15	0.83	
C	9.58333*	PF 5	350.00	4801.94	4806.05	
4807.01	0.007318	8.42	56.49	72.96	0.80	
C	9.58333*	PF 6	500.00	4801.94	4807.02	4807.01
4807.82	0.005018	8.21	110.47	254.12	0.69	
C	9.5*	PF 1	1.56	4801.91	4802.33	
4802.36	0.006469	1.37	1.14	5.00	0.50	
C	9.5*	PF 2	65.00	4801.91	4803.73	
4804.15	0.010791	5.21	12.53	11.08	0.84	
C	9.5*	PF 3	200.00	4801.91	4804.88	4804.86
4805.78	0.009931	7.80	29.73	18.64	0.90	
C	9.5*	PF 4	250.00	4801.91	4805.25	
4806.22	0.008992	8.19	37.19	21.45	0.87	
C	9.5*	PF 5	350.00	4801.91	4805.99	
4806.98	0.007087	8.53	56.48	70.37	0.81	
C	9.5*	PF 6	500.00	4801.91	4806.72	
4807.78	0.006365	9.18	94.98	214.36	0.79	
C	9.41666*	PF 1	1.56	4801.88	4802.29	
4802.32	0.007170	1.40	1.12	5.12	0.53	
C	9.41666*	PF 2	65.00	4801.88	4803.67	
4804.10	0.011100	5.25	12.44	11.06	0.84	
C	9.41666*	PF 3	200.00	4801.88	4804.82	4804.81
4805.73	0.010131	7.84	29.44	18.48	0.90	
C	9.41666*	PF 4	250.00	4801.88	4805.20	4805.14
4806.18	0.009129	8.23	36.93	21.46	0.88	
C	9.41666*	PF 5	350.00	4801.88	4805.95	
4806.96	0.007143	8.56	57.13	71.42	0.81	
C	9.41666*	PF 6	500.00	4801.88	4806.86	4806.86

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4807.67	0.004915	8.29	112.52	252.63	0.70	
C	9.33333*	PF 1	1.56	4801.86	4802.25	
4802.29	0.008500	1.45	1.07	5.26	0.57	
C	9.33333*	PF 2	65.00	4801.86	4803.62	
4804.05	0.011432	5.29	12.36	11.05	0.85	
C	9.33333*	PF 3	200.00	4801.86	4804.77	4804.77
4805.69	0.010291	7.88	29.23	18.33	0.91	
C	9.33333*	PF 4	250.00	4801.86	4805.15	4805.06
4806.14	0.009240	8.26	36.75	21.45	0.88	
C	9.33333*	PF 5	350.00	4801.86	4805.89	4805.76
4806.92	0.007391	8.66	57.42	69.62	0.82	
C	9.33333*	PF 6	500.00	4801.86	4806.57	4806.76
4807.61	0.006533	9.18	97.48	211.89	0.79	
C	9.25*	PF 1	1.56	4801.83	4802.21	
4802.24	0.009445	1.49	1.05	5.63	0.61	
C	9.25*	PF 2	65.00	4801.83	4803.56	
4804.00	0.011049	5.32	12.27	11.02	0.86	
C	9.25*	PF 3	200.00	4801.83	4804.71	4804.71
4805.65	0.009875	7.93	28.96	18.16	0.91	
C	9.25*	PF 4	250.00	4801.83	4805.05	4804.99
4806.10	0.009402	8.47	35.52	20.73	0.91	
C	9.25*	PF 5	350.00	4801.83	4805.86	4805.61
4806.88	0.006828	8.60	59.73	75.33	0.81	
C	9.25*	PF 6	500.00	4801.83	4806.68	4806.68
4807.51	0.004858	8.36	113.93	251.81	0.71	
C	9.16666*	PF 1	1.56	4801.80	4802.16	
4802.19	0.010459	1.52	1.02	5.70	0.63	
C	9.16666*	PF 2	65.00	4801.80	4803.50	
4803.94	0.011387	5.36	12.19	11.02	0.87	
C	9.16666*	PF 3	200.00	4801.80	4804.64	4804.66
4805.60	0.010352	8.03	28.38	17.82	0.93	
C	9.16666*	PF 4	250.00	4801.80	4805.00	4804.94
4806.06	0.009490	8.48	35.36	20.70	0.91	
C	9.16666*	PF 5	350.00	4801.80	4805.87	4805.87
4806.82	0.006269	8.32	64.90	90.43	0.78	
C	9.16666*	PF 6	500.00	4801.80	4806.45	4806.60
4807.43	0.005995	9.00	103.29	211.41	0.78	
C	9.08333*	PF 1	1.56	4801.77	4802.11	4802.06
4802.14	0.009706	1.50	1.04	5.80	0.63	
C	9.08333*	PF 2	65.00	4801.77	4803.43	4803.35
4803.89	0.011191	5.42	12.04	10.97	0.89	
C	9.08333*	PF 3	200.00	4801.77	4804.60	4804.59
4805.56	0.009615	8.00	28.51	17.73	0.93	
C	9.08333*	PF 4	250.00	4801.77	4804.95	4804.91
4806.02	0.009013	8.51	35.20	20.36	0.92	
C	9.08333*	PF 5	350.00	4801.77	4805.67	4805.84
4806.77	0.007216	8.92	58.80	63.84	0.85	
C	9.08333*	PF 6	500.00	4801.77	4806.53	4806.53
4807.35	0.004741	8.40	116.77	254.33	0.72	
C	9	PF 1	1.56	4801.74	4802.01	4802.01
4802.07	0.024088	2.03	0.77	5.43	0.95	
C	9	PF 2	65.00	4801.74	4803.30	4803.30
4803.83	0.014118	5.85	11.13	10.54	0.98	

