

Cross Section 7

<u>Location</u>	<u>Latitude</u>	<u>Longitude</u>
Left Bank	36.997204	-79.860491
Right Bank	36.997218	-79.859878

Description: Cross Section 7 is located approximately 450 feet downstream of the Power Dam Road bridge. Vehicular access was gained via farm field roads on Rocky Mount treatment plant property. The cross section was bounded on the left bank by forest and on the right bank by a narrow band of trees along the top of bank with agricultural fields just beyond.

The water surface width at this section was significantly wider than in previous years due to the observed high baseflow conditions. Fine sediment released from behind the dam has deposited on left bank where little vegetation is established, and minor scour marks are visible at the toe of the slope. The right bank also had fine sediment deposited but also contained large woody debris. The right bank had a 5-ft. wide bar with some pebbles at the toe of slope.

The instrument setup for this cross section was at the right bank (HI = 3.20 ft.). The cross section plot and thalweg profile are shown below. No pebble count was taken at this location due the generally uniform fine-grained (sandy) nature of bed sediments, however, a narrow band of coarse bed material (pebbles 2-4-in in diameter with a few 10-25-in diameter cobble in the center of the stream and on a nearby bar (see photo 7-7).



Photo 7-1

Location, Orientation: XS 7, Looking Upstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 2:01 PM

Description: View looking upstream from the middle of Cross Section 7

Woody Debris: 20



Photo 7-2

Location, Orientation: XS 7, Looking Downstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 2:01 PM

Description: View looking downstream from the middle of Cross Section 7

Woody Debris: 80 (pile up)



Photo 7-3

Location, Orientation: XS 7, Left Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 2:01 PM

Description: View looking left from the middle of Cross Section 7

Vegetation: 15% herbaceous cover, few trees



Photo 7-4

Location, Orientation: XS 7, Right Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/05/17, 9:31 AM

Description: View looking right from the middle of Cross Section 7

Vegetation: 20% herbaceous plants, trees at bankfull



Photo 7-5

Location, Orientation: XS 7, Upstream looking down

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 2:46 PM

Description: View looking downstream at Cross Section 7 from an upstream position



Photo 7-6

Location, Orientation: XS 7, Downstream looking up

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 2:51 PM

Description: View looking upstream at Cross Section 7 from a downstream position



Photo 7-7

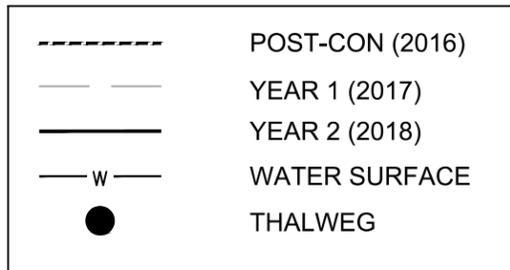
Location, Orientation: XS 7, Bed Material

