

APPENDIX 2 (CD)

HYDRAULICS – HEC-RAS Files

Effective Model

Duplicate Effective Model

Current Upstream Model

Current Downstream Model

Effective Model

Summary

Profile

Cross Sections

Hydraulics Model – HEC-RAS Analysis (CD)

FEMA Effective Files

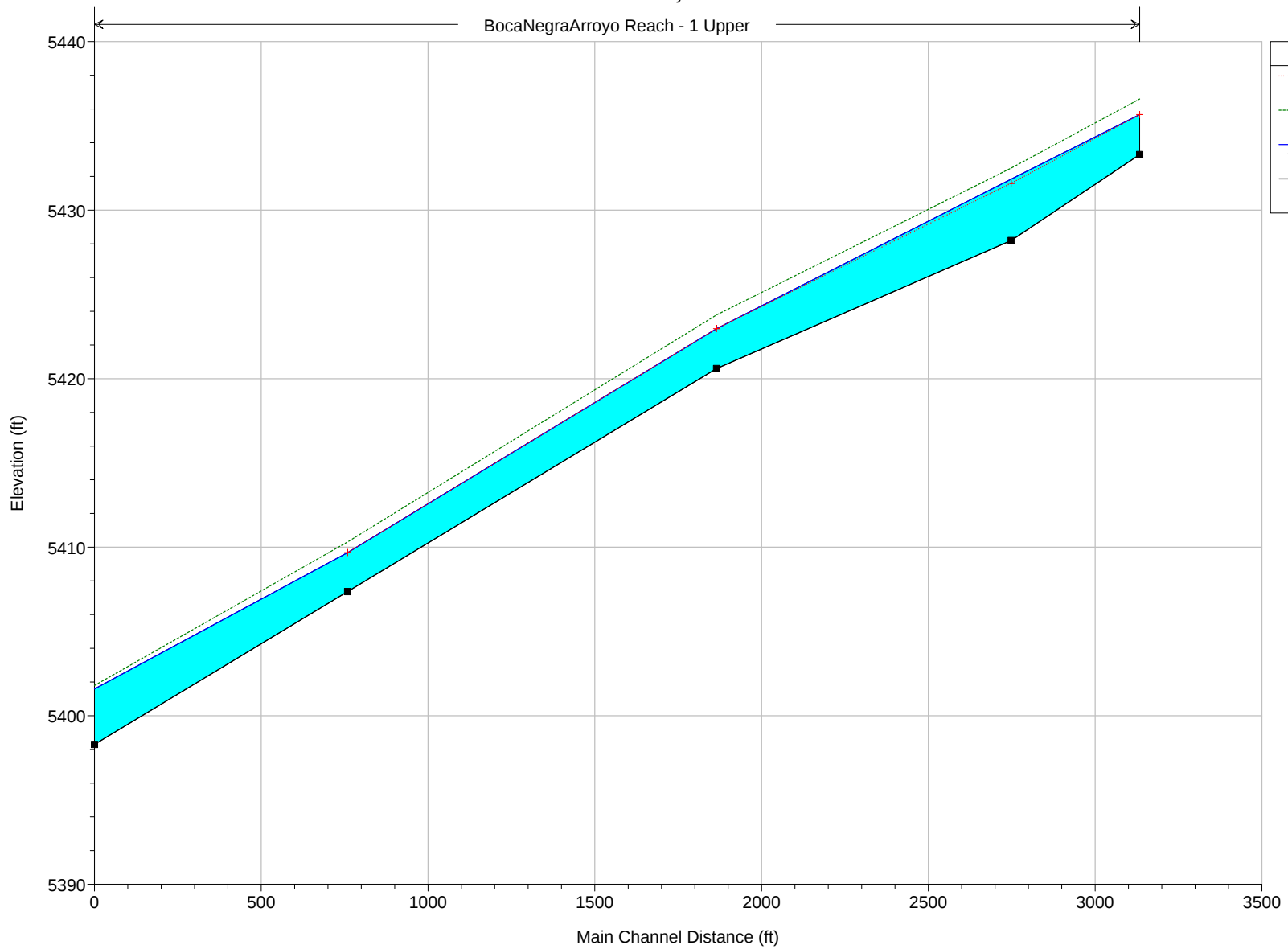
i.Project:	Boca Negra Arroyo	Boca Negra Arroyo.prj
ii.Plan:	Effective Multiple	Boca Negra Arroyo.p08
iii.Geometry:	Geom 01 by CodeH2 for windows	Boca Negra Arroyo.g01
iv.Flow:	Updated 2014 – Effective	Boca Negra Arroyo.f06

Boca Negra Arroyo - Effective Model													
Reach	River Sta	Cross Section	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach - 1 Upper	25374.6	Q	PF 1	1193	5433.3	5435.67	5435.67	5436.6	0.01371	7.78	156.61	89.28	0.98
Reach - 1 Upper	24989.3	P	PF 1	1193	5428.2	5431.84	5431.59	5432.49	0.007919	7.73	200.77	113.39	0.79
Reach - 1 Upper	24106.4	O	PF 1	1193	5420.6	5422.96	5422.96	5423.79	0.012566	7.72	172.12	108.2	0.95
Reach - 1 Upper	23000	N	PF 1	1193	5407.37	5409.68	5409.68	5410.31	0.011587	6.77	200.55	158.97	0.89
Reach - 1 Upper	22241.1	M	PF 1	1193	5398.3	5401.59		5401.79	0.002084	3.98	350.09	170.34	0.41
Reach - 1 Mid	22027.5	L	PF 1	1215	5394.86	5397.65	5397.65	5398.44	0.010509	7.45	184.24	122.42	0.88
Reach - 1 Mid	21845.5	K	PF 1	1215	5389	5392.61	5392.61	5393.54	0.010443	8.54	171.71	96.51	0.9
Reach - 1 Mid	21335.5	I	PF 1	1215	5372	5375.48	5375.48	5376.23	0.015719	6.95	174.76	116.8	1
Reach - 1 Mid	21001.7	J	PF 1	1215	5365.4	5368.37	5368.37	5369.42	0.011901	8.27	151.26	136.36	0.94
Split Flow	22027.5	E	PF 1	1215	5396.8	5400.04	5400.04	5400.96	0.014571	7.66	158.77	88.58	1
Split Flow	21845.5	D	PF 1	1215	5393.6	5397.14	5397.14	5398.12	0.014942	7.96	152.98	82.93	1.02
Split Flow	21335.5	C	PF 1	1215	5382	5383.91	5383.91	5384.45	0.017685	5.9	205.91	192.67	1.01
Split Flow	21001.7	B	PF 1	1215	5370.4	5372.24	5372.24	5372.85	0.015923	6.23	194.8	158.8	0.98
Split Flow	20774.5	A	PF 1	1215	5367.25	5369.9	5369.9	5370.61	0.01638	6.78	179.27	128.58	1.01
Reach - 1 Lower	20573.7	H	PF 1	1218	5360.73	5362.96		5363.33	0.00766	5.87	270.75	223.02	0.73
Reach - 1 Lower	20390.6	G	PF 1	1218	5358.8	5360.86	5360.85	5361.49	0.013323	7.5	200.59	153.68	0.96
Reach - 1 Lower	19770.6	F	PF 1	1218	5351.03	5353.24	5353.24	5353.84	0.011458	6.84	212.73	173.76	0.89
Reach - 1 Lower	18766.3	E	PF 1	1218	5339.4	5342.36	5342.36	5343.16	0.009778	7.57	188.44	130.91	0.86
Reach - 1 Lower	18016.1	D	PF 1	1218	5326.1	5328.99	5328.99	5329.93	0.01495	7.8	156.16	86.45	1.01
Reach - 1 Lower	17129.8	C	PF 1	1298	5313	5316.05	5316.05	5316.86	0.009499	8.1	199.89	120.13	0.86
Reach - 1 Lower	17000	B	PF 1	1298	5268.48	5275.25	5275.25	5277.25	0.022363	11.42	118.37	34.25	0.9
Reach - 1 Lower	16457	A	PF 1	1298	5200.7	5204.29	5204.29	5205.23	0.013801	7.82	167.29	90.37	0.98

Boca Negra Arroyo Plan: Effective Multiple 12/4/2014

Geom: Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Upper



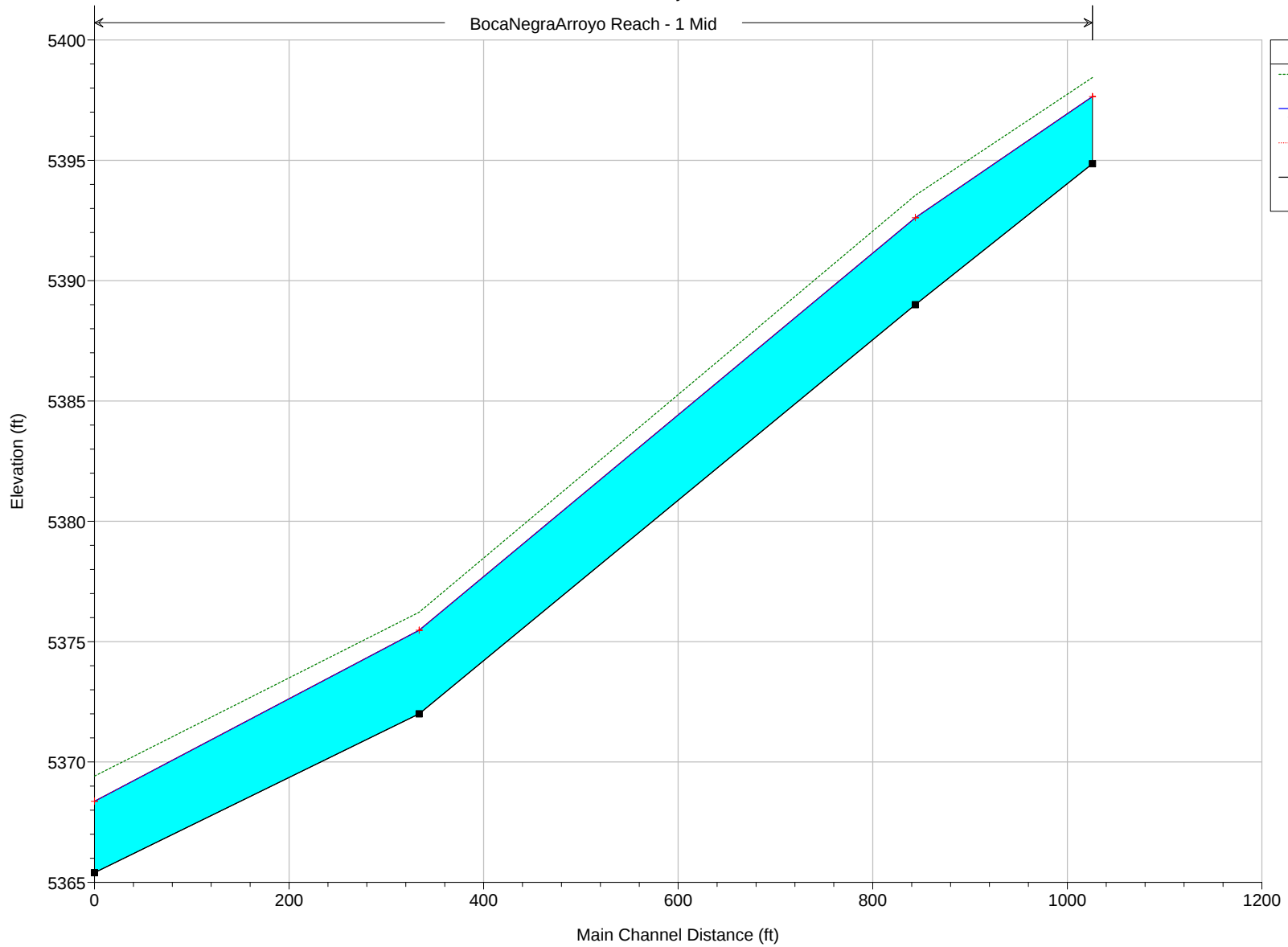
Legend

- Crit PF 1
- EG PF 1
- WS PF 1
- Ground

Boca Negra Arroyo Plan: Effective Multiple 12/4/2014

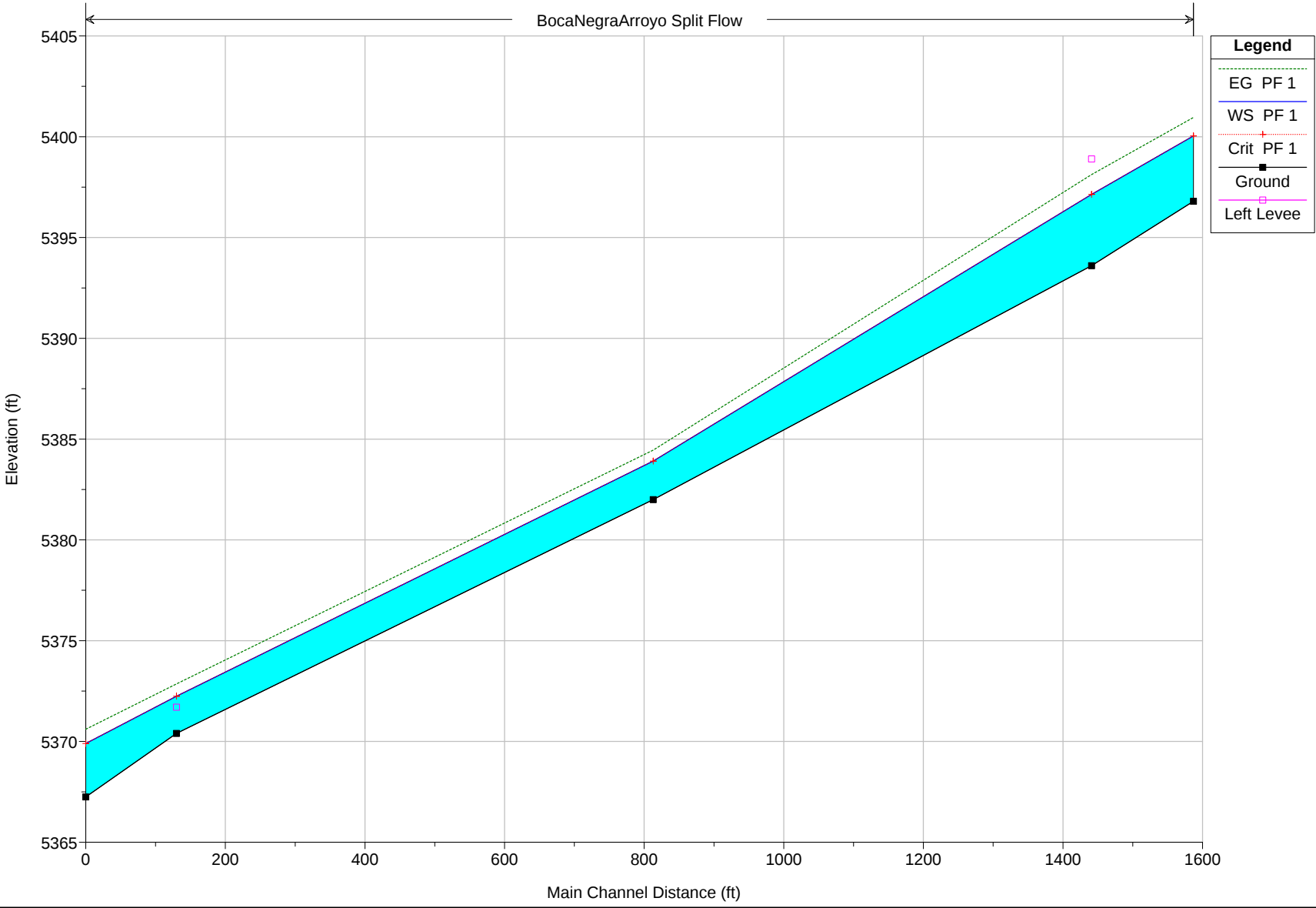
Geom: Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Mid



Boca Negra Arroyo Plan: Effective Multiple 12/4/2014

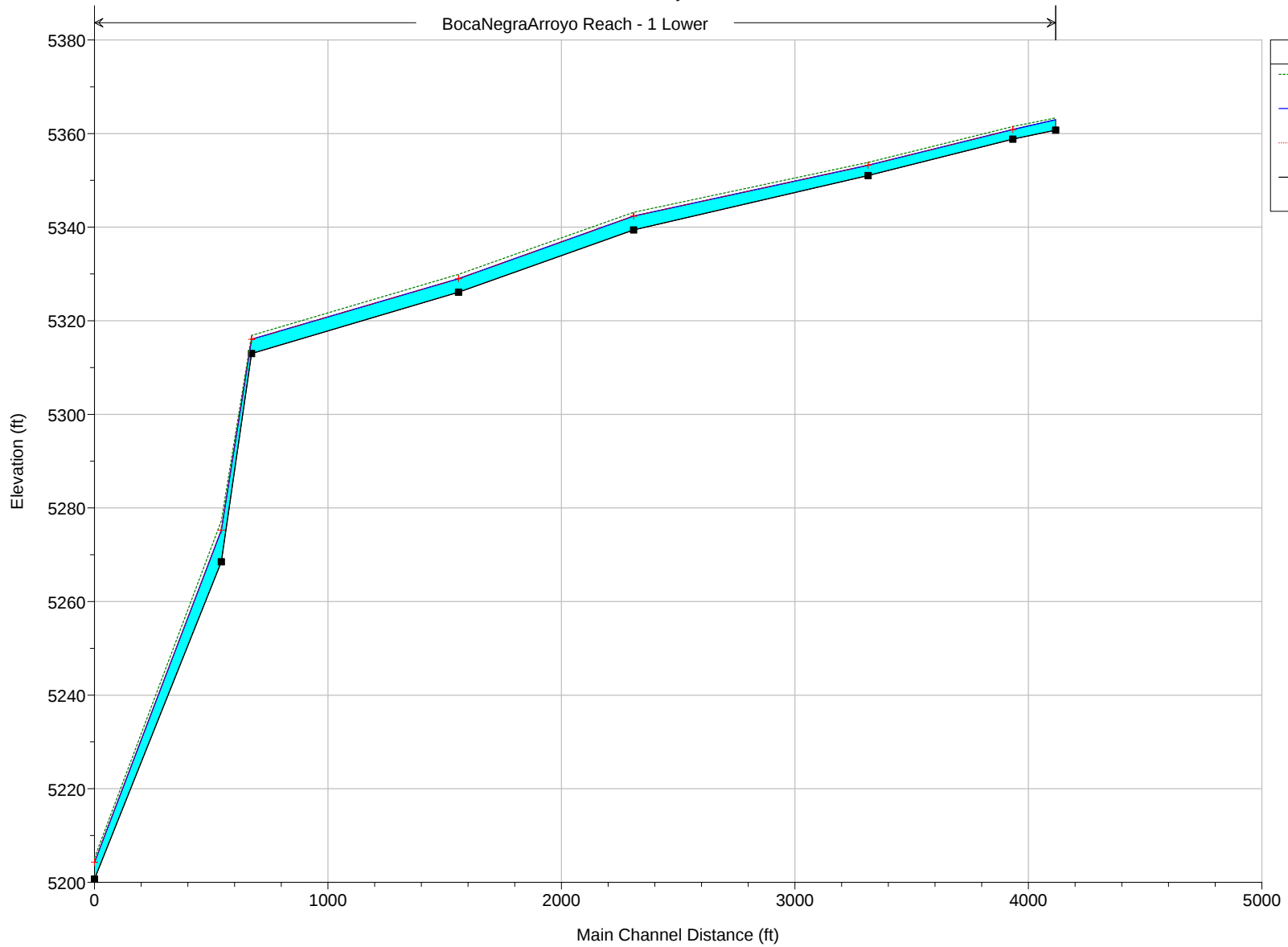
Geom: Geom 01 by CodeH2 for Windows



Boca Negra Arroyo Plan: Effective Multiple 12/4/2014

Geom: Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Lower



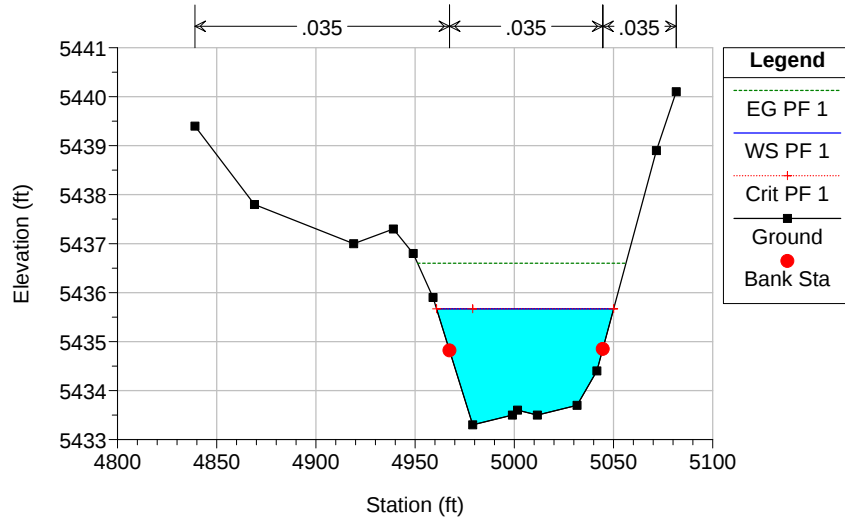
Legend

- EG PF 1
- WS PF 1
- Crit PF 1
- Ground

Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

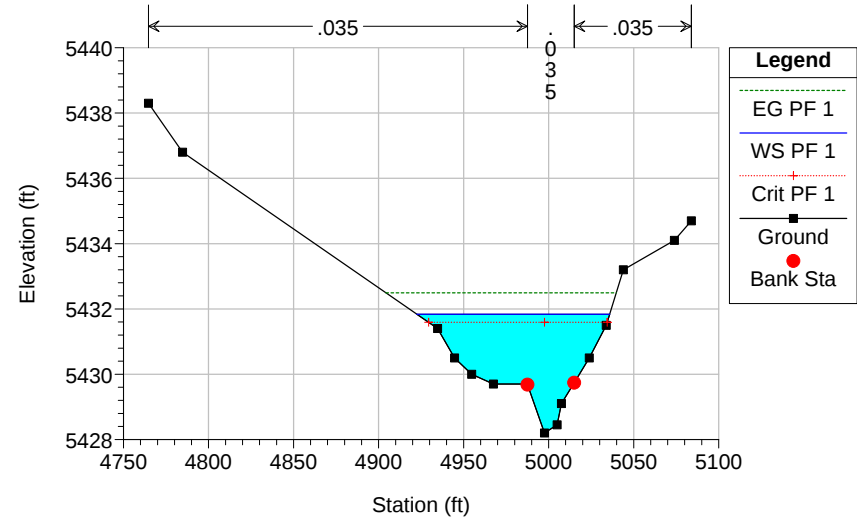
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 25374.6 Cross Section Boca Negra Arroyo 28.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

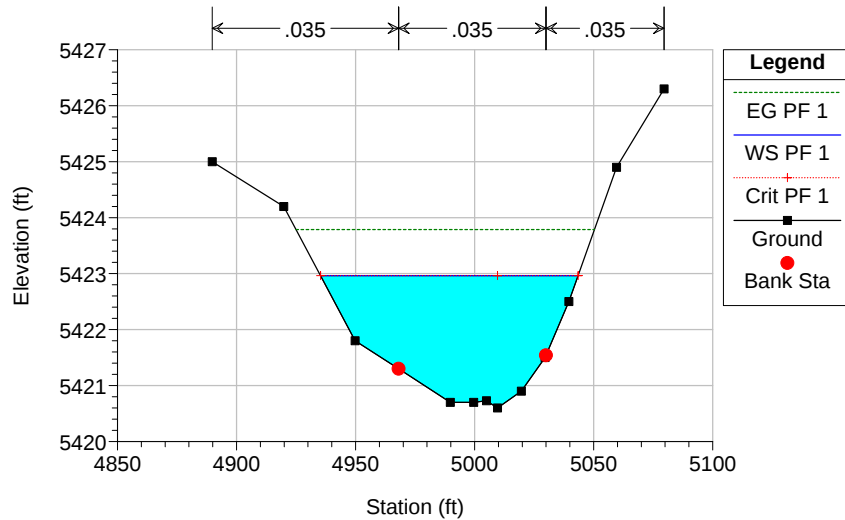
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 24989.3 Cross Section Boca Negra Arroyo 27.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

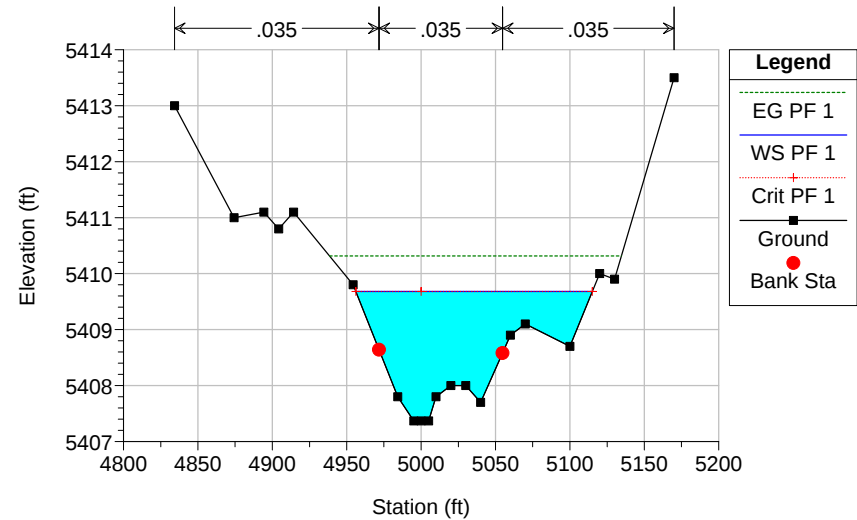
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 24106.4 Cross Section Boca Negra Arroyo 26.0

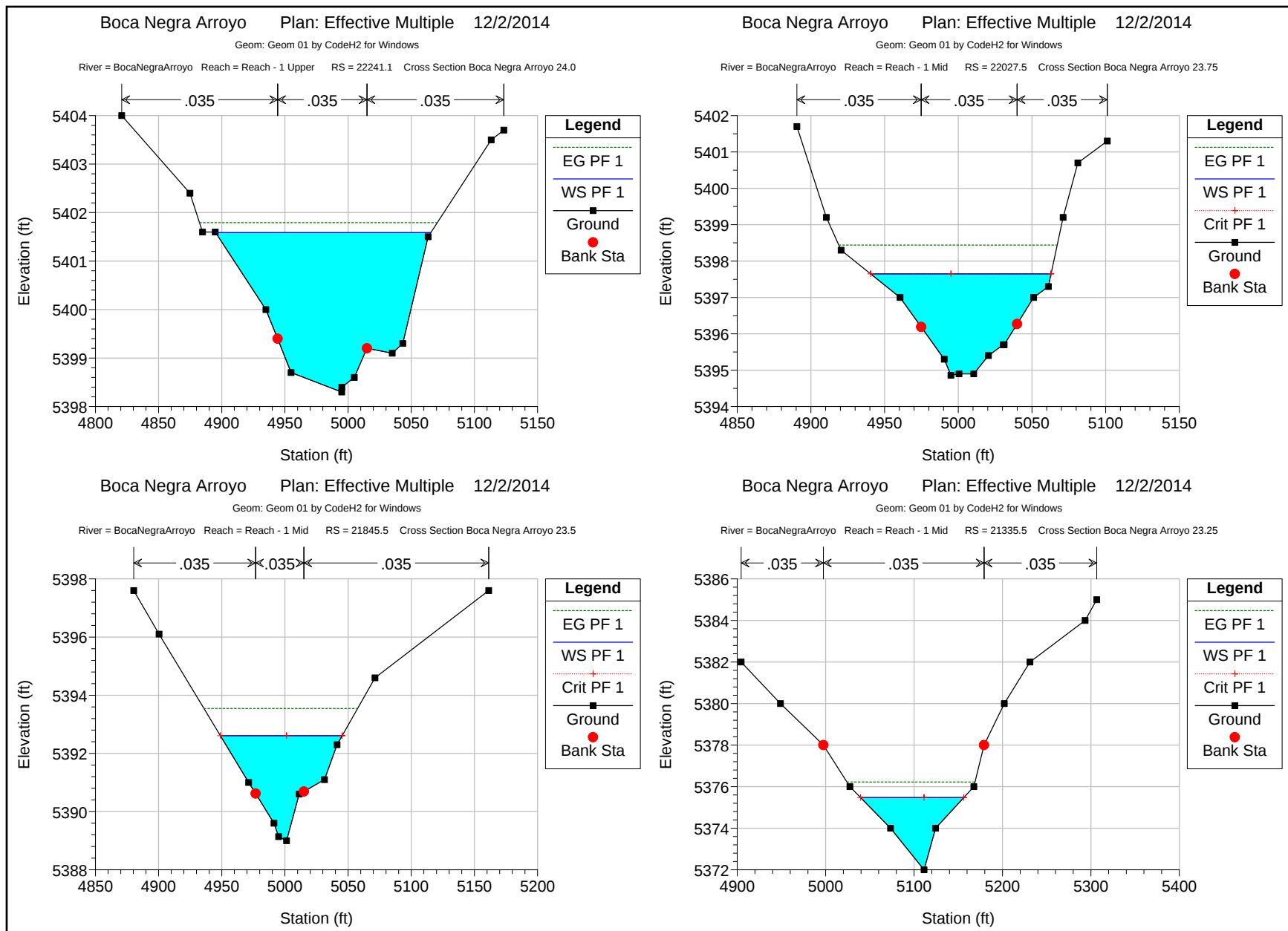


Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 23000.0 Cross Section Boca Negra Arroyo 25.0