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C	9	PF 3	200.00	4801.74	4804.53
4805.51	0.009954	8.07	28.13	17.37	0.94
C	9	PF 4	250.00	4801.74	4804.91
4805.97	0.009015	8.49	35.20	20.54	0.91
C	9	PF 5	350.00	4801.74	4805.73
4806.69	0.006198	8.41	67.04	74.54	0.79
C	9	PF 6	500.00	4801.74	4806.22
4807.30	0.006514	9.41	100.22	193.90	0.83

Profile Output Table - Standard Table 2

Reach Loss	C & E Loss	River Sta Q Left	Profile Q Channel	E.G. Elev Q Right	W.S. Elev Top Width	Vel Head	Frctn
(ft)	(ft)	(cfs)	(cfs)	(ft) (cfs)	(ft) (ft)	(ft)	
C	15	PF 1	4805.39	4805.36	0.04		
0.06	0.00	1.56	5.32				
C	15	PF 2	4806.89	4806.60	0.29		
0.05	0.00	65.00	14.91				
C	15	PF 3	4808.25	4807.61	0.64		
0.05	0.00	1.79	197.02	1.19	19.54		
C	15	PF 4	4808.64	4807.88	0.76		
0.05	0.00	3.17	244.47	2.36	21.58		
C	15	PF 5	4809.24	4808.75	0.49		
0.02	0.00	50.42	292.50	7.08	94.28		
C	15	PF 6	4809.81	4809.47	0.34		
0.01	0.01	156.13	331.19	12.68	220.17		
C	14.875*	PF 1	4805.33	4805.29	0.04		
0.06	0.00	1.56	4.97				
C	14.875*	PF 2	4806.83	4806.54	0.29		
0.05	0.00	65.00	14.88				
C	14.875*	PF 3	4808.19	4807.55	0.65		
0.05	0.00	1.92	196.78	1.30	19.63		
C	14.875*	PF 4	4808.59	4807.82	0.77		
0.05	0.00	3.02	244.45	2.54	22.80		
C	14.875*	PF 5	4809.21	4808.73	0.49		
0.02	0.01	49.23	293.14	7.63	102.11		
C	14.875*	PF 6	4809.79	4809.47	0.32		
0.01	0.00	161.20	325.55	13.25	240.51		
C	14.75*	PF 1	4805.27	4805.23	0.04		
0.06	0.00	1.56	4.85				
C	14.75*	PF 2	4806.78	4806.49	0.29		
0.05	0.00	65.00	14.87				
C	14.75*	PF 3	4808.14	4807.50	0.65		
0.04	0.00	2.07	196.56	1.37	19.76		
C	14.75*	PF 4	4808.54	4807.77	0.77		
0.04	0.00	3.27	244.09	2.64	23.10		
C	14.75*	PF 5	4809.18	4808.71	0.47		
0.02	0.01	50.74	291.24	8.03	129.34		
C	14.75*	PF 6	4809.78	4809.45	0.32		
0.01	0.00	159.48	326.90	13.62	259.32		
C	14.625*	PF 1	4805.21	4805.16	0.04		

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0.06	0.00	1.56	4.80		
C	14.625*	PF 2	4806.72	4806.44	0.29
0.05	0.00	65.00	0.00	14.86	
C	14.625*	PF 3	4808.09	4807.45	0.64
0.04	0.00	2.33	196.14	1.53	19.97
C	14.625*	PF 4	4808.49	4807.72	0.76
0.04	0.00	3.75	243.39	2.86	23.44
C	14.625*	PF 5	4809.15	4808.71	0.44
0.02	0.00	54.85	286.59	8.56	147.93
C	14.625*	PF 6	4809.76	4809.44	0.32
0.01	0.00	158.82	326.96	14.22	271.47

C	14.5*	PF 1	4805.14	4805.10	0.04
0.06	0.00	1.56	4.76		
C	14.5*	PF 2	4806.67	4806.39	0.29
0.04	0.00	65.00	0.00	14.84	
C	14.5*	PF 3	4808.04	4807.40	0.65
0.04	0.00	2.50	195.89	1.61	20.12
C	14.5*	PF 4	4808.44	4807.67	0.77
0.04	0.00	4.07	242.95	2.98	23.83
C	14.5*	PF 5	4809.13	4808.69	0.44
0.03	0.06	54.70	286.40	8.90	161.85
C	14.5*	PF 6	4809.75	4809.40	0.34
0.01	0.00	151.65	333.67	14.68	282.14