Permit Number: JPA #15-1551

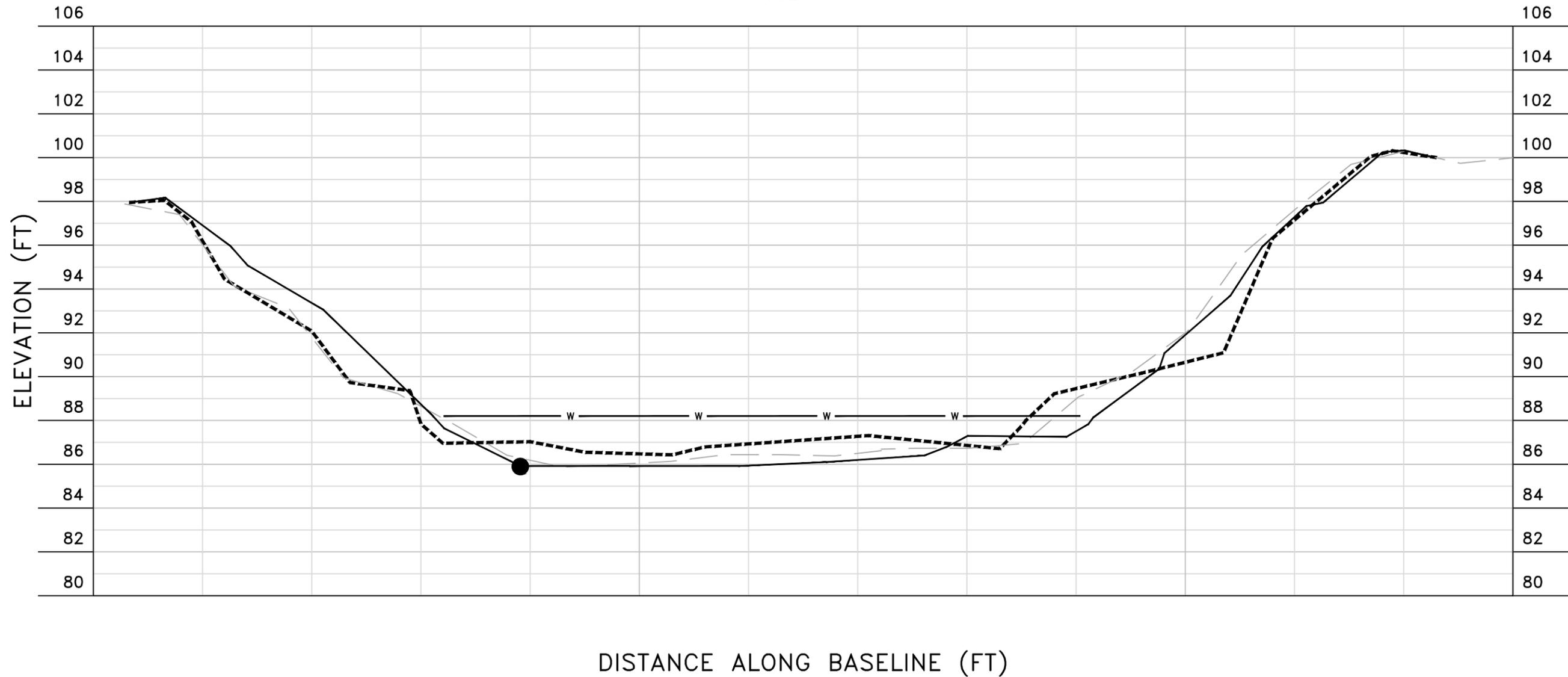
Wetland Data Sheet Reference: n/a

10/02/18, 3:10 AM

Description: Bed material at Cross Section 7 was almost entirely silt/sand with some pebbles this size



XS 7



PROFILE SCALE:
 HORIZ: 1"=10'
 VERT: 1"=5'
 (ELEV. RELATIVE TO ASSUMED XS END PIN AT 100.)



Pigg River Dam Removal Restoration - Monitoring
 Rocky Mount, Virginia
 Year 2 - XS 7
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REVISIONS		Rev. No.	Appr. By
No.	Date	Description	

DATE: OCT 2018
 SCALE: AS NOTED

Boundary and Topo Source:
WSSI and Orange Digital Data

Design	Draft	Approved
NAS	NAS	NAS

Sheet #
 6 of 11

Computer File Name:

Cross Section 8

<i>Location</i>	<i>Latitude</i>	<i>Longitude</i>
Left Bank	36.998831	-79.856019
Right Bank	36.998555	-79.856062

Description: Cross Section 8 is located approximately 2,000 feet downstream of the dam, or 1,400 feet downstream of Cross Section 7, due north of the existing Town of Rocky Mount Sewage Treatment Plant. Vehicular access was gained via farm field roads on treatment plant property. The cross section is bounded on the left bank by forest and on the right bank by a narrow band of trees along the top of bank with agricultural fields just beyond.

This section had mature woody vegetation to within five feet of the baseflow water surface elevation. The water surface width at this section was consistent with that seen at Cross Section 7. The banks contain fine sediment released then deposited from behind the dam. The fine sediment also buried bed features and filled the thalweg, resulting in little variation in flow depth across the section. The right bank was all sediment with woody debris, the left bank had some herbaceous vegetation.

The instrument setup for this cross section was at the right bank (HI = 3.38 ft.). The cross section plot and thalweg profile are shown below. Thalweg measurements were taken as water depths due to thick stream-side vegetation. Water depths were then added to the rod height associated with water surface elevation as taken for the cross section. This allowed approximation of bed elevation (with the longitudinal drop in water surface elevation considered insignificant). No pebble count was taken at this location due the uniform fine-grained (sandy) nature of bed sediments.