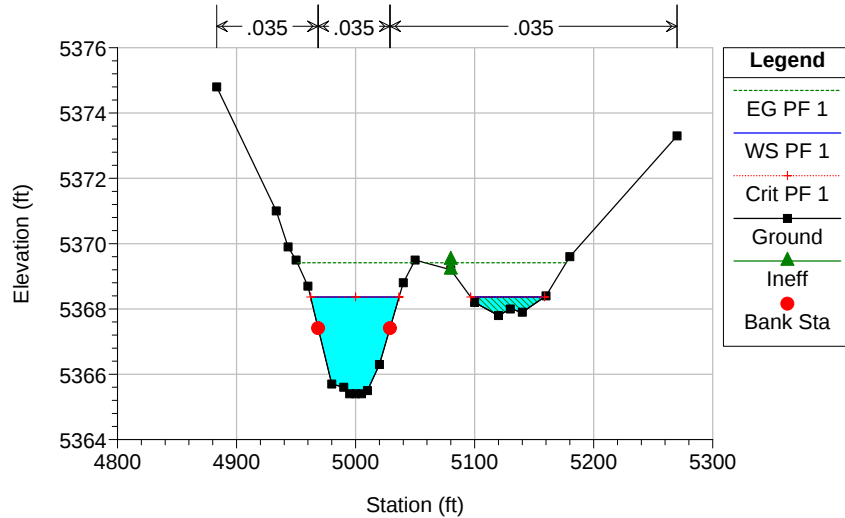




Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

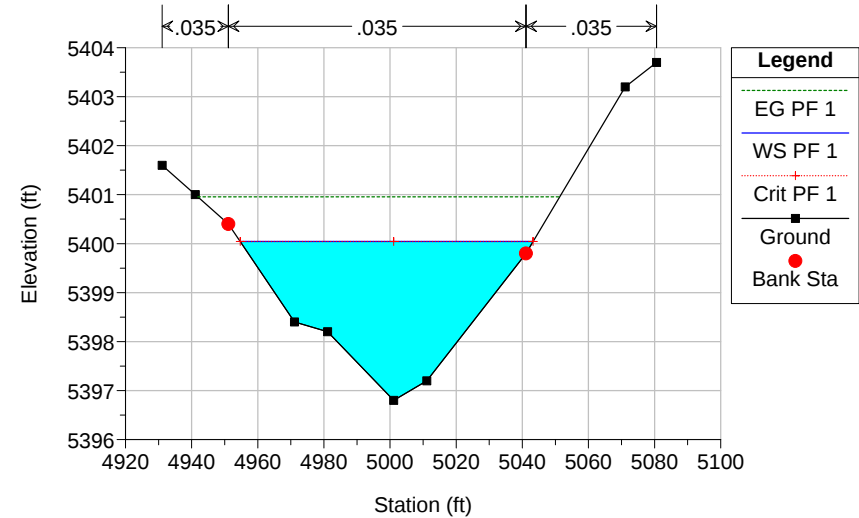
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21001.7 Cross Section Boca Negra Arroyo 23.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

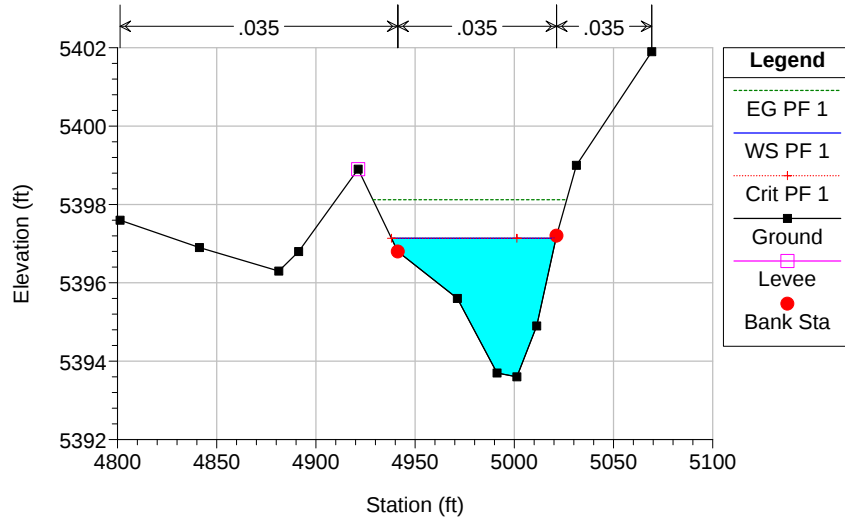
River = BocaNegraArroyo Reach = Split Flow RS = 22027.5 Cross Section Boca Negra Split Flow 23.75



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

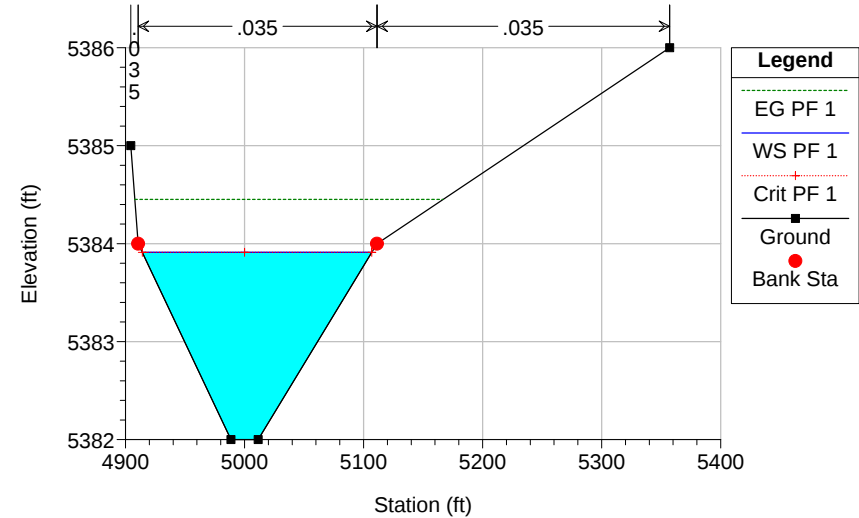
River = BocaNegraArroyo Reach = Split Flow RS = 21845.5 Cross Section Boca Negra Split Flow 23.5

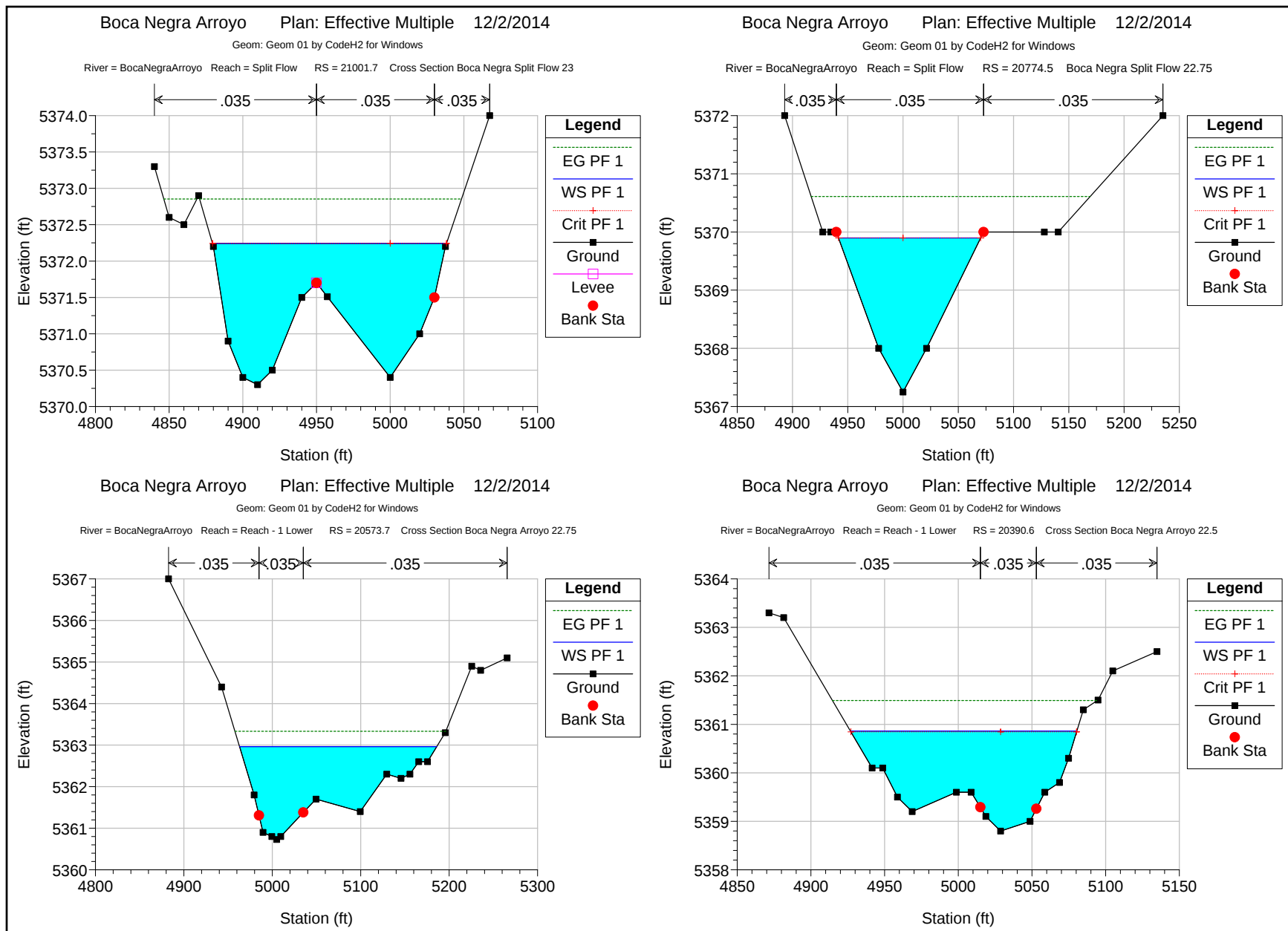


Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

River = BocaNegraArroyo Reach = Split Flow RS = 21335.5 Cross Section Boca Negra Split Flow 23.25

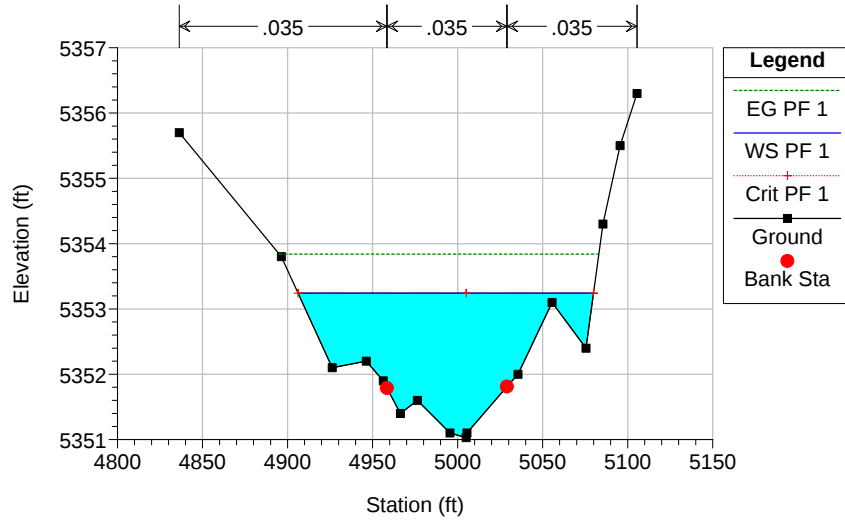




Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

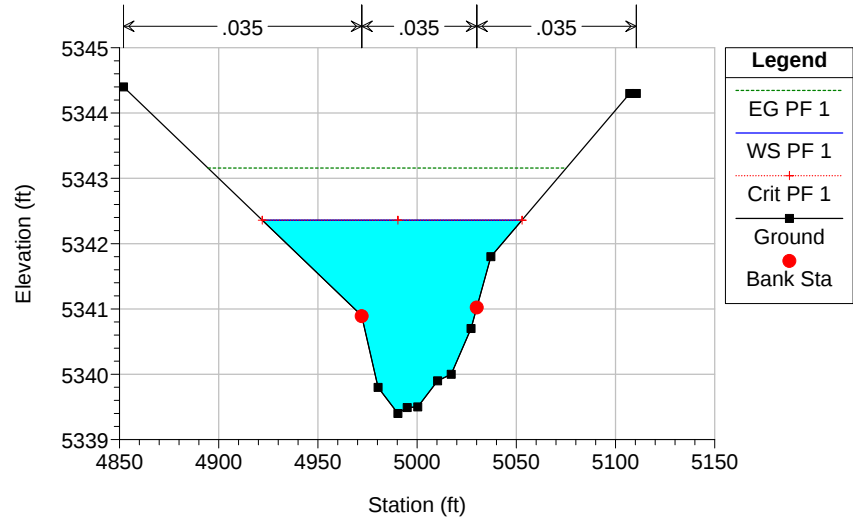
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19770.6 Cross Section Boca Negra Arroyo 22.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

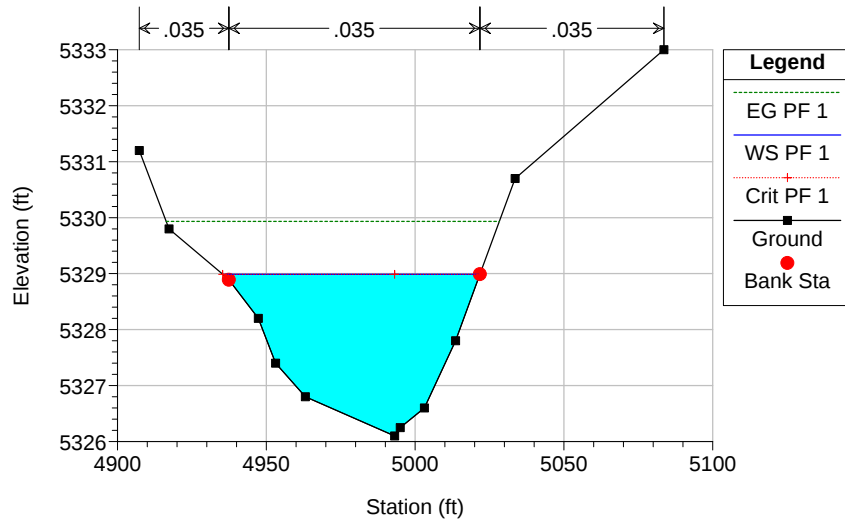
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 18766.3 Cross Section Boca Negra Arroyo 21.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

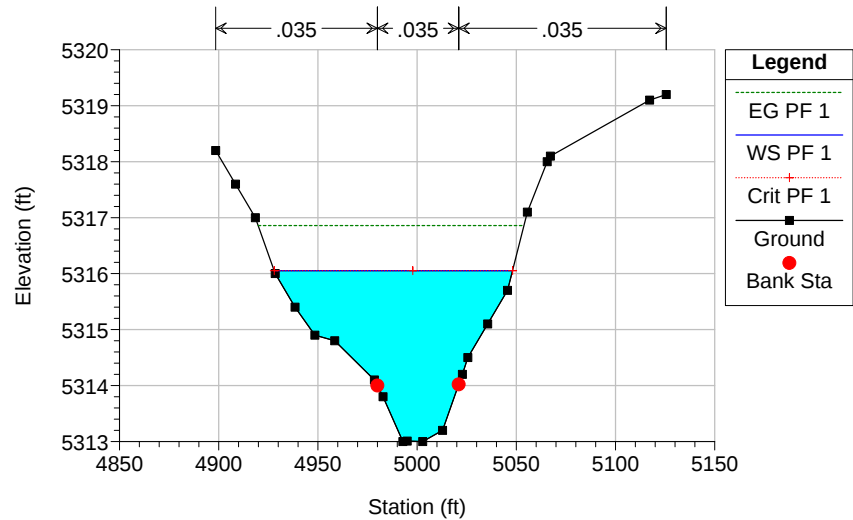
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 18016.1 Cross Section Boca Negra Arroyo 20.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

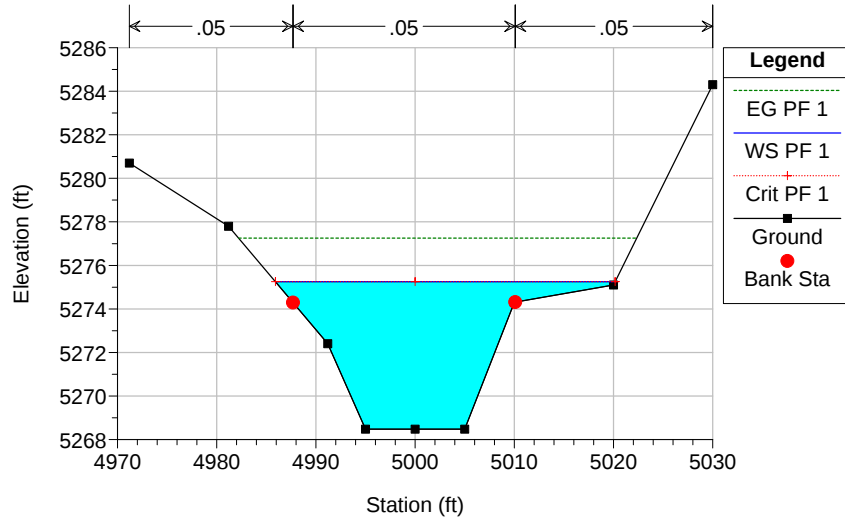
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 17129.8 Cross Section Boca Negra Arroyo 19.5



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

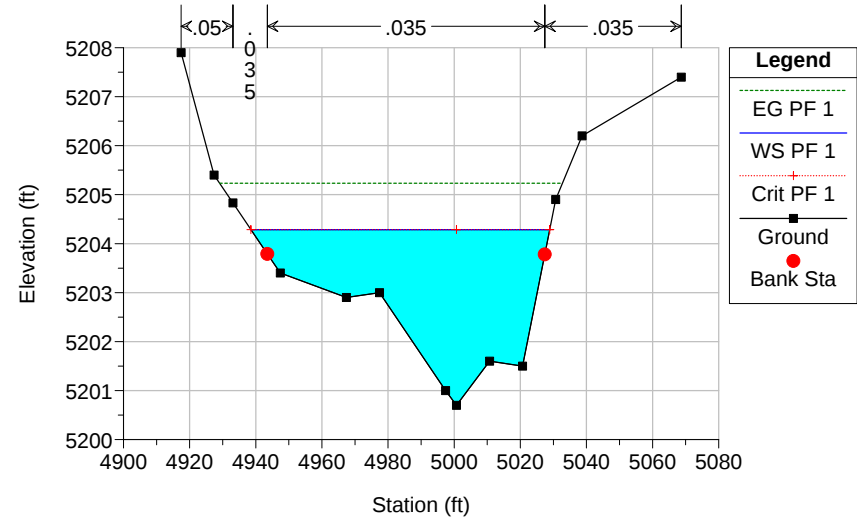
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 17000.0 Cross Section Boca Negra Arroyo 19.0



Boca Negra Arroyo Plan: Effective Multiple 12/2/2014

Geom: Geom 01 by CodeH2 for Windows

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



Duplicate Effective Model

Summary

Profile

Cross Sections

Hydraulics Model – HEC-RAS Analysis (CD)

FEMA Duplicate Effective Files

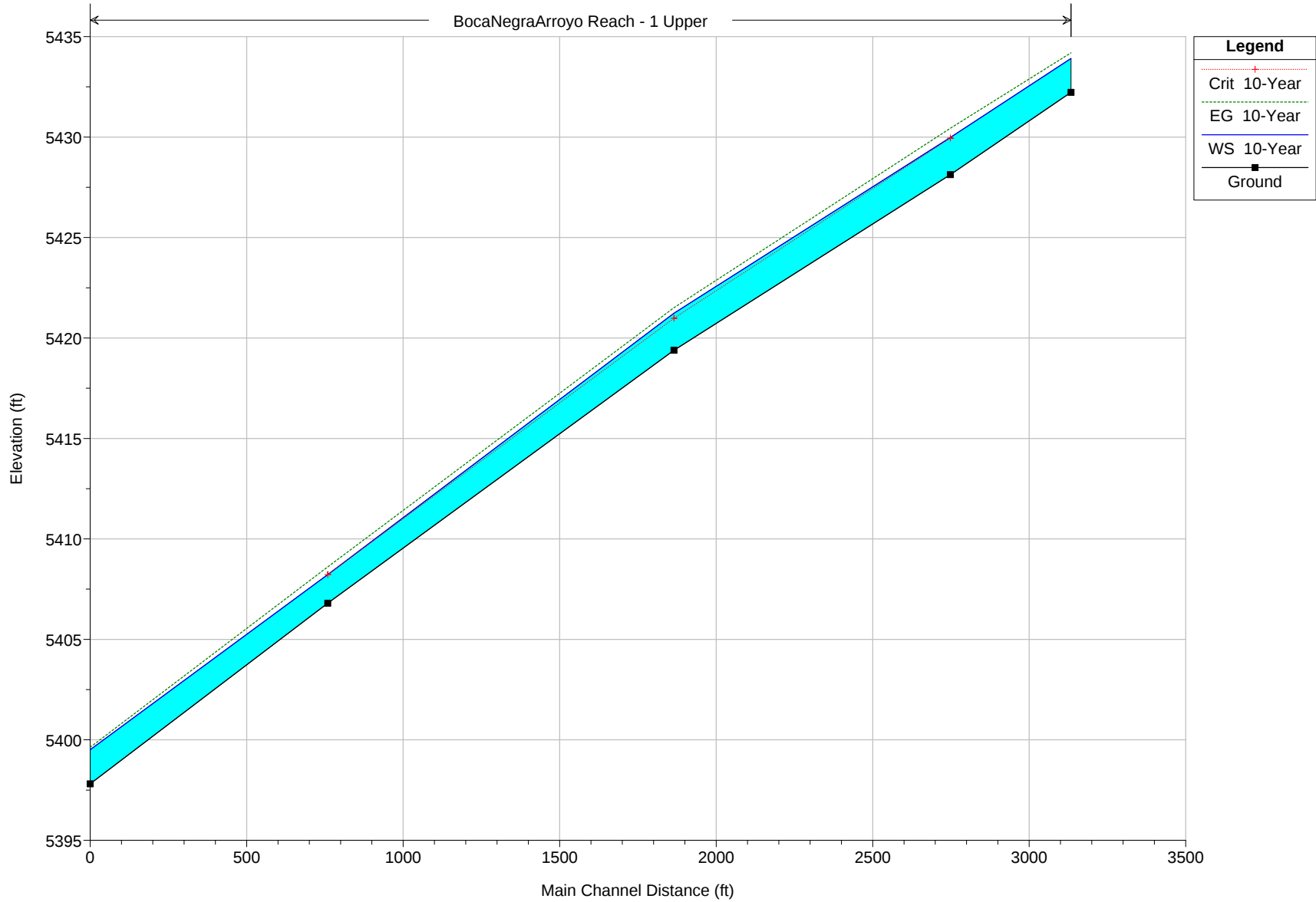
i.Project:	Boca Negra Arroyo	Boca Negra Arroyo.prj
ii.Plan:	Multiple Updated Flow	Boca Negra Arroyo.p05
iii.Geometry:	Duplicate Geom 01 by CodeH2 for windows	Boca Negra Arroyo.g04
iv.Flow:	Updated 2014	Boca Negra Arroyo.f01

Boca Negra Arroyo - Duplicate Effective Model													
Reach	River Sta	Cross Section	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach - 1 Upper	25374.6	Q	PF 1	1193	5432.23	5434.89	5434.69	5435.63	0.010156	6.93	174.84	91.71	0.85
Reach - 1 Upper	24989.3	P	PF 1	1193	5428.13	5431.11	5430.99	5431.84	0.009544	7.64	185.62	106.99	0.85
Reach - 1 Upper	24106.4	O	PF 1	1193	5419.39	5422.07	5421.96	5422.8	0.011023	6.95	177.79	107.19	0.88
Reach - 1 Upper	23000	N	PF 1	1193	5406.8	5408.99	5408.99	5409.6	0.012888	6.73	202.56	171.81	0.92
Reach - 1 Upper	22241.1	M	PF 1	1193	5397.81	5400.83		5401.06	0.00231	3.94	326.78	162.42	0.42
Reach - 1 Mid	22027.5	L	PF 1	1215	5394.23	5396.68	5396.68	5397.48	0.013755	7.23	172.91	117.31	0.96
Reach - 1 Mid	21845.5	K	PF 1	1215	5388.78	5392.03	5392.03	5392.98	0.010556	8.25	168.19	93.65	0.9
Reach - 1 Mid	21335.5	I	PF 1	1215	5371.76	5374.61	5374.61	5375.32	0.016031	6.77	179.56	126.88	1
Reach - 1 Mid	21001.7	J	PF 1	1215	5364.59	5367.33	5367.33	5368.34	0.014032	8.07	150.72	126.52	1
Split Flow	22027.5	E	PF 1	1215	5396.03	5399.23	5399.23	5400.21	0.012136	8.06	159.99	92.1	0.94
Split Flow	21845.5	D	PF 1	1215	5393.19	5396.45	5396.45	5397.4	0.014147	7.85	154.88	79.6	0.99
Split Flow	21335.5	C	PF 1	1215	5381.36	5383.09	5383.09	5383.65	0.017527	5.99	202.97	184.61	1.01
Split Flow	21001.7	B	PF 1	1215	5369.14	5371.14	5371.14	5371.74	0.016072	6.42	195.91	162.66	0.99
Split Flow	20774.5	A	PF 1	1215	5365.62	5368.52	5368.52	5369.29	0.015836	7.06	172.17	113.22	1.01
Reach - 1 Lower	20573.7	H	PF 1	1218	5359.99	5362.16	5362.07	5362.59	0.008864	6.21	254.61	221.76	0.79
Reach - 1 Lower	20390.6	G	PF 1	1218	5358.19	5360.25	5360.14	5360.77	0.011134	6.72	217.67	163	0.87
Reach - 1 Lower	19770.6	F	PF 1	1218	5350.42	5352.7	5352.7	5353.31	0.013025	6.91	207.2	173.39	0.93
Reach - 1 Lower	18766.3	E	PF 1	1218	5331.02	5334.14		5334.51	0.004476	4.88	249.52	110.36	0.57
Reach - 1 Lower	18016.1	D	PF 1	1218	5324.69	5327.94	5327.94	5328.89	0.014637	7.82	155.74	82.59	1
Reach - 1 Lower	17129.8	C	PF 1	1298	5312.3	5315.1	5315.1	5315.91	0.010453	7.91	192.9	117.09	0.89
Reach - 1 Lower	17000	B	PF 1	1298	5269.36	5275.33	5275.33	5277.13	0.026371	10.78	120.4	33.72	1.01
Reach - 1 Lower	16457	A	PF 1	1298	5199.33	5203.09	5203.09	5203.95	0.015134	7.45	174.23	101.64	1

Boca Negra Arroyo Plan: Duplicate Multiple 12/4/2014

Geom: Duplicate Geom 01 by CodeH2 for Windows

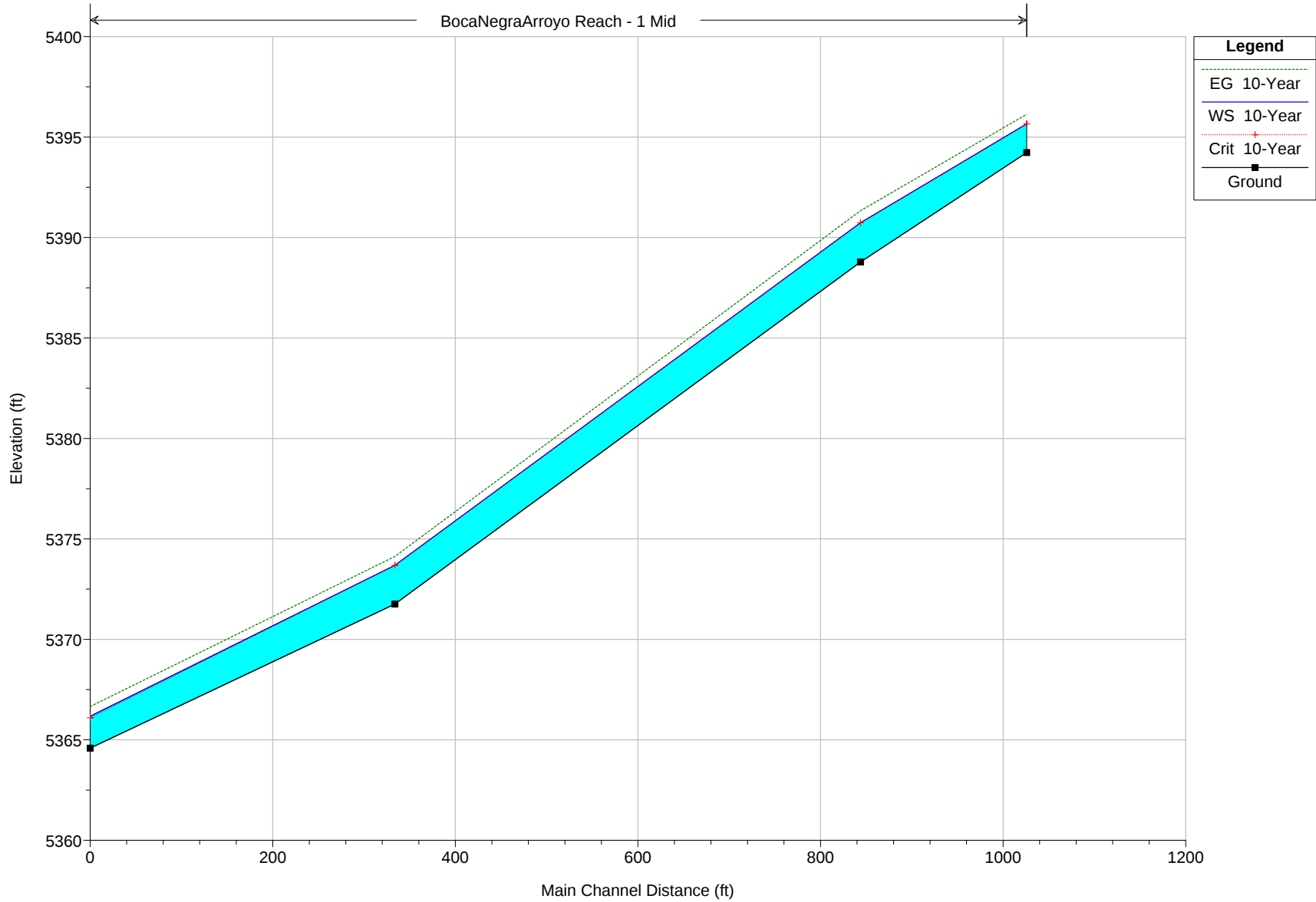
BocaNegraArroyo Reach - 1 Upper



Boca Negra Arroyo Plan: Duplicate Multiple 12/4/2014

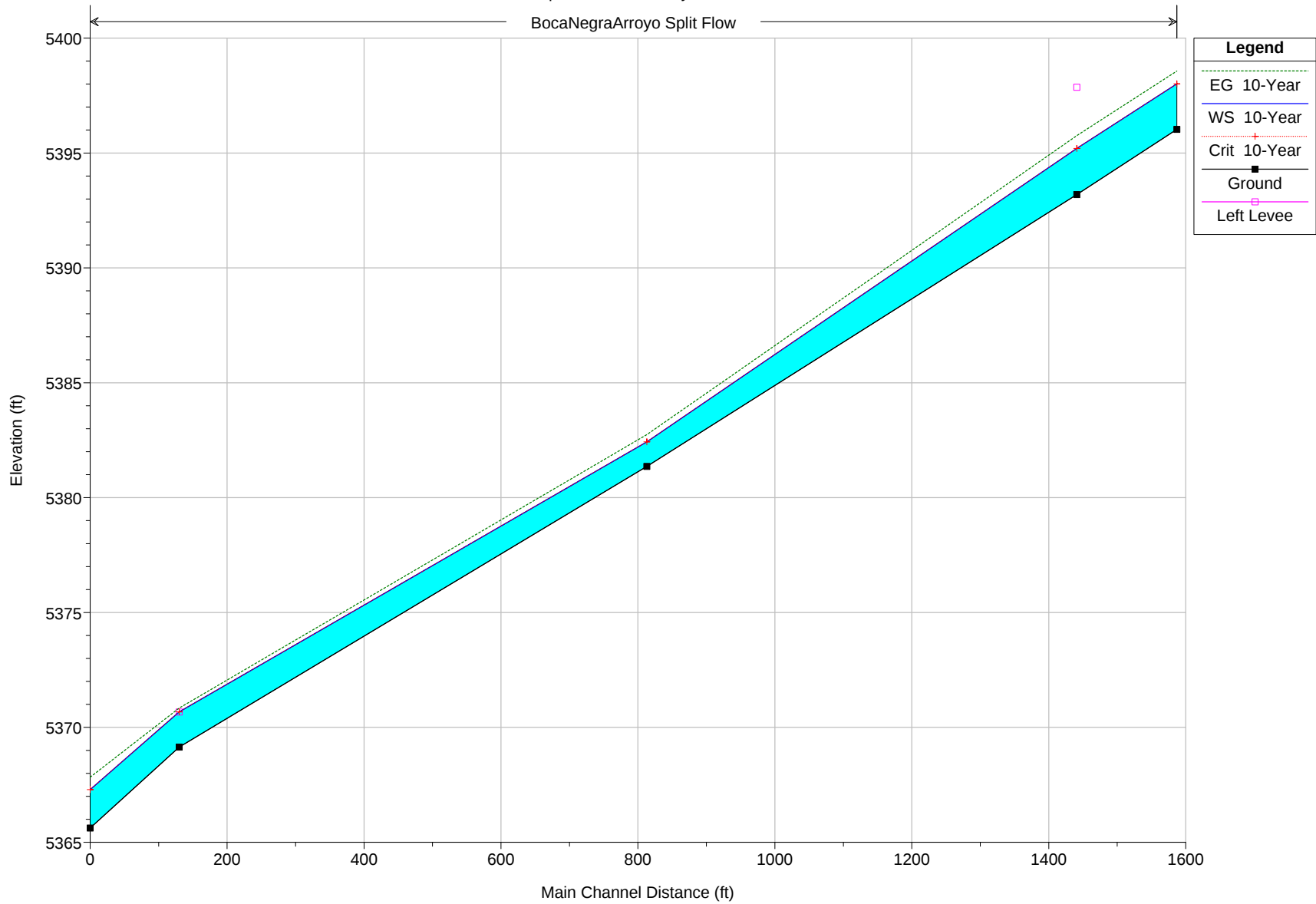
Geom: Duplicate Geom 01 by CodeH2 for Windows

