

Duplicate Effective Floodway Model

Plan

Profile

Summary

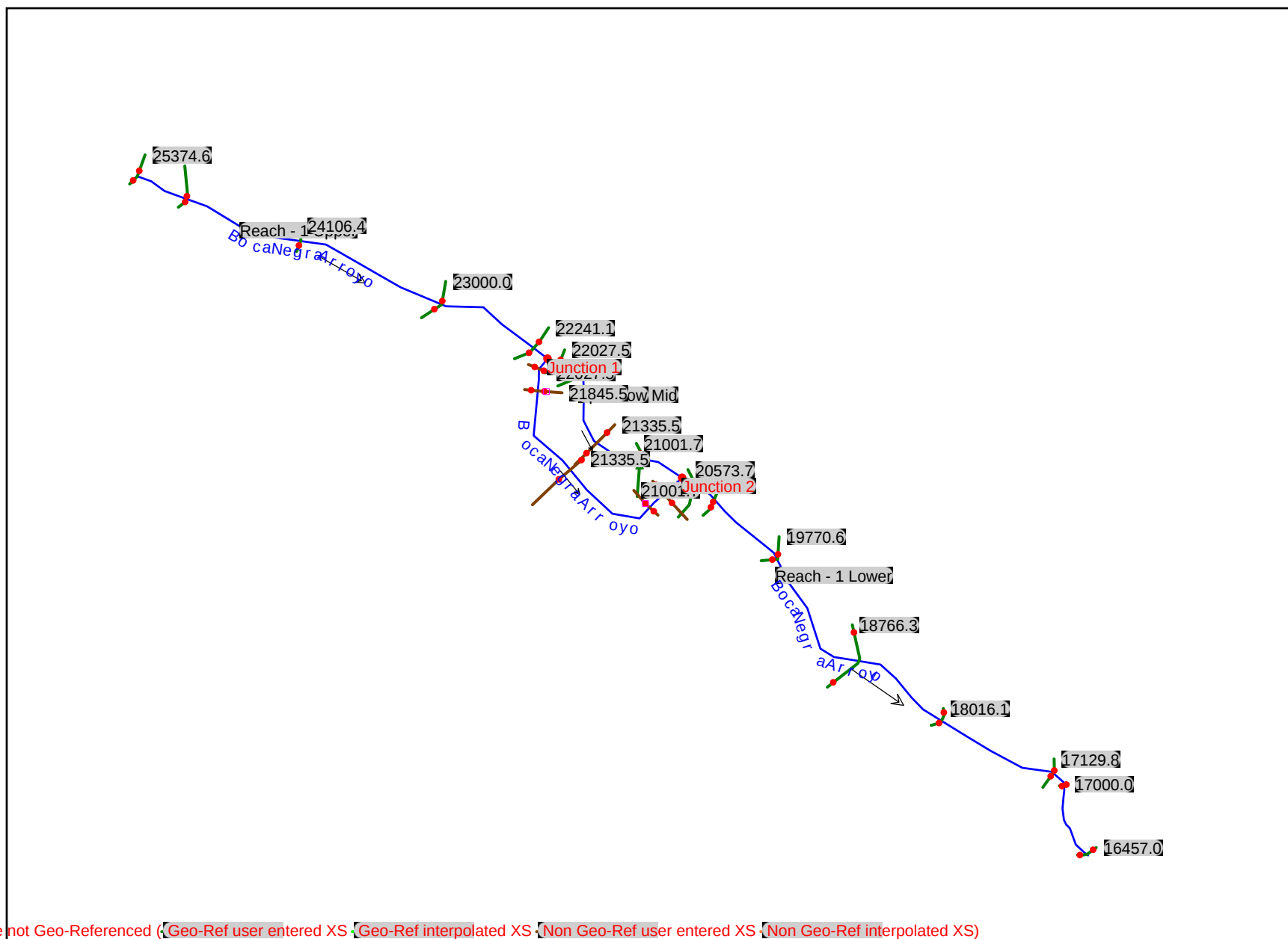
Cross Sections

Input/output Report

Hydraulics Model – HEC-RAS Analysis (CD)

FEMA Duplicate Effective Floodway Files

- | | | |
|---------------|---|--------------------|
| i.Project: | BNA- DupEff Floodway | DupEffFloodway.prj |
| ii.Plan: | Multiple Updated Flow-Floodway | DupEffFloodway.p09 |
| iii.Geometry: | Duplicate Geom 01 by CodeH2 for windows | DupEffFloodway.g04 |
| iv.Flow: | Updated 2014 | DupEffFloodway.f01 |