Photo 8-1

Location, Orientation: XS 8, Looking Upstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/05/18, 3:44 PM

Description: View looking upstream from the middle of Cross Section 8
Woody Debris: 9



Photo 8-2

Location, Orientation: XS 8, Looking Downstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 3:44 PM

Description: View looking downstream from the middle of Cross Section 8

Woody Debris: 8



Photo 8-3

Location, Orientation: XS 8, Left Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 3:44 PM

Description: View looking left from the middle of Cross Section 8

Vegetation: 40% herbaceous cover, saplings, small trees



Photo 8-4

Location, Orientation: XS 8, Right Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/05/18, 3:44 PM

Description: View looking right from the middle of Cross Section 8

Vegetation: 25% herbaceous plants, trees



Photo 8-5

Location, Orientation: XS 8, Upstream looking down

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 3:45 PM

Description: View looking downstream at Cross Section 8 from an upstream position



Photo 8-6

Location, Orientation: XS 8, Downstream looking up

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 4:45 AM

Description: View looking upstream at Cross Section 8 from a downstream position

Cross Section 9

<i>Location</i>	<i>Latitude</i>	<i>Longitude</i>
Left Bank	36.995239	-79.856860
Right Bank	36.995536	-79.856751

Description: Cross Section 9 is located approximately 1.0 mi downstream of the dam, or 3,300 feet downstream of Cross Section 8. The section was located at the southwest corner of the field at the downstream boundary of sewage treatment plant property, just before a sharp left meander. Vehicular access was gained from the rear of the treatment plant parking lot.

The cross section was bounded on both banks by a narrow band of trees along the top of bank with agricultural fields just beyond. Woody root structure made the steep banks relatively stable, despite significant incision (~15-ft bank heights). The water surface width at this section was consistent with that seen at Cross Section 8. Sediment deposition of sand were on both lower half of the banks. Banks were relatively stable due to good coverage by woody root structure. Fine sediment had buried bed features and filled the original thalweg location, which has since shifted to the opposite side of the river. This change in bed character has resulted in little variation in flow depth across the section.

The instrument setup for this cross section was at the right bank (HI = 3.38 ft.). The cross section plot and thalweg profile are shown below. Some thalweg measurements were taken as water depths due to thick stream-side vegetation. Water depths were then added to the rod height associated with water surface elevation as taken for the cross section. This allowed approximation of bed elevation (with the longitudinal drop in water surface elevation considered insignificant). No pebble count was taken at this location due the uniform fine-grained (sandy) nature of bed sediments.



Photo 9-1

Location, Orientation: XS 9, Looking Upstream
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: n/a
10/02/10, 12:24 PM

Description: View looking upstream from the middle of Cross Section 9
Woody Debris: 3



Photo 9-2

Location, Orientation: XS 9, Looking Downstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/04/17, 1:34 PM

Description: View looking downstream from the middle of Cross Section 9

Woody Debris: 10



Photo 9-3

Location, Orientation: XS 9, Left Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 12:23 PM

Description: View looking left from the middle of Cross Section 9

Vegetation: 65% herbaceous cover with small trees on top of bank



Photo 9-4

Location, Orientation: XS 9, Right Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 12:23 PM

Description: View looking right from the middle of Cross Section 9

Vegetation: 55% herbaceous cover on bank



Photo 9-5

Location, Orientation: XS 9, Upstream looking down

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 12:24 PM

Description: View looking downstream at Cross Section 9 from an upstream position



Photo 9-6

Location, Orientation: XS 9, Downstream looking up

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 12:26 PM

Description: View looking upstream at Cross Section 9 from a downstream position

Cross Section 10

<i>Location</i>	<i>Latitude</i>	<i>Longitude</i>
Left Bank	36.990961	-79.850516
Right Bank	36.990694	-79.850709

Description: Cross Section 10 is located approximately 1.5 mi. downstream of the dam, or 2,700 feet downstream of Cross Section 9, east of Power Dam Road and north of the power line easement. Accessed via vehicle from Hudson Farm Lane. The section is flanked by fields on both sides, with a narrow band of trees along the tops of bank. Mature trees dotted the banks down to the edge of the observed water surface and root structure afforded good bank stability despite steep slopes and an incised section (~12-ft bank height). The water surface width at this section was consistent with that seen at Cross Section 9. Sediment deposition of sand was noted at or just above the observed water surface. Banks were relatively stable due to some coverage by woody root structure. The left bank shows more sediment deposits and some scour marks near toe of slope. Fine sediment had buried bed features and resulted in a shift in the thalweg location from center to right bank. These changes resulted in the observation of little variation in flow depth across the section.