BocaNegraArroyo Reach - 1 Mid



Boca Negra Arroyo Plan: Duplicate Multiple 12/4/2014

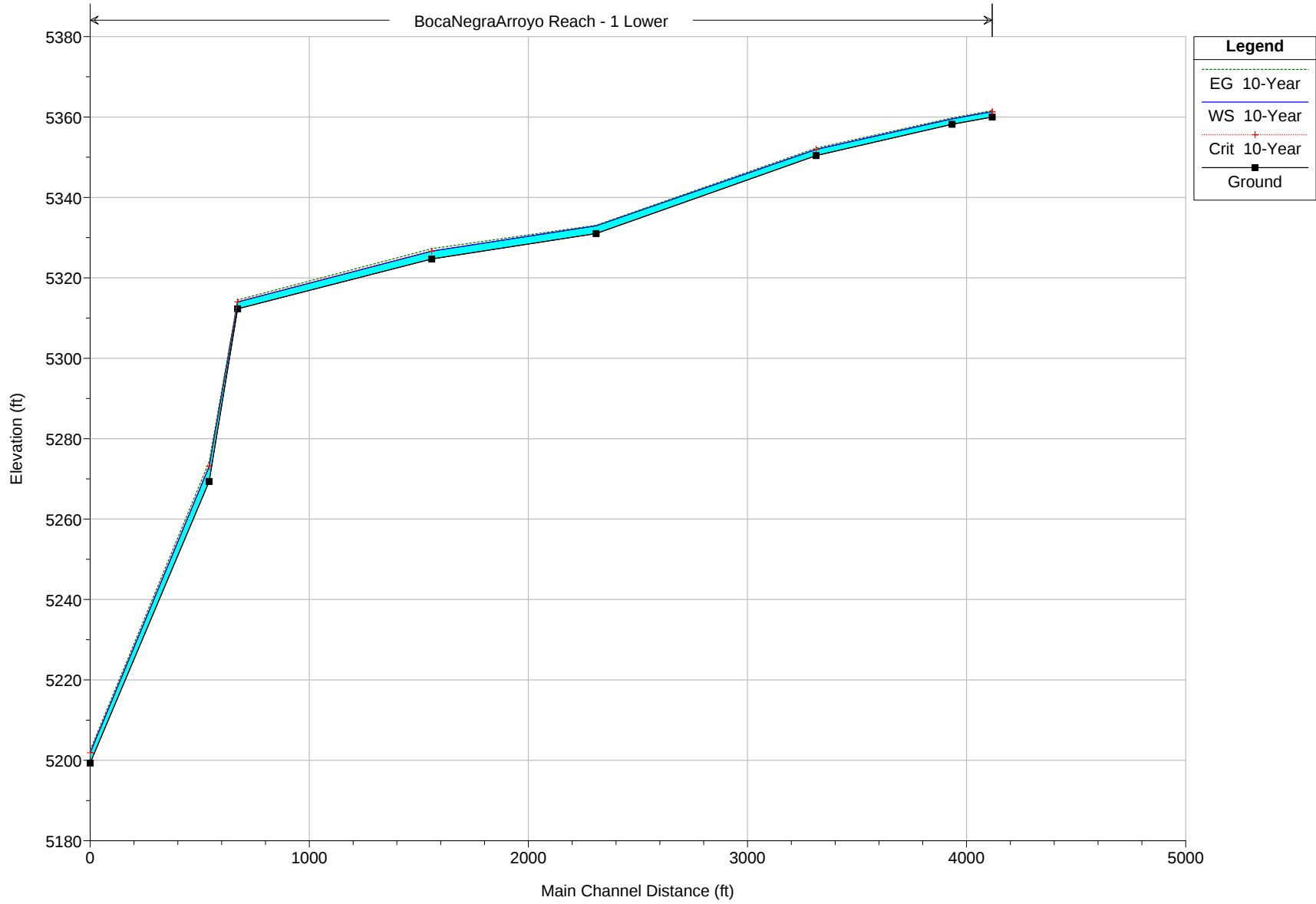
Geom: Duplicate Geom 01 by CodeH2 for Windows

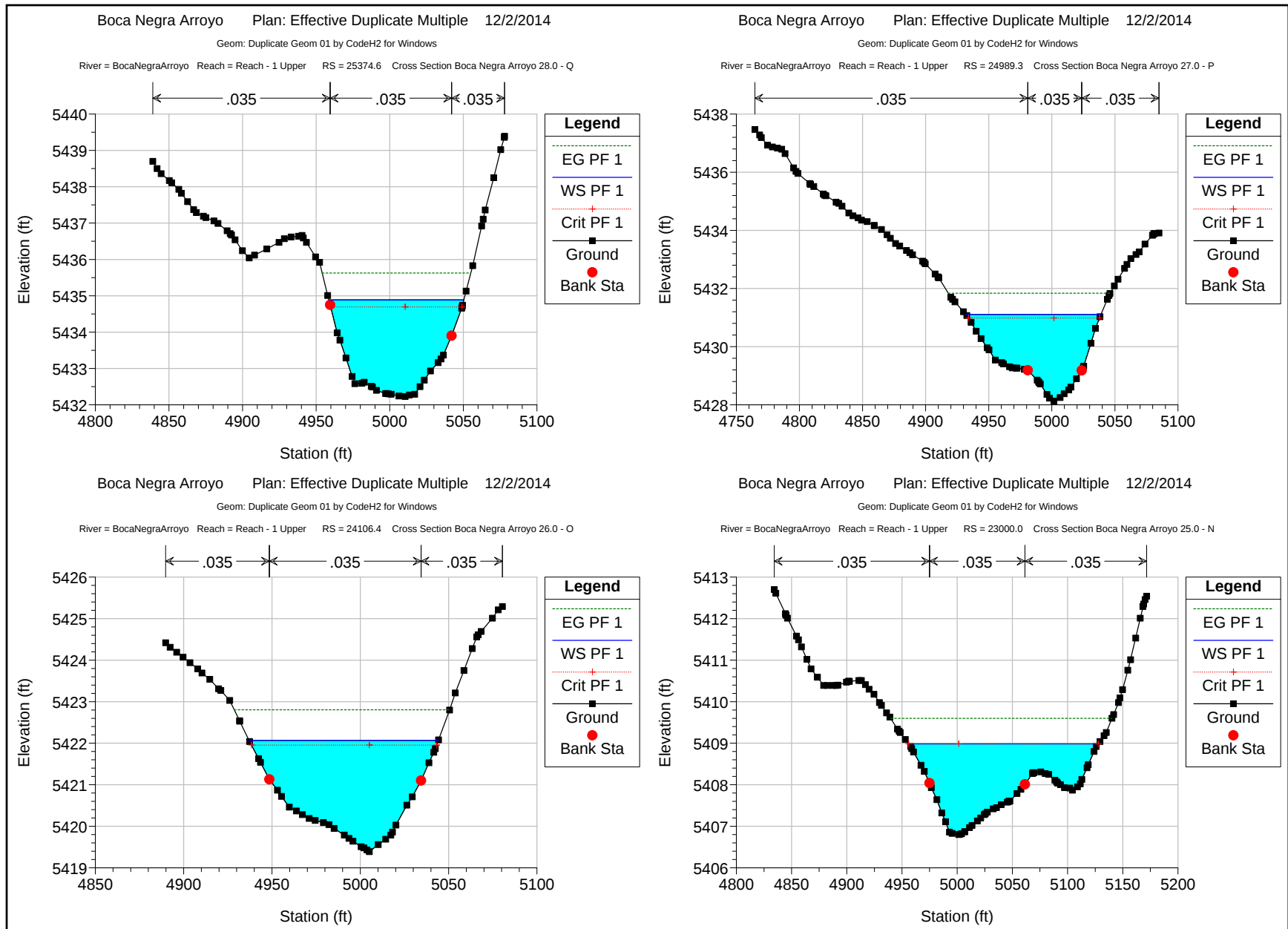


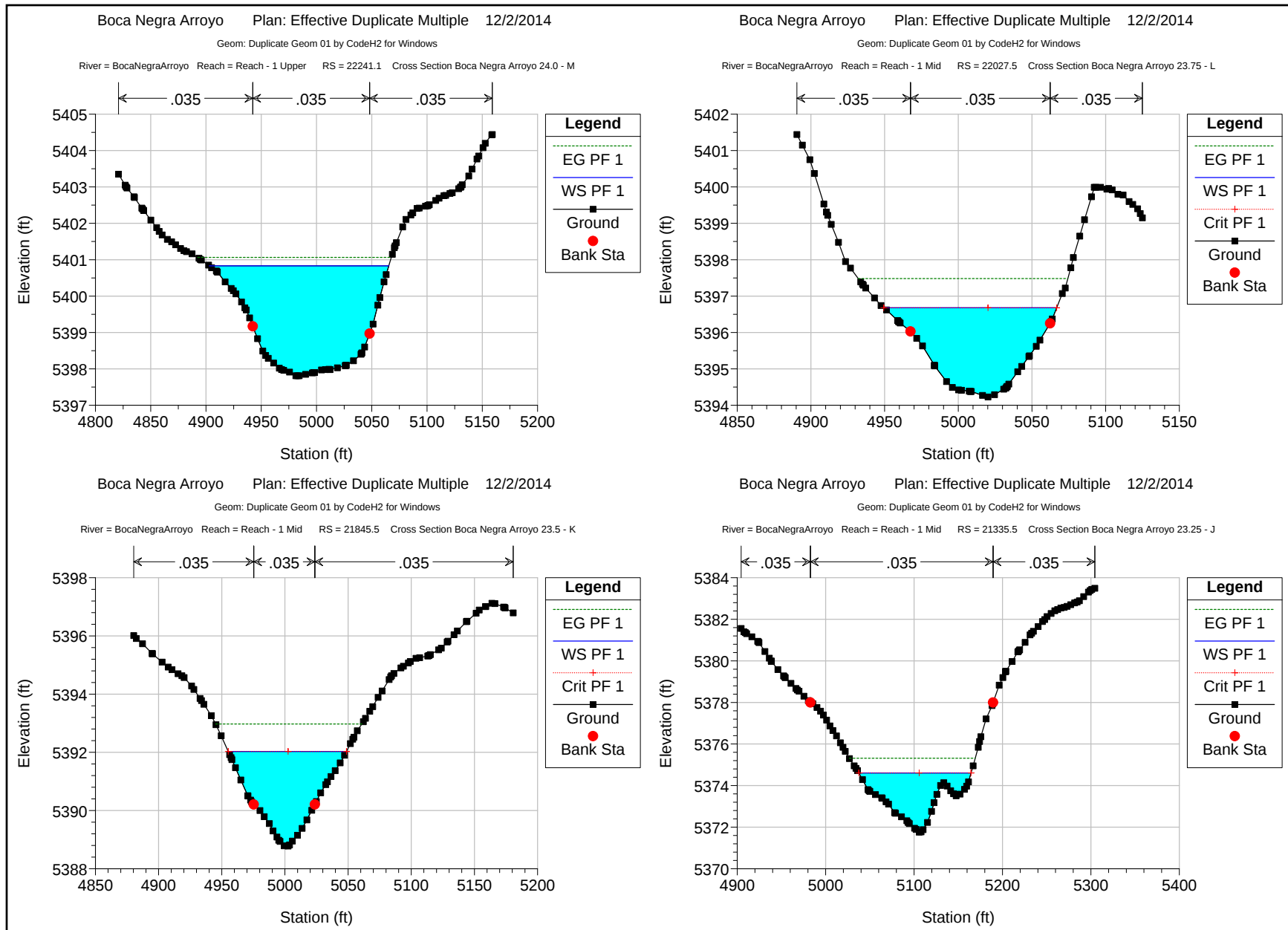
Boca Negra Arroyo Plan: Duplicate Multiple 12/4/2014

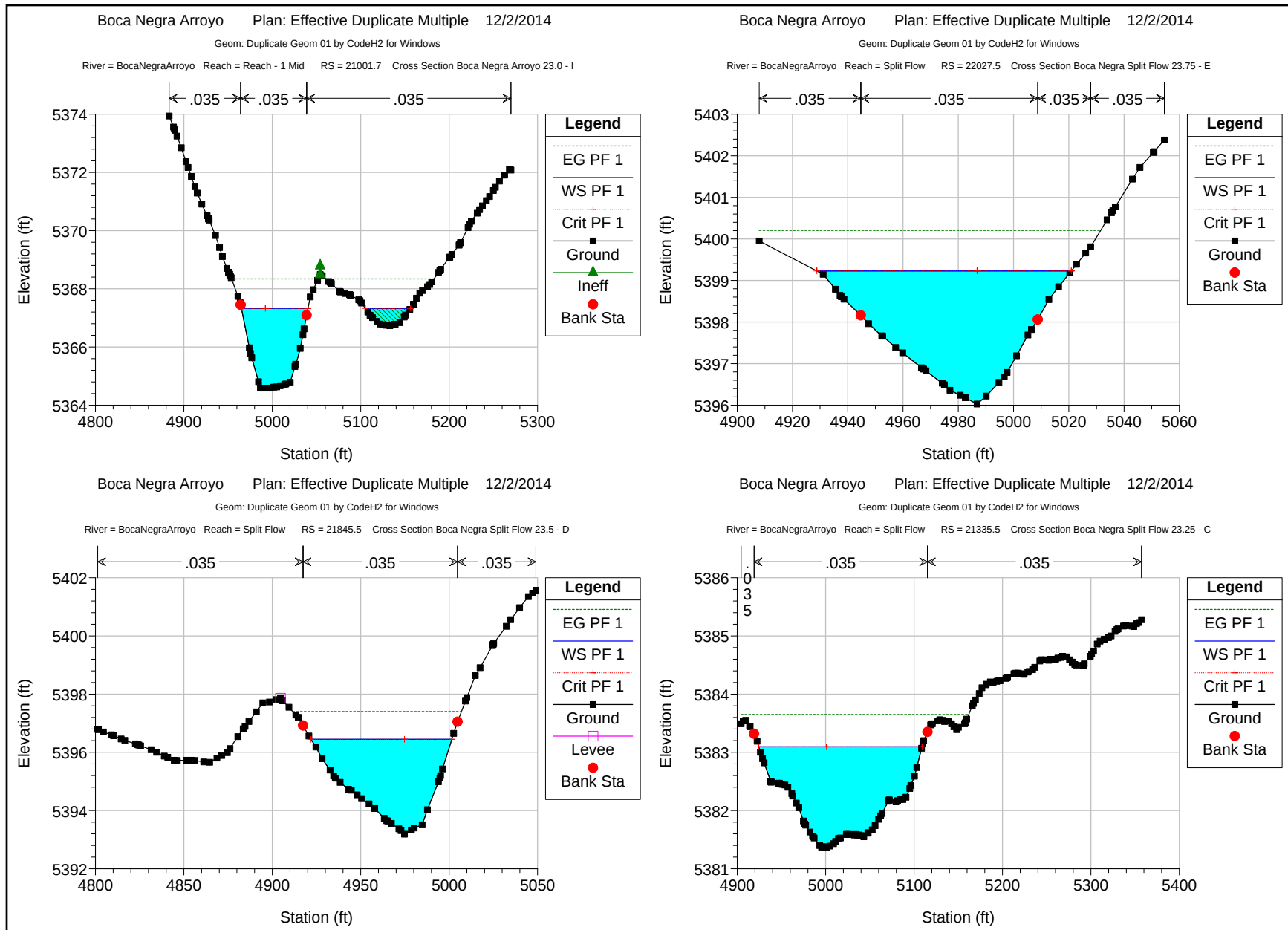
Geom: Duplicate Geom 01 by CodeH2 for Windows

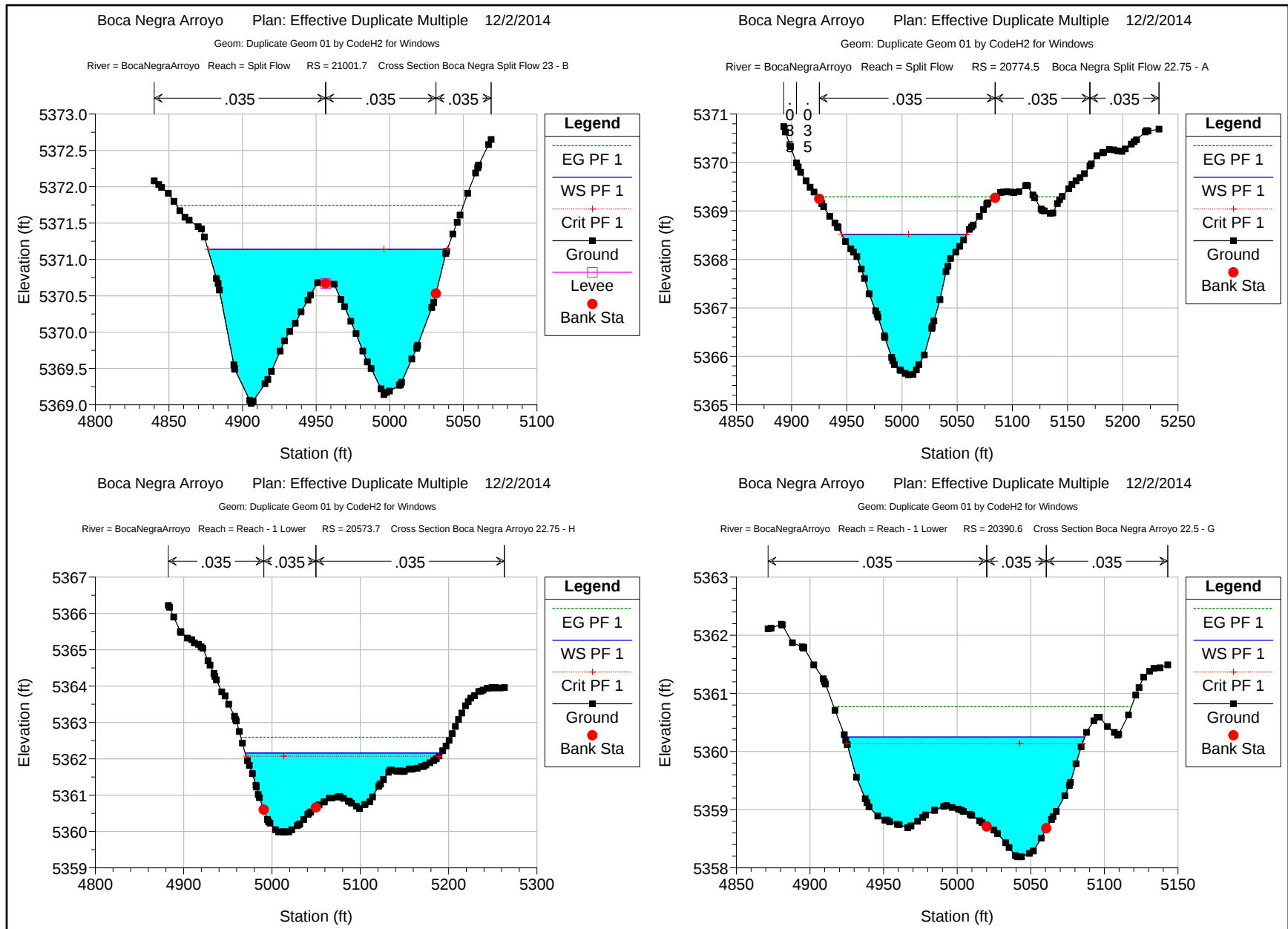
BocaNegraArroyo Reach - 1 Lower

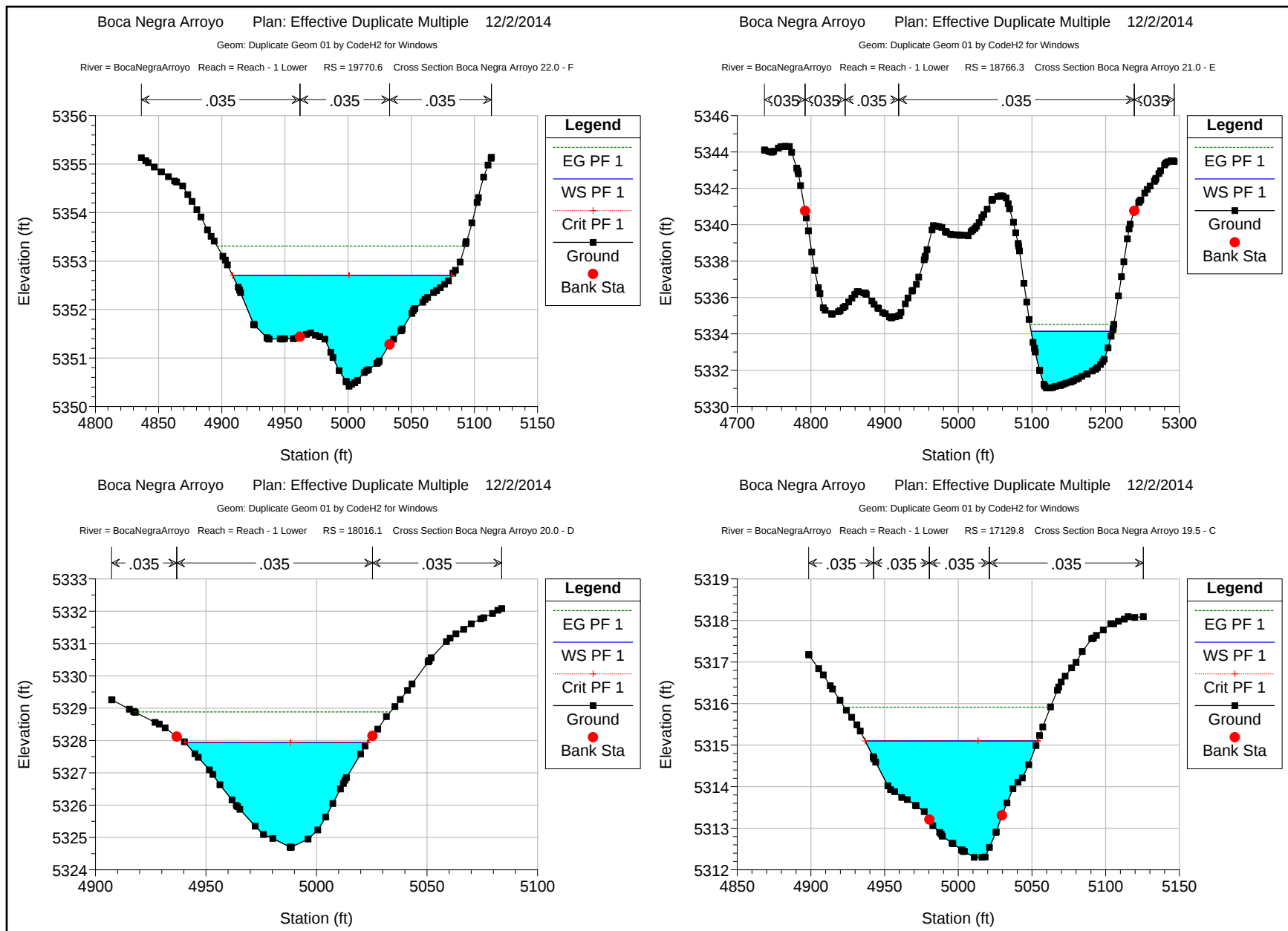








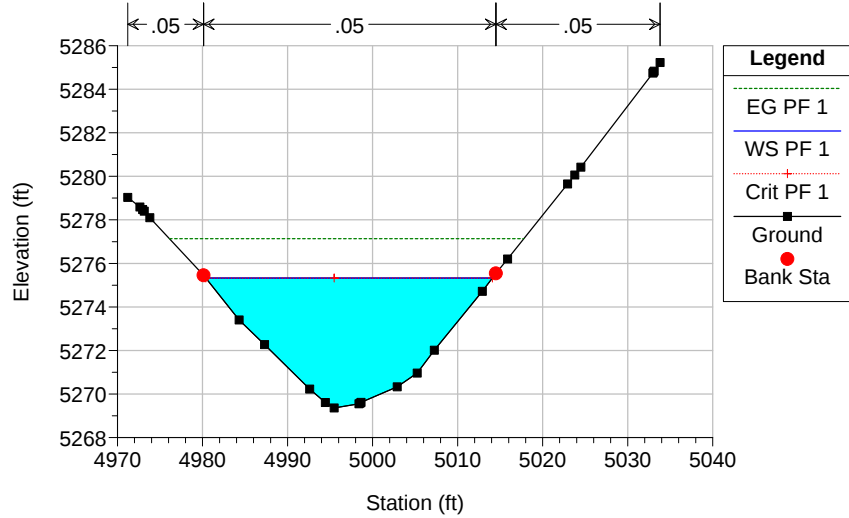




Boca Negra Arroyo Plan: Effective Duplicate Multiple 12/2/2014

Geom: Duplicate Geom 01 by CodeH2 for Windows

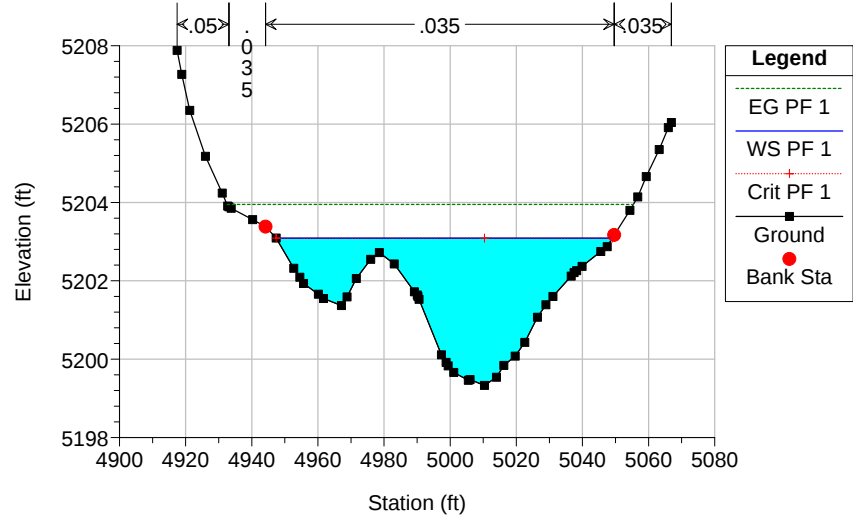
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 17000.0 Cross Section Boca Negra Arroyo 19.0 - B



Boca Negra Arroyo Plan: Effective Duplicate Multiple 12/2/2014

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



Current Upstream Model

Summary

Profile

Cross Sections

Hydraulics Model – HEC-RAS Analysis (CD)