C	14.375*	PF 1	4805.08	4805.04	0.05
0.06	0.00	1.56	4.73		
C	14.375*	PF 2	4806.62	4806.34	0.29
0.04	0.00	65.00	0.00	14.86	
C	14.375*	PF 3	4808.00	4807.35	0.64
0.04	0.00	2.75	195.43	1.82	20.34
C	14.375*	PF 4	4808.39	4807.62	0.76
0.04	0.00	4.57	242.14	3.29	25.76
C	14.375*	PF 5	4809.04	4808.05	0.99
	12.76	330.31	6.93	69.40	
C	14.375*	PF 6	4809.73	4809.37	0.36
0.01	0.00	146.42	338.71	14.88	294.90

C	14.25*	PF 1	4805.02	4804.97	0.05
0.06	0.00	1.56	4.67		
C	14.25*	PF 2	4806.58	4806.29	0.28
0.04	0.00	0.00	64.99	0.01	14.95
C	14.25*	PF 3	4807.95	4807.30	0.65
0.04	0.00	2.97	195.10	1.93	20.56
C	14.25*	PF 4	4808.34	4807.57	0.77
0.04	0.00	4.99	241.57	3.44	27.58
C	14.25*	PF 5	4809.00	4808.07	0.93
0.04	0.00	14.86	327.44	7.70	86.43
C	14.25*	PF 6	4809.71	4809.32	0.39
0.01	0.00	135.26	349.03	15.71	298.41

C	14.125*	PF 1	4804.96	4804.91	0.05
0.06	0.00	1.56	4.62		
C	14.125*	PF 2	4806.53	4806.25	0.28
0.04	0.00	0.00	64.98	0.01	15.08
C	14.125*	PF 3	4807.91	4807.26	0.65
0.04	0.00	3.19	194.68	2.13	21.05
C	14.125*	PF 4	4808.29	4807.53	0.76
0.04	0.00	5.66	240.59	3.75	31.07

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C	14.125*		PF 5	4808.95	4808.02
0.04	0.00	15.30		326.55	8.15
C	14.125*		PF 6	4809.69	85.88
0.01	0.00	126.85		356.06	4809.27
				17.10	299.56
C	14.*		PF 1	4804.89	4804.85
0.06	0.00			1.56	4.60
C	14.*		PF 2	4806.49	4806.21
0.04	0.00	0.01		64.97	0.02
C	14.*		PF 3	4807.86	15.16
0.04	0.00	3.43		194.23	4807.21
C	14.*		PF 4	4808.25	2.34
0.04	0.00	6.18		239.77	21.36
C	14.*		PF 5	4808.91	4807.48
0.04	0.00	15.81		325.53	4.06
C	14.*		PF 6	4809.67	34.54
0.01	0.01	117.57		363.56	4807.96
				18.88	0.95
					88.67
					4809.21
					0.46
					300.72
C	13.875*		PF 1	4804.83	4804.78
0.06	0.00			1.56	4.60
C	13.875*		PF 2	4806.45	4806.16
0.04	0.00	0.02		64.95	0.03
C	13.875*		PF 3	4807.82	15.29
0.04	0.00	3.66		193.86	4807.15
C	13.875*		PF 4	4808.20	2.49
0.04	0.00	6.61		239.13	21.70
C	13.875*		PF 5	4808.86	4807.43
0.04	0.00	16.23		324.80	4.26
C	13.875*		PF 6	4809.65	39.31
0.02	0.00	103.65		376.14	4807.90
				20.20	0.96
					101.87
					4809.14
					0.52
					301.78
C	13.75*		PF 1	4804.77	4804.72
0.06	0.00			1.56	4.58
C	13.75*		PF 2	4806.40	4806.12
0.04	0.00	0.03		64.92	0.05
C	13.75*		PF 3	4807.77	15.45
0.04	0.00	4.10		193.11	4807.10
C	13.75*		PF 4	4808.16	2.79
0.04	0.00	7.42		237.82	22.04
C	13.75*		PF 5	4808.82	4807.38
0.04	0.00	17.61		322.59	4.76
C	13.75*		PF 6	4809.64	50.90
0.02	0.01	93.02		384.57	4807.86
				22.41	0.95
					109.55
					4809.07
					0.57
					302.94
C	13.625*		PF 1	4804.70	4804.65
0.06	0.00			1.56	4.56
C	13.625*		PF 2	4806.36	4806.08
0.04	0.00	0.04		64.89	0.07
C	13.625*		PF 3	4807.73	15.58
0.04	0.00	4.27		192.84	4807.04
C	13.625*		PF 4	4808.11	2.89
0.04	0.00	7.72		237.37	23.15
C	13.625*		PF 5	4808.78	4807.32
0.04	0.00	17.82		322.29	4.91
C	13.625*		PF 6	4809.62	60.47
0.02	0.01	77.47		399.23	4807.79
				23.30	0.98
					113.57
					4808.96
					0.66
					303.83
C	13.5*		PF 1	4804.64	4804.58
					0.05