The instrument setup for this cross section was at the left bank (HI = 4.07 ft.). The cross section plot and thalweg profile are shown below. Thalweg measurements were taken as water depths due to thick stream-side vegetation. Water depths were then added to the rod height associated with water surface elevation as taken for the cross section. This allowed approximation of bed elevation (with the longitudinal drop in water surface elevation considered insignificant). No pebble count was taken at this location due the uniform fine-grained (sandy) nature of bed sediments.



Photo 10-1

Location, Orientation: XS 10, Looking Upstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 1:30 PM

Description: View looking upstream from the middle of Cross Section 10

Woody Debris: 3



Photo 10-2

Location, Orientation: XS 10, Looking Downstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 1:30 PM

Description: View looking downstream from the middle of Cross Section 10

Woody Debris: 20



Photo 10-3

Location, Orientation: XS 10, Left Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 1:30 PM

Description: View looking left from the middle of Cross Section 10

Vegetation: 30% herbaceous cover, trees



Photo 10-4

Location, Orientation: XS 10, Right Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 1:30 PM

Description: View looking right from the middle of Cross Section 10

Vegetation: 50% herbaceous cover, some trees higher on bank



Photo 10-5

Location, Orientation: XS 10, Upstream looking down

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 1:31 PM

Description: View looking downstream at Cross Section 10 from an upstream position



Photo 10-6

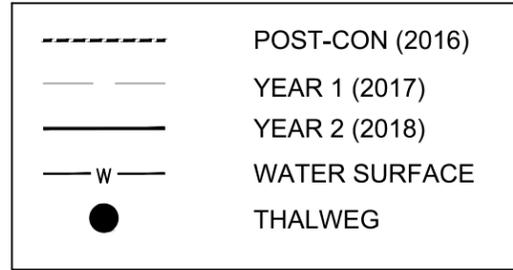
Location, Orientation: XS 10, Downstream looking up