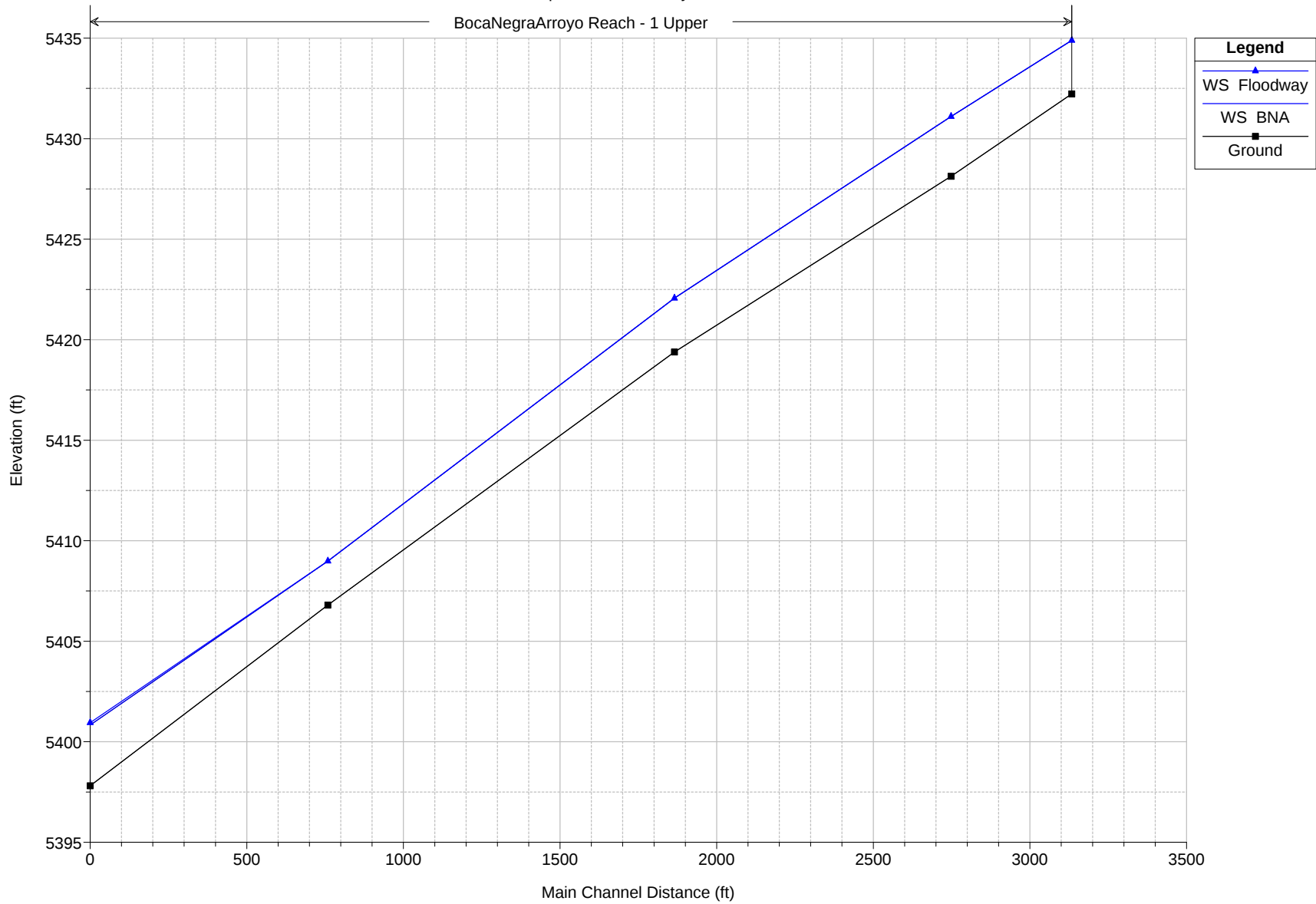


Duplicate Effective Floodway

BNA-DupEff Floodway Plan: Multiple Updated Flow-Floodway 1/6/2016

Geom: Duplicate Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Upper

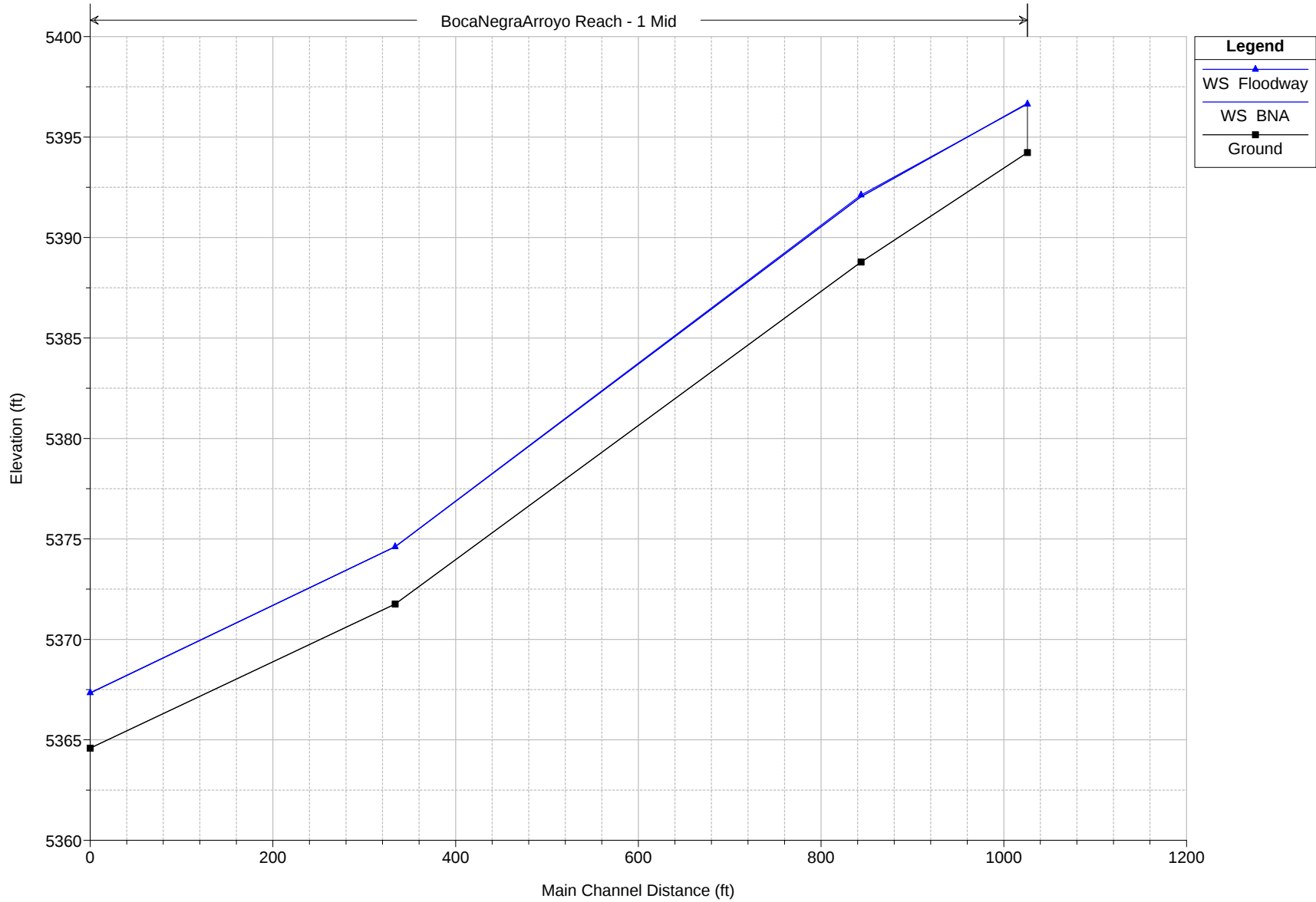


Duplicate Effective Floodway

BNA-DupEff Floodway Plan: Multiple Updated Flow-Floodway 1/6/2016

Geom: Duplicate Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Mid

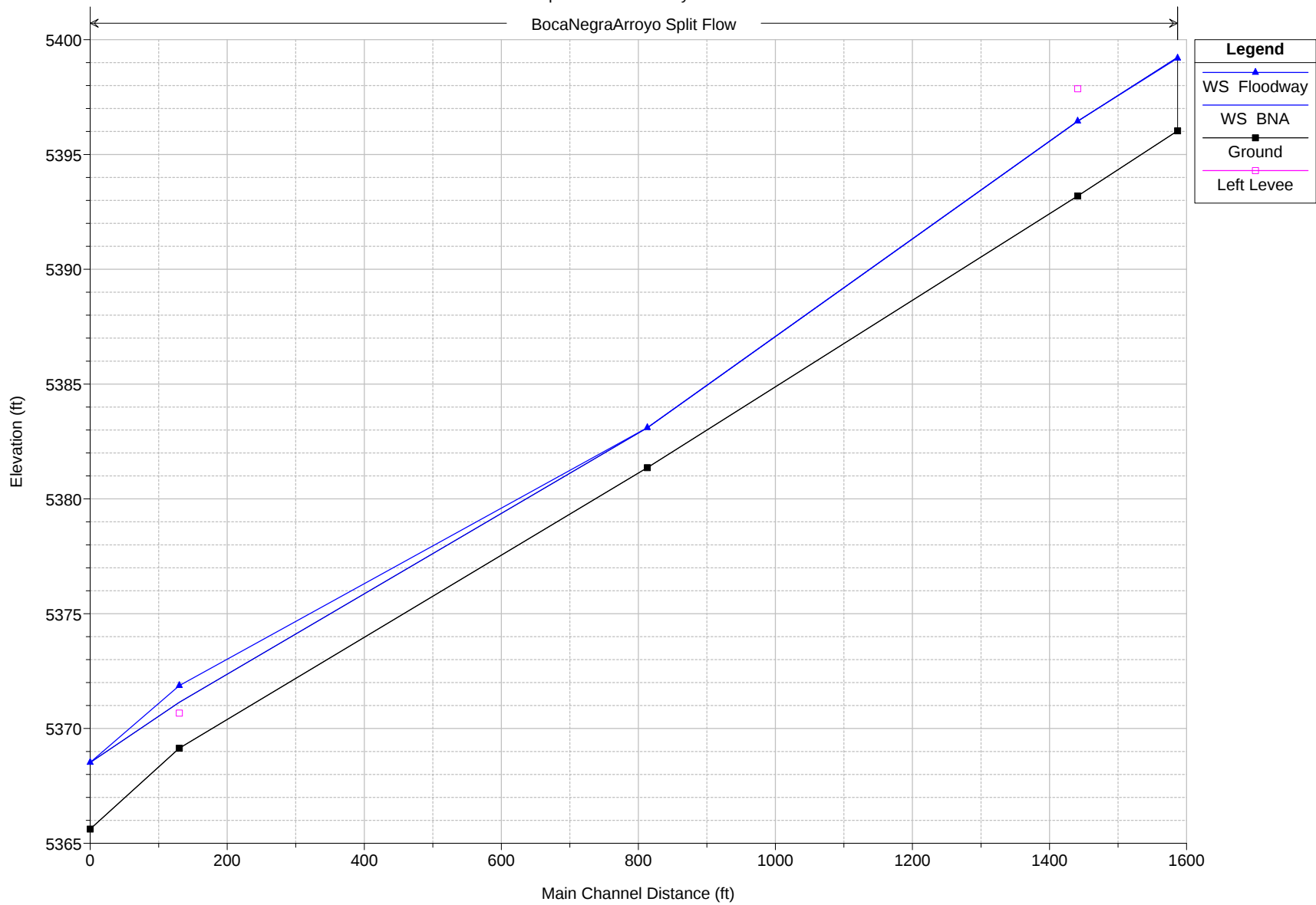


Duplicate Effective Floodway

BNA-DupEff Floodway Plan: Multiple Updated Flow-Floodway 1/6/2016

Geom: Duplicate Geom 01 by CodeH2 for Windows

BocaNegraArroyo Split Flow

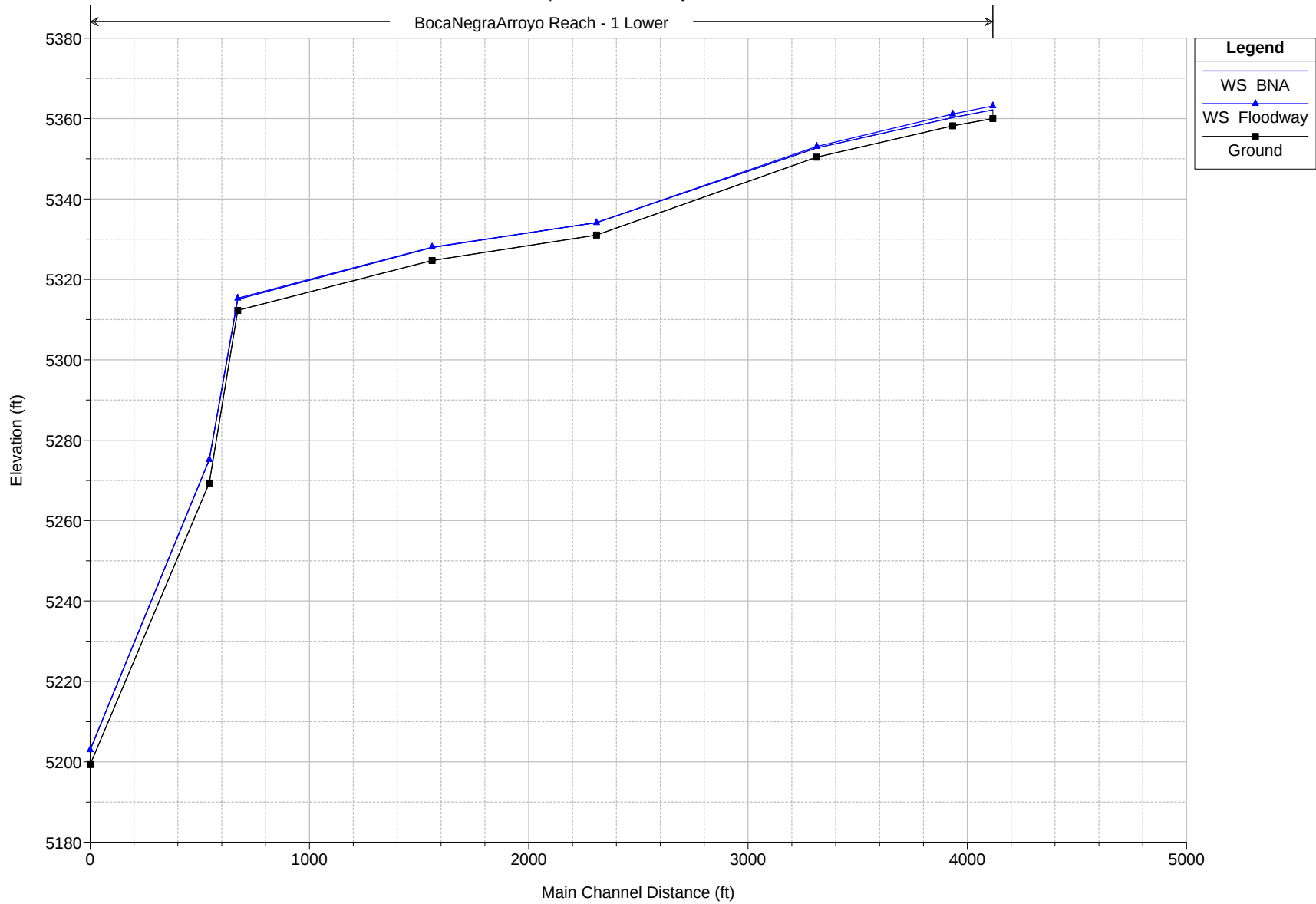


Duplicate Effective Floodway

BNA-DupEff Floodway Plan: Multiple Updated Flow-Floodway 1/6/2016

Geom: Duplicate Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Lower



Duplicate Effective Floodway

HEC-RAS Plan: FW

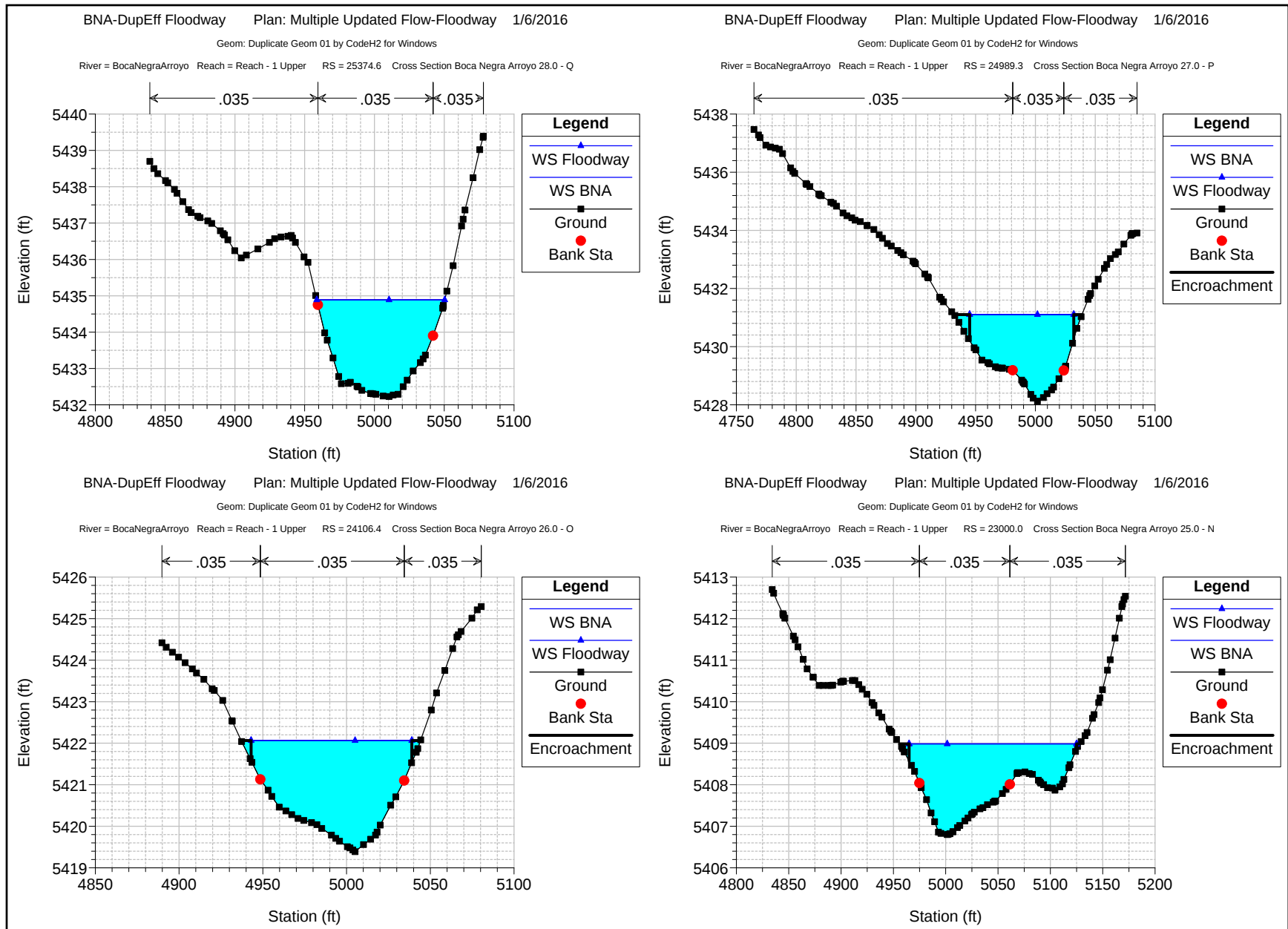
Reach	River Sta	Profile	W.S. Elev (ft)	Prof Delta WS (ft)	E.G. Elev (ft)	Top Width Act (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Enc Sta L (ft)	Ch Sta L (ft)	Ch Sta R (ft)	Enc Sta R (ft)
Reach - 1 Upper	25374.6	BNA	5434.89		5435.63	91.71	0.04	1181.01	11.95		4959.52	5042.01	
Reach - 1 Upper	25374.6	Floodway	5434.89	0.00	5435.63	91.72	0.04	1180.99	11.96	4955.00	4959.52	5042.01	5052.00
Reach - 1 Upper	24989.3	BNA	5431.11		5431.84	106.99	318.41	816.44	58.15		4980.99	5023.67	
Reach - 1 Upper	24989.3	Floodway	5431.10	0.00	5431.86	87.00	325.58	810.19	57.23	4945.00	4980.99	5023.67	5032.00
Reach - 1 Upper	24106.4	BNA	5422.07		5422.80	107.19	14.56	1164.83	13.61		4948.54	5034.40	
Reach - 1 Upper	24106.4	Floodway	5422.07	0.00	5422.81	96.00	13.25	1168.07	11.68	4943.00	4948.54	5034.40	5039.00
Reach - 1 Upper	23000.0	BNA	5408.99		5409.60	171.81	23.36	960.16	209.48		4974.92	5061.35	
Reach - 1 Upper	23000.0	Floodway	5408.99	0.00	5409.60	160.00	23.36	956.16	213.48	4965.00	4974.92	5061.35	5125.00
Reach - 1 Upper	22241.1	BNA	5400.83		5401.06	162.42	41.14	1119.64	32.22		4942.34	5048.02	
Reach - 1 Upper	22241.1	Floodway	5400.95	0.12	5401.18	115.00	7.75	1157.05	28.19	4940.00	4942.34	5048.02	5055.00
Reach - 1 Mid	22027.5	BNA	5396.68		5397.48	117.31	14.37	1198.77	1.86		4967.55	5062.32	
Reach - 1 Mid	22027.5	Floodway	5396.64	-0.04	5397.51	94.77		1215.00		4967.55	4967.55	5062.32	5062.32
Reach - 1 Mid	21845.5	BNA	5392.03		5392.98	93.65	83.97	1040.44	90.59		4975.28	5023.67	
Reach - 1 Mid	21845.5	Floodway	5392.12	0.09	5393.47	48.39		1215.00		4975.28	4975.28	5023.67	5023.67
Reach - 1 Mid	21335.5	BNA	5374.61		5375.32	126.88		1215.00			4982.78	5189.42	
Reach - 1 Mid	21335.5	Floodway	5374.61	0.00	5375.32	126.94		1215.00		4982.78	4982.78	5189.42	5189.42
Reach - 1 Mid	21001.7	BNA	5367.33		5368.34	75.26		1214.78	0.22		4964.29	5038.83	
Reach - 1 Mid	21001.7	Floodway	5367.34	0.01	5368.34	73.82		1215.00		4964.29	4964.29	5038.83	5038.83
Split Flow	22027.5	BNA	5399.23		5400.21	92.10	25.38	1169.72	19.90		4944.75	5008.76	
Split Flow	22027.5	Floodway	5399.20	-0.03	5400.32	64.01		1215.00		4944.75	4944.75	5008.76	5008.76
Split Flow	21845.5	BNA	5396.45		5397.40	79.60		1215.00			4917.38	5004.75	
Split Flow	21845.5	Floodway	5396.45	0.01	5397.40	79.69		1215.00		4917.38	4917.38	5004.75	5004.75
Split Flow	21335.5	BNA	5383.09		5383.65	184.61		1215.00			4919.15	5115.19	
Split Flow	21335.5	Floodway	5383.10	0.00	5383.65	184.79		1215.00		4919.15	4919.15	5115.19	5115.19
Split Flow	21001.7	BNA	5371.14		5371.74	162.66	582.86	626.76	5.37		4956.44	5031.38	
Split Flow	21001.7	Floodway	5371.87	0.73	5372.86	74.94		1215.00		4956.44	4956.44	5031.38	5031.38
Split Flow	20774.5	BNA	5368.52		5369.29	113.22		1215.00			4925.19	5084.41	
Split Flow	20774.5	Floodway	5368.52	0.00	5369.29	113.26		1215.00		4925.19	4925.19	5084.41	5084.41
Reach - 1 Lower	20573.7	BNA	5362.16		5362.59	221.76	56.15	710.02	451.83		4990.78	5049.79	
Reach - 1 Lower	20573.7	Floodway	5363.16	1.00	5363.93	59.01		1218.00		4990.78	4990.78	5049.79	5049.79
Reach - 1 Lower	20390.6	BNA	5360.25		5360.77	163.00	621.49	499.69	96.82		5020.10	5060.56	