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0.07	0.00		1.56	4.55	
C	13.5*		PF 2	4806.32	4806.03
0.03	0.00	0.07	64.83	0.11	15.79
C	13.5*		PF 3	4807.68	4806.98
0.04	0.00	4.75	192.03	3.23	31.22
C	13.5*		PF 4	4808.07	4807.27
0.04	0.00	8.49	236.07	5.44	68.57
C	13.5*		PF 5	4808.73	4807.76
0.04	0.00	19.31	319.89	10.80	142.43
C	13.5*		PF 6	4809.60	4808.88
0.02	0.03	68.19	406.27	25.54	305.13
C	13.375*		PF 1	4804.57	4804.52
0.07	0.00		1.56	5.11	0.05
C	13.375*		PF 2	4806.28	4805.98
0.04	0.00	0.09	64.77	0.13	15.95
C	13.375*		PF 3	4807.64	4806.92
0.04	0.00	5.06	191.53	3.41	52.90
C	13.375*		PF 4	4808.03	4807.20
0.04	0.00	8.93	235.37	5.70	74.16
C	13.375*		PF 5	4808.69	4807.69
0.04	0.00	19.74	319.36	10.89	153.08
C	13.375*		PF 6	4809.54	4808.51
0.03	0.02	44.45	430.94	24.61	303.60
C	13.25*		PF 1	4804.50	4804.45
0.07	0.00		1.56	5.13	0.05
C	13.25*		PF 2	4806.24	4805.93
0.04	0.00	0.12	64.71	0.18	16.08
C	13.25*		PF 3	4807.60	4806.86
0.04	0.00	5.52	190.72	3.76	60.16
C	13.25*		PF 4	4807.99	4807.14
0.04	0.00	9.67	234.17	6.16	80.47
C	13.25*		PF 5	4808.65	4807.64
0.04	0.00	20.92	317.49	11.60	179.23
C	13.25*		PF 6	4809.46	4808.25
0.03	0.00	43.36	432.70	23.94	298.05
C	13.125*		PF 1	4804.43	4804.38
0.06	0.00		1.56	4.98	0.06
C	13.125*		PF 2	4806.20	4805.87
0.05	0.01	0.14	64.65	0.20	16.18
C	13.125*		PF 3	4807.56	4806.78
0.04	0.00	5.78	190.24	3.97	65.25
C	13.125*		PF 4	4807.95	4807.07
0.04	0.00	10.05	233.50	6.45	84.85
C	13.125*		PF 5	4808.61	4807.57
0.04	0.00	21.33	316.40	12.28	194.81
C	13.125*		PF 6	4809.42	4808.18
0.03	0.01	43.28	431.37	25.34	295.15
C	13		PF 1	4804.37	4804.32
0.06	0.00		1.56	4.89	0.05
C	13		PF 2	4806.15	4805.72
0.06	0.00	0.09	64.73	0.18	15.67
C	13		PF 3	4807.52	4806.72
0.04	0.00	6.35	189.25	4.40	70.62
C	13		PF 4	4807.91	4807.01
0.04	0.00	10.94	231.96	7.10	89.70