Permit Number: JPA #15-1551

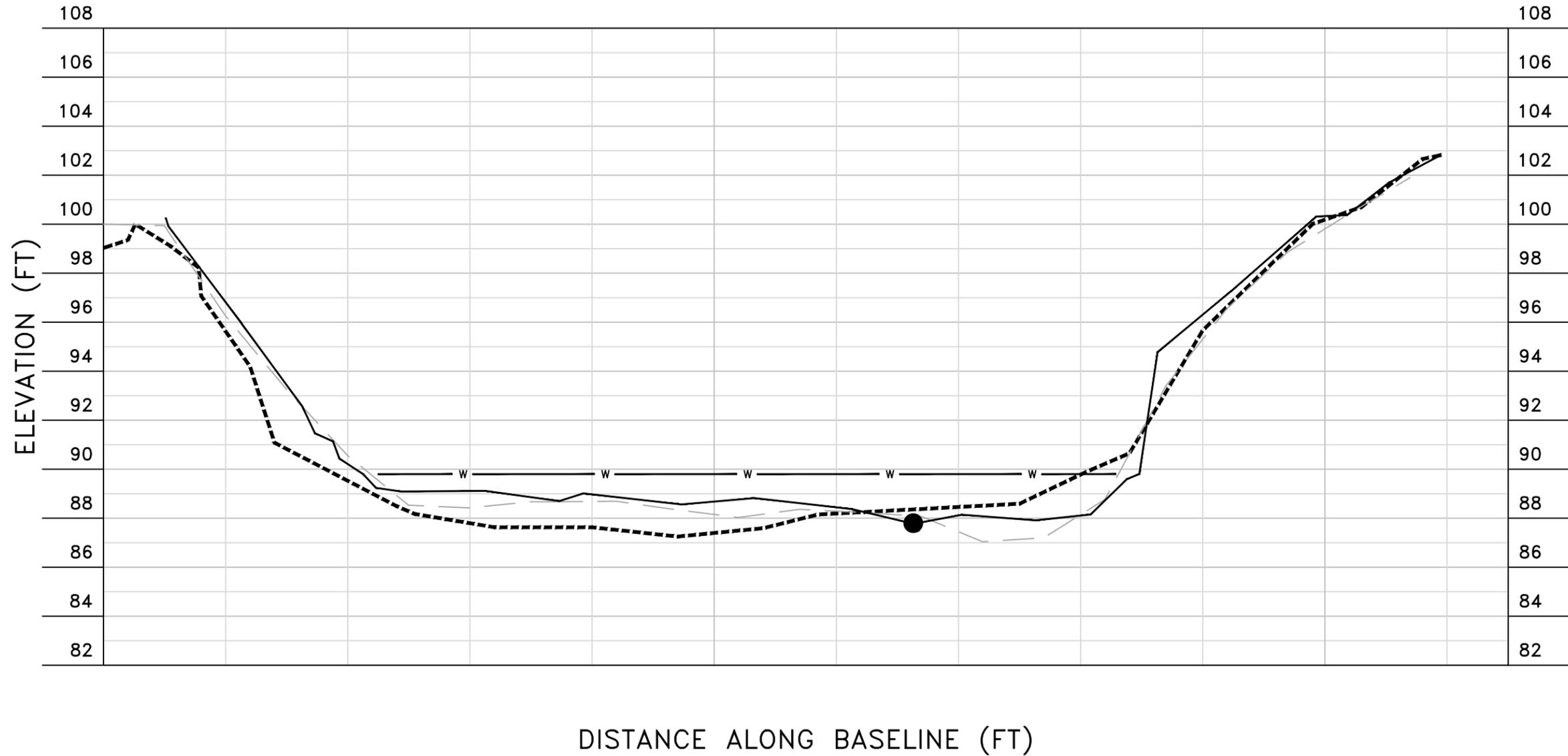
Wetland Data Sheet Reference: n/a

10/03/18, 1:32 PM

Description: View looking upstream at Cross Section 10 from a downstream position



XS 10



PROFILE SCALE:

HORIZ: 1"=10'

VERT: 1"=5'

(ELEV. RELATIVE TO ASSUMED XS END PIN AT 100.)



Pigg River Dam Removal Restoration - Monitoring
Rocky Mount, Virginia

Year 2 - XS 10
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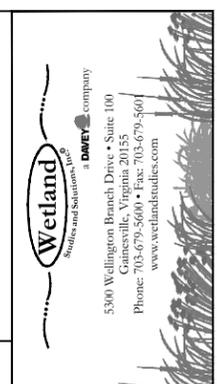
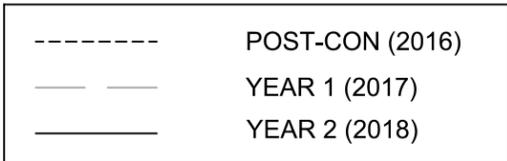
DATE: OCT 2018 SCALE: AS NOTED