Current Upstream Files

i.Project: BNA Current Upstm
 BNACurrentUpstm.prj

ii.Plan: Current Upstream BNACurrentUpstm.p06

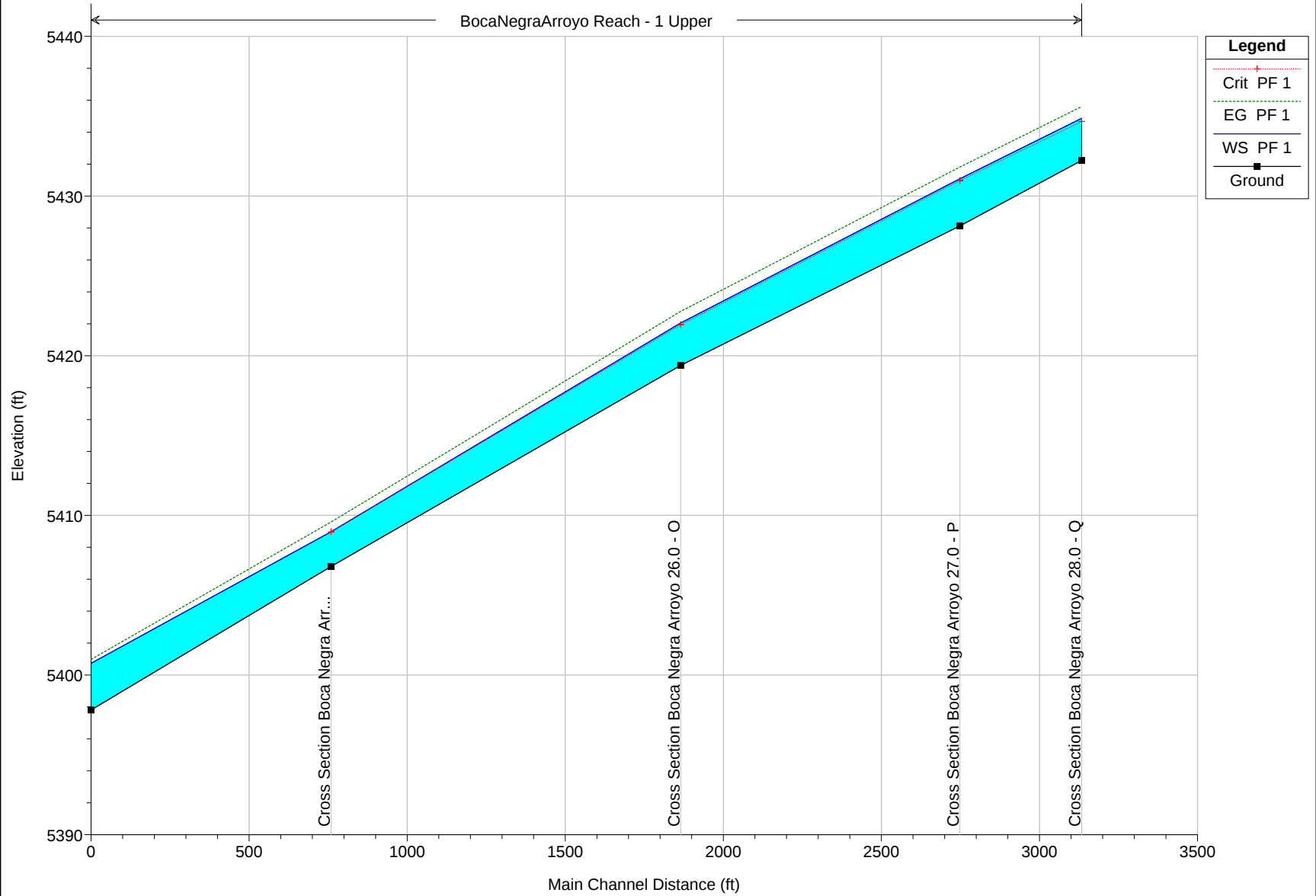
iii.Geometry: Current Upstream BNACurrentUpstm.g05

iv.Flow: Updated 2014 BNACurrentUpstm.f01

Boca Negra Arroyo - Current Upstream Model													
Reach	River Sta	Cross Section	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach - 1 Upper	25374.6	Q	PF 1	1175	5432.23	5434.87	5434.67	5435.60	0.010152	6.89	173.18	91.48	0.85
Reach - 1 Upper	24989.3	P	PF 1	1175	5428.13	5431.09	5430.97	5431.81	0.009555	7.6	183.48	106.39	0.85
Reach - 1 Upper	24106.4	O	PF 1	1175	5419.39	5422.05	5421.93	5422.78	0.011	6.91	176.12	106.88	0.88
Reach - 1 Upper	23000	N	PF 1	1175	5406.80	5408.97	5408.97	5409.58	0.012903	6.7	200.3	171.05	0.92
Reach - 1 Upper	22241.1	M	PF 1	1175	5397.81	5400.73		5400.98	0.002578	4.06	310.55	157.02	0.44
Reach - 1 Mid	22027.5	L	PF 1	0.01	5394.23	5394.25	5394.25	5394.25	0.008922	0.21	0.05	3.99	0.34
Reach - 1 Mid	21845.5	K	PF 1	0.01	5388.78	5388.80	5388.80	5388.80	0.005878	0.19	0.05	3.93	0.28
Reach - 1 Mid	21840	16	PF 1	612	5379.47	5381.39	5381.39	5381.97	0.015824	6.42	102.84	93.67	0.98
Reach - 1 Mid	21830	15	PF 1	612	5376.58	5378.27	5378.27	5378.89	0.014829	6.42	99.46	83.88	0.96
Reach - 1 Mid	21820	14	PF 1	612	5373.77	5375.34	5375.34	5375.82	0.015709	6.01	114.49	121.51	0.97
Reach - 1 Mid	21335.5	J	PF 1	612	5371.76	5374.00	5374.00	5374.51	0.018407	5.73	106.74	107.29	1.01
Reach - 1 Mid	21001.7	I	PF 1	612	5364.59	5366.48	5366.48	5367.17	0.015681	6.7	91.29	64.25	0.99
Split Flow	22027.5	30	PF 1	1185	5396.38	5400.45		5400.63	0.001476	3.41	352.96	140.41	0.35
Split Flow	22000	29	PF 1	1185	5396.01	5399.45	5399.36	5400.31	0.011929	7.46	160.62	89.37	0.92
Split Flow	21845.5	28	PF 1	1185	5394.97	5398.43	5398.43	5399.45	0.009996	8.4	157.06	82.34	0.89
Split Flow	21835	27	PF 1	1185	5393.04	5396.52	5396.52	5397.53	0.014438	8.05	147.26	74.97	1
Split Flow	21800	26	PF 1	603	5391.96	5393.66	5393.66	5394.18	0.018357	5.6	103.5	100.47	1
Split Flow	21770.8	25	PF 1	603	5390.99	5393.19	5393.19	5393.30	0.003057	2.73	227.62	189.16	0.43
Split Flow	21520.8	24	PF 1	603	5388.70	5390.13	5390.13	5390.49	0.020402	4.6	124.06	172.48	1
Split Flow	21335.5	23	PF 1	603	5385.84	5386.94		5387.15	0.010839	3.57	165.77	236.96	0.74
Split Flow	21325	22	PF 1	603	5382.14	5383.46	5383.46	5383.85	0.013895	5.21	127.71	177.88	0.89
Split Flow	21315	21	PF 1	603	5380.00	5381.37	5381.25	5381.73	0.012718	4.78	126.25	126.63	0.84
Split Flow	21250	20	PF 1	603	5377.21	5377.97	5377.90	5378.17	0.013486	3.07	171.42	293.61	0.77
Split Flow	21200	19	PF 1	603	5371.39	5372.76	5372.76	5373.22	0.015498	4.59	112.4	112.52	0.9
Split Flow	21194.9	18	PF 1	603	5363.70	5365.90	5365.90	5366.46	0.017547	5.97	100.96	92.13	1.01
Split Flow	21001.7	17	PF 1	603	5361.97	5363.87		5363.94	0.001612	1.56	285.58	219.73	0.29
Reach - 1 Lower	20573.7	H	PF 1	1188	5359.99	5362.14	5362.06	5362.57	0.008756	6.14	251.26	221.14	0.78
Reach - 1 Lower	20390.6	G	PF 1	1188	5358.19	5360.22	5360.11	5360.74	0.011394	6.72	212.5	162.22	0.88
Reach - 1 Lower	19770.6	F	PF 1	1188	5350.42	5352.69	5352.69	5353.28	0.012714	6.8	205.34	172.94	0.92
Reach - 1 Lower	19290.6	13	PF 1	1188	5339.91	5347.81	5342.63	5347.82	0.000048	1.09	1541.12	433.22	0.07
Reach - 1 Lower	19200			Culvert									
Reach - 1 Lower	19175.6	12	PF 1	1188	5339.91	5342.63	5342.63	5343.43	0.011745	7.38	175.52	121.26	0.91
Reach - 1 Lower	19125.5	11	PF 1	1188	5339.50	5342.15	5342.15	5342.91	0.001821	6.99	169.86	113.51	1.01
Reach - 1 Lower	19054.6	10	PF 1	1188	5335.09	5339.93	5339.93	5340.97	0.010152	8.47	156.31	81.35	0.88
Reach - 1 Lower	19003.57	9	PF 1	1188	5331.98	5338.67	5334.40	5338.71	0.000176	1.61	739.07	151.76	0.13

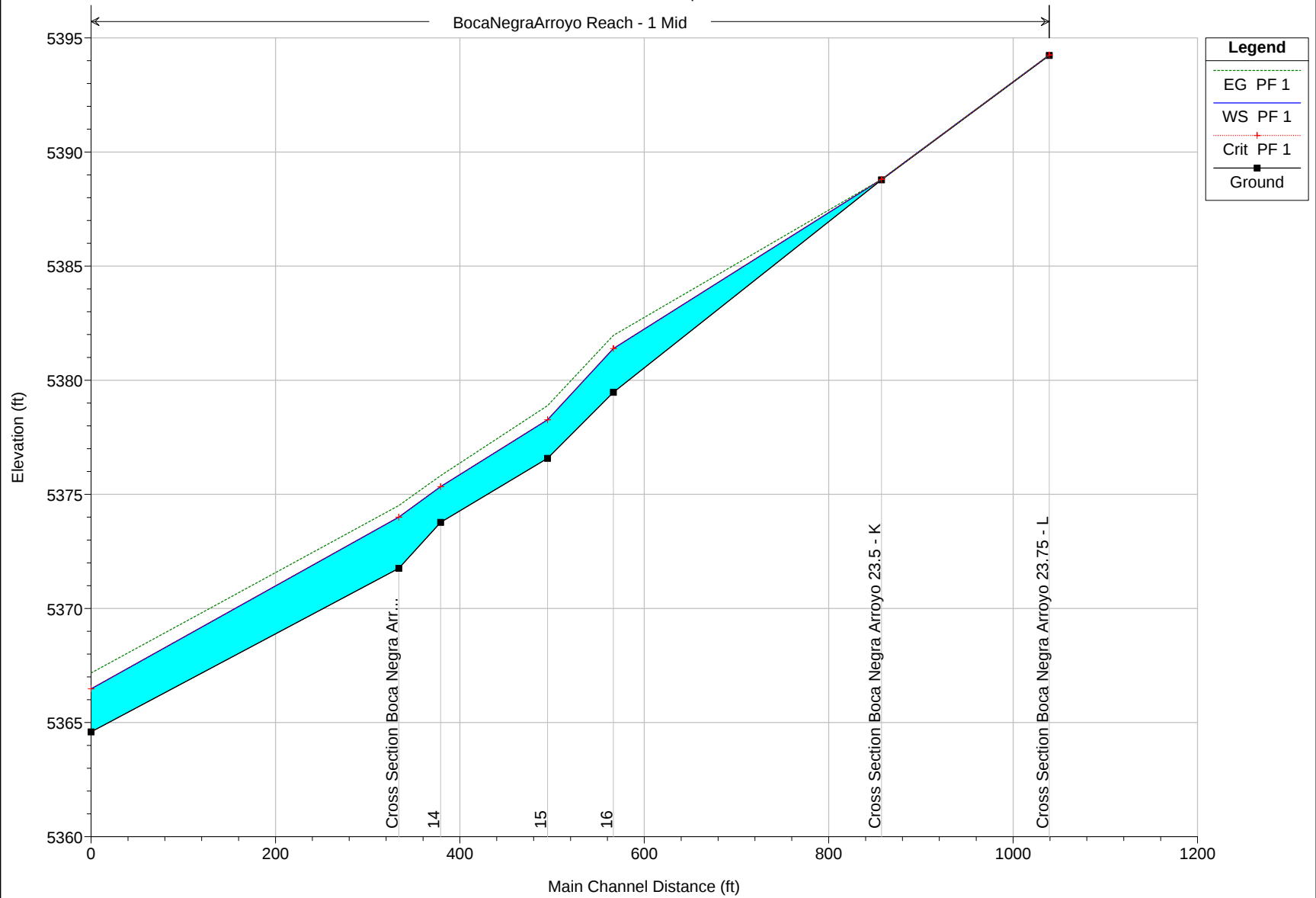
BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream



BNA Current Upstm Plan: Current Upstream 5/1/2015

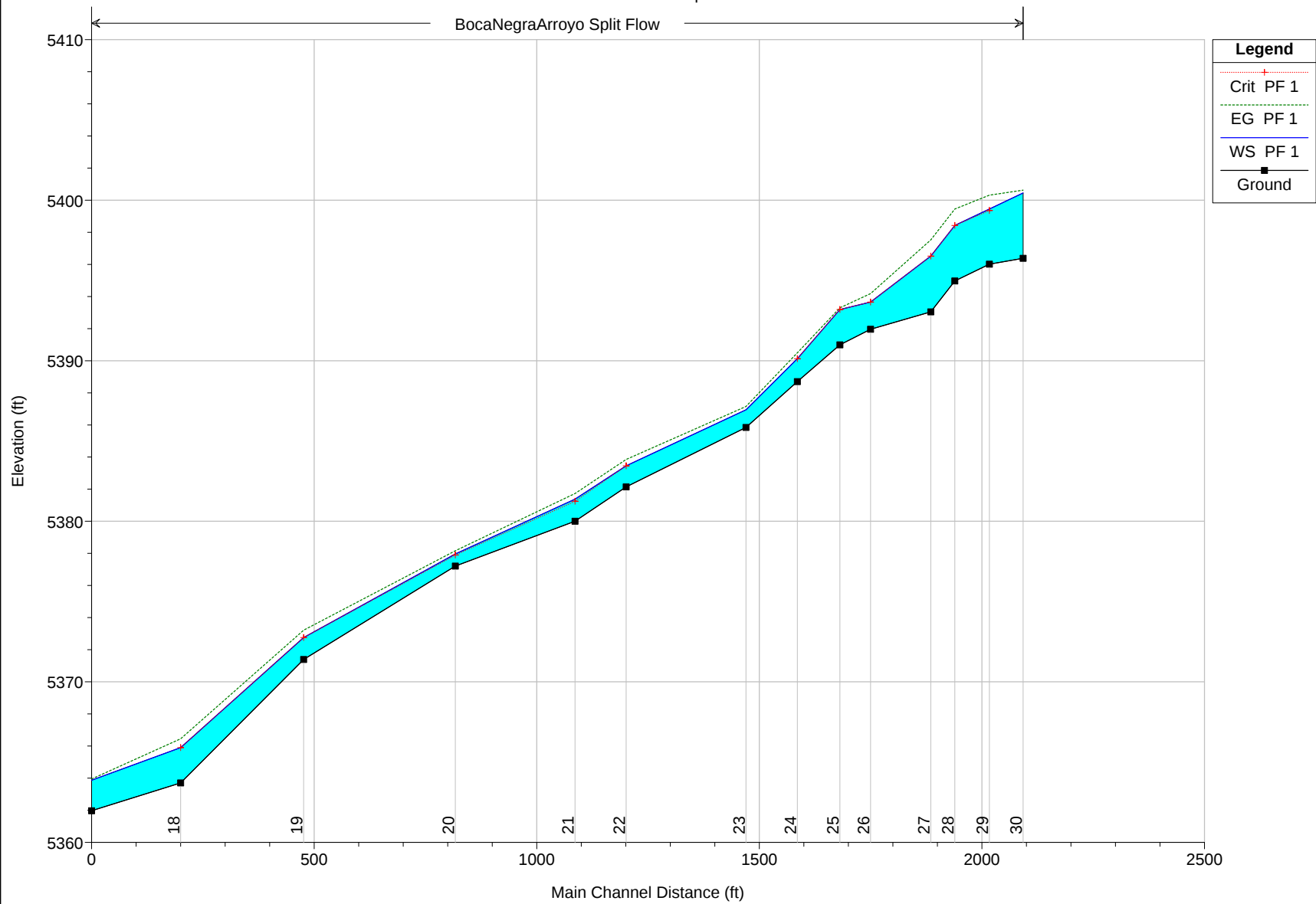
Geom: Current Upstream



BNA Current Upstm Plan: Current Upstream 5/1/2015

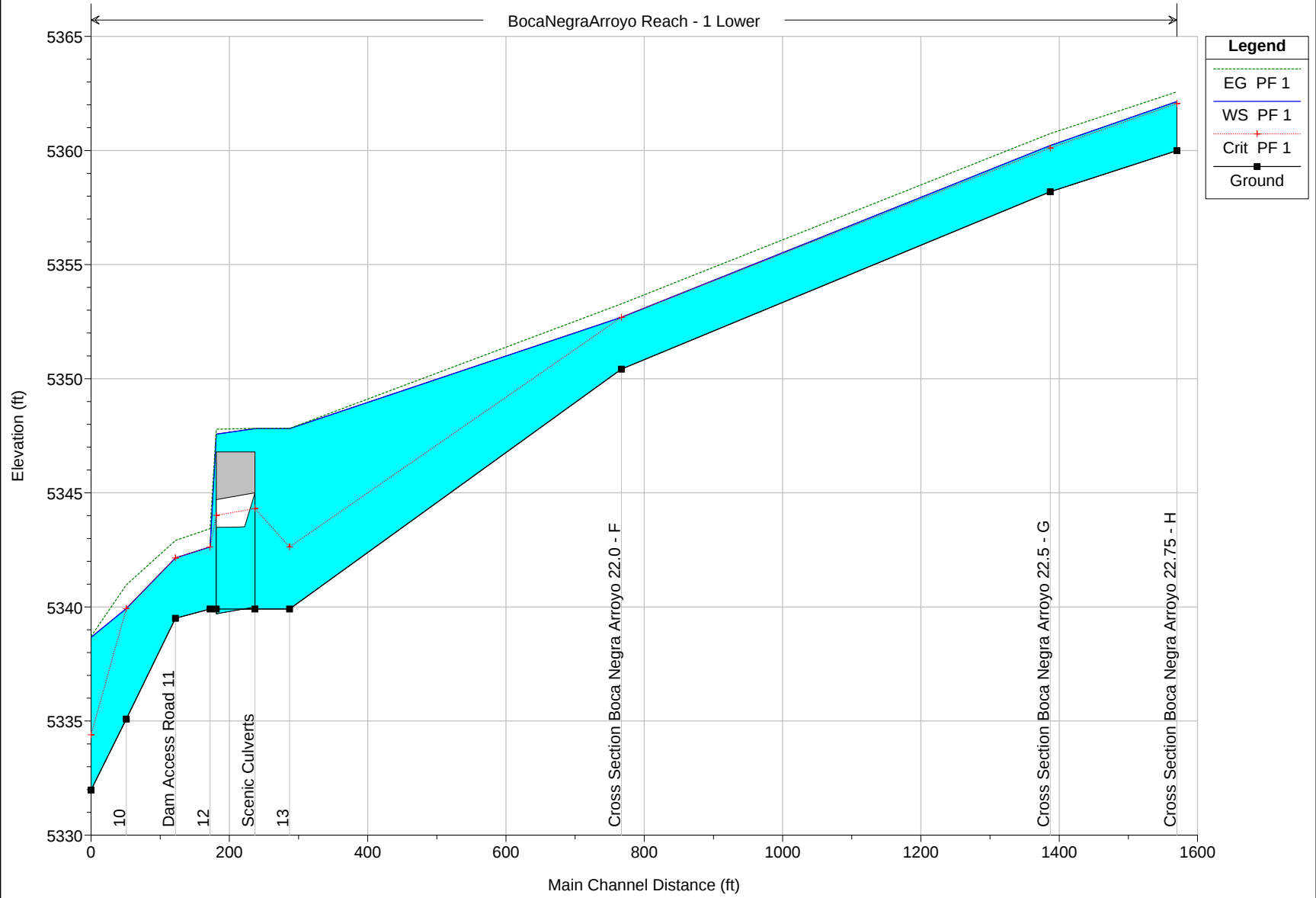
Geom: Current Upstream

BocaNegraArroyo Split Flow



BNA Current Upstm Plan: Current Upstream 5/1/2015

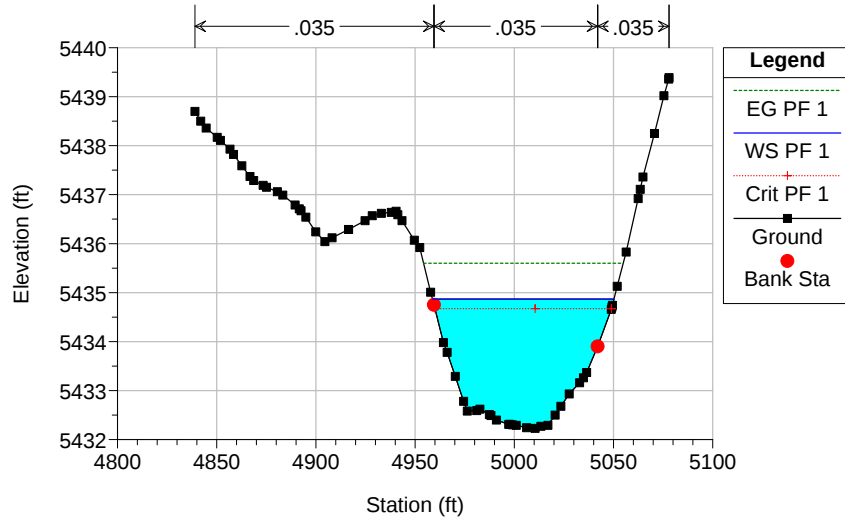
Geom: Current Upstream



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

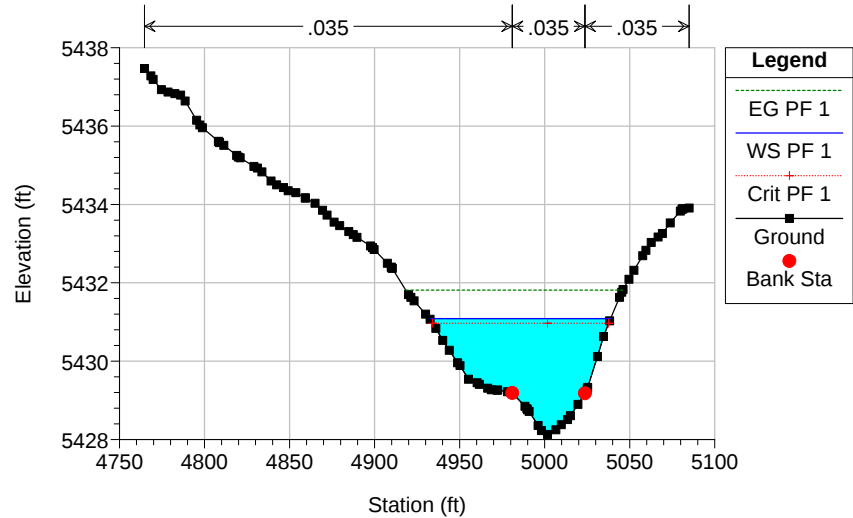
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 25374.6 Cross Section Boca Negra Arroyo 28.0 - Q



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

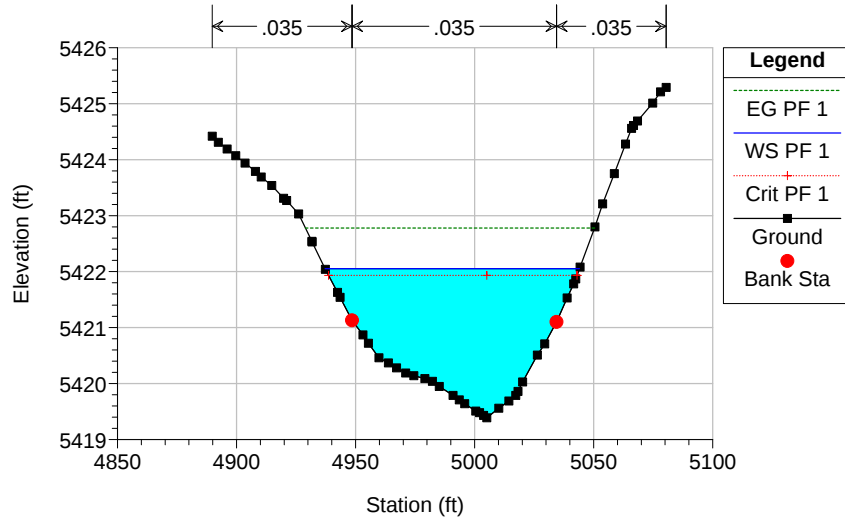
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 24989.3 Cross Section Boca Negra Arroyo 27.0 - P



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

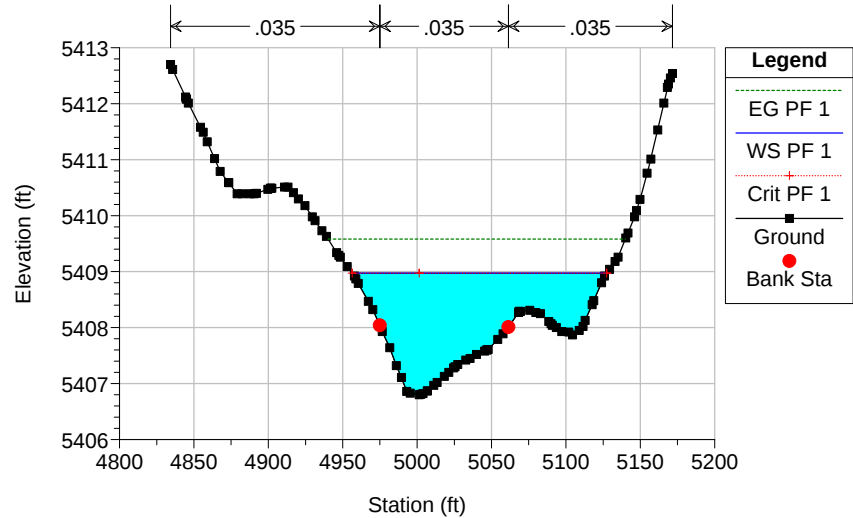
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 24106.4 Cross Section Boca Negra Arroyo 26.0 - O



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

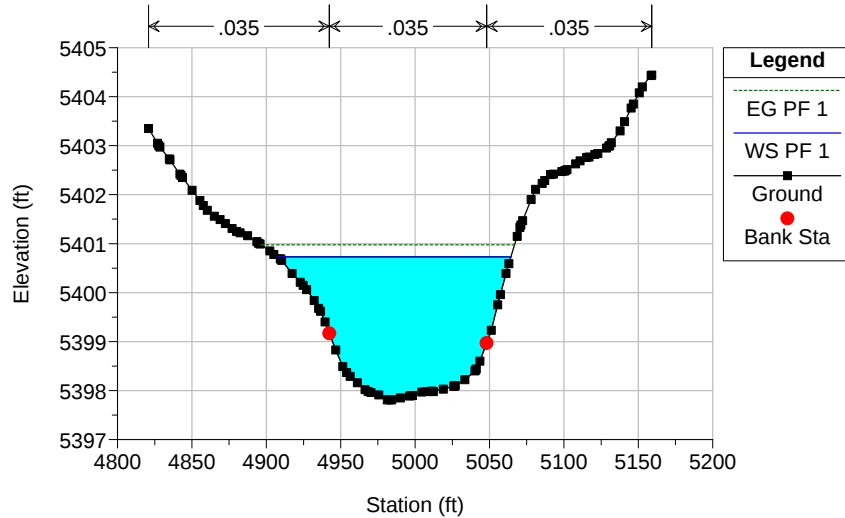
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 23000.0 Cross Section Boca Negra Arroyo 25.0 - N



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

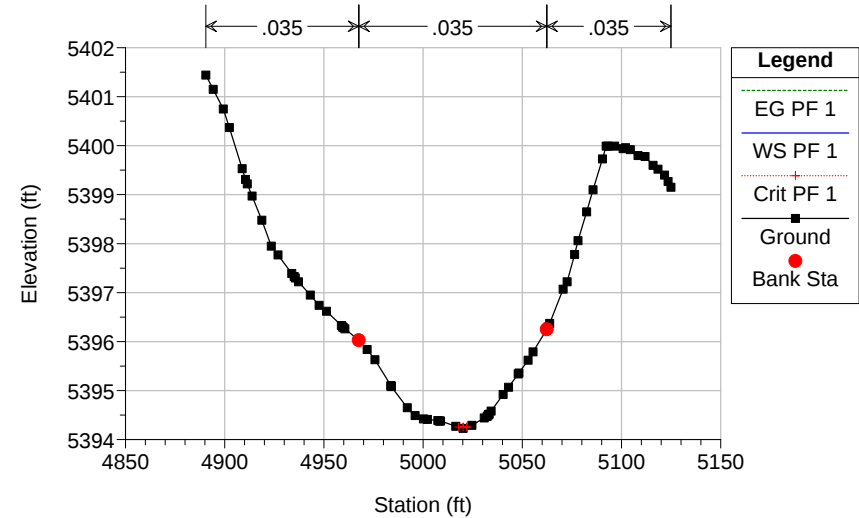
River = BocaNegraArroyo Reach = Reach - 1 Upper RS = 22241.1 Cross Section Boca Negra Arroyo 24.0 - M



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

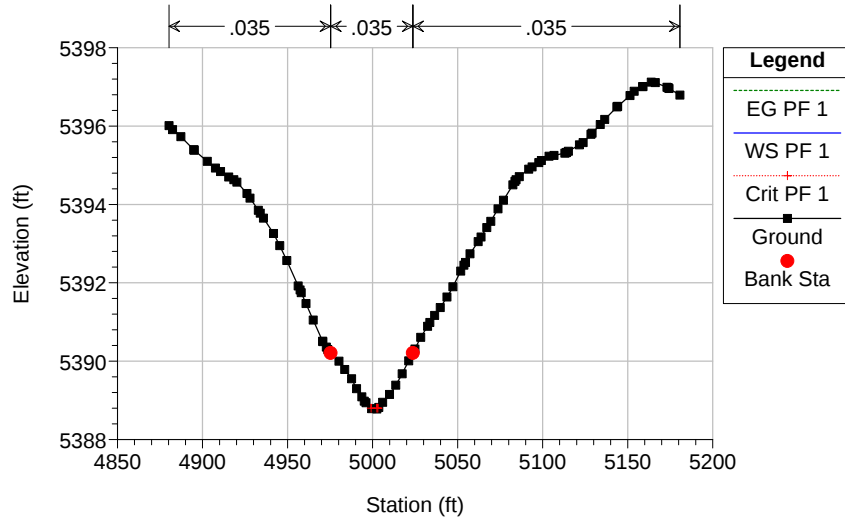
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 22027.5 Cross Section Boca Negra Arroyo 23.75 - L