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C	13		PF 5	4808.57	4807.52	1.05
0.04	0.01	22.78		313.49	13.72	208.68
C	13		PF 6	4809.37	4808.17	1.20
0.03	0.00	45.97		425.74	28.29	296.34
C	12.8571*		PF 1	4804.31	4804.25	0.06
0.07	0.00			1.56	4.92	
C	12.8571*		PF 2	4806.07	4805.47	0.60
0.07	0.02			64.98	0.02	14.42
C	12.8571*		PF 3	4807.44	4806.33	1.11
0.05	0.03	2.57		194.82	2.61	20.60
C	12.8571*		PF 4	4807.83	4806.60	1.23
0.05	0.03	5.10		240.32	4.58	66.21
C	12.8571*		PF 5	4808.49	4807.09	1.40
0.04	0.04	12.25		328.11	9.64	96.90
C	12.8571*		PF 6	4809.30	4807.72	1.58
0.04	0.04	28.58		449.69	21.73	251.72
C	12.7142*		PF 1	4804.24	4804.18	0.06
0.08	0.00			1.56	4.55	
C	12.7142*		PF 2	4805.96	4805.35	0.61
0.10	0.00			65.00	0.00	14.13
C	12.7142*		PF 3	4807.36	4806.12	1.24
0.08	0.01	1.17		197.07	1.75	19.73
C	12.7142*		PF 4	4807.75	4806.36	1.39
0.07	0.02	2.65		244.01	3.33	53.51
C	12.7142*		PF 5	4808.41	4806.81	1.60
0.06	0.02	7.54		334.67	7.79	83.79
C	12.7142*		PF 6	4809.23	4807.43	1.80
0.05	0.02	18.12		464.51	17.37	211.76
C	12.5714*		PF 1	4804.15	4804.07	0.08
0.09	0.00			1.56	3.70	
C	12.5714*		PF 2	4805.85	4805.25	0.60
0.11	0.00			65.00	14.52	
C	12.5714*		PF 3	4807.26	4805.96	1.30
0.10	0.01	0.51		198.40	1.10	19.52
C	12.5714*		PF 4	4807.66	4806.18	1.48
0.09	0.01	1.36		246.29	2.35	20.68
C	12.5714*		PF 5	4808.31	4806.61	1.71
0.08	0.01	4.56		339.33	6.10	75.19
C	12.5714*		PF 6	4809.15	4807.19	1.96
0.06	0.02	12.72		474.25	13.03	110.78
C	12.4285*		PF 1	4804.06	4803.98	0.09
0.09	0.00			1.56	3.43	
C	12.4285*		PF 2	4805.74	4805.16	0.58
0.11	0.01			65.00	15.02	
C	12.4285*		PF 3	4807.15	4805.83	1.32
0.11	0.00	0.18		199.14	0.68	19.48
C	12.4285*		PF 4	4807.55	4806.03	1.52
0.10	0.00	0.63		247.74	1.62	20.60
C	12.4285*		PF 5	4808.21	4806.43	1.78
0.09	0.01	2.66		342.51	4.84	66.91
C	12.4285*		PF 6	4809.06	4806.96	2.10
0.07	0.01	8.17		480.14	11.69	97.77
C	12.2857*		PF 1	4803.96	4803.84	0.12

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0.11	0.00	1.56	2.89		
C	12.2857*	PF 2	4805.64	4805.07	0.57
0.11	0.00	65.00	15.56		
C	12.2857*	PF 3	4807.02	4805.72	1.30
0.11	0.01	0.06	199.55	0.39	19.65
C	12.2857*	PF 4	4807.44	4805.90	1.54
0.11	0.00	0.28	248.69	1.03	20.70
C	12.2857*	PF 5	4808.11	4806.26	1.84
0.10	0.01	1.50	344.81	3.69	58.83
C	12.2857*	PF 6	4808.96	4806.76	2.20
0.09	0.01	5.32	484.98	9.71	90.44
C	12.1428*	PF 1	4803.85	4803.74	0.11
0.11	0.01	1.56	2.75		
C	12.1428*	PF 2	4805.52	4805.02	0.51
0.11	0.02	65.00	16.26		
C	12.1428*	PF 3	4806.90	4805.61	1.29
0.12	0.00	0.01	199.80	0.20	19.83
C	12.1428*	PF 4	4807.31	4805.79	1.52
0.12	0.01	0.10	249.21	0.69	20.85
C	12.1428*	PF 5	4807.99	4806.12	1.87
0.11	0.00	0.81	346.29	2.90	52.09
C	12.1428*	PF 6	4808.85	4806.58	2.27
0.10	0.01	3.40	488.14	8.46	85.53
C	12	PF 1	4803.74	4803.63	0.12
0.12	0.00	1.56	2.59		
C	12	PF 2	4805.42	4804.95	0.47
0.10	0.01	65.00	16.88		
C	12	PF 3	4806.76	4805.53	1.23
0.13	0.02	0.00	199.91	0.09	20.25
C	12	PF 4	4807.17	4805.69	1.47
0.13	0.01	0.03	249.55	0.42	21.18
C	12	PF 5	4807.85	4806.01	1.84
0.12	0.01	0.44	347.38	2.18	47.15
C	12	PF 6	4808.60	4807.92	0.67
0.02	0.00	10.73	467.57	21.70	314.50
C	11.875*	PF 1	4803.62	4803.49	0.14
0.13	0.00	1.56	2.58		
C	11.875*	PF 2	4805.31	4804.76	0.55
0.10	0.01	65.00	15.67		
C	11.875*	PF 3	4806.64	4805.44	1.20
0.12	0.01	0.00	199.91	0.09	19.20
C	11.875*	PF 4	4807.04	4805.62	1.42
0.12	0.02	0.08	249.56	0.36	20.23
C	11.875*	PF 5	4807.71	4806.00	1.71
0.11	0.04	0.83	347.12	2.05	47.66
C	11.875*	PF 6	4808.58	4807.89	0.69
0.02	0.00	13.20	466.01	20.79	316.33
C	11.75*	PF 1	4803.50	4803.39	0.10
0.10	0.00	1.56	3.02		
C	11.75*	PF 2	4805.19	4804.59	0.60
0.11	0.01	65.00	14.64		
C	11.75*	PF 3	4806.54	4805.35	1.19
0.10	0.00	0.01	199.89	0.09	18.22
C	11.75*	PF 4	4806.94	4805.56	1.38
0.10	0.01	0.18	249.49	0.33	19.35