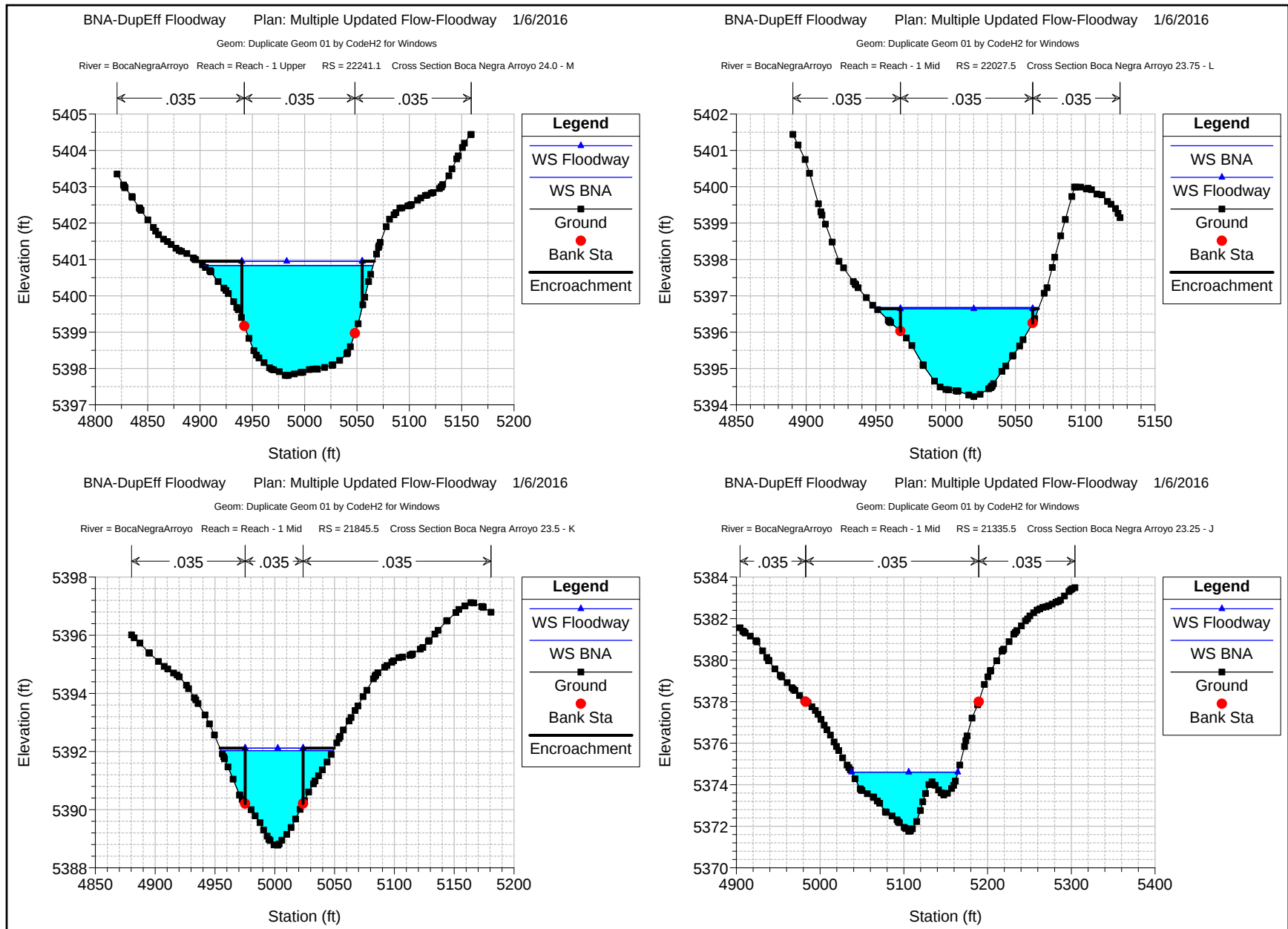
Duplicate Effective Floodway

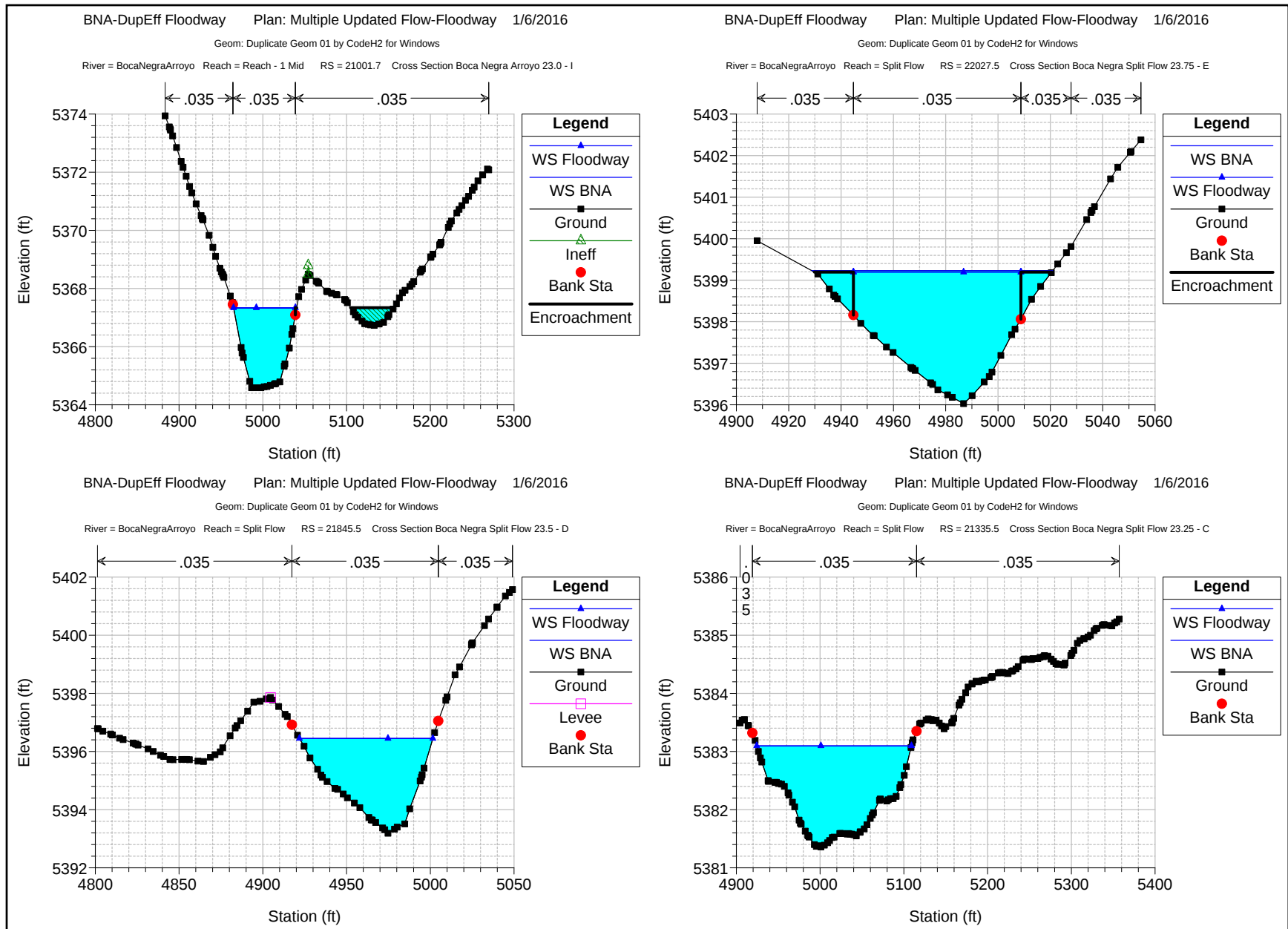
HEC-RAS Plan: FW (Continued)

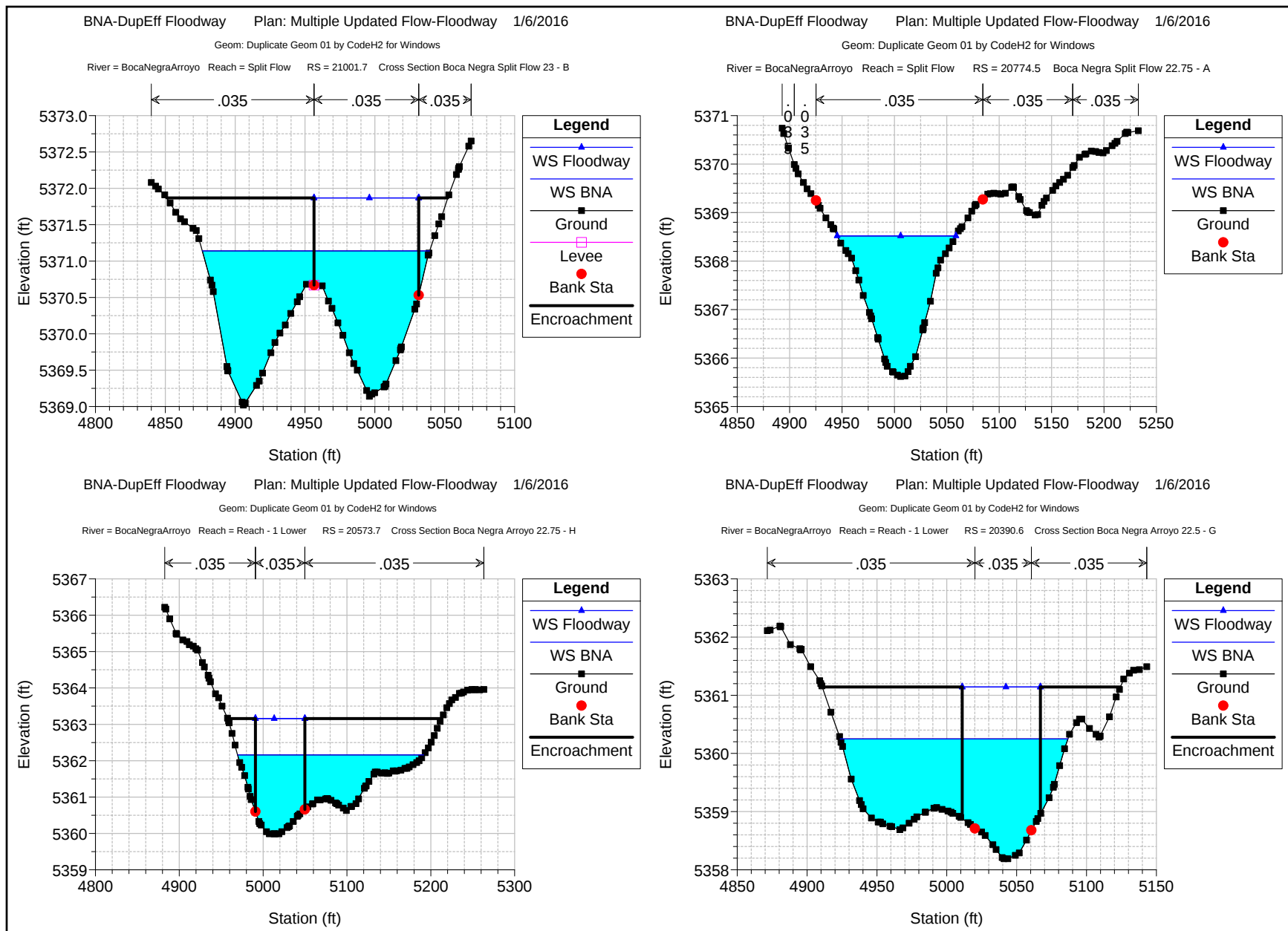
Reach	River Sta	Profile	W.S. Elev (ft)	Prof Delta WS (ft)	E.G. Elev (ft)	Top Width Act (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Enc Sta L (ft)	Ch Sta L (ft)	Ch Sta R (ft)	Enc Sta R (ft)
Reach - 1 Lower	20390.6	Floodway	5361.14	0.89	5362.25	56.00	146.33	974.26	97.41	5011.00	5020.10	5060.56	5067.00
Reach - 1 Lower	19770.6	BNA	5352.70		5353.31	173.39	264.71	836.04	117.26		4961.90	5032.84	
Reach - 1 Lower	19770.6	Floodway	5353.07	0.37	5354.13	70.94		1218.00		4961.90	4961.90	5032.84	5032.84
Reach - 1 Lower	18766.3	BNA	5334.14		5334.51	110.37		1218.00			4792.08	5238.87	
Reach - 1 Lower	18766.3	Floodway	5334.10	-0.04	5334.48	109.94		1218.00		4792.08	4792.08	5238.87	5238.87
Reach - 1 Lower	18016.1	BNA	5327.94		5328.89	82.57		1218.00			4936.76	5025.30	
Reach - 1 Lower	18016.1	Floodway	5328.02	0.08	5328.89	84.95		1218.00		4936.76	4936.76	5025.30	5025.30
Reach - 1 Lower	17129.8	BNA	5315.03		5315.81	115.42	225.08	910.26	82.66		4980.40	5029.57	
Reach - 1 Lower	17129.8	Floodway	5315.30	0.27	5316.65	49.17		1218.00		4980.40	4980.40	5029.57	5029.57
Reach - 1 Lower	17000.0	BNA	5275.17		5276.91	33.08		1218.00			4980.13	5014.51	
Reach - 1 Lower	17000.0	Floodway	5275.17	0.00	5276.91	33.08		1218.00		4980.13	4980.13	5014.51	5014.51
Reach - 1 Lower	16457.0	BNA	5203.01		5203.84	100.51		1218.00			4944.16	5049.59	
Reach - 1 Lower	16457.0	Floodway	5203.01	0.00	5203.84	100.51		1218.00		4944.16	4944.16	5049.59	5049.59