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

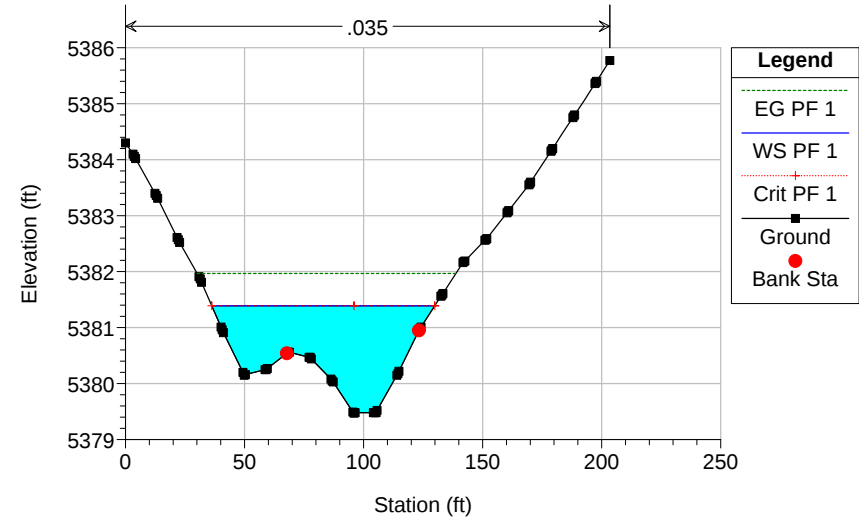
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21845.5 Cross Section Boca Negra Arroyo 23.5 - K



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

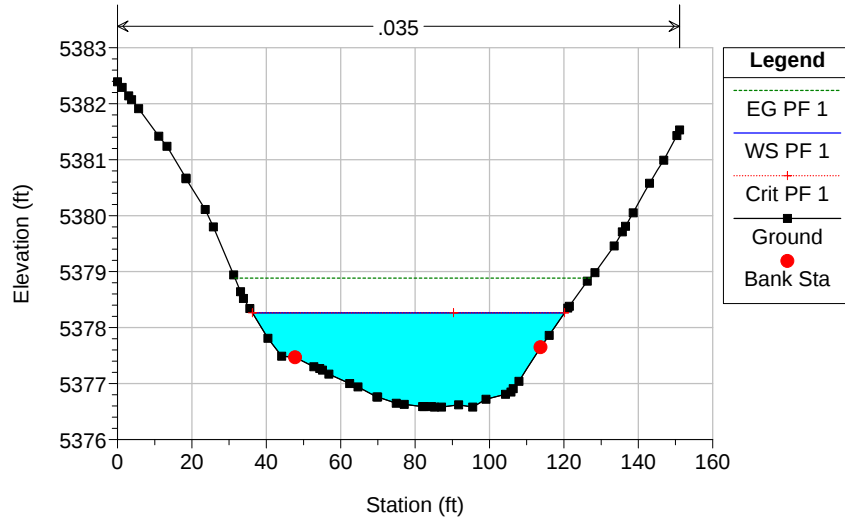
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21840 16



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

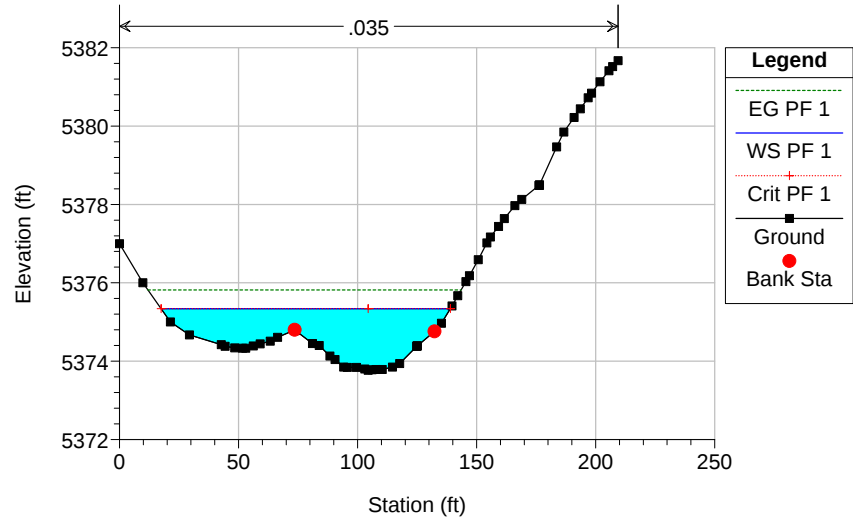
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21830 15



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

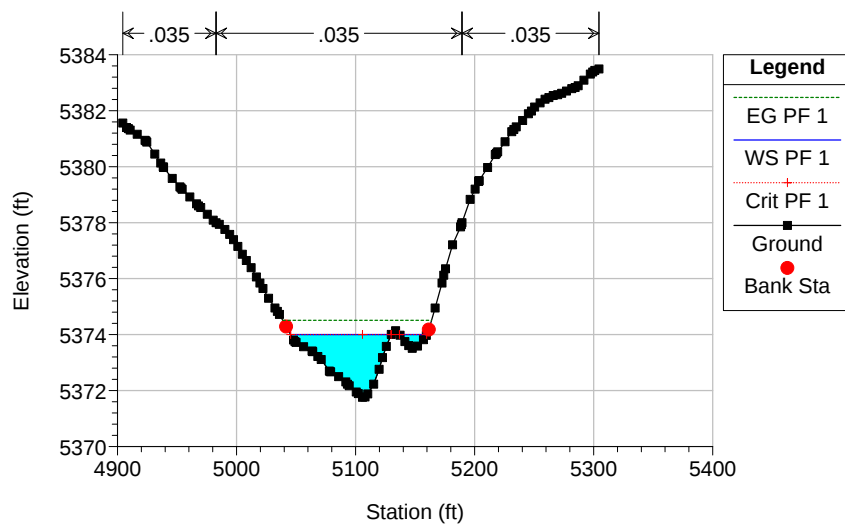
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21820 14



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

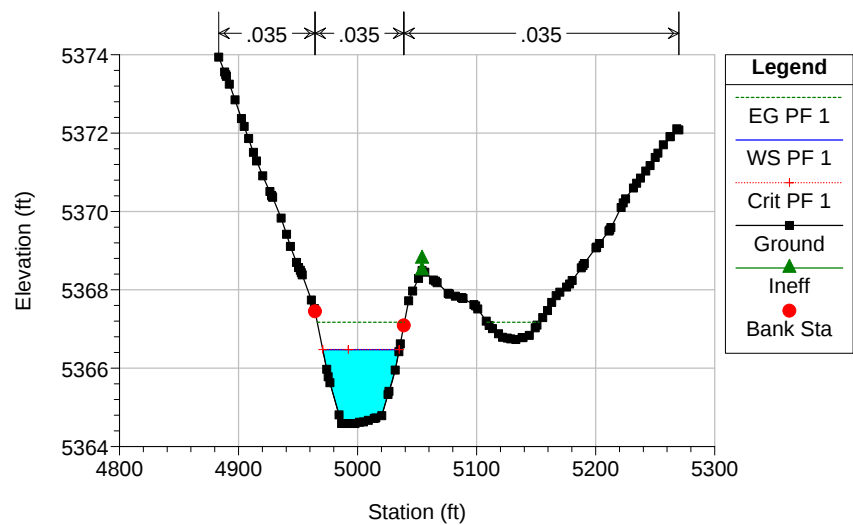
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21335.5 Cross Section Boca Negra Arroyo 23.25 - J



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

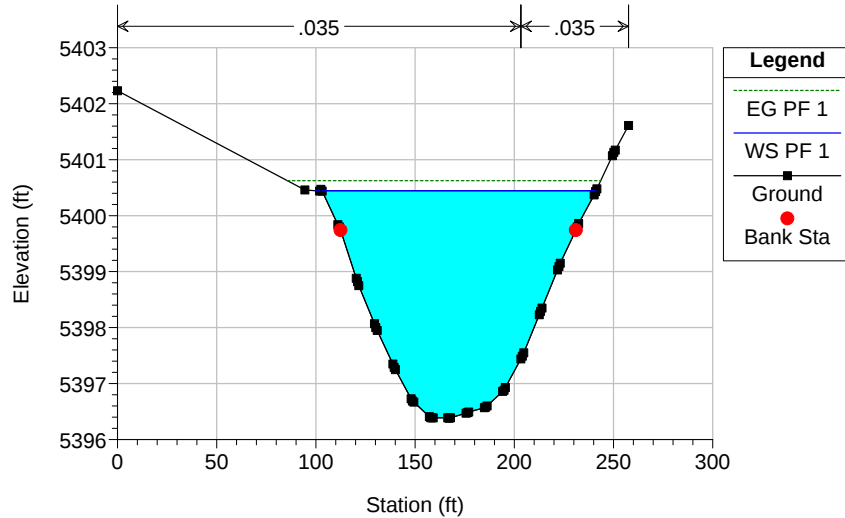
River = BocaNegraArroyo Reach = Reach - 1 Mid RS = 21001.7 Cross Section Boca Negra Arroyo 23.0 - I



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

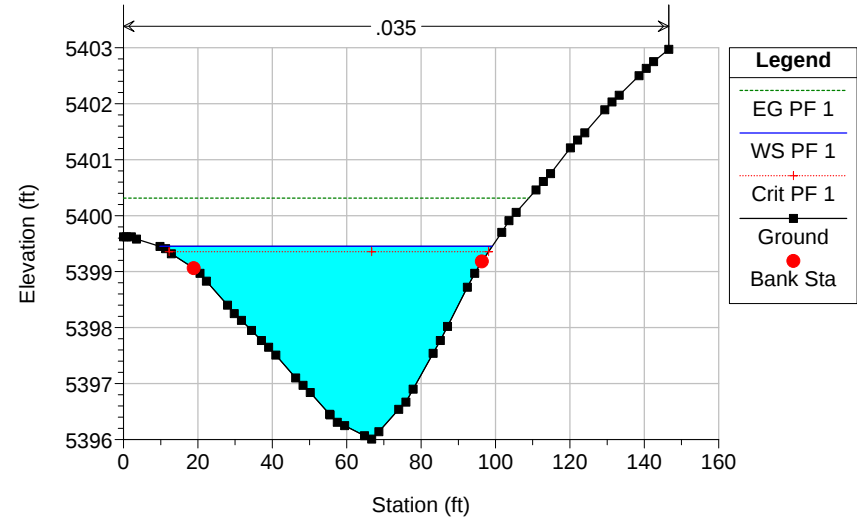
River = BocaNegraArroyo Reach = Split Flow RS = 22027.5 30



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

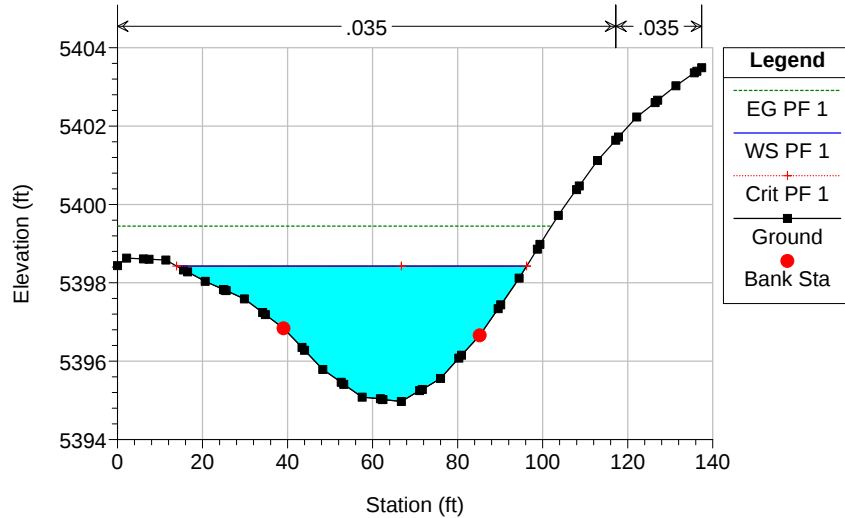
River = BocaNegraArroyo Reach = Split Flow RS = 22000 29



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

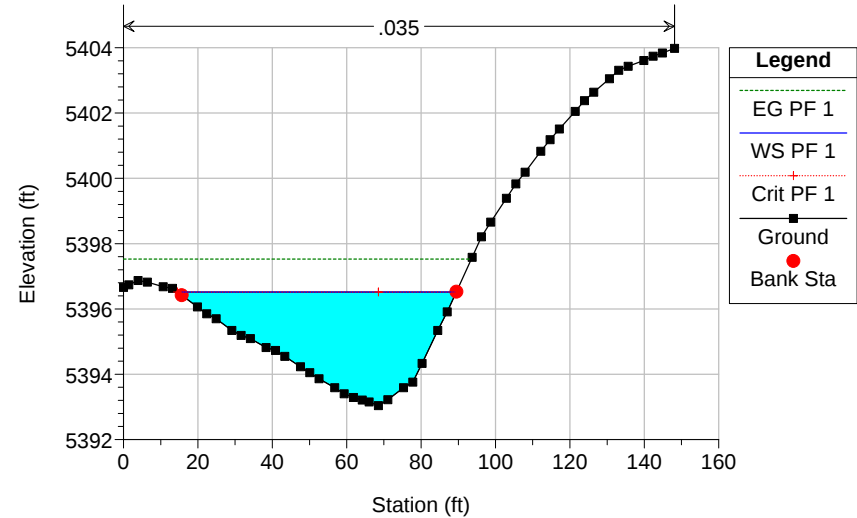
River = BocaNegraArroyo Reach = Split Flow RS = 21840 28



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

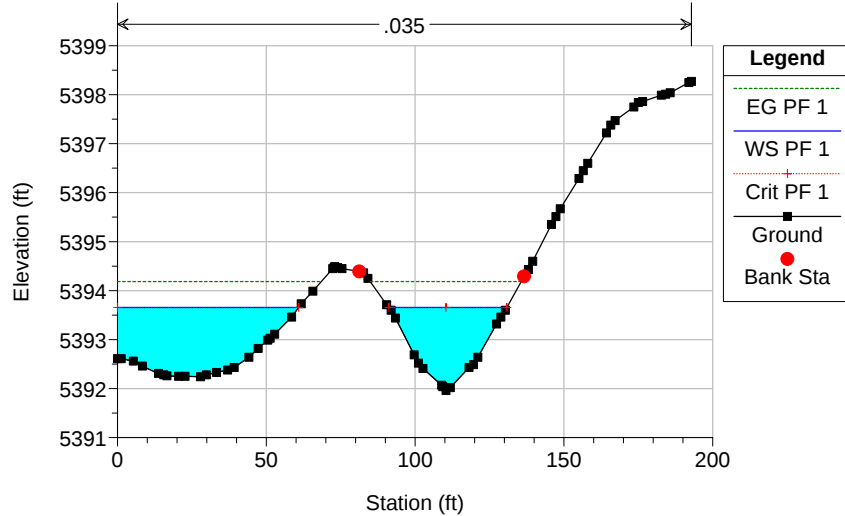
River = BocaNegraArroyo Reach = Split Flow RS = 21835 27



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

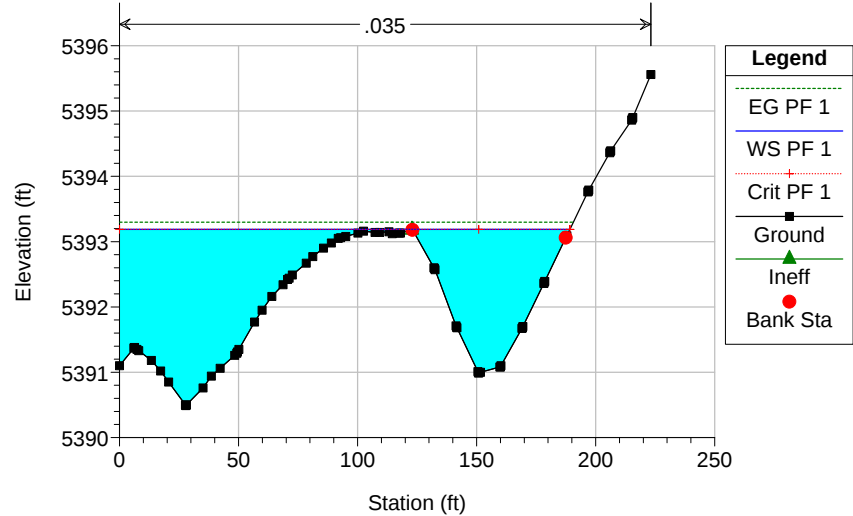
River = BocaNegraArroyo Reach = Split Flow RS = 21800 26



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

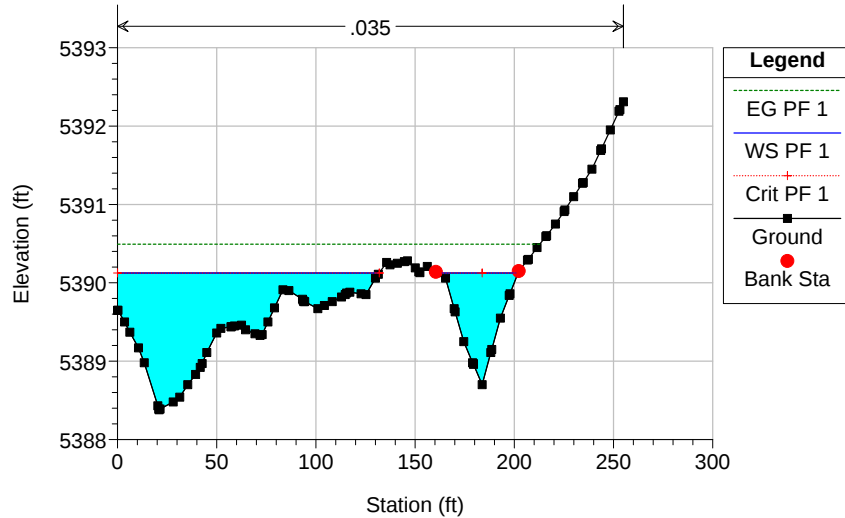
River = BocaNegraArroyo Reach = Split Flow RS = 21770.8 25



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

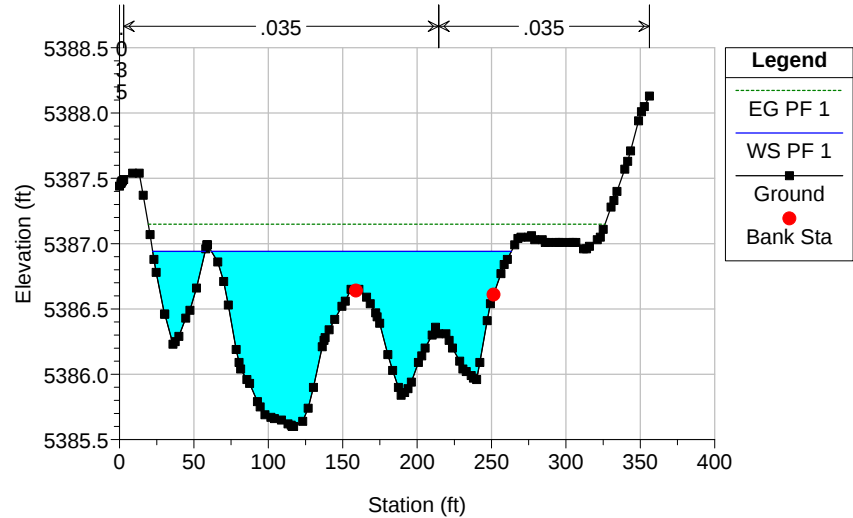
River = BocaNegraArroyo Reach = Split Flow RS = 21520.8 24



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

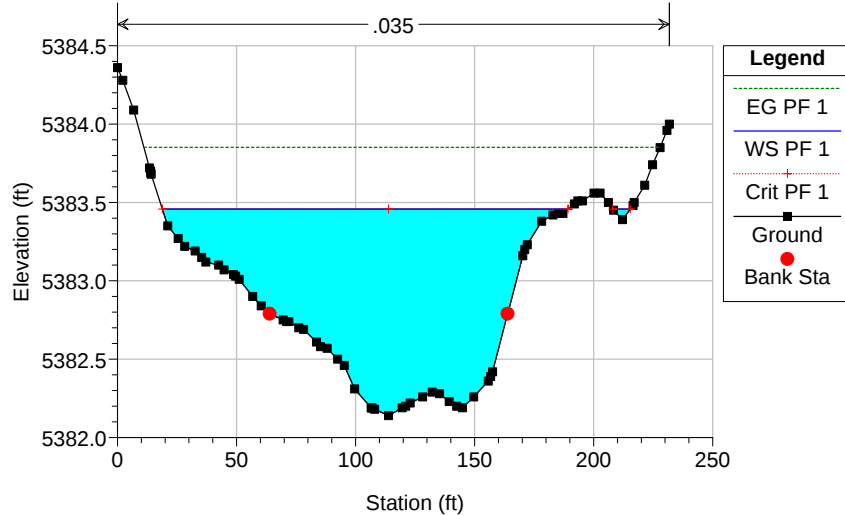
River = BocaNegraArroyo Reach = Split Flow RS = 21335.5 23



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

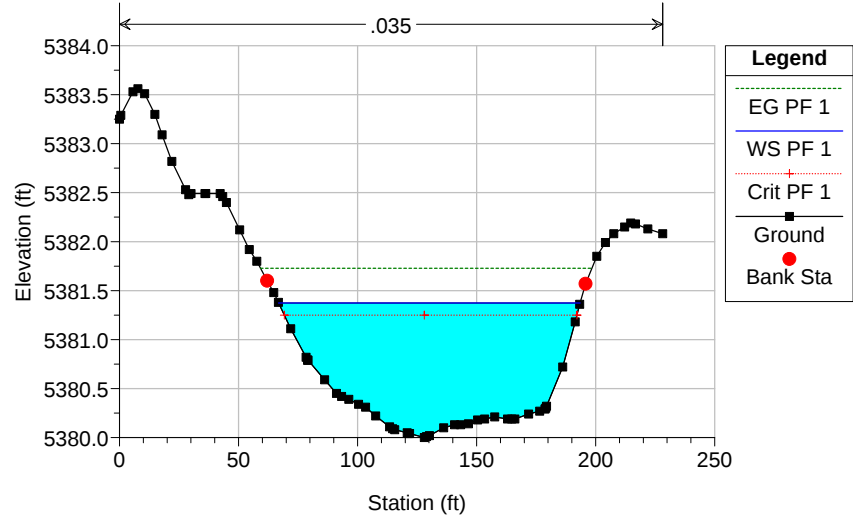
River = BocaNegraArroyo Reach = Split Flow RS = 21325 22



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

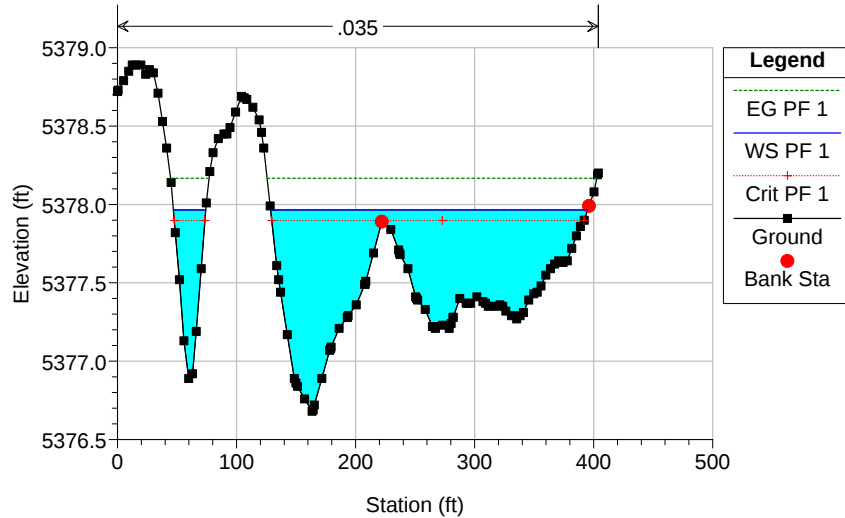
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BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

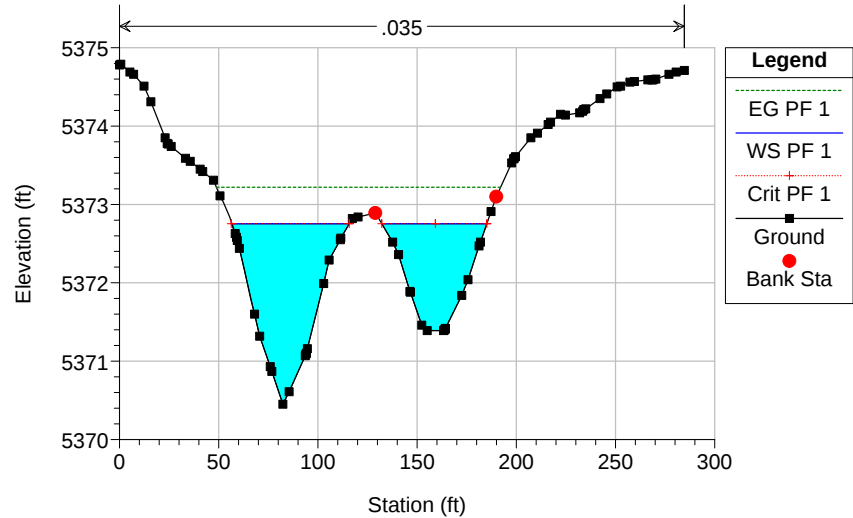
River = BocaNegraArroyo Reach = Split Flow RS = 21250 20



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

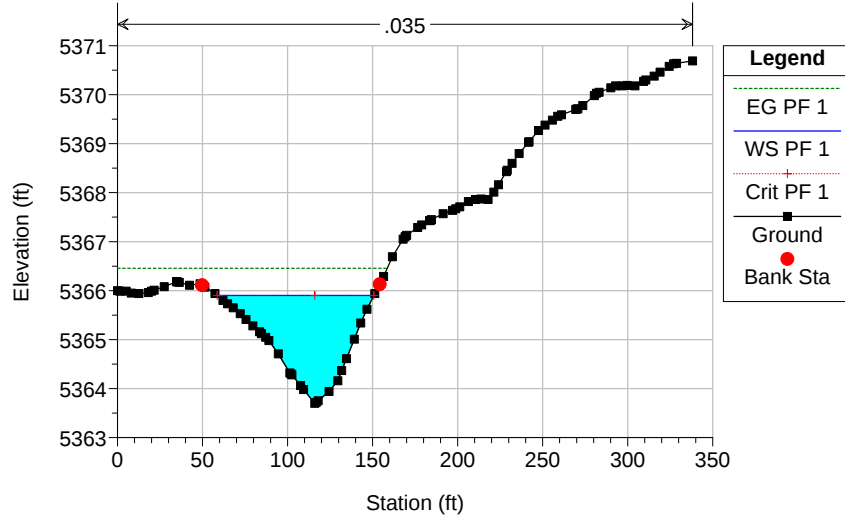
River = BocaNegraArroyo Reach = Split Flow RS = 21200 19



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

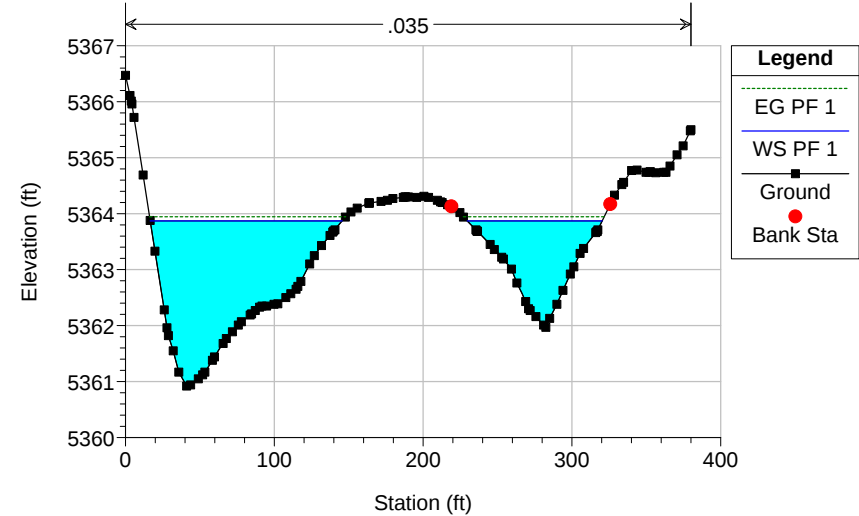
River = BocaNegraArroyo Reach = Split Flow RS = 21194.9 18



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

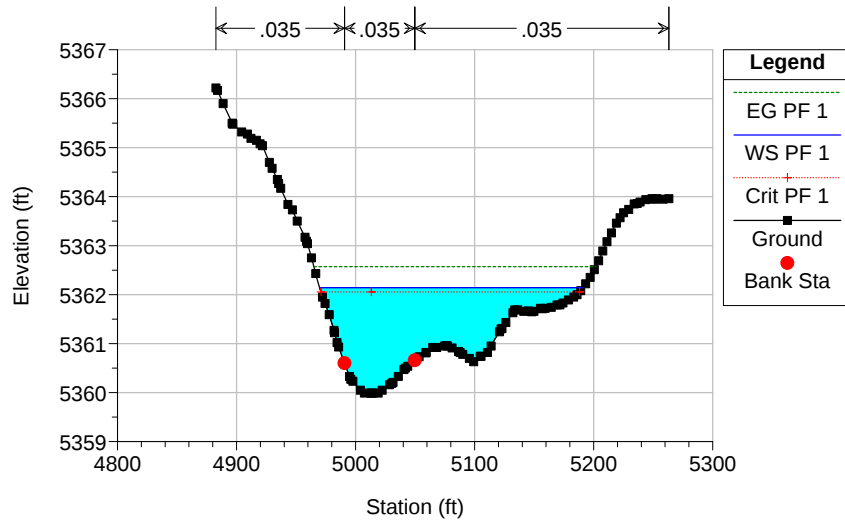
River = BocaNegraArroyo Reach = Split Flow RS = 21001.7 17



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

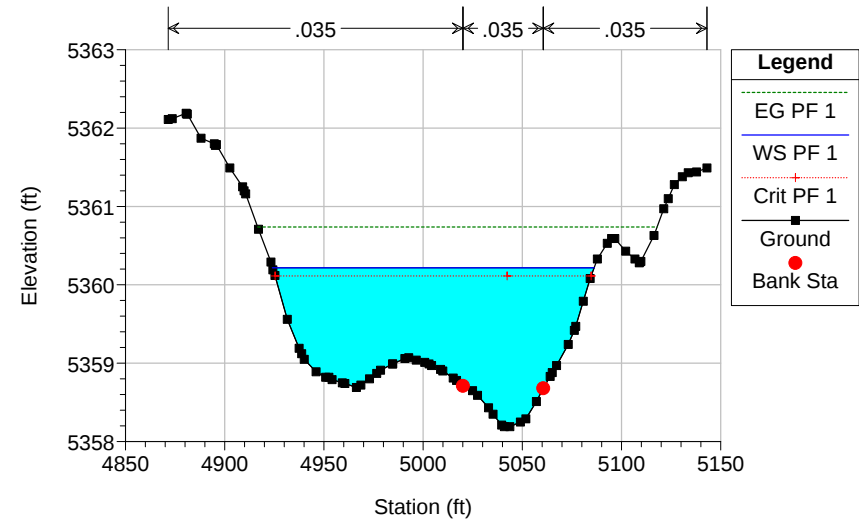
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 20573.7 Cross Section Boca Negra Arroyo 22.75 - H