Boundary and Topo Source:
WSSI and Orange Digital Data

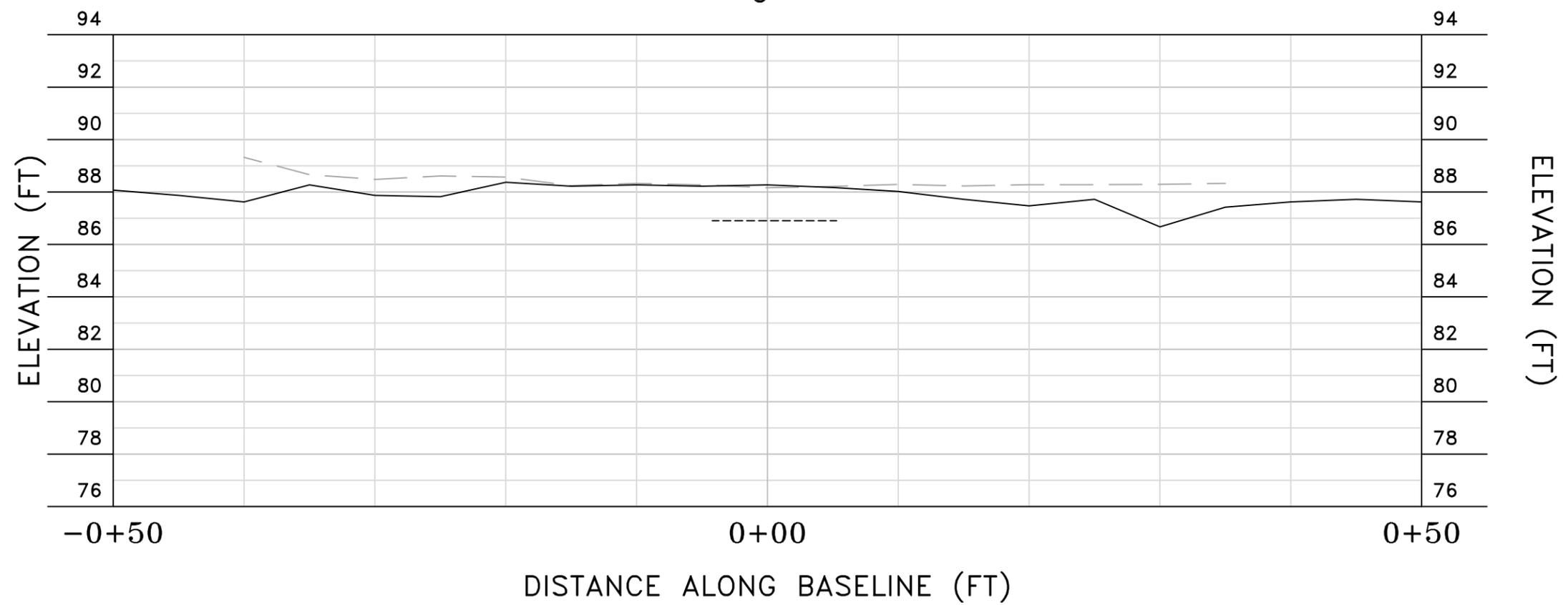
Design	Draft	Approved
NAS	NAS	NAS

Sheet #
9 of 11

Computer File Name:
C:\2018\2018-2019\018-018-018-018-018-018



Thalweg XS 10



PROFILE SCALE:
 HORIZ: 1"=10'
 VERT: 1"=5'
 (ELEV. RELATIVE TO ASSUMED XS END PIN AT 100.)

Pigg River Dam Removal Restoration - Monitoring
 Rocky Mount, Virginia
 Year 2 - Thalweg Profile XS 10
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NAS	NAS	NAS

Sheet #
 10 of 12

Computer File Name:
 C:\2018\2018-2019\2018-0101-0010-0001.dwg

Cross Section 11

<i>Location</i>	<i>Latitude</i>	<i>Longitude</i>
Left Bank	36.991708	-79.845110
Right Bank	36.991595	-79.845424

Description: Cross Section 11 is located approximately 2.6 miles downstream of the dam, or 1.1 miles downstream of Cross Section 10, north of the power line easement and approximately 1/3rd mile east of Cross Section 10 (as the crow flies). Accessed via vehicle from Hudson Farm Lane. The section was flanked by fields on the left bank and dense forest on the right bank, with a narrow band of trees along the left top of bank. Mature trees grew along the banks to within a few feet of the observed water surface elevation. Banks were stable and slopes much more gradual than other cross sections (generally 2:1 or less). Top of bank height on the right bank was significantly lower than in previous sections (approx. 5 ft). The water surface width at this section was consistent with that seen at Cross Section 10. Bank erosion and sand deposits were observed on both banks, with more sand deposits on the right bank. Both end pins were buried under ~0.1 ft of sediment. Fine sediment had buried bed features and filled the thalweg, resulting in little variation in flow depth across the section.

The instrument setup for this cross section was at the left bank (HI = 4.25 ft.). The cross section plot and thalweg profile are shown below. Thalweg measurements were taken as water depths due to thick stream-side vegetation. Water depths were then added to the rod height associated with water surface elevation as taken for the cross section. This allowed approximation of bed elevation (with the longitudinal drop in water surface elevation considered insignificant). No pebble count was taken at this location due the uniform fine-grained (sandy) nature of bed sediments.



Photo 11-1

Location, Orientation: XS 11, Looking Upstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 11:40 AM

Description: View looking upstream from the middle of Cross Section 11
Woody Debris: 4



Photo 11-2

Location, Orientation: XS 11, Looking Downstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 11:40 AM

Description: View looking downstream from the middle of Cross Section 11

Woody Debris: 5



Photo 11-3

Location, Orientation: XS 11, Left Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 11:40 AM

Description: View looking left from the middle of Cross Section 11

Vegetation: 25% herbaceous cover, trees



Photo 11-4

Location, Orientation: XS 11, Right Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 11:40 AM