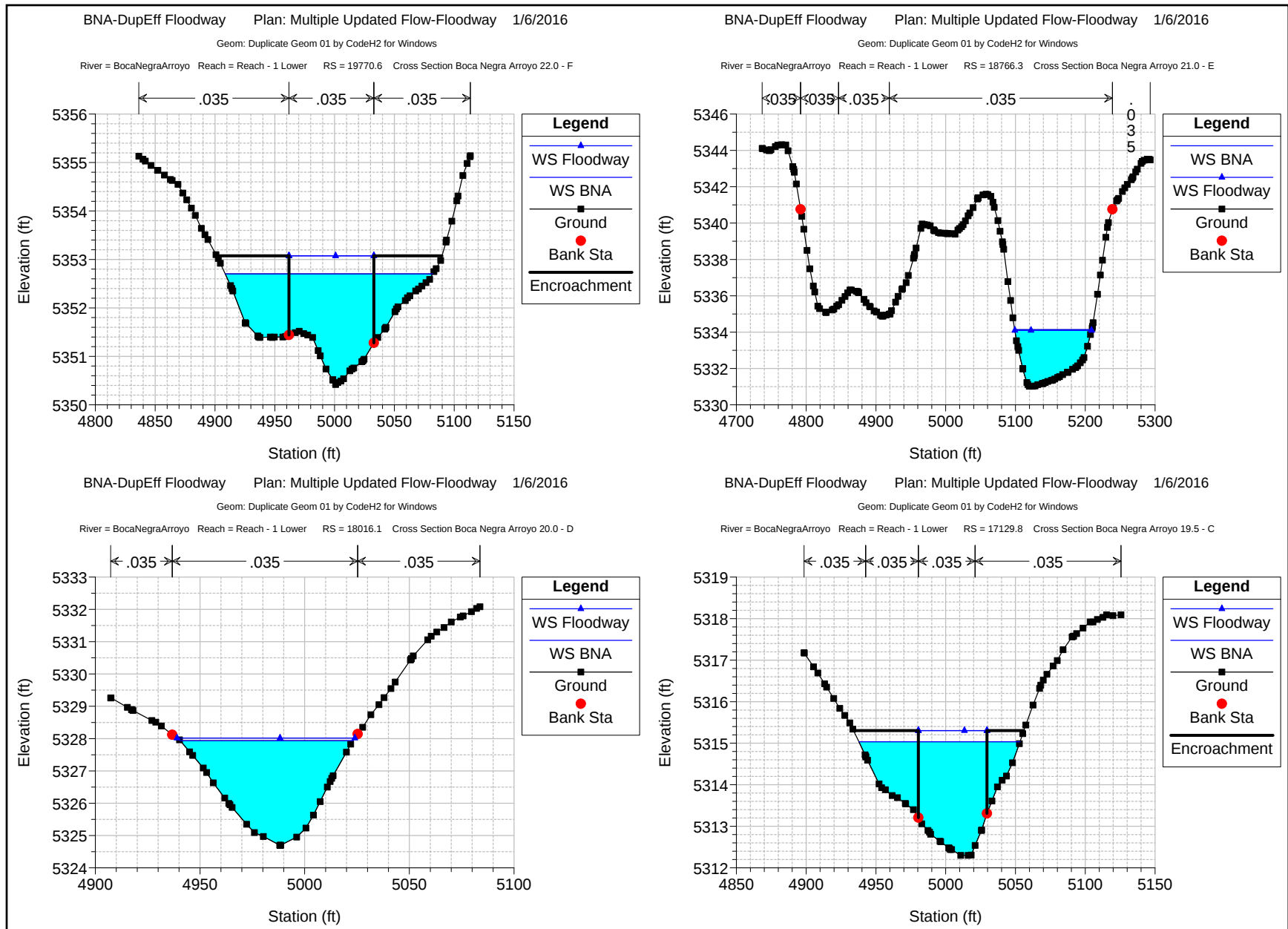
Duplicate Effective Floodway







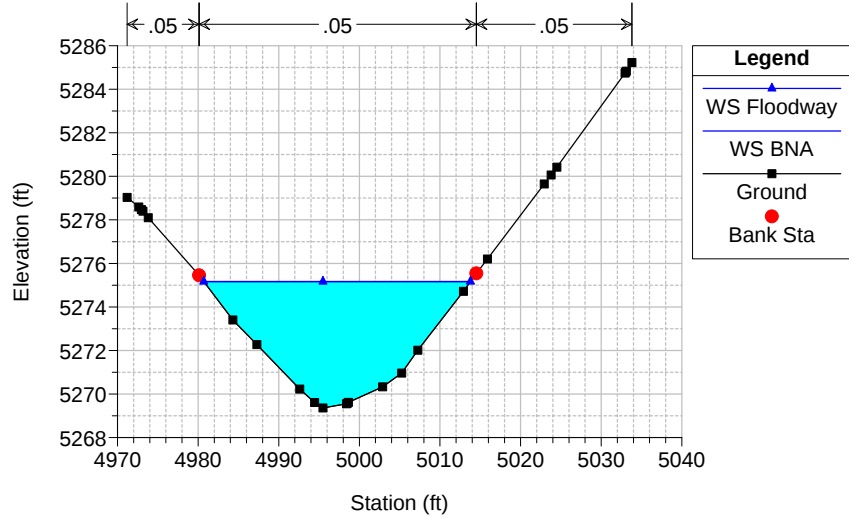




BNA-DupEff Floodway Plan: Multiple Updated Flow-Floodway 1/6/2016

Geom: Duplicate Geom 01 by CodeH2 for Windows

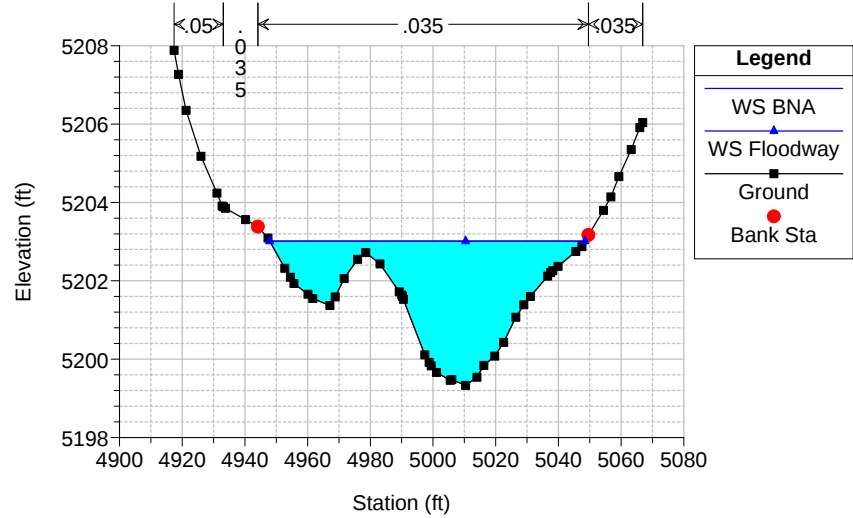
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 17000.0 Cross Section Boca Negra Arroyo 19.0 - B



BNA-DupEff Floodway Plan: Multiple Updated Flow-Floodway 1/6/2016

Geom: Duplicate Geom 01 by CodeH2 for Windows

River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 16457.0 Cross Section Boca Negra Arroyo 18.0 - A