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

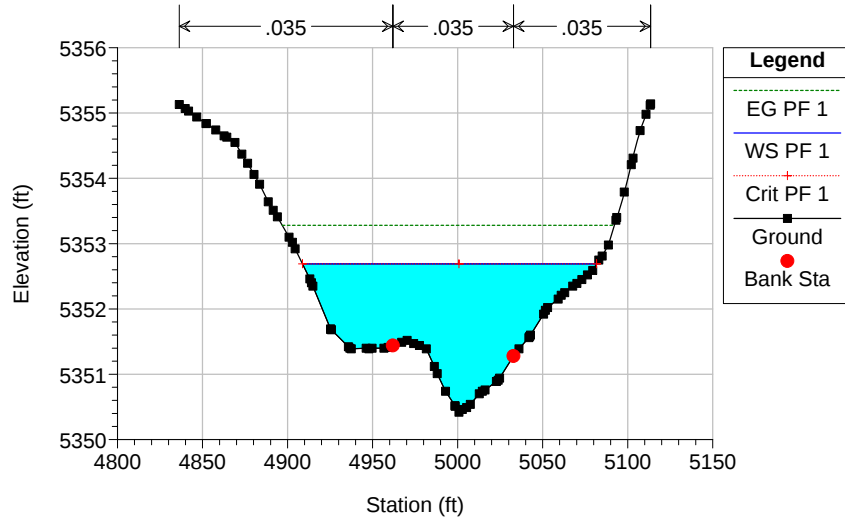
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 20390.6 Cross Section Boca Negra Arroyo 22.5 - G



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

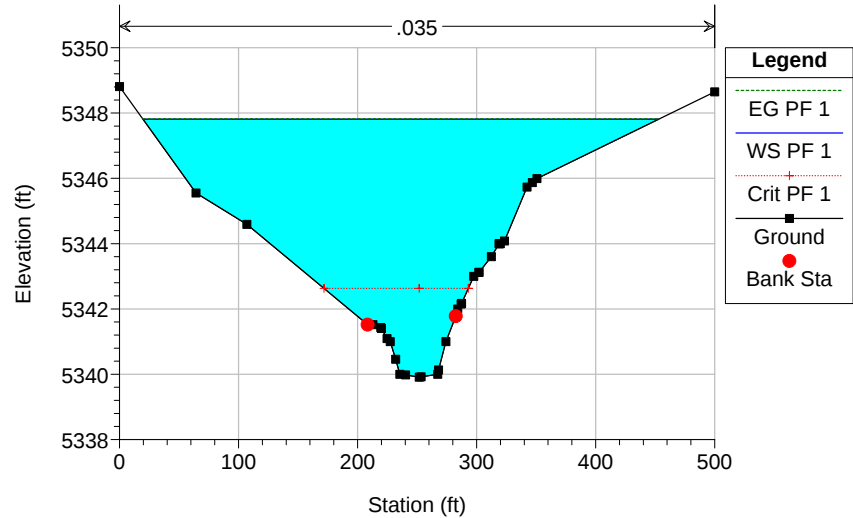
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19770.6 Cross Section Boca Negra Arroyo 22.0 - F



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

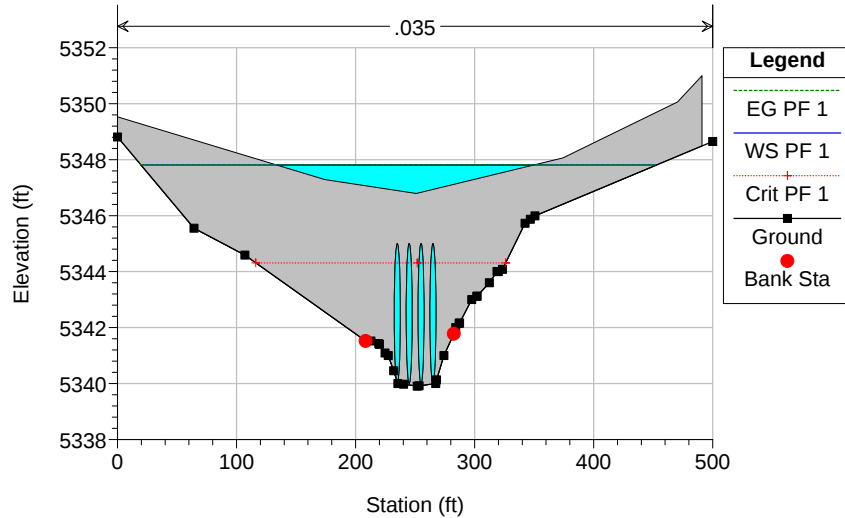
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19290.6 13



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

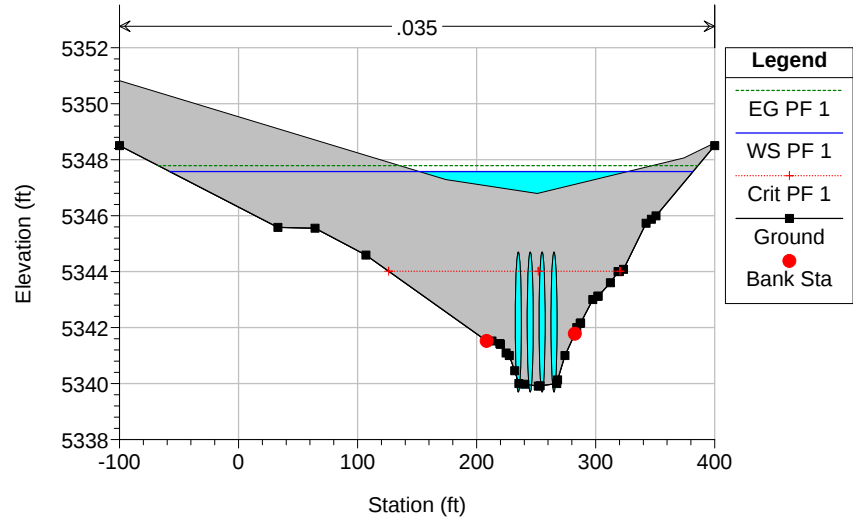
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19200 Culv Scenic Culverts



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

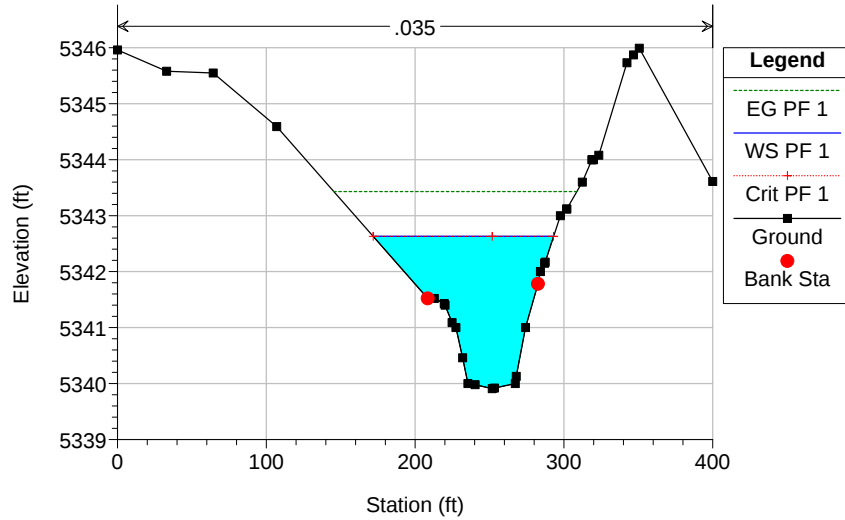
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19200 Culv Scenic Culverts



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

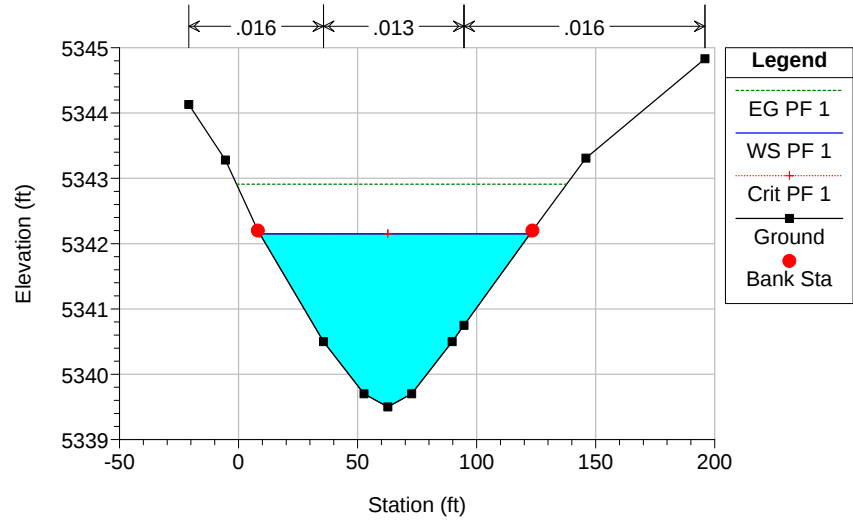
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19175.6 12



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

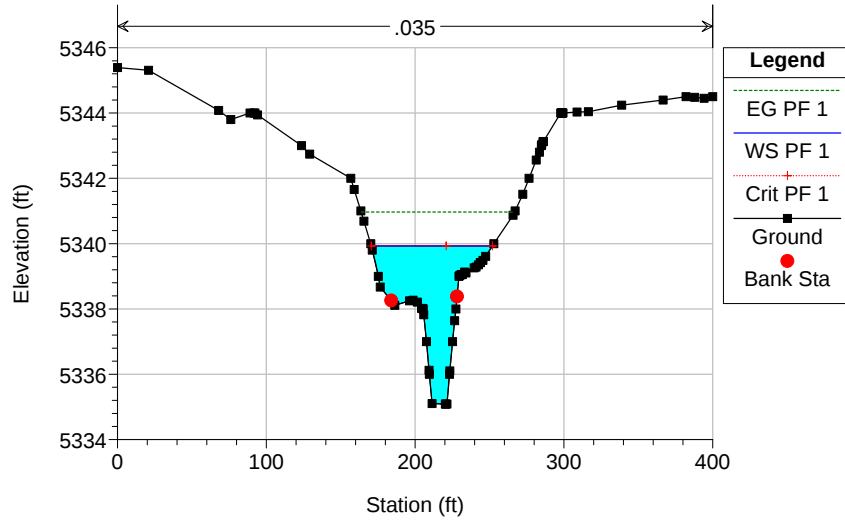
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19125.5 Dam Access Road 11



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

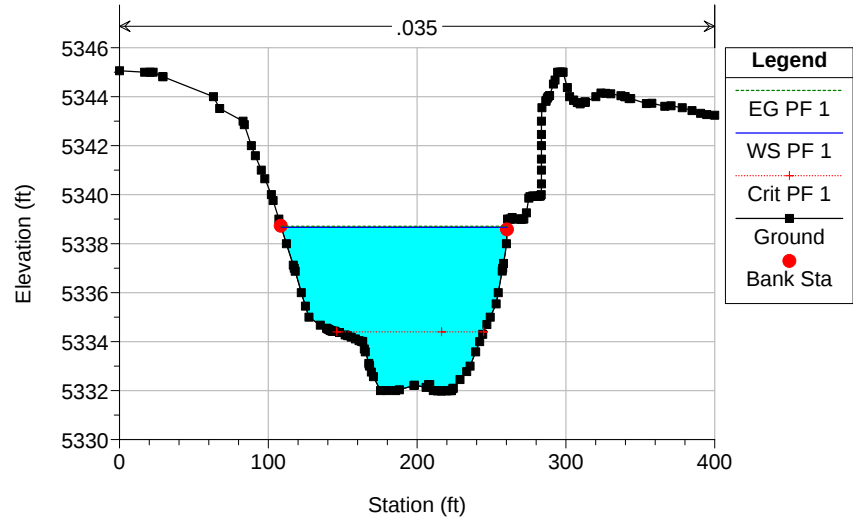
River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19054.6 10



BNA Current Upstm Plan: Current Upstream 5/1/2015

Geom: Current Upstream

River = BocaNegraArroyo Reach = Reach - 1 Lower RS = 19003.57 9



Current Downstream Model

Summary

Profile

Cross Sections

Hydraulics Model – HEC-RAS Analysis (CD)

Current Downstream Files

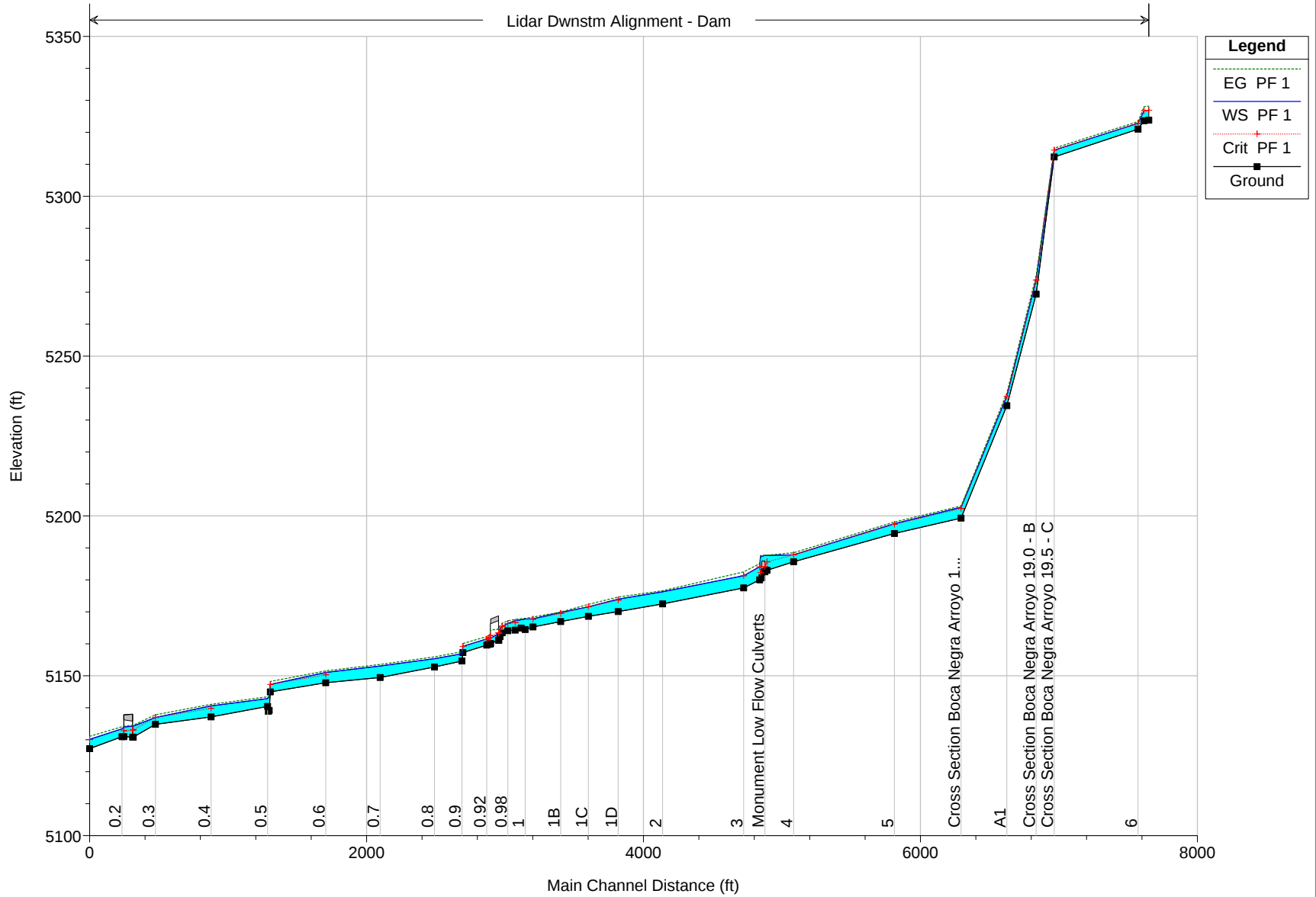
i.Project:	Boca Negra Arroyo– Current Downstream BNADwstn-.prj	
ii.Plan:	Current Downstream 2015	BNADwstn-.p10
iii.Geometry:	Current Downstream 2015	BNADwstn-.g07
iv.Flow:	Updated 2015 - Downstream	BNADwstn-.f07

Boca Negra Arroyo - Current Downstream Model

Reach	River Sta	Cross Section	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Alignment - Dam	18022.9	8	PF 1	695	5323.80	5326.91	5326.91	5328.20	0.002278	9.10	76.37	29.99	1.00
Alignment - Dam	17987.1	7	PF 1	695	5323.62	5326.74	5326.74	5328.02	0.002254	9.07	76.64	29.99	1.00
Alignment - Dam	17735.62	6	PF 1	695	5321.00	5322.81	5322.79	5323.34	0.016567	5.83	119.27	108.22	0.98
Alignment - Dam	17129.8	C	PF 1	695	5312.30	5314.43	5314.43	5315.05	0.011505	6.70	119.60	100.14	0.88
Alignment - Dam	17000	B	PF 1	695	5269.36	5273.82	5273.82	5275.19	0.02867	9.36	74.22	27.59	1.01
Alignment - Dam	16550	A1	PF 1	695	5234.48	5237.45	5237.45	5238.48	0.014622	8.12	85.55	42.35	1.01
Alignment - Dam	16457	A	PF 1	695	5199.33	5202.71	5202.32	5203.11	0.0089	5.10	136.33	94.36	0.75
Alignment - Dam	15976	5	PF 1	695	5194.51	5197.56	5197.40	5198.12	0.012124	6.03	115.21	78.18	0.88
Alignment - Dam	15247.7	4	PF 1	695	5185.66	5187.85	5187.85	5188.49	0.014488	6.44	111.57	95.01	0.95
Alignment - Dam	15100	3B	PF 1	695	5183.00	5187.66	5185.64	5187.72	0.000487	2.07	395.10	207.98	0.20
Alignment - Dam	15090			Culvert									
Alignment - Dam	15080	3A	PF 1	695	5180.00	5184.11	5184.11	5185.11	0.010626	8.09	91.42	59.42	0.88
Alignment - Dam	14886.4	3	PF 1	1110	5177.49	5181.32	5181.32	5182.51	0.013818	8.74	127.00	54.13	1.01
Alignment - Dam	14300.75	2	PF 1	1147	5172.48	5176.26		5176.61	0.004246	4.71	243.50	109.21	0.56
Alignment - Dam	14200	1D	PF 1	1147	5170.08	5173.99	5173.69	5174.63	0.009301	6.42	180.80	112.12	0.81
Alignment - Dam	14100.75	1C	PF 1	1149	5168.60	5171.59	5171.59	5172.33	0.01233	6.96	171.35	183.18	0.91
Alignment - Dam	13900.75	1B	PF 1	1149	5166.95	5169.84	5169.49	5169.98	0.005603	3.07	374.57	394.73	0.55
Alignment - Dam	13700.75	1A	PF 1	1149	5165.29	5167.85	5167.70	5168.39	0.011479	5.89	195.11	132.31	0.85
Alignment - Dam	13150.55	1	PF 1	1149	5164.49	5167.76		5167.98	0.003175	4.89	332.41	202.42	0.50
Alignment - Dam	13150.54	0.995	PF 1	1149	5164.94	5167.53		5167.86	0.004375	4.71	264.19	162.93	0.56
Alignment - Dam	13150	0.99	PF 1	1149	5164.30	5167.26	5166.66	5167.65	0.004857	5.70	248.10	156.53	0.61
Alignment - Dam	13149.5	0.98	PF 1	1149	5164.10	5166.34	5166.34	5167.18	0.015442	7.37	155.85	94.06	1.01
Alignment - Dam	13149	0.97	PF 1	1149	5163.46	5165.51	5165.51	5166.46	0.002074	7.83	146.83	78.74	1.01
Alignment - Dam	13148.5	0.96	PF 1	1149	5162.28	5164.45	5164.45	5165.42	0.002043	7.89	145.63	76.19	1.01
Alignment - Dam	13148	0.95	PF 1	1149	5161.09	5164.71	5163.32	5165.08	0.000392	4.86	236.28	69.06	0.46
Alignment - Dam	13146			Culvert									
Alignment - Dam	13145	0.94	PF 1	1149	5159.94	5162.04	5162.04	5163.04	0.002115	8.01	143.36	72.47	1.00
Alignment - Dam	13144	0.93	PF 1	1149	5159.86	5161.76	5161.76	5162.66	0.013428	7.64	150.40	84.08	1.01
Alignment - Dam	13143	0.92	PF 1	1149	5159.58	5161.55	5161.39	5162.26	0.010417	6.77	169.81	92.87	0.88
Alignment - Dam	13140	0.91	PF 1	1149	5157.25	5159.20	5159.20	5160.09	0.015214	7.59	151.42	85.86	1.01
Alignment - Dam	13135	0.9	PF 1	1149	5154.62	5156.87		5157.53	0.009152	6.52	176.14	84.92	0.80
Alignment - Dam	13130	0.8	PF 1	1149	5152.76	5155.35		5155.92	0.006995	6.05	189.82	84.40	0.71
Alignment - Dam	13120	0.7	PF 1	1149	5149.46	5153.08		5153.55	0.005177	5.50	208.74	85.59	0.62
Alignment - Dam	13110	0.6	PF 1	1150	5147.82	5151.04	5150.30	5151.52	0.005113	5.57	206.65	82.32	0.62
Alignment - Dam	13100	0.53	PF 1	1150	5144.96	5147.29	5147.29	5148.20	0.015146	7.64	150.53	84.64	1.01
Alignment - Dam	13095	0.52	PF 1	1150	5139.15	5143.24		5143.55	0.002315	4.47	257.19	77.67	0.43
Alignment - Dam	13093	0.51	PF 1	1150	5138.89	5143.32		5143.50	0.00112	3.45	333.73	85.64	0.31
Alignment - Dam	13090	0.5	PF 1	1150	5140.41	5142.88		5143.45	0.006877	6.06	189.69	82.43	0.70
Alignment - Dam	13080	0.4	PF 1	1150	5137.16	5140.60	5139.82	5141.06	0.004903	5.47	210.07	83.28	0.61
Alignment - Dam	13070	0.3	PF 1	1151	5134.83	5136.95	5136.95	5137.81	0.015264	7.45	154.42	90.61	1.01
Alignment - Dam	13060	0.21	PF 1	1151	5130.80	5134.23	5133.09	5134.53	0.003762	4.42	260.22	95.17	0.47
Alignment - Dam	13055			Bridge									
Alignment - Dam	13050	0.2	PF 1	1151	5130.97	5133.39		5134.05	0.012033	6.54	176.12	85.99	0.80
Alignment - Dam	13040	0.1	PF 1	1151	5127.23	5130.11	5130.03	5131.09	0.013003	7.95	144.84	68.16	0.96

Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

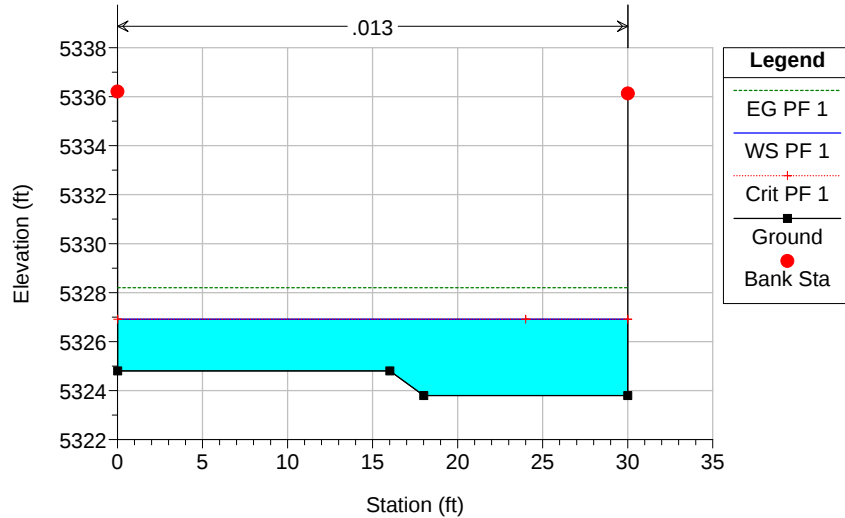
Geom: Current Downstream



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

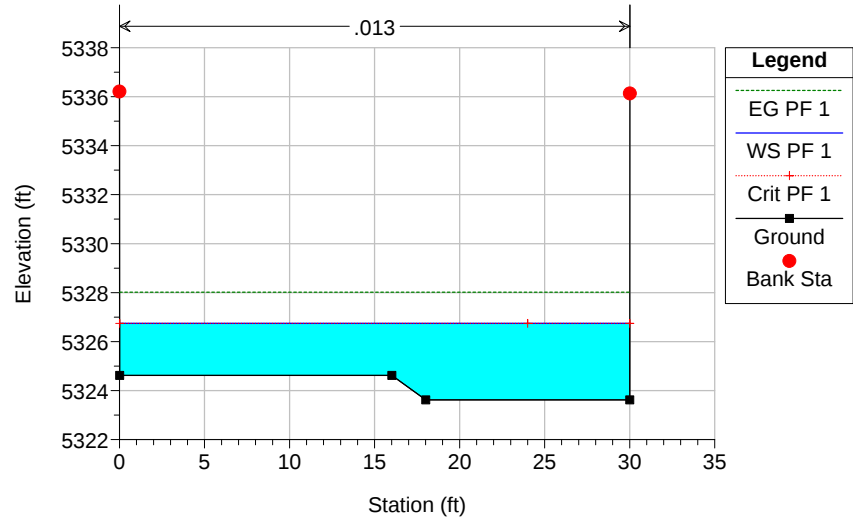
River = Lidar Dwnstm Reach = Alignment - Dam RS = 18022.9 8



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

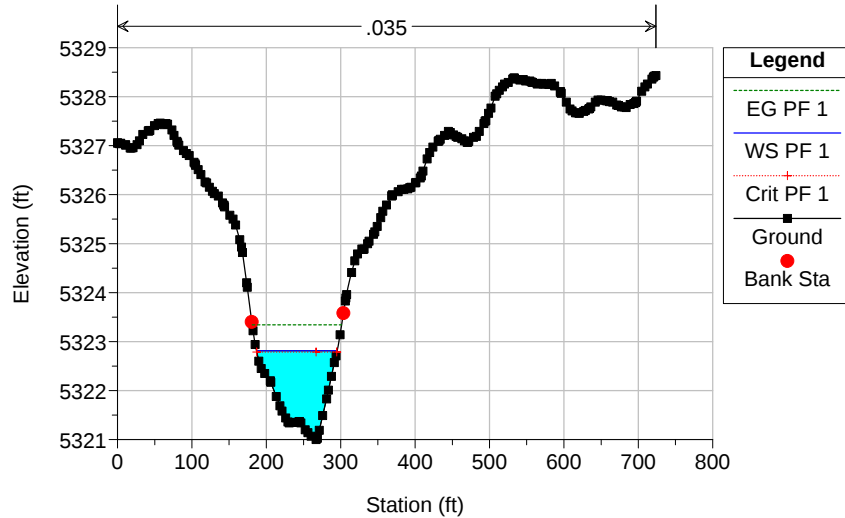
River = Lidar Dwnstm Reach = Alignment - Dam RS = 17987.1 7



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

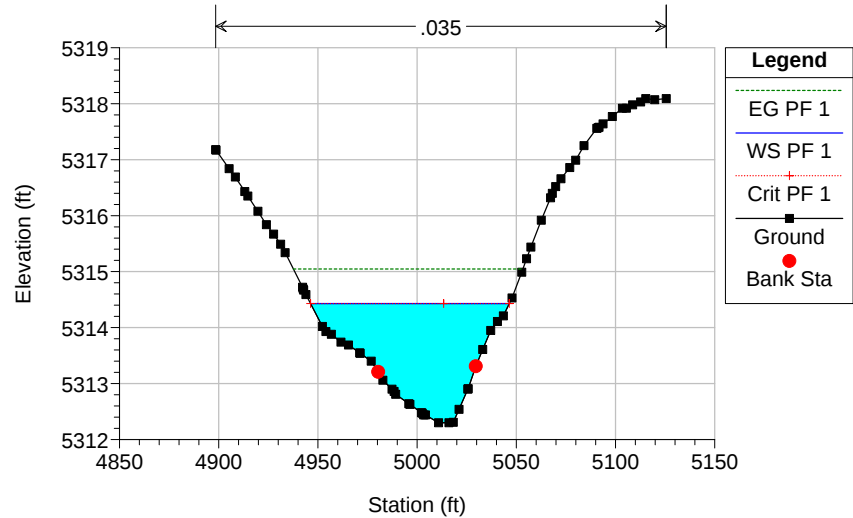
River = Lidar Dwnstm Reach = Alignment - Dam RS = 17735.62 6



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

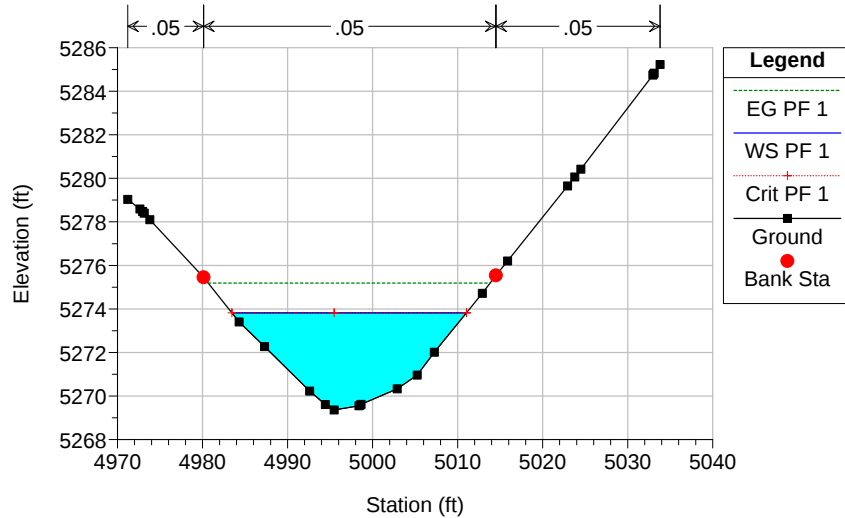
River = Lidar Dwnstm Reach = Alignment - Dam RS = 17129.8 Cross Section Boca Negra Arroyo 19.5 - C