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C	11.75*		PF 5	4807.58	4806.89
0.02	0.00	5.99		336.94	7.07
C	11.75*		PF 6	4808.56	4807.88
0.01	0.00	18.06		459.41	22.53
					315.54
C	11.625*		PF 1	4803.37	4803.24
0.12	0.00			1.56	2.99
C	11.625*		PF 2	4805.07	4804.44
0.11	0.00			65.00	13.68
C	11.625*		PF 3	4806.45	4805.27
0.09	0.00	0.05		199.86	0.09
C	11.625*		PF 4	4806.86	4805.49
0.09	0.00	0.36		249.34	0.31
C	11.625*		PF 5	4807.56	4806.86
0.02	0.00	8.28		335.11	6.60
C	11.625*		PF 6	4808.55	4807.86
0.01	0.00	23.56		452.54	23.90
					315.23
C	11.5*		PF 1	4803.24	4803.13
0.12	0.01			1.56	3.24
C	11.5*		PF 2	4804.96	4804.29
0.10	0.00			65.00	12.78
C	11.5*		PF 3	4806.37	4805.19
0.08	0.00	0.13		199.78	0.10
C	11.5*		PF 4	4806.79	4805.44
0.07	0.00	0.69		249.01	0.30
C	11.5*		PF 5	4807.53	4806.79
0.02	0.00	10.68		333.90	5.42
C	11.5*		PF 6	4808.53	4807.83
0.01	0.00	29.41		446.62	23.97
					317.37
C	11.375*		PF 1	4803.11	4802.98
0.12	0.00			1.56	3.16
C	11.375*		PF 2	4804.86	4804.15
0.10	0.00			65.00	11.86
C	11.375*		PF 3	4806.31	4805.13
0.07	0.00	0.33		199.55	0.11
C	11.375*		PF 4	4806.71	4805.97
0.02	0.00	5.13		243.51	1.36
C	11.375*		PF 5	4807.51	4806.75
0.02	0.01	14.82		329.99	5.18
C	11.375*		PF 6	4808.52	4807.80
0.01	0.01	37.21		438.58	24.21
					319.01
C	11.25*		PF 1	4802.97	4802.86
0.12	0.01			1.56	3.38
C	11.25*		PF 2	4804.76	4804.03
0.09	0.00			65.00	11.04
C	11.25*		PF 3	4806.25	4805.12
0.05	0.09	0.95		198.91	0.15
C	11.25*		PF 4	4806.68	4805.88
0.02	0.01	7.44		241.41	1.16
C	11.25*		PF 5	4807.49	4806.65
0.02	0.01	17.62		327.43	4.95
C	11.25*		PF 6	4808.49	4807.70
0.01	0.01	43.00		435.32	21.68
					299.90
C	11.125*		PF 1	4802.84	4802.71

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0.12	0.00		1.56	3.40	
C	11.125*	PF 2	4804.66	4803.91	0.75
0.08	0.00	65.00		10.26	
C	11.125*	PF 3	4806.20	4805.42	0.78
0.03	0.01	5.66	194.03	0.31	18.47
C	11.125*	PF 4	4806.64	4805.79	0.85
0.03	0.02	10.78	238.24	0.98	43.64
C	11.125*	PF 5	4807.46	4806.55	0.91
0.02	0.04	22.19	323.02	4.79	136.18
C	11.125*	PF 6	4808.47	4807.57	0.90
0.02	0.06	50.17	432.18	17.66	239.69
C	11	PF 1	4802.69	4802.57	0.12
0.14	0.00	1.56		3.71	
C	11	PF 2	4804.58	4803.81	0.77
0.08	0.00	65.00		9.49	
C	11	PF 3	4806.16	4805.30	0.86
0.02	0.01	8.16	191.56	0.28	17.29
C	11	PF 4	4806.61	4805.60	1.00
0.02	0.02	13.42	235.95	0.63	32.06
C	11	PF 5	4807.40	4806.11	1.29
0.02	0.04	24.47	322.85	2.68	67.57
C	11	PF 6	4808.40	4806.93	1.46
0.02	0.01	44.82	443.91	11.26	147.93
C	10.6666*	PF 1	4802.61	4802.54	0.07
0.04	0.01	1.56		4.09	
C	10.6666*	PF 2	4804.54	4804.17	0.38
0.03	0.00	65.00	0.00	10.75	
C	10.6666*	PF 3	4806.12	4805.29	0.83
0.03	0.01	9.60	189.66	0.74	18.40
C	10.6666*	PF 4	4806.56	4805.61	0.95
0.03	0.02	15.86	232.34	1.80	27.38
C	10.6666*	PF 5	4807.34	4806.17	1.16
0.03	0.05	28.83	315.52	5.64	70.88
C	10.6666*	PF 6	4808.29	4806.88	1.42
0.02	0.07	51.80	432.25	15.94	147.66
C	10.3333*	PF 1	4802.56	4802.52	0.04
0.03	0.01	1.56		4.55	
C	10.3333*	PF 2	4804.51	4804.13	0.37
0.04	0.00	0.00	64.99	0.01	11.05
C	10.3333*	PF 3	4806.08	4805.29	0.79
0.03	0.02	11.43	186.46	2.11	19.12
C	10.3333*	PF 4	4806.51	4805.64	0.87
0.03	0.03	18.89	226.83	4.28	22.92
C	10.3333*	PF 5	4807.25	4806.27	0.98
0.03	0.04	36.24	302.64	11.12	76.89
C	10.3333*	PF 6	4808.20	4807.00	1.19
0.03	0.02	60.19	414.18	25.62	162.14
C	10	PF 1	4802.53	4802.50	0.02
0.03	0.00	1.56		4.85	
C	10	PF 2	4804.47	4804.08	0.38
0.05	0.00	0.02	64.95	0.03	11.54
C	10	PF 3	4806.02	4805.31	0.71
0.04	0.00	13.62	181.40	4.99	19.98
C	10	PF 4	4806.45	4805.68	0.76
0.04	0.00	22.63	218.85	8.52	22.13