DupEffFloodway.rep

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

```

X   X   XXXXX   XXXX   XXXX   XX   XXXX
X   X   X       X   X   X   X   X
X   X   X       X   X   X   X   X
XXXXXX XXXX   X   XXXX   XXXXXX   XXXX
X   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: BNA-DupEff Floodway
Project File : DupEffFloodway.prj
Run Date and Time: 1/6/2016 9:14:08 AM

Project in English units

PLAN DATA

Plan Title: Multiple Updated Flow-Floodway
Plan File : t:\Projects\321807802\Eng\2012 Final Plans_Specifications_Estimate_Reports\2014 Final Construction Acceptance Reports\H&H\LOMR - RAS\BNA RAS FLOODWAY\DupEffFloodway.p09

Geometry Title: Duplicate Geom 01 by CodeH2 for Windows
Geometry File : t:\Projects\321807802\Eng\2012 Final Plans_Specifications_Estimate_Reports\2014 Final Construction Acceptance Reports\H&H\LOMR - RAS\BNA RAS FLOODWAY\DupEffFloodway.g04

Flow Title : Updated 2014
Flow File : t:\Projects\321807802\Eng\2012 Final Plans_Specifications_Estimate_Reports\2014 Final Construction Acceptance Reports\H&H\LOMR - RAS\BNA RAS FLOODWAY\DupEffFloodway.f01

Plan Summary Information:

Number of:	Cross Sections =	22	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: Subcritical Flow

Encroachment Data

Equal Conveyance =	False
Left Offset =	0
Right Offset =	0

River = BocaNegraArroyo	Reach =	Reach - 1 Upper
RS Profile	Method	Value1 Value2
25374.6 Floodway	1	4955 5052
24989.3 Floodway	1	4945 5032
24106.4 Floodway	1	4943 5039
23000.0 Floodway	1	4965 5125
22241.1 Floodway	1	4940 5055

River = BocaNegraArroyo	Reach =	Reach - 1 Mid
RS Profile	Method	Value1 Value2
22027.5 Floodway	1	4967.55 5062.32
21845.5 Floodway	1	4975.28 5023.67
21335.5 Floodway	1	4982.78 5189.42
21001.7 Floodway	1	4964.29 5038.83

River = BocaNegraArroyo	Reach =	Split Flow
RS Profile	Method	Value1 Value2
22027.5 Floodway	1	4944.75 5008.76
21845.5 Floodway	1	4917.38 5004.75
21335.5 Floodway	1	4919.15 5115.19
21001.7 Floodway	1	4956.44 5031.38
20774.5 Floodway	1	4925.19 5084.41

River = BocaNegraArroyo	Reach =	Reach - 1 Lower
RS Profile	Method	Value1 Value2
20573.7 Floodway	1	4990.78 5049.79

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20390.6 Floodway	1	5011	5067
19770.6 Floodway	1	4961.9	5032.84
18766.3 Floodway	1	4792.08	5238.87
18016.1 Floodway	1	4936.76	5025.3
17129.8 Floodway	1	4980.4	5029.57
17000.0 Floodway	1	4980.13	5014.51
16457.0 Floodway	1	4944.16	5049.59

FLOW DATA

Flow Title: Updated 2014

Flow File : t:\Projects\X321807802\Eng\2012 Final Plans_Specifications_Estimate_Reports\2014 Final Construction Acceptance Reports\H&H\LOMR - RAS\BNA RAS FLOODWAY\DupEffFloodway.f01

Flow Data (cfs)

River	Reach	RS	BNA	Floodway
BocaNegraArroyo	Reach - 1 Upper	25374.6	1193	1193
BocaNegraArroyo	Reach - 1 Mid	22027.5	1215	1215
BocaNegraArroyo	Split Flow	22027.5	1215	1215
BocaNegraArroyo	Reach - 1 Lower	20573.7	1218	1218

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
BocaNegraArroyo	Reach - 1 Lower	BNA		Normal S = 0.0283

GEOMETRY DATA

Geometry Title: Duplicate Geom 01 by CodeH2 for Windows

Geometry File : t:\Projects\X321807802\Eng\2012 Final Plans_Specifications_Estimate_Reports\2014 Final Construction Acceptance Reports\H&H\LOMR - RAS\BNA RAS FLOODWAY\DupEffFloodway.g04

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
BocaNegraArroyo	Reach - 1 Upper		Junction 1
BocaNegraArroyo	Reach - 1 Mid	Junction 1	Junction 2
BocaNegraArroyo	Split Flow	Junction 1	Junction 2
BocaNegraArroyo	Reach - 1 Lower	Junction 2	

JUNCTION INFORMATION

Name: Junction 1

Description:

Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
BocaNegraArroyo	Reach - 1 Upper	to BocaNegraArroyo	Reach - 1 Mid	213.6	
BocaNegraArroyo	Reach - 1 Upper	to BocaNegraArroyo	Split Flow	173	

Name: Junction 2

Description:

Energy computation Method

Length across Junction		Tributary		Length	Angle
River	Reach	River	Reach		
BocaNegraArroyo	Reach - 1 Mid	to BocaNegraArroyo	Reach - 1 Lower	428	
BocaNegraArroyo	Split Flow	to BocaNegraArroyo	Reach - 1 Lower	321	

CROSS SECTION

RIVER: BocaNegraArroyo

REACH: Reach - 1 Upper RS: 25374.6

INPUT

Description: Cross Section Boca Negra Arroyo 28.0 - Q

Station Elevation Data		num= 71		Sta		Elev		Sta		Elev		Sta		Elev	
4839	5438.7	4841.95	5438.5	4844.7	5438.36	4850.23	5438.17	4851.86	5438.11						
4856.66	5437.93	4858.5	5437.82	4862.65	5437.59	4866.78	5437.37	4868.62	5437.29						
4873.39	5437.19	4875.06	5437.15	4880.58	5437.06	4883.34	5436.99	4889.55	5436.79						
4891.62	5436.71	4892.54	5436.67	4894.92	5436.54	4899.9	5436.24	4904.5	5436.04						
4908.18	5436.12	4916.45	5436.29	4916.46	5436.29	4924.73	5436.47	4928.41	5436.57						
4933.01	5436.62	4937.99	5436.64	4940.37	5436.66	4941.29	5436.59	4943.35	5436.47						
4949.57	5436.07	4952.33	5435.92	4957.85	5435.01	4959.52	5434.75	4964.29	5433.98						
4966.13	5433.78	4970.25	5433.29	4974.4	5432.78	4976.25	5432.58	4981.05	5432.59						
4982.68	5432.62	4987.45	5432.51	4988.21	5432.49	4990.96	5432.4	4997.15	5432.31						
4997.8	5432.31	4999.05	5432.3	5000.96	5432.29	5006.21	5432.24	5010.47	5432.23						

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5013.37	5432.27	5016.93	5432.29	5020.53	5432.5	5023.46	5432.68	5027.69	5432.93
5032.9	5433.16	5034.85	5433.26	5036.44	5433.37	5042.01	5433.9	5048.87	5434.66
5049.18	5434.7	5049.43	5434.74	5051.87	5435.13	5056.34	5435.83	5062.41	5436.92
5063.5	5437.11	5064.84	5437.36	5070.66	5438.25	5075.4	5439.02	5077.82	5439.36
5078.02	5439.39								

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
4839	.035	4959.52	.035
		5042.01	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4959.52	5042.01		385.3	385.3		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Upper RS: 24989.3

INPUT

Description: Cross Section Boca Negra Arroyo 27.0 - P

Station Elevation Data		num=	96
Sta	Elev	Sta	Elev
4764.7	5437.47	4768.41	5437.28
4782.55	5436.83	4785.93	5436.79
4798.71	5435.96	4808.12	5435.61
4818.9	5435.25	4819.79	5435.21
4833.69	5434.83	4839.1	5434.6
4853.64	5434.3	4859.27	5434.17
4872.06	5433.73	4876.21	5433.55
4889.6	5433.16	4897.63	5432.94
4909.8	5432.4	4910.07	5432.38
4923.2	5431.54	4929.99	5431.2
4943.93	5430.28	4948.78	5429.96
4961.56	5429.41	4966.5	5429.31
4978.17	5429.22	4980.99	5429.19
4990.83	5428.72	4996.15	5428.36
5009.73	5428.38	5013.45	5428.51
5025.04	5429.3	5025.31	5429.33
5044	5431.63	5045.31	5431.76
5057.67	5432.69	5059.58	5432.83
5073.86	5433.53	5079.78	5433.83
5084.93	5433.91		

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
4764.7	.035	4980.99	.035
		5023.67	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4980.99	5023.67		882.9	882.9		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Upper RS: 24106.4

INPUT

Description: Cross Section Boca Negra Arroyo 26.0 - 0

Station Elevation Data		num=	56
Sta	Elev	Sta	Elev
4889.8	5424.42	4892.33	5424.31
4907.9	5423.79	4910.36	5423.69
4926.06	5423.03	4931.62	5422.54
4943.49	5421.54	4948.54	5421.13
4963.78	5420.37	4967.22	5420.28
4982.27	5420.04	4985.15	5419.95
5000.47	5419.51	5002.06	5419.48
5014.35	5419.69	5017.27	5419.79
5029.43	5420.71	5034.4	5421.1
5044.27	5422.08	5050.57	5422.8
5065.9	5424.56	5066.74	5424.61
5080.45	5425.29		

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
4889.8	.035	4948.54	.035
		5034.4	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4948.54	5034.4		1106.4	1106.4		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Upper RS: 23000.0

INPUT

Description: Cross Section Boca Negra Arroyo 25.0 - N

Station Elevation Data		num=	106
Sta	Elev	Sta	Elev

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4834.3	5412.7	4835.65	5412.61	4844.38	5412.12	4844.78	5412.09	4845.05	5412.08
4846.28	5412.01	4854.44	5411.58	4856.19	5411.49	4858.88	5411.32	4863.84	5411.02
4867.59	5410.79	4873.24	5410.59	4873.39	5410.59	4879	5410.39	4882.63	5410.39
4887.89	5410.39	4890.4	5410.39	4892.03	5410.4	4899.65	5410.47	4901.43	5410.49
4901.81	5410.49	4902.4	5410.49	4910.82	5410.51	4913.21	5410.51	4916.9	5410.41
4920.22	5410.3	4924.62	5410.18	4929.62	5409.98	4931.4	5409.91	4936.02	5409.73
4939.01	5409.63	4945.91	5409.34	4947.43	5409.29	4948.41	5409.26	4953.01	5409.09
4957.81	5408.92	4958.83	5408.87	4960.41	5408.79	4967.2	5408.47	4970.24	5408.32
4974.92	5408.04	4976.6	5407.93	4981.64	5407.64	4986	5407.32	4989.42	5407.11
4993.05	5406.86	4995.39	5406.83	5001.4	5406.8	5002.43	5406.81	5003.99	5406.82
5006.86	5406.87	5006.89	5406.87	5011.16	5406.97	5013.48	5407.02	5018.33	5407.13
5021.29	5407.2	5024.54	5407.28	5025.5	5407.3	5027.28	5407.34	5032.67	5407.42
5035.59	5407.45	5039.84	5407.52	5045.38	5407.58	5046.64	5407.6	5047.01	5407.6
5047.7	5407.61	5054.18	5407.79	5057.69	5407.89	5061.35	5408.01	5068.12	5408.27
5068.52	5408.29	5068.74	5408.29	5069.47	5408.29	5075.7	5408.31	5079.79	5408.27
5082.87	5408.25	5088.54	5408.11	5090.04	5408.07	5090.84	5408.04	5093.55	5408
5097.21	5407.93	5101.89	5407.92	5104.38	5407.87	5108.97	5407.95	5111.55	5408.02
5112.95	5408.13	5117.64	5408.41	5118.72	5408.48	5124	5408.8	5125.89	5408.92
5129.39	5409.04	5133.06	5409.18	5135.05	5409.26	5140.23	5409.6	5141.73	5409.69
5146.1	5409.98	5147.4	5410.09	5149.81	5410.29	5154.57	5410.76	5157.15	5411.01
5161.74	5411.53	5165.81	5412.01	5168.2	5412.29	5168.91	5412.35	5170.23	5412.46
5171.65	5412.54								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4834.3	.035	4974.92	.035	5061.35	.035

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4974.92	5061.35	758.9	758.9	758.9	.1		.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Upper RS: 22241.1

INPUT

Description: Cross Section Boca Negra Arroyo 24.0 - M

Station Elevation Data		num= 106		Sta		Elev		Sta		Elev	
4820.81	5403.35	4826.92	5403.05	4827.77	5403	4828.45	5402.97	4834.88	5402.73		
4835.23	5402.71	4841.93	5402.42	4842.68	5402.39	4843.61	5402.35	4850.14	5402.09		
4855.42	5401.88	4857.6	5401.78	4860.3	5401.68	4865.05	5401.56	4868.9	5401.49		
4872.51	5401.41	4876.98	5401.31	4879.97	5401.25	4882.38	5401.22	4887.43	5401.16		
4893.67	5401.04	4894.88	5401.01	4895.86	5400.99	4902.34	5400.85	4905.09	5400.78		
4909.35	5400.69	4909.8	5400.68	4910.36	5400.66	4917.26	5400.39	4922.83	5400.21		
4924.71	5400.15	4927.05	5400.06	4932.17	5399.84	4935.12	5399.68	4936.44	5399.62		
4939.49	5399.4	4942.34	5399.17	4946.71	5398.83	4951.4	5398.49	4953.94	5398.37		
4956.32	5398.29	4961.17	5398.16	4966.35	5398.02	4968.39	5397.98	4970.3	5397.96		
4975.62	5397.91	4981.31	5397.81	4982.84	5397.81	4984.28	5397.81	4990.07	5397.85		
4996.26	5397.89	4997.29	5397.9	4998.26	5397.9	5004.52	5397.97	5008.04	5397.98		
5011.21	5397.99	5011.74	5397.98	5012.24	5397.98	5018.97	5398.03	5026.17	5398.09		
5026.2	5398.09	5026.22	5398.09	5026.99	5398.1	5033.42	5398.22	5040.2	5398.4		
5040.65	5398.42	5041.12	5398.44	5043.57	5398.6	5048.02	5398.97	5051.13	5399.23		
5055.49	5399.75	5057.32	5399.96	5061.08	5400.39	5062.97	5400.59	5068.64	5401.15		
5070.44	5401.33	5071.04	5401.38	5072.22	5401.47	5077.91	5401.9	5080.99	5402.11		