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

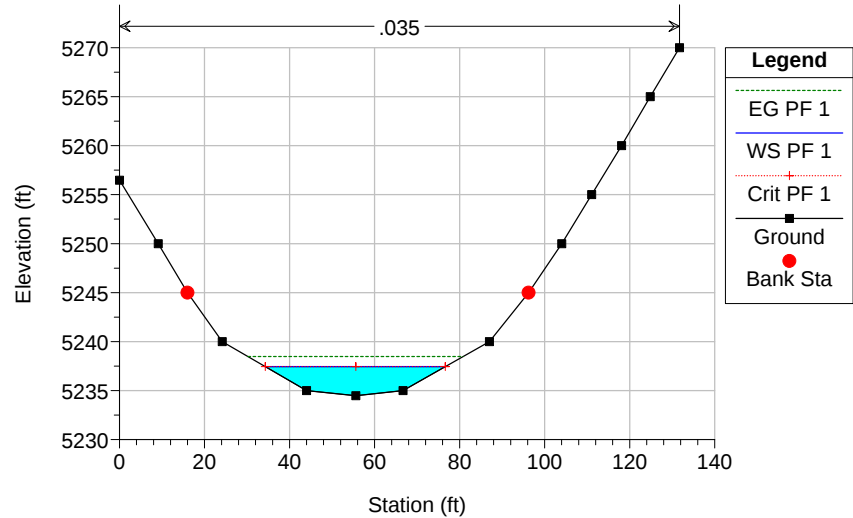
River = Lidar Dwnstm Reach = Alignment - Dam RS = 17000.0 Cross Section Boca Negra Arroyo 19.0 - B



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

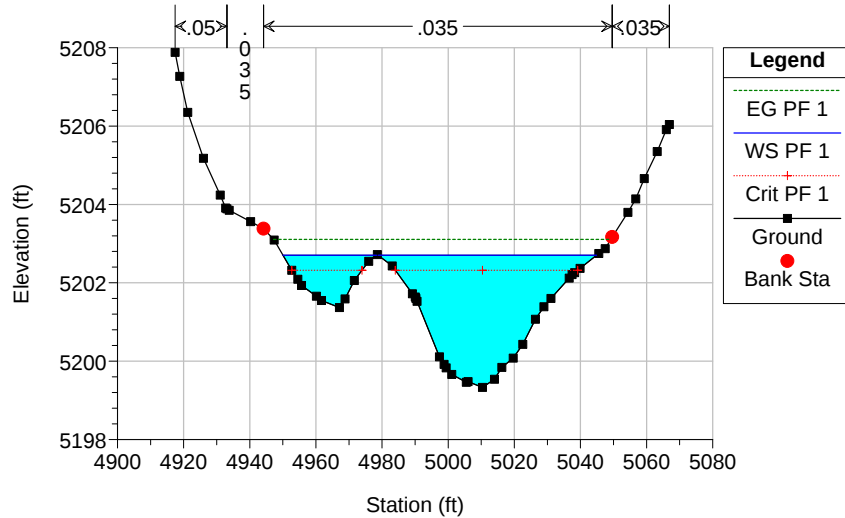
River = Lidar Dwnstm Reach = Alignment - Dam RS = 16550 A1



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

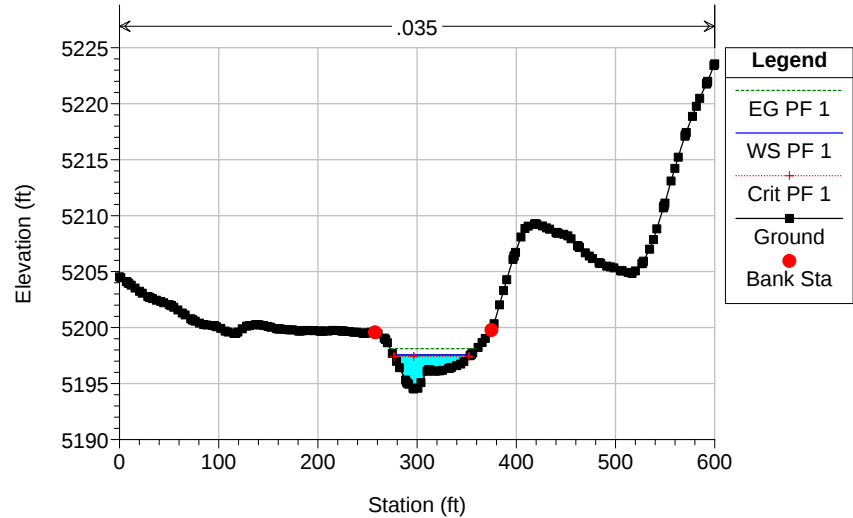
River = Lidar Dwnstm Reach = Alignment - Dam RS = 16457.0 Cross Section Boca Negra Arroyo 18.0 - A



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

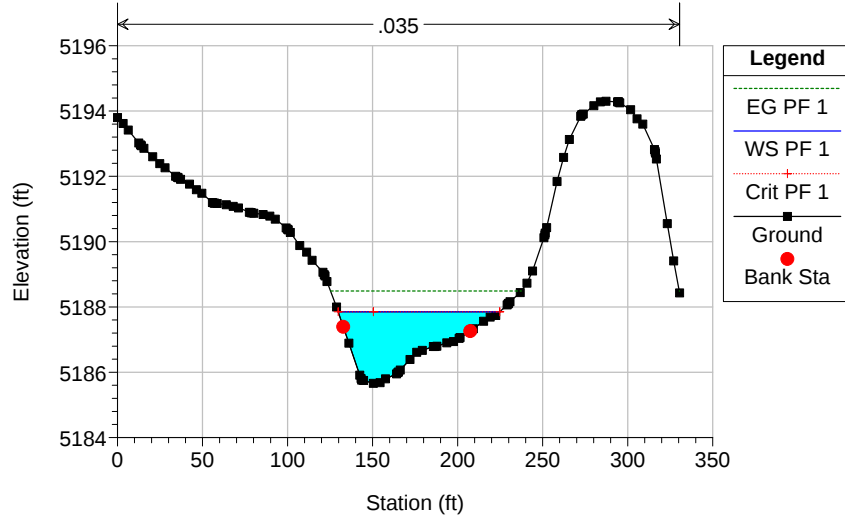
River = Lidar Dwnstm Reach = Alignment - Dam RS = 15976 5



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

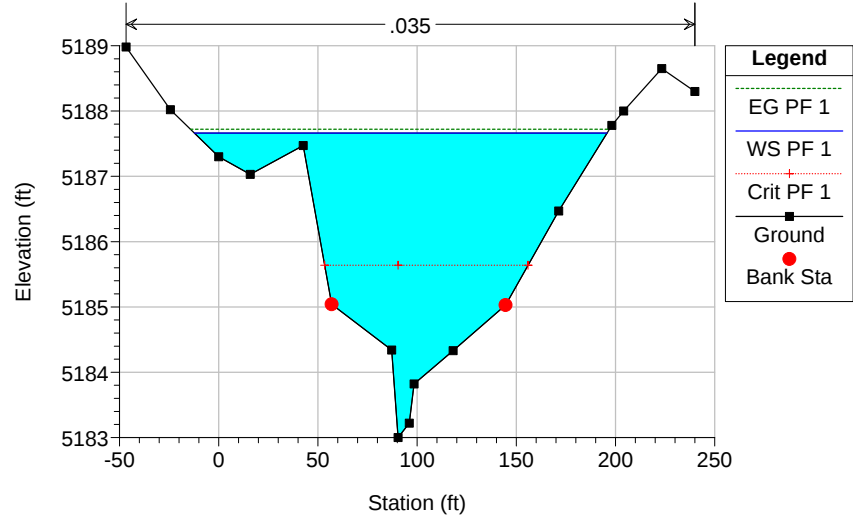
River = Lidar Dwnstm Reach = Alignment - Dam RS = 15247.7 4



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

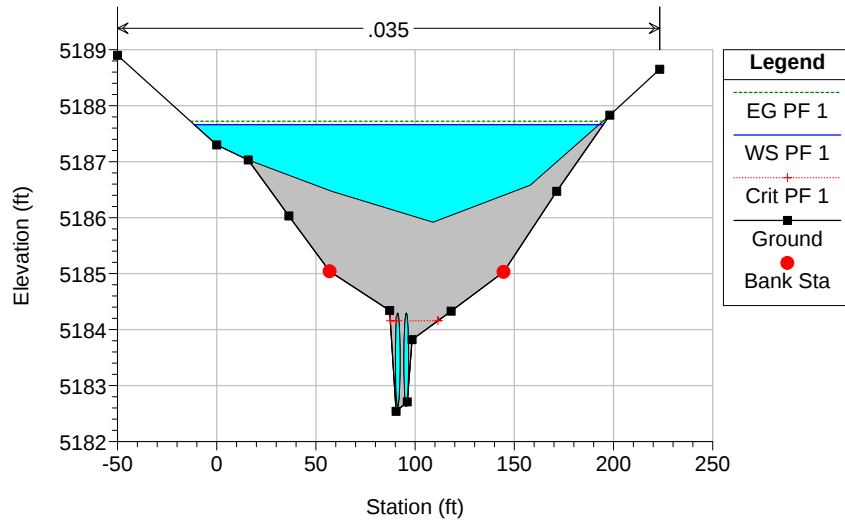
River = Lidar Dwnstm Reach = Alignment - Dam RS = 15100 3B - Monument Entrance



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

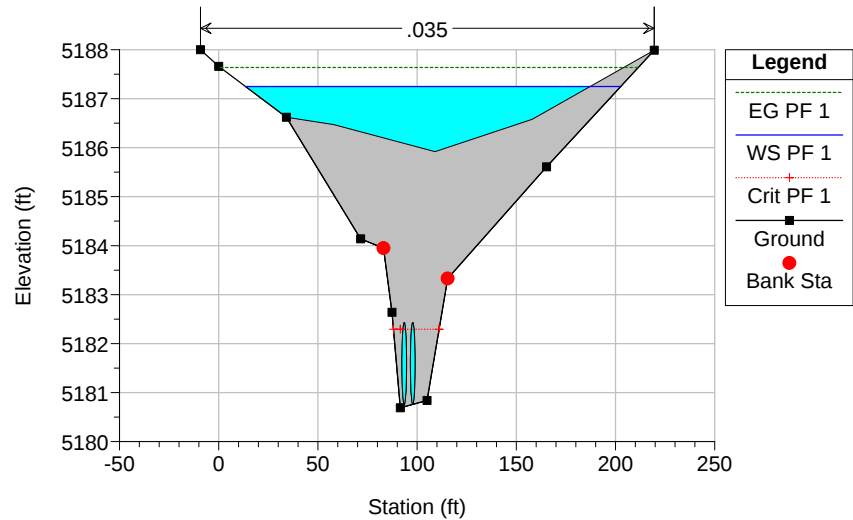
River = Lidar Dwnstm Reach = Alignment - Dam RS = 15090 Culv Monument Low Flow Culverts



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

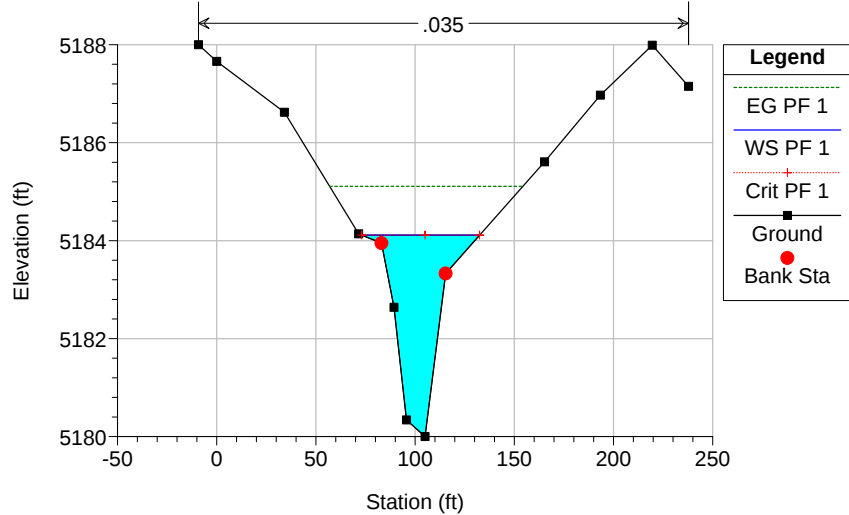
River = Lidar Dwnstm Reach = Alignment - Dam RS = 15090 Culv Monument Low Flow Culverts



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

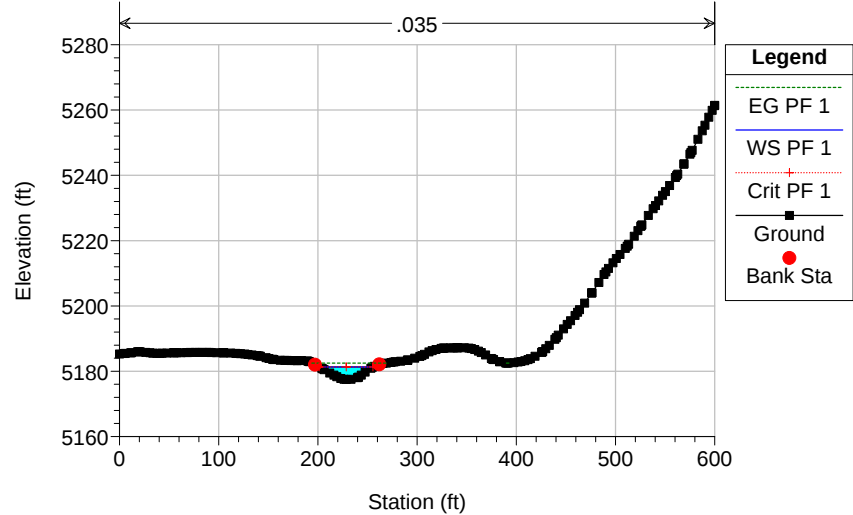
River = Lidar Dwnstm Reach = Alignment - Dam RS = 15080 3A - Monument Entrance



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

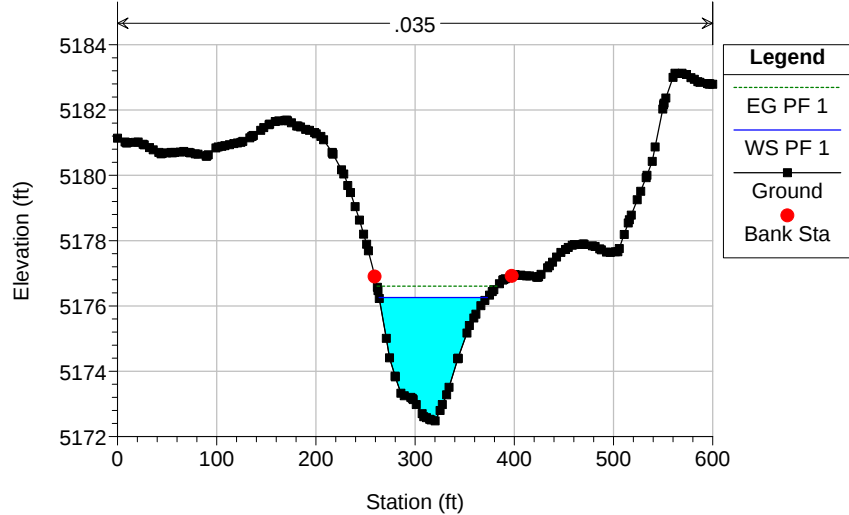
River = Lidar Dwnstm Reach = Alignment - Dam RS = 14886.4 3



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

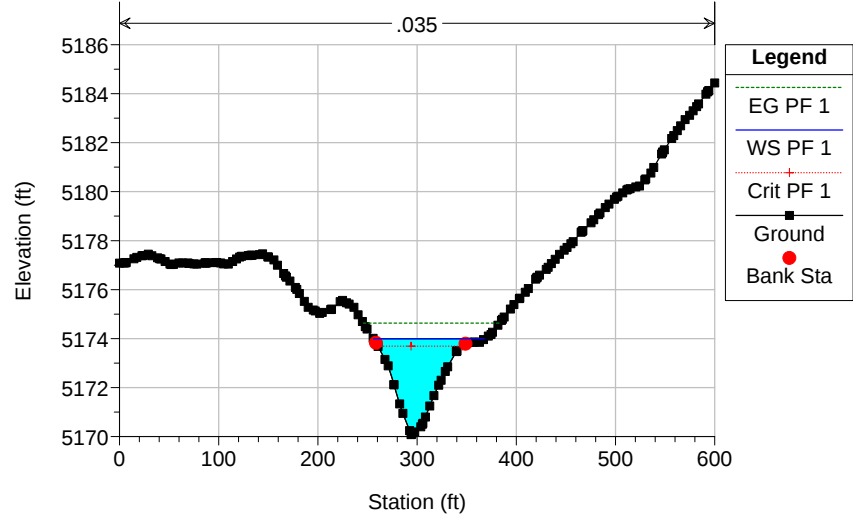
River = Lidar Dwnstm Reach = Alignment - Dam RS = 14300.75 2



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

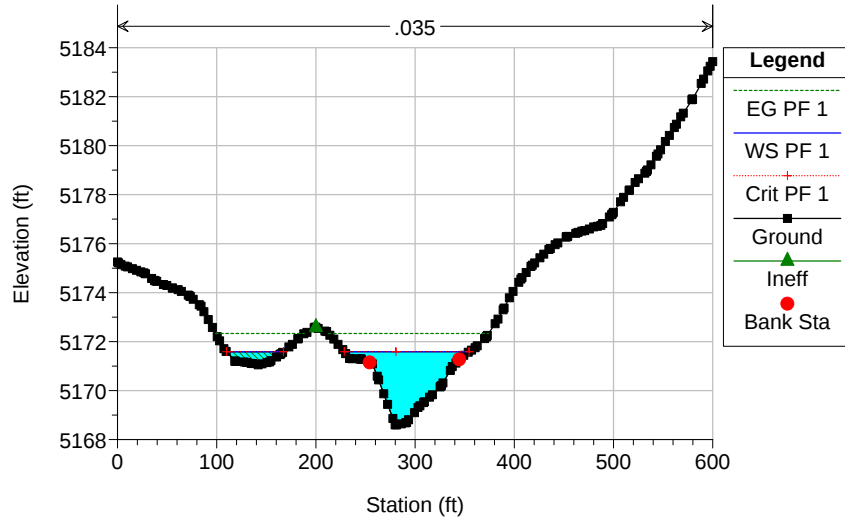
River = Lidar Dwnstm Reach = Alignment - Dam RS = 14200 1D



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

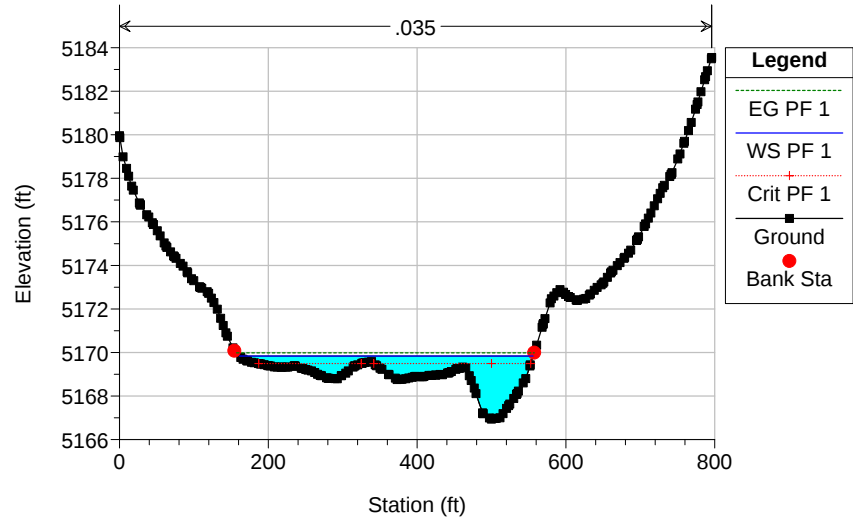
River = Lidar Dwnstm Reach = Alignment - Dam RS = 14100.75 1C



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

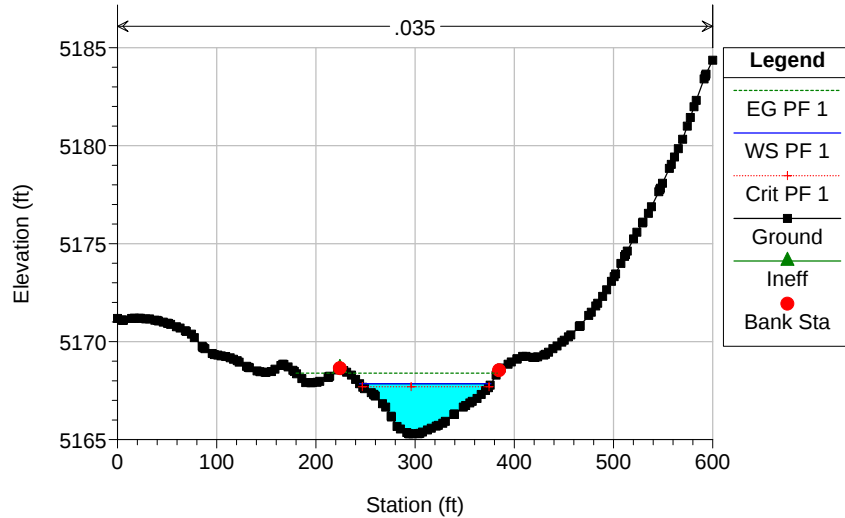
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13900.75 1B



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

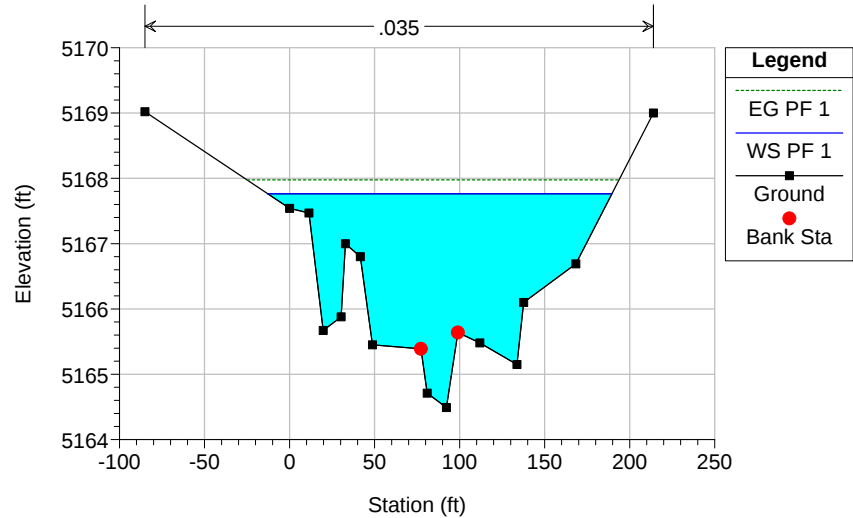
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13700.75 1A



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

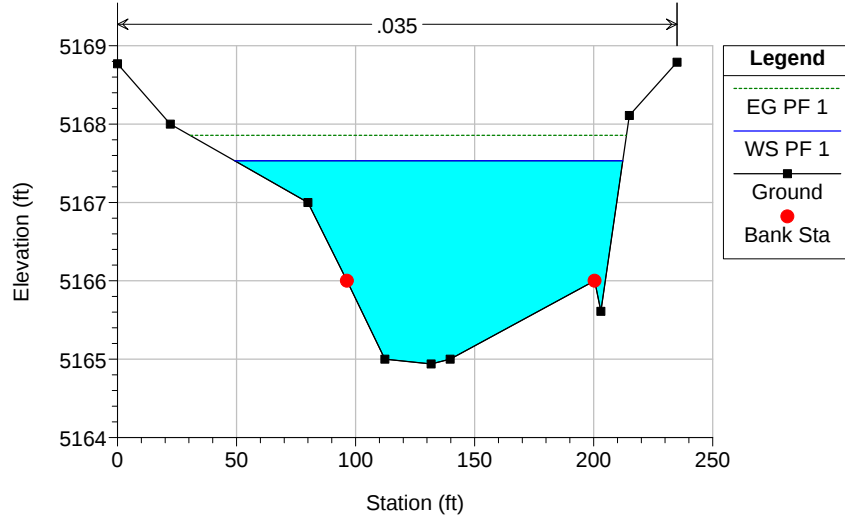
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13150.55 1



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

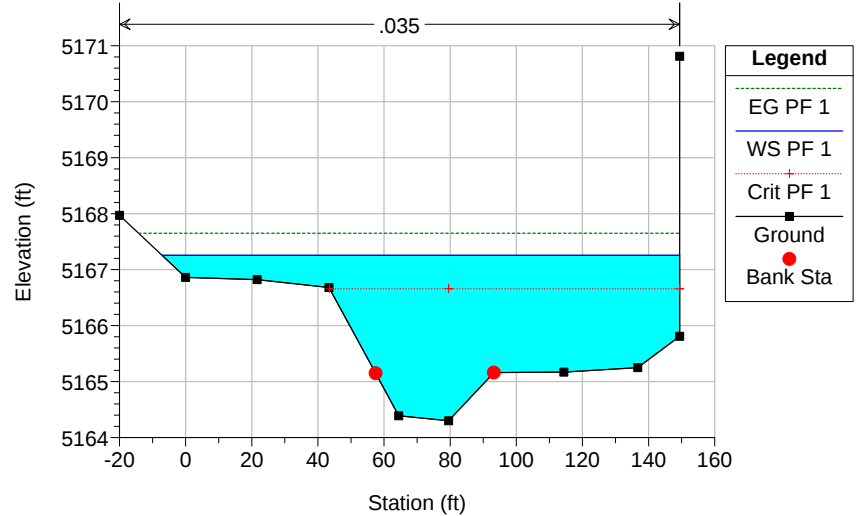
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13150.54 0.995



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

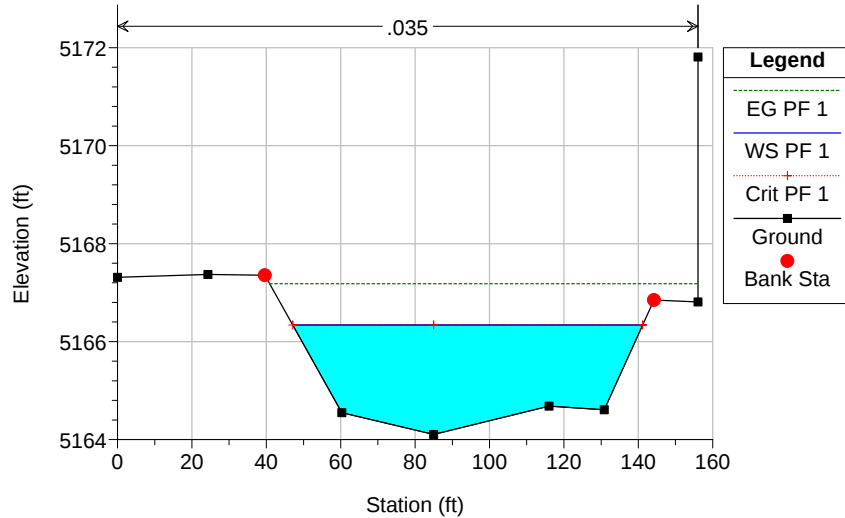
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13150 0.99



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

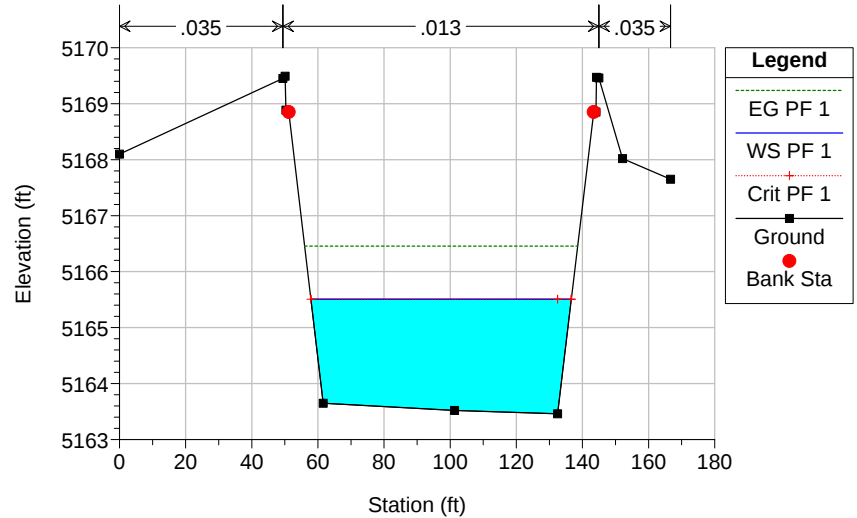
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13149.5 0.98



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

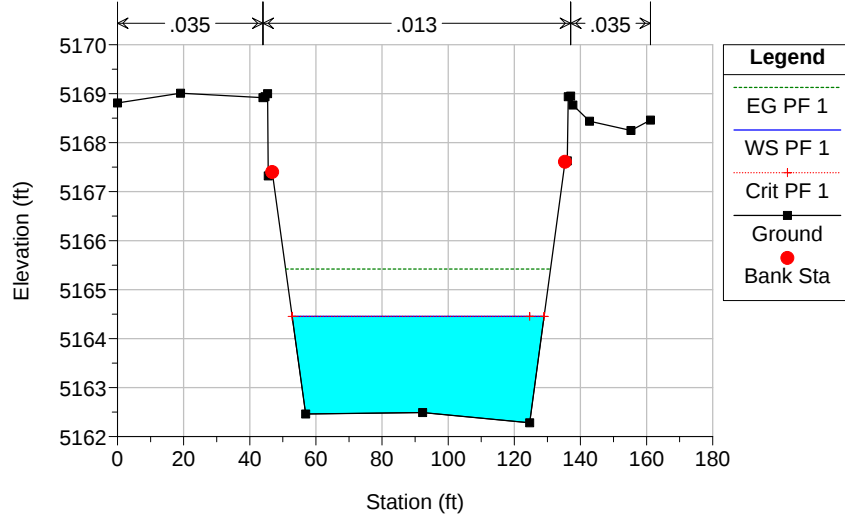
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13149 0.97