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C	10		PF 5	4807.18	4806.34	0.84
0.04	0.00	42.05		288.86	19.09	
C	10		PF 6	4808.14	4807.03	1.12
0.04	0.00	73.82		403.32	22.86	
					177.46	
C	9.91666*		PF 1	4802.50	4802.48	0.02
0.03	0.00			1.56	4.86	
C	9.91666*		PF 2	4804.41	4804.02	0.39
0.05	0.00	0.01		64.95	0.03	
C	9.91666*		PF 3	4805.98	4805.26	0.73
0.05	0.00	12.46		182.59	4.95	
C	9.91666*		PF 4	4806.41	4805.63	0.78
0.04	0.01	21.15		220.43	8.42	
C	9.91666*		PF 5	4807.15	4806.29	0.86
0.04	0.01	39.54		291.38	19.08	
C	9.91666*		PF 6	4808.10	4806.94	1.16
0.04	0.00	70.51		406.72	22.77	
					180.46	
C	9.83333*		PF 1	4802.48	4802.45	0.02
0.03	0.00			1.56	4.88	
C	9.83333*		PF 2	4804.36	4803.97	0.40
0.05	0.00	0.01		64.96	0.03	
C	9.83333*		PF 3	4805.94	4805.17	0.78
0.05	0.00	10.74		184.65	4.61	
C	9.83333*		PF 4	4806.37	4805.54	0.83
0.04	0.00	18.82		223.34	7.84	
C	9.83333*		PF 5	4807.11	4806.19	0.92
0.04	0.00	36.10		295.95	17.96	
C	9.83333*		PF 6	4808.06	4806.85	1.21
0.04	0.03	65.79		410.11	24.10	
					180.16	
C	9.75*		PF 1	4802.45	4802.42	0.03
0.03	0.00			1.56	4.88	
C	9.75*		PF 2	4804.31	4803.90	0.41
0.05	0.00	0.00		64.96	0.04	
C	9.75*		PF 3	4805.90	4805.11	0.79
0.05	0.00	9.85		185.48	4.68	
C	9.75*		PF 4	4806.34	4805.49	0.84
0.04	0.00	17.65		224.58	7.78	
C	9.75*		PF 5	4807.08	4806.15	0.93
0.04	0.00	34.12		297.85	18.03	
C	9.75*		PF 6	4807.99	4806.88	1.10
0.03	0.02	65.24		403.22	31.54	
					192.38	
C	9.66666*		PF 1	4802.42	4802.39	0.03
0.03	0.00			1.56	4.92	
C	9.66666*		PF 2	4804.26	4803.85	0.41
0.05	0.00	0.00		64.96	0.04	
C	9.66666*		PF 3	4805.86	4805.06	0.80
0.04	0.00	8.87		186.46	4.67	
C	9.66666*		PF 4	4806.30	4805.43	0.87
0.04	0.00	16.09		226.41	7.50	
C	9.66666*		PF 5	4807.05	4806.09	0.96
0.04	0.00	31.89		300.45	17.66	
C	9.66666*		PF 6	4807.92	4806.90	1.02
0.03	0.07	62.55		397.51	39.93	
					213.50	
C	9.58333*		PF 1	4802.39	4802.36	0.03

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0.03	0.00	1.56	4.92		
C	9.58333*	PF 2	4804.21	4803.79	0.42
0.05	0.00 0.00	64.96	0.04	11.10	
C	9.58333*	PF 3	4805.82	4805.01	0.81
0.05	0.01 8.12	187.17	4.72	19.15	
C	9.58333*	PF 4	4806.26	4805.38	0.89
0.04	0.01 15.04	227.61	7.35	22.15	
C	9.58333*	PF 5	4807.01	4806.05	0.96
0.04	0.00 30.40	301.90	17.71	72.96	
C	9.58333*	PF 6	4807.82	4807.02	0.80
0.03	0.03 69.04	375.99	54.97	254.12	