5085.39	5402.23	5087.12	5402.29	5090.94	5402.41	5092.86	5402.42	5098.63	5402.47		
5100.33	5402.48	5100.9	5402.49	5102.02	5402.51	5107.8	5402.63	5110.85	5402.69		
5115.28	5402.76	5116.92	5402.77	5120.8	5402.82	5122.75	5402.84	5128.61	5402.95		
5130.22	5402.99	5130.76	5403	5131.82	5403.06	5137.7	5403.3	5140.71	5403.49		
5145.17	5403.77	5146.72	5403.85	5150.67	5404.08	5152.64	5404.2	5158.6	5404.43		
5159.07	5404.44										

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4820.81	.035	4942.34	.035	5048.02	.035

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4942.34	5048.02	0	0	0	.1		.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Mid RS: 22027.5

INPUT

Description: Cross Section Boca Negra Arroyo 23.75 - L

Station Elevation Data		num= 76		Sta		Elev		Sta		Elev	
4890.5	5401.44	4894.23	5401.15	4899.28	5400.75	4902.37	5400.37	4908.78	5399.53		
4910.52	5399.31	4911.36	5399.22	4913.78	5398.97	4918.67	5398.48	4923.45	5397.95		
4926.82	5397.77	4933.78	5397.39	4934.96	5397.33	4935.54	5397.3	4937.18	5397.22		
4943.11	5396.95	4947.62	5396.74	4951.26	5396.62	4958.78	5396.33	4959.41	5396.3		
4959.71	5396.29	4960.59	5396.26	4967.55	5396.03	4971.8	5395.84	4975.7	5395.63		
4983.78	5395.1	4983.85	5395.09	4983.89	5395.09	4983.99	5395.08	4992	5394.65		
4995.97	5394.49	5000.14	5394.42	5002.14	5394.41	5007.39	5394.39	5008.06	5394.38		
5008.29	5394.38	5008.77	5394.38	5016.44	5394.27	5020.15	5394.23	5024.59	5394.29		
5030.8	5394.44	5032.23	5394.47	5032.73	5394.5	5032.96	5394.51	5033.28	5394.52		
5034.26	5394.58	5040.31	5394.92	5043.1	5395.07	5047.87	5395.34	5048.29	5395.36		
5052.93	5395.62	5055.43	5395.79	5062.32	5396.25	5062.75	5396.27	5062.99	5396.3		

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5063.77	5396.37	5070.54	5397.07	5072.58	5397.22	5076.34	5397.78	5078.1	5398.06
5082.4	5398.65	5085.66	5399.1	5090.37	5399.73	5092.22	5399.99	5093.22	5399.99
5096.55	5399.99	5100.78	5399.94	5102.05	5399.96	5104.4	5399.92	5108.34	5399.8
5111.87	5399.78	5115.9	5399.6	5118.42	5399.52	5121.69	5399.4	5123.46	5399.27
5124.92	5399.15								

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
4890.5	.035	4967.55	.035
		5062.32	.035

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4967.55	5062.32	182	182	182		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Mid RS: 21845.5

INPUT

Description: Cross Section Boca Negra Arroyo 23.5 - K

Station Elevation Data		num=	99
Sta	Elev	Sta	Elev
4880.3	5396.01	4882.41	5395.91
4895.01	5395.39	4902.79	5395.1
4918.37	5394.63	4920.19	5394.57
4933.94	5393.78	4935.81	5393.65
4956.21	5391.92	4957.31	5391.82
4970.58	5390.51	4970.7	5390.5
4980.22	5390	4983.61	5389.79
4995.1	5388.98	4996.09	5388.94
5005.9	5388.95	5009.98	5389.15
5023.67	5390.21	5024.86	5390.31
5036.52	5391.17	5039.74	5391.37
5053.71	5392.45	5054.62	5392.52
5067.14	5393.41	5069.5	5393.57
5083.75	5394.59	5084.38	5394.63
5097.76	5395.07	5099.26	5395.12
5113.79	5395.32	5114.14	5395.33
5128.38	5395.79	5129.02	5395.82
5143.83	5396.5	5143.9	5396.5
5158.78	5397.01	5159	5397.01
5173.66	5396.98	5173.88	5396.98

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
4880.3	.035	4975.28	.035
		5023.67	.035

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4975.28	5023.67	510	510	510		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Mid RS: 21335.5

INPUT

Description: Cross Section Boca Negra Arroyo 23.25 - J

Station Elevation Data		num=	115
Sta	Elev	Sta	Elev
4904.44	5381.56	4907.59	5381.4
4923.18	5380.94	4923.91	5380.92
4938.5	5379.99	4938.63	5379.98
4953.34	5379.24	4954.35	5379.19
4969.93	5378.54	4975.42	5378.3
4990.13	5377.76	4994.26	5377.58
5008.2	5376.65	5012.21	5376.39
5026.93	5375.3	5032.27	5374.95
5047.86	5373.81	5049	5373.75
5063.72	5373.4	5063.96	5373.39
5078.44	5372.68	5079.03	5372.67
5094.62	5372.17	5100.51	5371.95
5110.2	5371.88	5115.23	5372.23
5129.94	5374.01	5133.66	5374.14
5147.6	5373.51	5152.02	5373.59
5166.74	5374.95	5172.54	5375.84
5188.13	5377.85	5188.81	5377.93
5203.36	5379.47	5203.53	5379.49
5218.24	5380.48	5219.3	5380.53
5234.89	5381.42	5240.32	5381.65
5255.04	5382.28	5259.12	5382.41
5273.06	5382.62	5277.11	5382.7
5291.83	5383.09	5297.23	5383.31

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
4904.44	.035	4982.78	.035
		5189.42	.035

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4982.78	5189.42	333.8	333.8	333.8		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Mid RS: 21001.7

INPUT

Description: Cross Section Boca Negra Arroyo 23.0 - I

Station Elevation Data		num= 112		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
4883.3	5373.94	4888.36	5373.56	4889.24	5373.49	4889.79	5373.45	4892.23	5373.25		
4897	5372.85	4902.44	5372.37	4904.76	5372.17	4908.46	5371.86	4912.53	5371.51		
4915.08	5371.29	4920.29	5370.91	4926.29	5370.51	4927.72	5370.41	4928.05	5370.39		
4928.57	5370.36	4935.81	5369.83	4940.37	5369.42	4943.57	5369.11	4948.67	5368.7		
4950.46	5368.57	4951.86	5368.5	4952.73	5368.44	4953.46	5368.38	4961.22	5367.74		
4963.76	5367.52	4964	5367.49	4964.29	5367.45	4974.07	5365.97	4975.27	5365.78		
4976.71	5365.63	4984.37	5364.81	4986.53	5364.59	4989.13	5364.59	4994.68	5364.59		
4997.8	5364.59	5001.56	5364.62	5004.99	5364.63	5009.06	5364.67	5013.98	5364.72		
5015.29	5364.73	5020.33	5364.79	5025.6	5365.33	5026.4	5365.41	5031.6	5365.95		
5034.62	5366.42	5035.9	5366.62	5038.83	5367.09	5042.86	5367.72	5046.21	5367.97		
5051.25	5368.29	5054.13	5368.49	5056.51	5368.45	5063.67	5368.25	5065.39	5368.22		
5066.82	5368.18	5076.1	5367.91	5076.66	5367.9	5077.13	5367.89	5082.12	5367.84		
5087.43	5367.8	5087.93	5367.79	5088.52	5367.78	5097.74	5367.62	5099.19	5367.59		
5100.95	5367.51	5108.04	5367.2	5110.46	5367.09	5113.37	5367.01	5118.35	5366.88		
5121.72	5366.79	5125.79	5366.77	5128.65	5366.75	5132.99	5366.73	5138.22	5366.78		
5138.96	5366.78	5144.26	5366.84	5149.26	5367.03	5150.64	5367.1	5155.52	5367.29		
5159.57	5367.47	5163.06	5367.68	5166.79	5367.85	5169.88	5367.94	5175.49	5368.07		
5178.05	5368.15	5180.18	5368.24	5187.91	5368.56	5189.32	5368.62	5190.49	5368.67		
5200.33	5369.07	5200.58	5369.08	5200.79	5369.09	5203.03	5369.18	5211.1	5369.5		
5211.85	5369.53	5212.76	5369.59	5221.4	5370.1	5223.12	5370.22	5225.18	5370.32		
5231.71	5370.6	5234.38	5370.72	5237.6	5370.85	5242.02	5371.03	5245.65	5371.17		
5250.03	5371.38	5252.32	5371.49	5256.91	5371.7	5262.45	5371.91	5262.63	5371.91		
5268.18	5372.11	5269.85	5372.08								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4883.3	.035	4964.29	.035	5038.83	.035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 4964.29 5038.83 0 0 0 .1 .3
 Ineffective Flow num= 1
 Sta L Sta R Elev Permanent
 5054.13 5269.85 5368.79 F

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Split Flow RS: 22027.5

INPUT

Description: Cross Section Boca Negra Split Flow 23.75 - E

Station Elevation Data		num= 45		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
4907.94	5399.95	4931.1	5399.15	4935.51	5398.79	4937.19	5398.64	4937.69	5398.61		
4938.63	5398.55	4944.75	5398.16	4947.52	5397.96	4952.31	5397.67	4952.65	5397.66		
4957.34	5397.39	4959.87	5397.26	4966.68	5396.9	4967.16	5396.88	4967.43	5396.87		
4968.3	5396.83	4974.21	5396.53	4974.98	5396.49	4976.99	5396.36	4980.7	5396.24		
4982.54	5396.18	4986.81	5396.03	4990.1	5396.22	4994.73	5396.55	4996.63	5396.68		
4997.66	5396.79	5001.08	5397.19	5005.22	5397.69	5006.46	5397.82	5008.76	5398.06		
5012.78	5398.54	5016.28	5398.85	5020.34	5399.18	5022.78	5399.39	5026.11	5399.66		
5027.9	5399.81	5033.87	5400.46	5035.45	5400.63	5035.93	5400.68	5036.81	5400.77		
5043.01	5401.44	5045.75	5401.72	5050.57	5402.08	5050.84	5402.1	5054.58	5402.38		

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val
4907.94	.035	4944.75	.035	5008.76	.035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 4944.75 5008.76 146 146 146 .1 .3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Split Flow RS: 21845.5

INPUT

Description: Cross Section Boca Negra Split Flow 23.5 - D

Station Elevation Data		num= 86		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
4801.3	5396.79	4801.69	5396.78	4804.48	5396.7	4809.13	5396.6	4810.21	5396.57		
4814.49	5396.46	4816.57	5396.41	4822.58	5396.29	4824.01	5396.26	4824.5	5396.25		
4825.52	5396.22	4831.45	5396.09	4834.52	5396	4838.89	5395.87	4840.83	5395.83		
4844.53	5395.73	4846.33	5395.72	4851.53	5395.73	4853.77	5395.73	4854.55	5395.73		
4856.14	5395.72	4861.21	5395.67	4864.56	5395.66	4868.65	5395.8	4871.45	5395.89		
4874.57	5395.99	4876.09	5396.13	4880.48	5396.54	4883.53	5396.81	4884.59	5396.89		
4886.76	5397.06	4890.97	5397.39	4894.6	5397.7	4898.41	5397.73	4902.07	5397.81		
4904.61	5397.86	4905.85	5397.77	4909.43	5397.55	4913.29	5397.28	4914.63	5397.2		
4917.38	5396.92	4920.73	5396.56	4924.64	5396.18	4928.17	5395.78	4932.69	5395.39		

BNA-EffectFloodway.rep

4934.66	5395.19	4935.61	5395.11	4938.37	5394.97	4943.05	5394.73	4944.67	5394.7
4948	5394.54	4950.49	5394.41	4954.68	5394.23	4957.93	5394.07	4963.31	5393.73
4964.7	5393.65	4965.37	5393.64	4967.32	5393.56	4971.56	5393.37	4972.81	5393.31
4974.71	5393.19	4978.62	5393.33	4980.25	5393.4	4984.72	5393.51	4987.69	5394.03
4993.93	5394.99	4994.74	5395.12	4995.13	5395.2	4996.27	5395.43	5002.57	5396.65
5004.75	5397.05	5009.24	5397.76	5010.01	5397.88	5014.77	5398.64	5017.45	5398.91
5024.55	5399.67	5024.78	5399.7	5024.89	5399.71	5025.21	5399.74	5032.33	5400.33
5034.79	5400.56	5039.77	5400.96	5039.86	5400.97	5044.81	5401.35	5047.21	5401.47
5049.08	5401.57								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4801.3	.035	4917.38	.035	5004.75	.035

Bank	Sta: Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4917.38	5004.75		628	628		.1	.3
Left Levee	Station=	4904.61		Elevation=	5397.86			

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Split Flow RS: 21335.5

INPUT

Description: Cross Section Boca Negra Split Flow 23.25 - C

Station Elevation Data		num=		155							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4904.44	5383.49	4906.76	5383.54	4909.61	5383.55	4914.01	5383.45	4914.61	5383.44		
4919.15	5383.32	4922.46	5383.19	4926.17	5383	4928.69	5382.89	4930.31	5382.82		
4937.86	5382.5	4938.16	5382.49	4938.23	5382.49	4938.33	5382.49	4946.01	5382.47		
4947.77	5382.47	4950.48	5382.45	4953.86	5382.44	4957.31	5382.4	4961.72	5382.29		
4962.64	5382.25	4966.85	5382.13	4969.57	5382.05	4974.8	5381.82	4976.39	5381.77		
4977.42	5381.75	4982.2	5381.63	4985.27	5381.56	4985.93	5381.55	4986.95	5381.53		
4993.12	5381.4	4995.47	5381.37	4999.11	5381.38	5000.97	5381.36	5005.01	5381.39		
5008.82	5381.43	5011.26	5381.47	5014.55	5381.52	5016.67	5381.53	5023.42	5381.59		
5024.09	5381.59	5024.52	5381.59	5026.53	5381.59	5032.37	5381.58	5033.63	5381.59		
5035.58	5381.58	5037.71	5381.58	5040.22	5381.57	5043.17	5381.55	5047.73	5381.61		
5048.07	5381.62	5052.71	5381.67	5055.93	5381.74	5059.89	5381.85	5062.25	5381.91		
5063.78	5381.95	5070.86	5382.16	5071.63	5382.18	5071.79	5382.18	5072.05	5382.18		