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

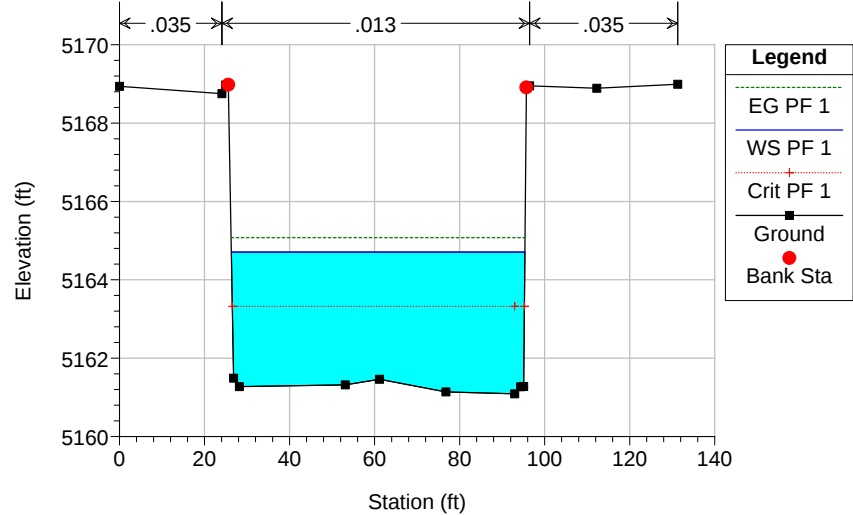
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13148.5 0.96



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

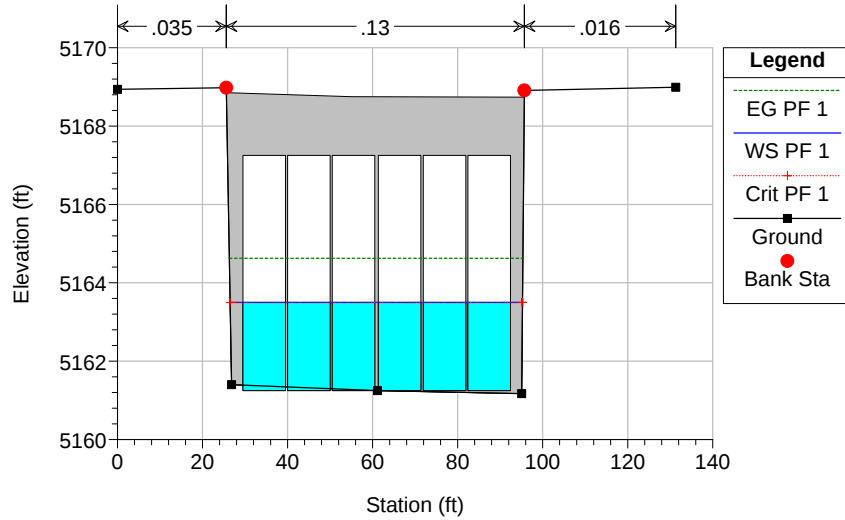
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13148 0.95



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

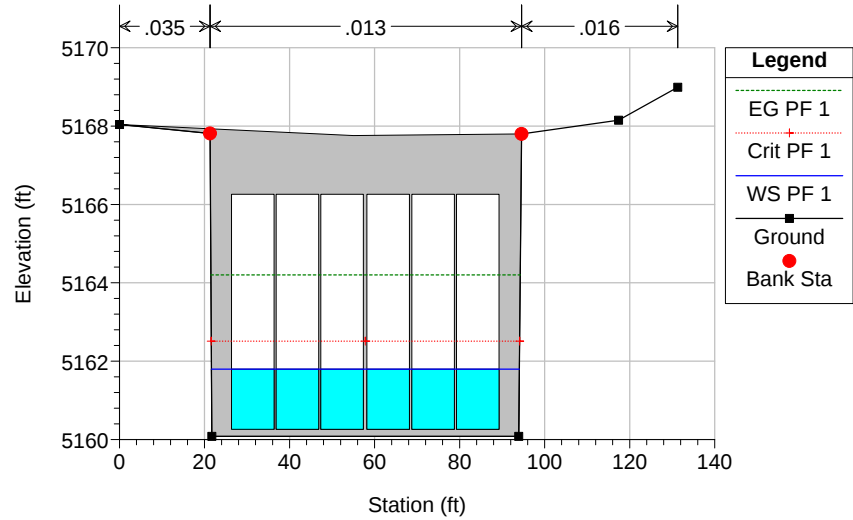
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13146 Culv Tesuque Road Crossing



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

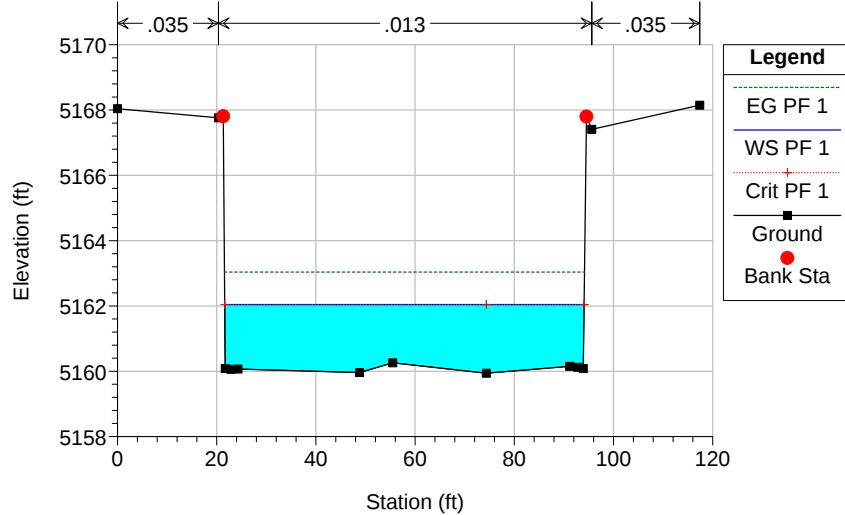
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13146 Culv Tesuque Road Crossing



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

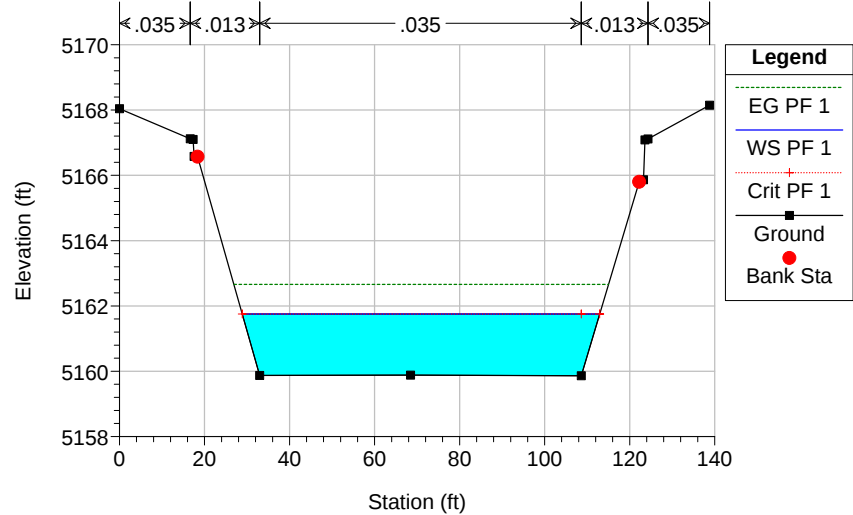
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13145 0.94



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

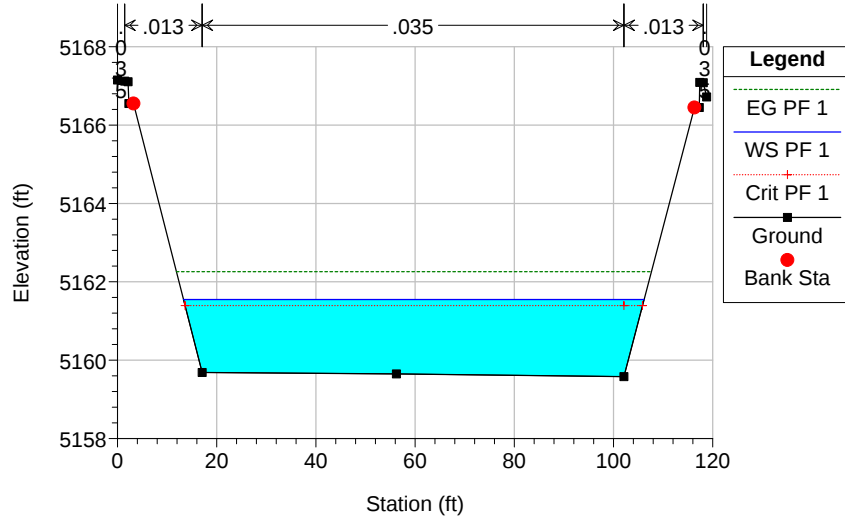
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13144 0.93



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

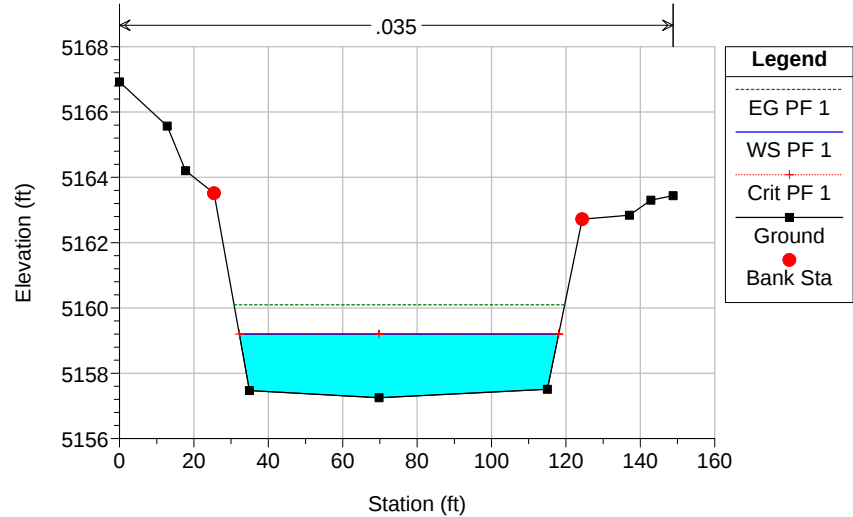
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13143 0.92



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

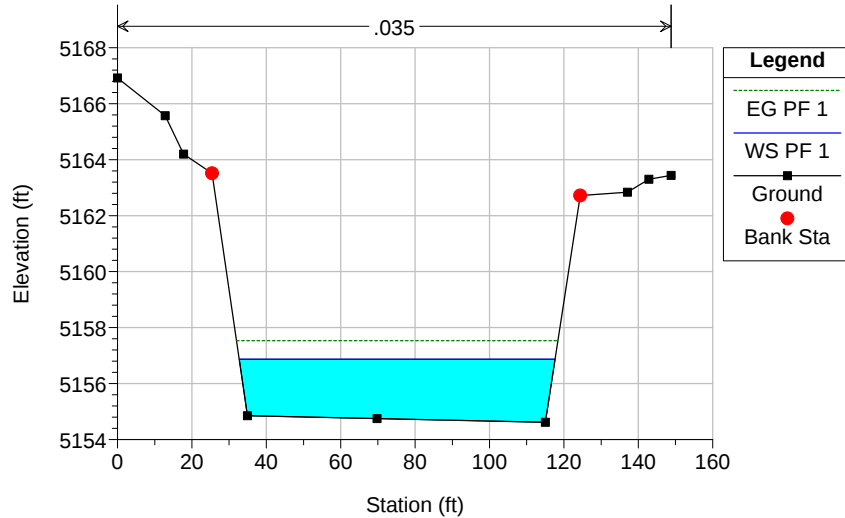
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13140 0.91



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

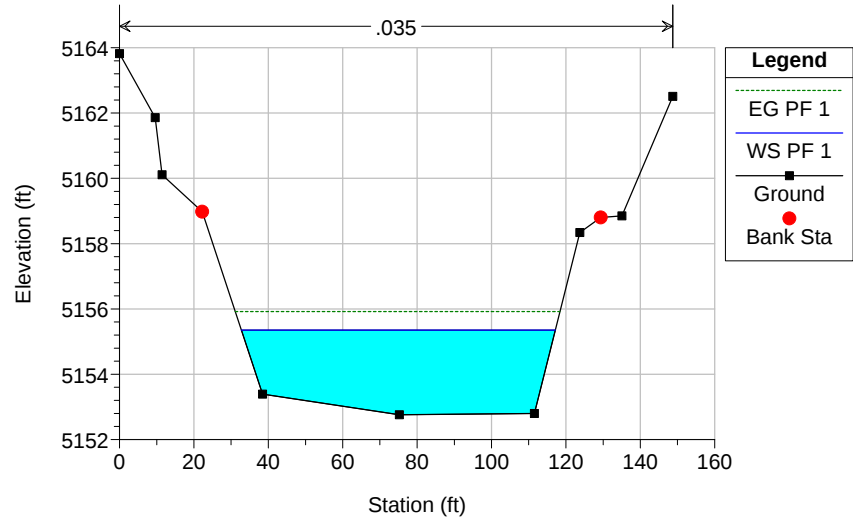
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13135 0.9



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

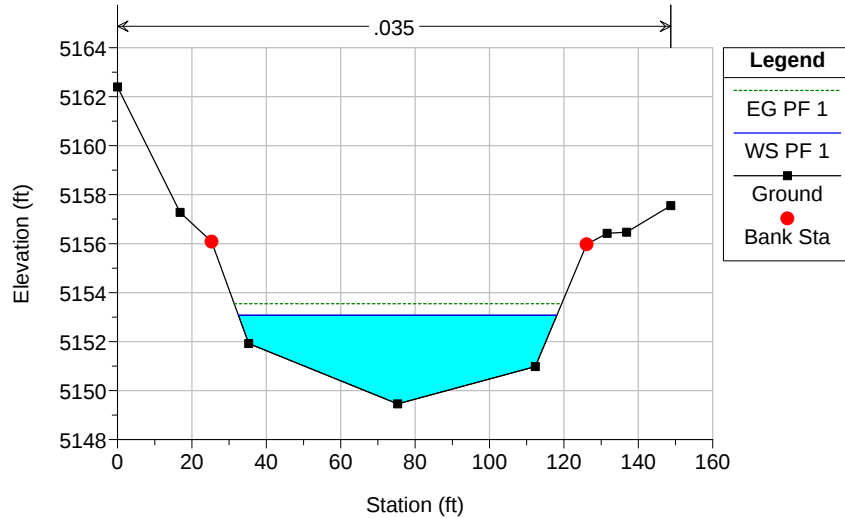
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13130 0.8



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

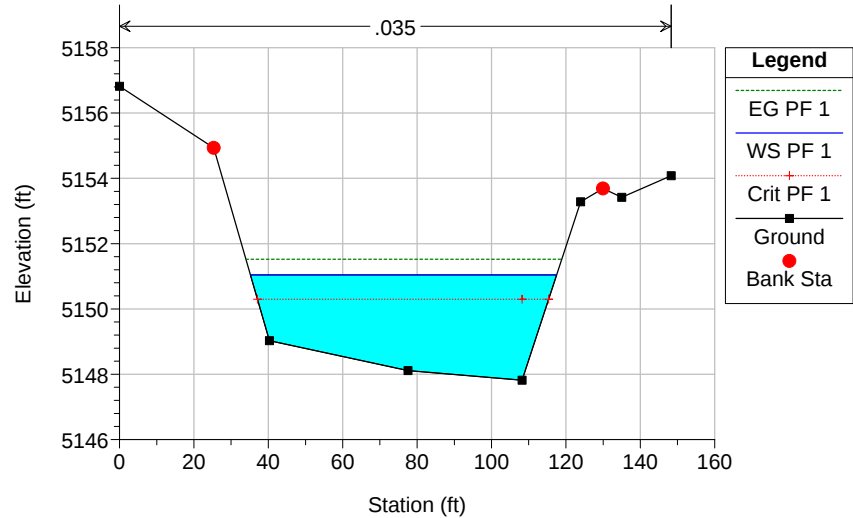
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13120 0.7



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

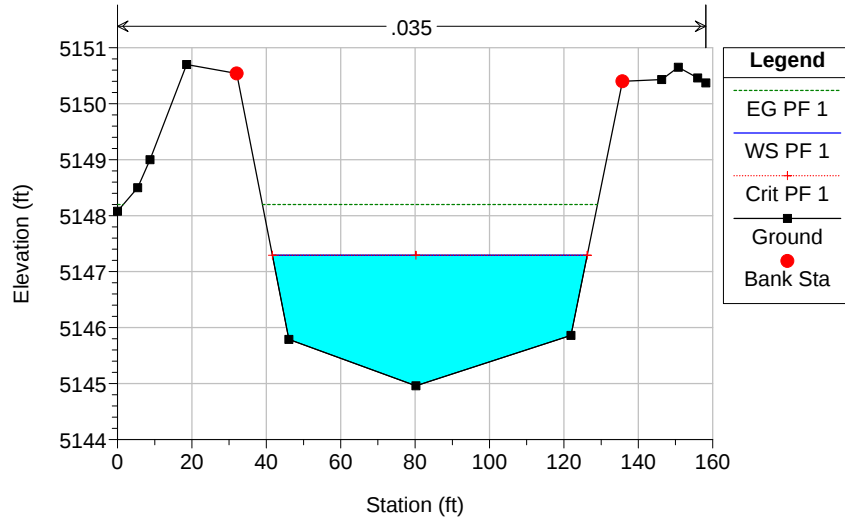
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13110 0.6



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

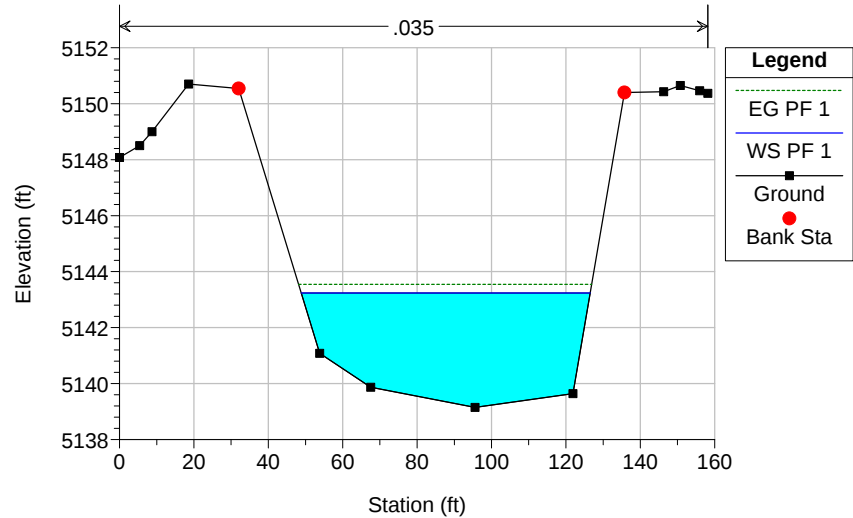
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13100 0.53



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

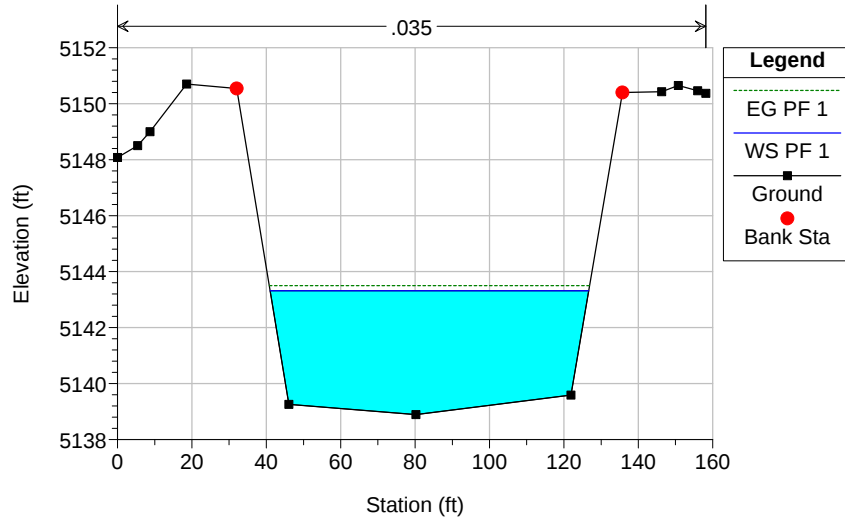
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13095 0.52



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

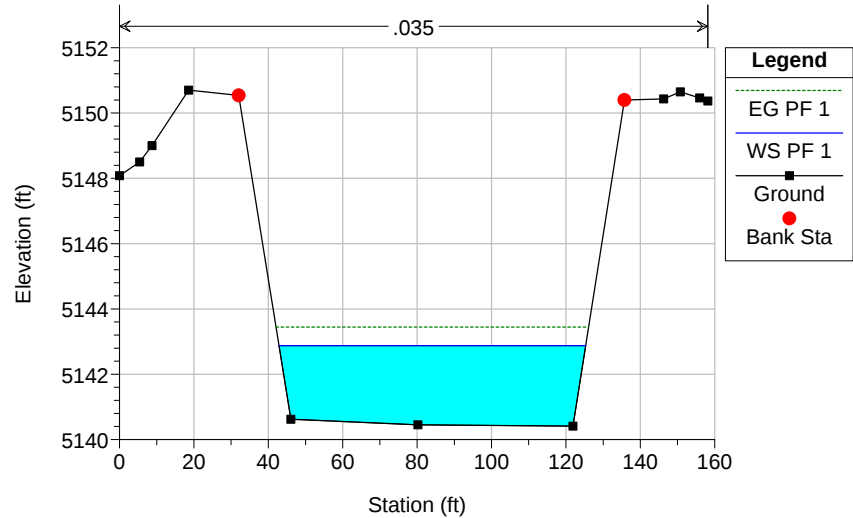
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13093 0.51



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

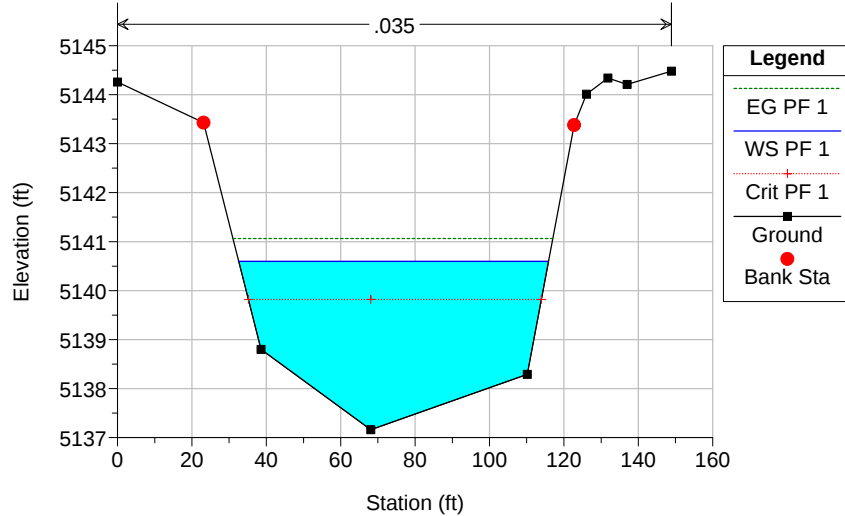
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13090 0.5



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

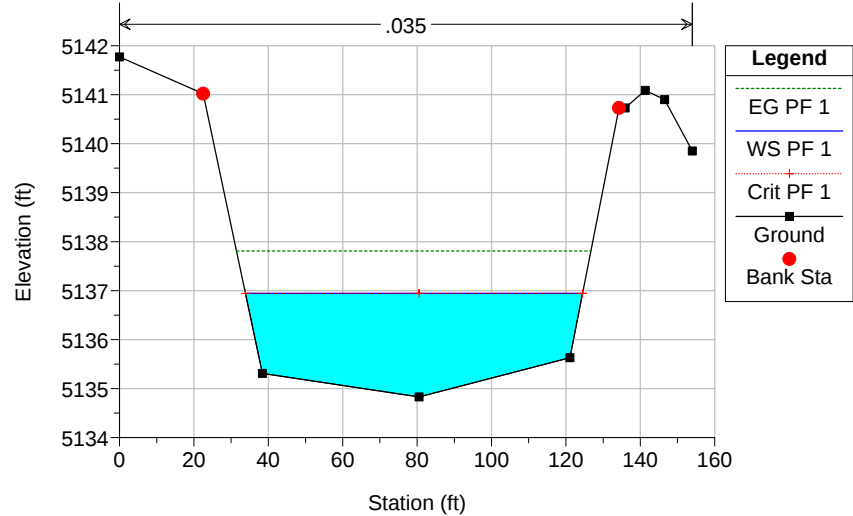
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13080 0.4



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

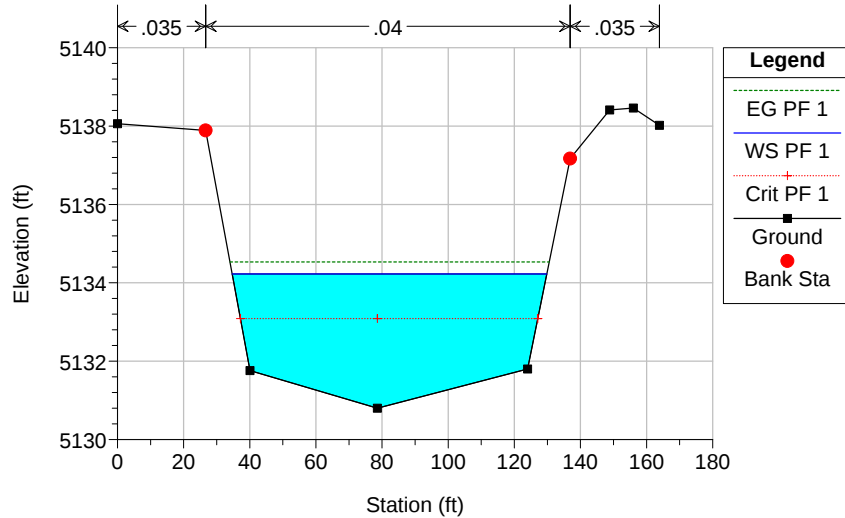
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13070 0.3



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

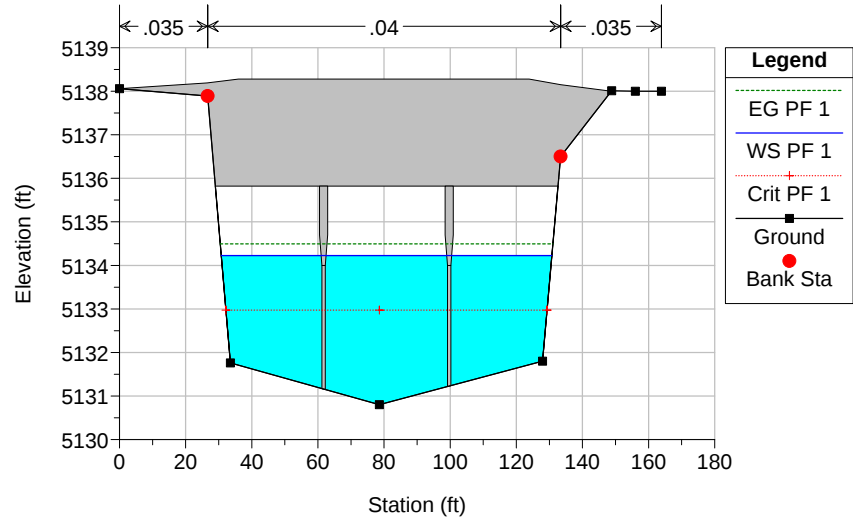
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13060 0.21



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

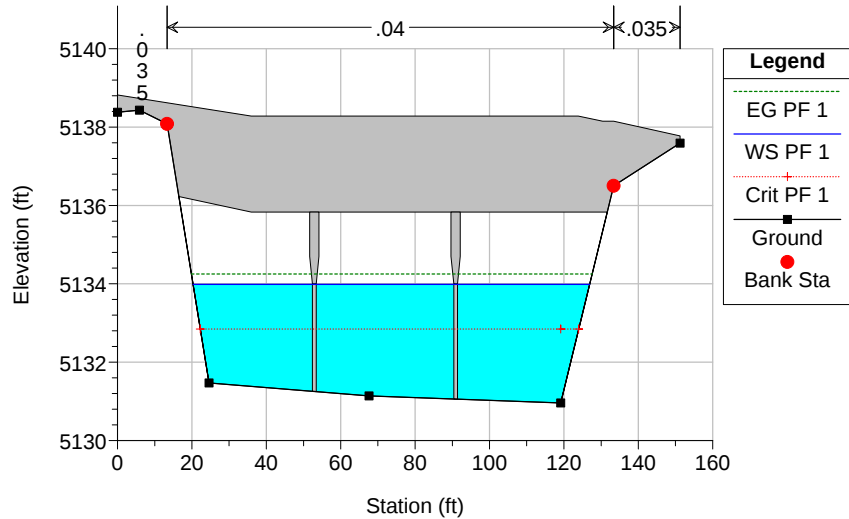
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13055 BR San Ildefonso Road Crossing



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

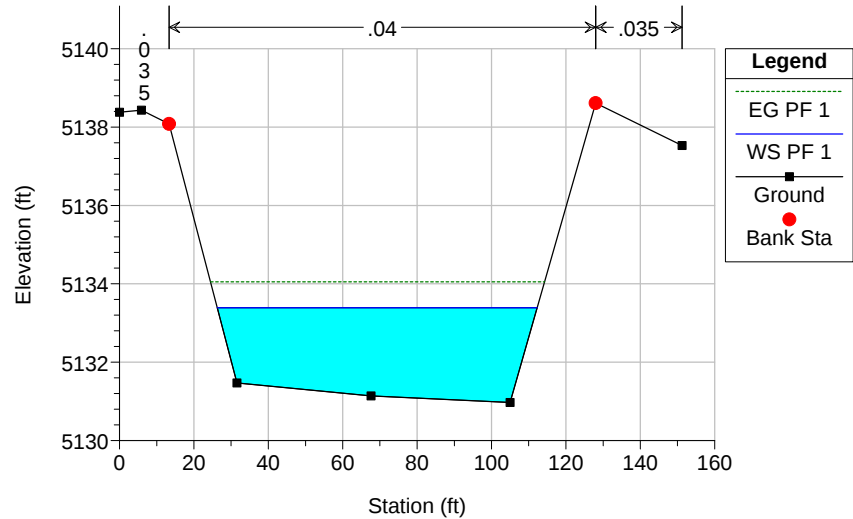
River = Lidar Dwnstm Reach = Alignment - Dam RS = 13055 BR San Ildefonso Road Crossing



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

River = Lidar Dwnstm Reach = Alignment - Dam RS = 13050 0.2



Boca Negra Arroyo-Current Downstream Plan: Current Downstream 2015 5/4/2015

Geom: Current Downstream

River = Lidar Dwnstm Reach = Alignment - Dam RS = 13040 0.1