C	9.5*	PF 1	4802.36	4802.33	0.03
0.03	0.00	1.56	5.00		
C	9.5*	PF 2	4804.15	4803.73	0.42
0.05	0.00 0.00	64.96	0.04	11.08	
C	9.5*	PF 3	4805.78	4804.88	0.90
0.05	0.00 6.42	189.28	4.30	18.64	
C	9.5*	PF 4	4806.22	4805.25	0.97
0.04	0.00 12.74	230.44	6.82	21.45	
C	9.5*	PF 5	4806.98	4805.99	0.99
0.03	0.00 28.09	304.78	17.13	70.37	
C	9.5*	PF 6	4807.78	4806.72	1.05
0.03	0.07 57.93	397.39	44.69	214.36	

C	9.41666*	PF 1	4802.32	4802.29	0.03
0.04	0.00	1.56	5.12		
C	9.41666*	PF 2	4804.10	4803.67	0.43
0.05	0.00 0.00	64.96	0.04	11.06	
C	9.41666*	PF 3	4805.73	4804.82	0.91
0.05	0.00 5.73	189.98	4.29	18.48	
C	9.41666*	PF 4	4806.18	4805.20	0.98
0.04	0.00 11.72	231.58	6.70	21.46	
C	9.41666*	PF 5	4806.96	4805.95	1.01
0.04	0.00 27.02	306.90	16.07	71.42	
C	9.41666*	PF 6	4807.67	4806.86	0.81
0.03	0.02 65.25	374.68	60.07	252.63	

C	9.33333*	PF 1	4802.29	4802.25	0.03
0.04	0.00	1.56	5.26		
C	9.33333*	PF 2	4804.05	4803.62	0.43
0.05	0.00 0.00	64.96	0.04	11.05	
C	9.33333*	PF 3	4805.69	4804.77	0.92
0.05	0.00 5.14	190.47	4.39	18.33	
C	9.33333*	PF 4	4806.14	4805.15	0.99
0.05	0.01 10.84	232.44	6.72	21.45	
C	9.33333*	PF 5	4806.92	4805.89	1.04
0.03	0.00 25.79	309.51	14.70	69.62	
C	9.33333*	PF 6	4807.61	4806.57	1.04
0.03	0.07 56.27	392.61	51.13	211.89	

C	9.25*	PF 1	4802.24	4802.21	0.03
0.05	0.00	1.56	5.63		
C	9.25*	PF 2	4804.00	4803.56	0.44
0.05	0.00 0.00	64.96	0.04	11.02	
C	9.25*	PF 3	4805.65	4804.71	0.93
0.05	0.00 4.49	191.14	4.37	18.16	
C	9.25*	PF 4	4806.10	4805.05	1.05
0.05	0.00 9.29	234.06	6.65	20.73	

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C	9.25*		PF 5	4806.88	4805.86	1.02
0.03	0.02	24.96		309.54	15.50	
C	9.25*		PF 6	4807.51	4806.68	0.82
0.03	0.02	62.20		372.22	65.58	
C	9.16666*		PF 1	4802.19	4802.16	0.04
0.05	0.00			1.56	5.70	
C	9.16666*		PF 2	4803.94	4803.50	0.45
0.05	0.00	0.00		64.96	0.04	
C	9.16666*		PF 3	4805.60	4804.64	0.96
0.05	0.00	3.83		191.85	4.32	
C	9.16666*		PF 4	4806.06	4805.00	1.05
0.05	0.00	8.47		234.86	6.67	
C	9.16666*		PF 5	4806.82	4805.87	0.94
0.03	0.01	25.37		305.62	19.01	
C	9.16666*		PF 6	4807.43	4806.45	0.98
0.03	0.05	55.51		384.21	60.28	
C	9.08333*		PF 1	4802.14	4802.11	0.04
0.07	0.00			1.56	5.80	
C	9.08333*		PF 2	4803.89	4803.43	0.46
0.06	0.01			64.96	0.04	
C	9.08333*		PF 3	4805.56	4804.60	0.96
0.05	0.00	3.46		192.25	4.30	
C	9.08333*		PF 4	4806.02	4804.95	1.06
0.04	0.00	7.54		235.64	6.82	
C	9.08333*		PF 5	4806.77	4805.67	1.11
0.03	0.02	21.12		312.80	16.08	
C	9.08333*		PF 6	4807.35	4806.53	0.82
0.02	0.00	59.06		369.65	71.30	
C	9		PF 1	4802.07	4802.01	0.06
				1.56	5.43	
C	9		PF 2	4803.83	4803.30	0.53
				64.98	0.02	
C	9		PF 3	4805.51	4804.53	0.98
	3.04			192.64	4.33	
C	9		PF 4	4805.97	4804.91	1.06
	6.93			235.89	7.18	
C	9		PF 5	4806.69	4805.73	0.96
0.03	0.04	22.82		304.95	22.23	
C	9		PF 6	4807.30	4806.22	1.08
0.03	0.03	49.29		389.12	61.59	