5079.48	5382.15	5081.33	5382.17	5084.2	5382.19	5087.33	5382.19	5090.87	5382.23		
5095.18	5382.38	5096.36	5382.43	5100.41	5382.59	5103.03	5382.74	5108.52	5383.07		
5109.95	5383.15	5110.88	5383.2	5115.19	5383.35	5118.73	5383.47	5119.49	5383.48		
5120.67	5383.49	5126.58	5383.54	5129.03	5383.56	5132.83	5383.55	5134.43	5383.53		
5138.57	5383.54	5142.28	5383.49	5144.99	5383.44	5148.11	5383.39	5150.14	5383.43		
5157.14	5383.49	5157.65	5383.5	5157.99	5383.51	5159.53	5383.57	5165.84	5383.8		
5167.2	5383.84	5169.3	5383.9	5173.69	5384.01	5176.74	5384.11	5181.45	5384.16		
5181.54	5384.17	5186.28	5384.21	5189.39	5384.2	5193.61	5384.22	5195.82	5384.23		
5197.24	5384.23	5203.86	5384.27	5205.09	5384.28	5205.36	5384.29	5205.77	5384.29		
5212.94	5384.35	5214.9	5384.36	5217.92	5384.36	5220.79	5384.35	5224.44	5384.34		
5228.64	5384.38	5230.08	5384.39	5233.98	5384.42	5236.49	5384.46	5242.24	5384.57		
5243.52	5384.59	5244.35	5384.59	5248.19	5384.59	5252.2	5384.58	5253.06	5384.59		
5254.39	5384.6	5260.05	5384.6	5262.6	5384.62	5266.55	5384.63	5267.9	5384.65		
5272.14	5384.64	5275.75	5384.59	5278.71	5384.55	5281.68	5384.51	5283.6	5384.5		
5290.86	5384.49	5291.22	5384.49	5291.45	5384.49	5292.52	5384.52	5299.3	5384.65		
5300.76	5384.69	5303.02	5384.74	5307.15	5384.86	5310.3	5384.91	5315	5384.94		
5315.18	5384.94	5319.84	5384.97	5322.85	5385	5327.33	5385.08	5329.38	5385.11		
5330.71	5385.12	5336.86	5385.17	5338.56	5385.18	5338.92	5385.18	5339.49	5385.18		
5346.41	5385.17	5348.46	5385.16	5351.64	5385.21	5354.26	5385.23	5357.21	5385.28		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4904.44	.035	4919.15	.035	5115.19	.035

Bank	Sta: Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4919.15	5115.19		683	683		.1	.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Split Flow RS: 21001.7

INPUT

Description: Cross Section Boca Negra Split Flow 23 - B

Station Elevation Data		num=		68							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4840	5372.08	4843.08	5372.03	4845.02	5371.99	4849.6	5371.91	4853.39	5371.8		
4857.45	5371.67	4860.86	5371.58	4863.69	5371.54	4869.87	5371.45	4872.13	5371.42		
4874	5371.31	4882.29	5370.74	4883.39	5370.67	4884.3	5370.58	4894.09	5369.55		
4894.61	5369.5	4894.66	5369.49	4894.72	5369.49	4904.92	5369.06	4905.92	5369.02		
4907.14	5369.05	4915.22	5369.29	4917.19	5369.35	4919.56	5369.46	4925.53	5369.74		
4928.46	5369.88	4931.99	5370.01	4935.83	5370.12	4939.72	5370.28	4944.41	5370.44		
4946.14	5370.51	4950.99	5370.68	4956.44	5370.67	4956.84	5370.67	4962.25	5370.66		
4966.75	5370.45	4969.26	5370.35	4973.52	5370.15	4977.06	5369.98	4981.68	5369.74		
4984.79	5369.59	4987.36	5369.5	4994.11	5369.22	4996.05	5369.14	4997.67	5369.17		
4999.8	5369.19	5006.53	5369.27	5007.32	5369.28	5007.97	5369.31	5014.99	5369.63		
5018.28	5369.78	5018.58	5369.8	5018.95	5369.82	5028.58	5370.34	5029.85	5370.41		
5031.38	5370.53	5038.08	5371.08	5038.64	5371.11	5042.83	5371.35	5045.77	5371.51		
5047.77	5371.61	5052.9	5371.91	5058.3	5372.19	5059.76	5372.26	5060.03	5372.28		
5060.44	5372.3	5067.16	5372.58	5068.85	5372.65						

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Manning's n Values num= 3
 Sta n Val Sta n Val
 4840 .035 4956.44 .035 5031.38 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 4956.44 5031.38 130 130 130 .1 .3
 Left Levee Station= 4956.44 Elevation= 5370.67

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Split Flow RS: 20774.5

INPUT

Description: Boca Negra Split Flow 22.75 - A

Station	Elevation	Data	num=	101	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4892.85	5370.74	4894.39	5370.63	4898.88	5370.33	4904.42	5369.99	4906.02	5369.91			
4908.22	5369.8	4913.15	5369.62	4916.73	5369.49	4920.29	5369.39	4925.19	5369.25			
4927.43	5369.15	4929.05	5369.09	4934.56	5368.89	4939.22	5368.75	4941.36	5368.68			
4941.7	5368.67	4942.16	5368.66	4948.83	5368.37	4953.67	5368.22	4955.97	5368.15			
4959.14	5368.06	4963.1	5367.8	4965.98	5367.61	4970.24	5367.29	4976.11	5366.94			
4977.37	5366.87	4978.29	5366.81	4984.06	5366.42	4984.51	5366.39	4990.6	5365.98			
4991.64	5365.91	4993.08	5365.83	4998.12	5365.72	4998.78	5365.71	5002.91	5365.65			
5005.92	5365.62	5010.05	5365.63	5013.05	5365.72	5015.23	5365.83	5020.19	5366.03			
5027.03	5366.58	5027.32	5366.6	5027.54	5366.62	5028.89	5366.73	5034.46	5367.17			
5039.85	5367.75	5041.59	5367.86	5044	5368.02	5048.73	5368.15	5052.16	5368.27			
5055.86	5368.4	5060.97	5368.62	5063	5368.67	5064.47	5368.71	5070.13	5368.89			
5073.72	5369.03	5076.78	5369.14	5077.27	5369.16	5077.94	5369.17	5084.41	5369.27			
5089.09	5369.38	5091.54	5369.39	5094.91	5369.4	5098.68	5369.39	5101.41	5369.38			
5105.81	5369.4	5111.89	5369.52	5112.95	5369.53	5113.72	5369.52	5118.55	5369.33			
5120.08	5369.27	5126.03	5369.04	5127.22	5369.01	5128.86	5369	5134.35	5368.95			
5136.65	5368.96	5140.78	5369.15	5142.74	5369.23	5145.14	5369.3	5151.03	5369.46			
5154.02	5369.55	5157.66	5369.62	5161.28	5369.69	5165.29	5369.77	5170.19	5369.93			
5171.52	5369.97	5176.56	5370.14	5181.77	5370.2	5182.71	5370.21	5187.83	5370.27			
5192.02	5370.26	5195.23	5370.24	5199.1	5370.23	5202.27	5370.28	5207.75	5370.38			
5210.37	5370.43	5212.51	5370.47	5220.27	5370.63	5221.64	5370.66	5222.76	5370.65			
5232.77	5370.69											

Manning's n Values num= 5
 Sta n Val Sta n Val Sta n Val Sta n Val
 4892.85 .035 4904.42 .035 4925.19 .035 5084.41 .035 5170.19 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 4925.19 5084.41 0 0 0 .1 .3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 20573.7

INPUT

Description: Cross Section Boca Negra Arroyo 22.75 - H

Station	Elevation	Data	num=	112	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4882.6	5366.22	4883.94	5366.17	4888.67	5365.9	4896.32	5365.5	4896.46	5365.49			
4896.54	5365.49	4896.9	5365.48	4904.24	5365.32	4909.14	5365.28	4912.03	5365.19			
4916.71	5365.15	4919.82	5365.08	4921.74	5365.04	4927.6	5364.7	4929.87	5364.58			
4934.33	5364.35	4935.39	5364.27	4937.09	5364.17	4943.17	5363.84	4946.93	5363.73			
4950.96	5363.5	4957.48	5363.17	4958.75	5363.09	4959.53	5363.04	4962.85	5362.75			
4966.53	5362.43	4972.13	5361.95	4974.32	5361.82	4977.87	5361.59	4981.89	5361.27			
4982.32	5361.22	4984.47	5361.02	4985.75	5360.93	4990.78	5360.6	4994.9	5360.33			
4995.95	5360.27	4997.71	5360.23	5004.05	5360.05	5007.42	5359.99	5013.1	5359.99			
5013.2	5359.99	5014.7	5359.99	5018.9	5359.99	5022.35	5360.05	5028.49	5360.16			
5030.38	5360.19	5031.5	5360.21	5035.9	5360.33	5040.65	5360.47	5041.85	5360.5			
5043.88	5360.54	5049.79	5360.66	5053.33	5360.73	5058.94	5360.81	5059.27	5360.82			
5064.8	5360.92	5068.09	5360.92	5074.66	5360.95	5076.28	5360.96	5077.24	5360.95			
5081.02	5360.91	5086.39	5360.84	5087.75	5360.82	5090.05	5360.78	5095.54	5360.7			
5099.23	5360.63	5104.69	5360.74	5105.44	5360.74	5110.71	5360.82	5113.84	5360.95			
5120.83	5361.24	5122.18	5361.3	5122.99	5361.31	5126.15	5361.43	5132.13	5361.63			
5133.66	5361.69	5136.22	5361.69	5141.28	5361.66	5145.13	5361.67	5147.97	5361.65			
5149.91	5361.66	5155.18	5361.72	5157.14	5361.71	5159.23	5361.72	5164.36	5361.74			
5169.16	5361.79	5171.59	5361.79	5174.19	5361.83	5178.81	5361.89	5183.14	5361.95			
5186.04	5362	5189.15	5362.08	5193.27	5362.22	5197.11	5362.35	5200.49	5362.51			
5204.1	5362.69	5207.72	5362.89	5211.09	5363.08	5214.94	5363.26	5219.06	5363.46			
5222.17	5363.57	5225.07	5363.67	5229.39	5363.74	5234.02	5363.85	5236.62	5363.86			
5239.04	5363.89	5243.84	5363.94	5248.98	5363.96	5251.07	5363.95	5253.02	5363.96			
5258.29	5363.95	5263.23	5363.96									

Manning's n Values num= 3
 Sta n Val Sta n Val
 4882.6 .035 4990.78 .035 5049.79 .035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 4990.78 5049.79 183.1 183.1 183.1 .1 .3

CROSS SECTION

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RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 20390.6

INPUT

Description: Cross Section Boca Negra Arroyo 22.5 - G

Station		Elevation Data		num= 81		Sta		Elev		Sta		Elev		Sta		Elev	
4871.5	5362.11	4873.57	5362.12	4880.55	5362.19	4880.81	5362.18	4881.09	5362.18								
4888.06	5361.87	4894.79	5361.8	4895.3	5361.78	4895.84	5361.79	4902.55	5361.49								
4909.03	5361.25	4909.79	5361.2	4910.59	5361.16	4917.04	5360.71	4923.27	5360.29								
4924.29	5360.19	4925.33	5360.12	4931.53	5359.56	4937.52	5359.19	4938.78	5359.12								
4940.08	5359.05	4946.02	5358.89	4950.87	5358.82	4952.52	5358.82	4954.15	5358.79								
4959.26	5358.75	4960.57	5358.74	4966.36	5358.69	4968.61	5358.72	4972.96	5358.8								
4976.65	5358.87	4978.56	5358.91	4984.59	5358.99	4984.69	5358.99	4990.77	5359.06								
4992.74	5359.07	4996.53	5359.04	5000.78	5359.01	5002.98	5358.99	5004.29	5358.97								
5008.82	5358.92	5009.91	5358.9	5015.19	5358.81	5016.86	5358.78	5020.1	5358.71								
5024.91	5358.65	5027.39	5358.59	5032.95	5358.43	5035.23	5358.35	5039.6	5358.21								
5040.99	5358.19	5043.67	5358.19	5049.03	5358.25	5051.81	5358.29	5057.07	5358.51								
5060.56	5358.68	5064.02	5358.83	5065.12	5358.88	5067.24	5358.97	5073.16	5359.24								
5076.23	5359.42	5076.96	5359.47	5080.72	5359.79	5084.22	5360.08	5087.86	5360.33								
5092.83	5360.53	5095	5360.59	5096.58	5360.59	5102.13	5360.43	5106.79	5360.33								
5108.94	5360.28	5109.27	5360.29	5109.73	5360.3	5116.41	5360.63	5121.29	5360.97								
5123.54	5361.1	5126.62	5361.28	5130.68	5361.38	5133.65	5361.43	5137.82	5361.44								
5143.07	5361.49																

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4871.5	.035	5020.1	.035	5060.56	.035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 5020.1 5060.56 620 620 620 .1 .3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 19770.6

INPUT

Description: Cross Section Boca Negra Arroyo 22.0 - F

Station		Elevation Data		num= 86		Sta		Elev		Sta		Elev		Sta		Elev	
4836.3	5355.13	4839.83	5355.07	4841.82	5355.03	4846.53	5354.94	4852.04	5354.84								
4852.26	5354.84	4857.78	5354.74	4862.7	5354.65	4864.24	5354.63	4869.04	5354.55								
4873.14	5354.37	4876.45	5354.23	4880.3	5354.06	4883.59	5353.91	4888.66	5353.64								
4891.55	5353.51	4894.03	5353.41	4900.86	5353.1	4902.81	5353.02	4904.47	5352.92								
4913.07	5352.46	4914.06	5352.4	4914.91	5352.35	4925.28	5351.69	4925.32	5351.69								
4925.36	5351.69	4925.82	5351.68	4935.8	5351.42	4936.58	5351.4	4937.49	5351.39								
4946.24	5351.4	4947.83	5351.39	4949.69	5351.4	4956.68	5351.4	4959.09	5351.41								
4961.9	5351.44	4967.13	5351.49	4970.34	5351.52	4974.11	5351.47	4977.57	5351.44								
4981.6	5351.39	4986.31	5351.12	4988.01	5351.01	4992.86	5350.74	4998.46	5350.52								
4998.52	5350.51	5000.82	5350.42	5002.71	5350.46	5005.28	5350.49	5007.48	5350.54								
5012.75	5350.7	5014.55	5350.74	5016.08	5350.76	5022.79	5350.89	5023.82	5350.91								
5024.69	5350.94	5032.84	5351.28	5033.08	5351.29	5033.3	5351.3	5036.05	5351.39								
5041.9	5351.56	5042.35	5351.58	5042.88	5351.6	5050.51	5351.92	5051.62	5351.98								
5052.92	5352.02	5059.12	5352.15	5060.89	5352.21	5062.97	5352.25	5067.72	5352.35								
5070.16	5352.39	5073.01	5352.45	5076.33	5352.52	5079.43	5352.59	5083.05	5352.75								
5084.94	5352.81	5088.7	5352.98	5093.1	5353.36	5093.54	5353.4	5097.97	5353.79								
5102.15	5354.21	5103.14	5354.31	5107.24	5354.73	5110.76	5354.98	5113.18	5355.12								
5113.51	5355.14																

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4836.3	.035	4961.9	.035	5032.84	.035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 4961.9 5032.84 1004.3 1004.3 1004.3 .1 .3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 18766.3

INPUT

Description: Cross Section Boca Negra Arroyo 21.0 - E

Station		Elevation Data		num= 170		Sta		Elev		Sta		Elev		Sta		Elev	
4737	5344.11	4737.65	5344.1	4743	5344.03	4746.73	5343.99	4747.73	5344								
4749.46	5344.04	4755.8	5344.21	4759.23	5344.29	4764.87	5344.31	4765.17	5344.31								
4770.73	5344.3	4773.94	5343.98	4780.88	5343.11	4782.23	5342.96	4783.01	5342.8								
4785.92	5342.15	4792.08	5340.76	4793.73	5340.37	4796.6	5339.66	4801.15	5338.5								
4805.24	5337.49	4810.22	5336.54	4812.31	5336.21	4816.74	5335.43	4819.3	5335.29								
4828.02	5335.1	4828.24	5335.09	4828.37	5335.09	4828.84	5335.09	4837.44	5335.22								
4839.74	5335.27	4843.74	5335.43	4846.51	5335.51	4851.24	5335.75	4855.58	5335.96								
4859.45	5336.16	4862.75	5336.32	4864.65	5336.32	4871.76	5336.25	4873.72	5336.23								
4874.25	5336.22	4875.16	5336.17	4882.79	5335.8	4885.75	5335.62	4890.88	5335.42								
4891.86	5335.39	4897.25	5335.17	4900.94	5335.1	4906.59	5334.93	4908.76	5334.88								
4910.01	5334.88	4914.67	5334.94	4919.08	5334.99	4920.26	5335	4922.3	5335.18								
4928.15	5335.65	4931.76	5335.97	4937.22	5336.35	4938.01	5336.39	4943.26	5336.72								

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4946.29	5337.12	4953.73	5338.07	4954.76	5338.2	4955.36	5338.28	4957.59	5338.63
4964.43	5339.71	4966.27	5339.95	4969.44	5339.92	4973.5	5339.9	4977.77	5339.85
4982.58	5339.63	4982.85	5339.61	4984.07	5339.57	4989.5	5339.48	4992.4	5339.45
4999.16	5339.45	5000.74	5339.43	5001.41	5339.43	5002.87	5339.43	5003.11	5339.42
5009.07	5339.42	5013.32	5339.39	5017.4	5339.62	5019.73	5339.7	5022.75	5339.8
5024.87	5339.91	5028.19	5340.12	5032	5340.4	5034.44	5340.56	5039.14	5340.85
5045.5	5341.33	5046.13	5341.38	5046.27	5341.38	5046.49	5341.4	5053.4	5341.55
5057.82	5341.59	5060.54	5341.57	5064.78	5341.47	5067.67	5341.15	5069.52	5340.87
5074.8	5340.14	5077.89	5339.55	5081.21	5338.97	5081.94	5338.82	5083.08	5338.56
5089.07	5336.78	5092.9	5335.74	5096.2	5334.79	5101.38	5333.53	5103.34	5333.2
5104.59	5333	5110.28	5332	5110.47	5331.97	5116.28	5331.23	5117.6	5331.12
5119.67	5331.02	5124.74	5331.02	5127.97	5331.04	5131.87	5331.11	5137.97	5331.16
5139	5331.17	5139.67	5331.18	5142.67	5331.23	5146.14	5331.29	5151.36	5331.34
5153.27	5331.36	5156.27	5331.42	5160.4	5331.5	5163.05	5331.55	5167.54	5331.66
5174.56	5331.79	5174.67	5331.79	5174.74	5331.79	5175.06	5331.8	5181.81	5331.95
5186.43	5332.05	5188.94	5332.14	5192.86	5332.31	5196.07	5332.47	5198.13	5332.6
5203.21	5333.22	5207.45	5333.87	5209.82	5334.22	5210.34	5334.32	5211.16	5334.52
5217.47	5336.08	5221.51	5337.14	5224.61	5337.96	5229.45	5339.22	5231.74	5339.77
5233.2	5340.03	5238.87	5340.76	5239.84	5340.82	5244.89	5341.22	5246.01	5341.28
5247.75	5341.36	5253.14	5341.74	5256.59	5341.94	5260.27	5342.13	5266.05	5342.39
5267.41	5342.48	5268.28	5342.55	5272.23	5342.81	5274.54	5342.97	5279.97	5343.29
5281.67	5343.39	5284.34	5343.46	5288.81	5343.52	5291.66	5343.51	5293.03	5343.48

Manning's n Values num= 5

Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
4737	.035	4792.08	.035	4846.51	.035	4919.08	.035	5238.87	.035

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

4792.08	5238.87	750.2	750.2	750.2	.1	.3
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CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 18016.1

INPUT

Description: Cross Section Boca Negra Arroyo 20.0 - D

Station Elevation Data		num= 58									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4907.3	5329.26	4907.49	5329.26	4915.3	5328.97	4917.24	5328.9	4917.56	5328.89		
4917.99	5328.87	4927	5328.56	4928.89	5328.51	4931.5	5328.39	4936.76	5328.12		
4940.22	5327.96	4945.01	5327.59	4946.52	5327.48	4951.55	5327.09	4953.11	5326.95		
4956.3	5326.63	4961.8	5326.16	4963.71	5325.99	4964.28	5325.95	4965.33	5325.87		
4972.26	5325.35	4976	5325.09	4980.23	5324.97	4988.06	5324.7	4988.21	5324.69		
4988.3	5324.69	4988.58	5324.7	4996.19	5324.95	5000.59	5325.23	5004.17	5325.63		
5007.38	5326.05	5010.78	5326.5	5012.14	5326.67	5012.88	5326.77	5013.56	5326.85		
5019.95	5327.58	5021.99	5327.83	5025.3	5328.14	5027.71	5328.35	5031.59	5328.74		
5035.48	5329.05	5037.89	5329.27	5041.2	5329.55	5043.24	5329.75	5050.48	5330.43		
5050.8	5330.46	5051.01	5330.48	5051.86	5330.56	5058.77	5331.06	5060.41	5331.17		
5063.06	5331.3	5066.54	5331.44	5070.01	5331.61	5074.3	5331.76	5075.65	5331.8		
5079.62	5331.93	5082.07	5332.03	5083.74	5332.08						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4907.3	.035	4936.76	.035	5025.3	.035

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

4936.76	5025.3	886.3	886.3	886.3	.1	.3
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CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 17129.8

INPUT

Description: Cross Section Boca Negra Arroyo 19.5 - C

Station Elevation Data		num= 69									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4898.5	5317.18	4898.64	5317.17	4905.28	5316.84	4908.38	5316.69	4913.17	5316.43		
4914.67	5316.35	4919.79	5316.08	4924.06	5315.84	4927.7	5315.67	4931.19	5315.49		
4933.45	5315.34	4942.22	5314.72	4942.6	5314.69	4942.84	5314.67	4943.98	5314.59		
4952.23	5314.02	4954.01	5313.93	4956.75	5313.88	4961.62	5313.74	4965.41	5313.69		
4971.01	5313.55	4971.27	5313.54	4976.82	5313.4	4980.4	5313.21	4982.77	5313.06		
4987.32	5312.9	4988.36	5312.86	4989.19	5312.81	4995.84	5312.64	4996.39	5312.63		
5002.14	5312.48	5002.6	5312.47	5003.31	5312.44	5004.21	5312.44	5010.79	5312.3		
5016.02	5312.3	5018.26	5312.31	5021.09	5312.54	5025.58	5312.9	5025.73	5312.91		
5029.57	5313.31	5033.1	5313.61	5037.08	5313.95	5040.47	5314.11	5043.47	5314.21		
5047.83	5314.53	5052.75	5314.99	5055.2	5315.23	5057.37	5315.44	5062.56	5315.92		
5067.22	5316.32	5068.12	5316.4	5069.84	5316.52	5072.49	5316.66	5076.97	5316.86		
5079.9	5316.99	5084.11	5317.25	5090.57	5317.56	5091.24	5317.57	5091.67	5317.58		
5093.74	5317.64	5098.37	5317.77	5103.45	5317.92	5105.5	5317.92	5108.65	5317.98		
5112.63	5318.03	5115.23	5318.09	5119.77	5318.07	5125.6	5318.09				

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val
4898.5	.035	4942.6	.035	4980.4	.035

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

4980.4	5029.57	129.8	129.8	129.8	.1	.3
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CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 17000.0

INPUT

Description: Cross Section Boca Negra Arroyo 19.0 - B

Station	Elevation	Data	num=	27
Sta	Elev	Sta	Elev	Sta
4971.2	5279.03	4972.63	5278.59	4972.96
4980.13	5275.45	4984.31	5273.4	4987.29
4995.48	5269.36	4998.4	5269.55	4998.52
5005.24	5270.96	5007.26	5272.01	5012.91
5022.93	5279.65	5023.78	5280.06	5024.5
5033.12	5284.83	5033.8	5285.23	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4971.2	.05	4980.13	.05	5014.51	.05

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4980.13	5014.51	543	543	543	.1		.3

CROSS SECTION

RIVER: BocaNegraArroyo
 REACH: Reach - 1 Lower RS: 16457.0

INPUT

Description: Cross Section Boca Negra Arroyo 18.0 -A

Station	Elevation	Data	num=	53
Sta	Elev	Sta	Elev	Sta
4917.4	5207.88	4918.82	5207.27	4921.23
4932.7	5203.91	4933.1	5203.89	4933.77
4947.38	5203.09	4952.7	5202.32	4954.52
4961.67	5201.55	4967.1	5201.37	4968.81
4978.56	5202.72	4983.09	5202.43	4989.2
4990.56	5201.53	4997.37	5200.11	4998.74
5005.5	5199.46	5006.02	5199.48	5010.38
5019.66	5200.08	5022.55	5200.43	5026.39
5036.58	5202.12	5037.48	5202.21	5038.22
5047.47	5202.87	5049.59	5203.17	5054.36
5063.19	5205.35	5065.96	5205.91	5066.87

Manning's n Values num= 4

Sta	n Val	Sta	n Val	Sta	n Val
4917.4	.05	4933.1	.035	4944.16	.035

Bank	Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
	4944.16	5049.59	0	0	0	.1		.3

SUMMARY OF MANNING'S N VALUES

River: BocaNegraArroyo

Reach	River Sta.	n1	n2	n3	n4	n5
Reach - 1 Upper	25374.6	.035	.035	.035		
Reach - 1 Upper	24989.3	.035	.035	.035		
Reach - 1 Upper	24106.4	.035	.035	.035		
Reach - 1 Upper	23000.0	.035	.035	.035		
Reach - 1 Upper	22241.1	.035	.035	.035		
Reach - 1 Mid	22027.5	.035	.035	.035		
Reach - 1 Mid	21845.5	.035	.035	.035		
Reach - 1 Mid	21335.5	.035	.035	.035		
Reach - 1 Mid	21001.7	.035	.035	.035		
Split Flow	22027.5	.035	.035	.035	.035	
Split Flow	21845.5	.035	.035	.035		
Split Flow	21335.5	.035	.035	.035		
Split Flow	21001.7	.035	.035	.035		
Split Flow	20774.5	.035	.035	.035	.035	.035
Reach - 1 Lower	20573.7	.035	.035	.035		
Reach - 1 Lower	20390.6	.035	.035	.035		
Reach - 1 Lower	19770.6	.035	.035	.035		
Reach - 1 Lower	18766.3	.035	.035	.035	.035	.035
Reach - 1 Lower	18016.1	.035	.035	.035		
Reach - 1 Lower	17129.8	.035	.035	.035	.035	
Reach - 1 Lower	17000.0	.05	.05	.05		
Reach - 1 Lower	16457.0	.05	.035	.035	.035	

SUMMARY OF REACH LENGTHS

River: BocaNegraArroyo

BNA-EffectFloodway.rep

Reach	River Sta.	Left	Channel	Right
Reach - 1 Upper	25374.6	385.3	385.3	385.3
Reach - 1 Upper	24989.3	882.9	882.9	882.9
Reach - 1 Upper	24106.4	1106.4	1106.4	1106.4
Reach - 1 Upper	23000.0	758.9	758.9	758.9
Reach - 1 Upper	22241.1	0	0	0
Reach - 1 Mid	22027.5	182	182	182
Reach - 1 Mid	21845.5	510	510	510
Reach - 1 Mid	21335.5	333.8	333.8	333.8
Reach - 1 Mid	21001.7	0	0	0
Split Flow	22027.5	146	146	146
Split Flow	21845.5	628	628	628
Split Flow	21335.5	683	683	683
Split Flow	21001.7	130	130	130
Split Flow	20774.5	0	0	0
Reach - 1 Lower	20573.7	183.1	183.1	183.1
Reach - 1 Lower	20390.6	620	620	620
Reach - 1 Lower	19770.6	1004.3	1004.3	1004.3
Reach - 1 Lower	18766.3	750.2	750.2	750.2
Reach - 1 Lower	18016.1	886.3	886.3	886.3
Reach - 1 Lower	17129.8	129.8	129.8	129.8
Reach - 1 Lower	17000.0	543	543	543
Reach - 1 Lower	16457.0	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: BocaNegraArroyo

Reach	River Sta.	Contr.	Expan.
Reach - 1 Upper	25374.6	.1	.3
Reach - 1 Upper	24989.3	.1	.3
Reach - 1 Upper	24106.4	.1	.3
Reach - 1 Upper	23000.0	.1	.3
Reach - 1 Upper	22241.1	.1	.3
Reach - 1 Mid	22027.5	.1	.3
Reach - 1 Mid	21845.5	.1	.3
Reach - 1 Mid	21335.5	.1	.3
Reach - 1 Mid	21001.7	.1	.3
Split Flow	22027.5	.1	.3
Split Flow	21845.5	.1	.3
Split Flow	21335.5	.1	.3
Split Flow	21001.7	.1	.3
Split Flow	20774.5	.1	.3
Reach - 1 Lower	20573.7	.1	.3
Reach - 1 Lower	20390.6	.1	.3
Reach - 1 Lower	19770.6	.1	.3
Reach - 1 Lower	18766.3	.1	.3
Reach - 1 Lower	18016.1	.1	.3
Reach - 1 Lower	17129.8	.1	.3
Reach - 1 Lower	17000.0	.1	.3
Reach - 1 Lower	16457.0	.1	.3