Description: View looking right from the middle of Cross Section 11

Vegetation: 25% herbaceous cover and bamboo/forest at bankfull

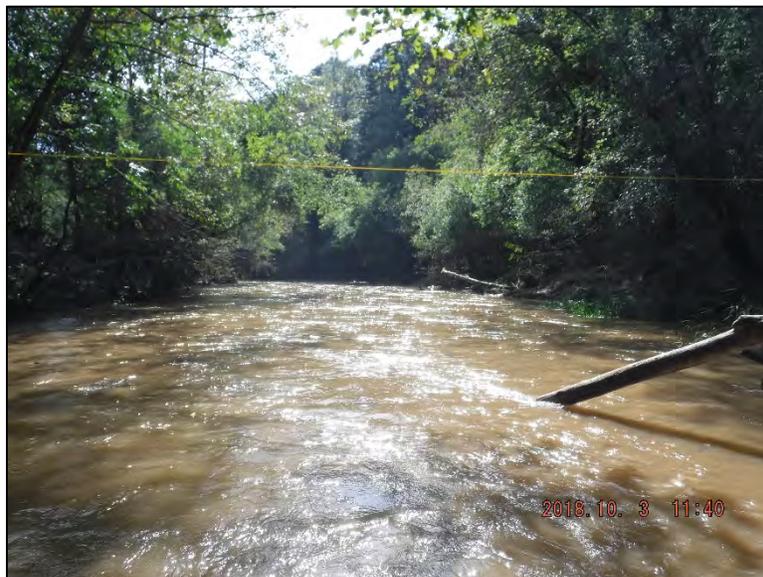


Photo 11-5

Location, Orientation: XS 11, Upstream looking down

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 11:40 AM

Description: View looking downstream at Cross Section 11 from an upstream position



Photo 11-6

Location, Orientation: XS 11, Downstream looking up

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/03/18, 11:41 AM

Description: View looking upstream at Cross Section 11 from a downstream position

Cross Section 12

<i>Location</i>	<i>Latitude</i>	<i>Longitude</i>
Left Bank	37.002258	-79.825398
Right Bank	37.002247	-79.825677

Description: Cross Section 12 is located approximately 5.2 mi downstream of the dam, or 2.6 mi downstream of Cross Section 11, approximately 300 feet downstream of the Chestnut Hill Road bridge. The section was accessed by parking along the Chestnut Hill Road and walking through the private property on the right bank (with permission). The section is flanked by lawn/fields on the right bank (with a narrow band of trees at the top of bank) and forest on the left bank. Banks were steep (~1:1), right bank was stable due to stability afforded by mature woody vegetation and root mass. The left bank shows signs of sediment deposition and scour marks almost to bankfull. The section is located at the head of a riffle feature. The top of bank height was greater than the that seen in Cross Section 11, but generally less than other sections downstream of the dam. The water surface width was approximately 50% wider than in previous sections – partially due to the larger watershed area which includes Power Mill Creek.

The instrument setup for this cross section was at the right bank (HI = 3.65 ft.). The cross section plot and thalweg profile are shown below. Pebble count information is summarized on Sheet 1 of Appendix D and indicates a gravel-dominated bed composition.



Photo 12-1

Location, Orientation: XS 12, Looking Upstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 4:51 PM

Description: View looking upstream from the middle of Cross Section 12

Woody Debris: 2



Photo 12-2

Location, Orientation: XS 12, Looking Downstream

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 4:51 PM

Description: View looking downstream from the middle of Cross Section 12

Woody Debris: 2



Photo 12-3

Location, Orientation: XS 12, Left Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 4:51 PM

Description: View looking left from the middle of Cross Section 12

Vegetation: 35% herbaceous cover, trees



Photo 12-4

Location, Orientation: XS 12, Right Bank

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/18, 4:51 PM

Description: View looking right from the middle of Cross Section 12

Vegetation: 80% herbaceous cover, trees at top of bank



Photo 12-5

Location, Orientation: XS 12, Upstream looking down

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/02/17, 4:52 PM

Description: View looking downstream at Cross Section 12 from an upstream position



Photo 12-6

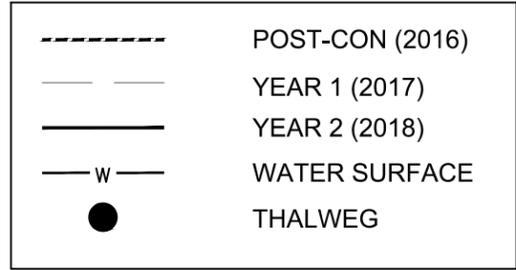
Location, Orientation: XS 12, Downstream looking up

Permit Number: JPA #15-1551

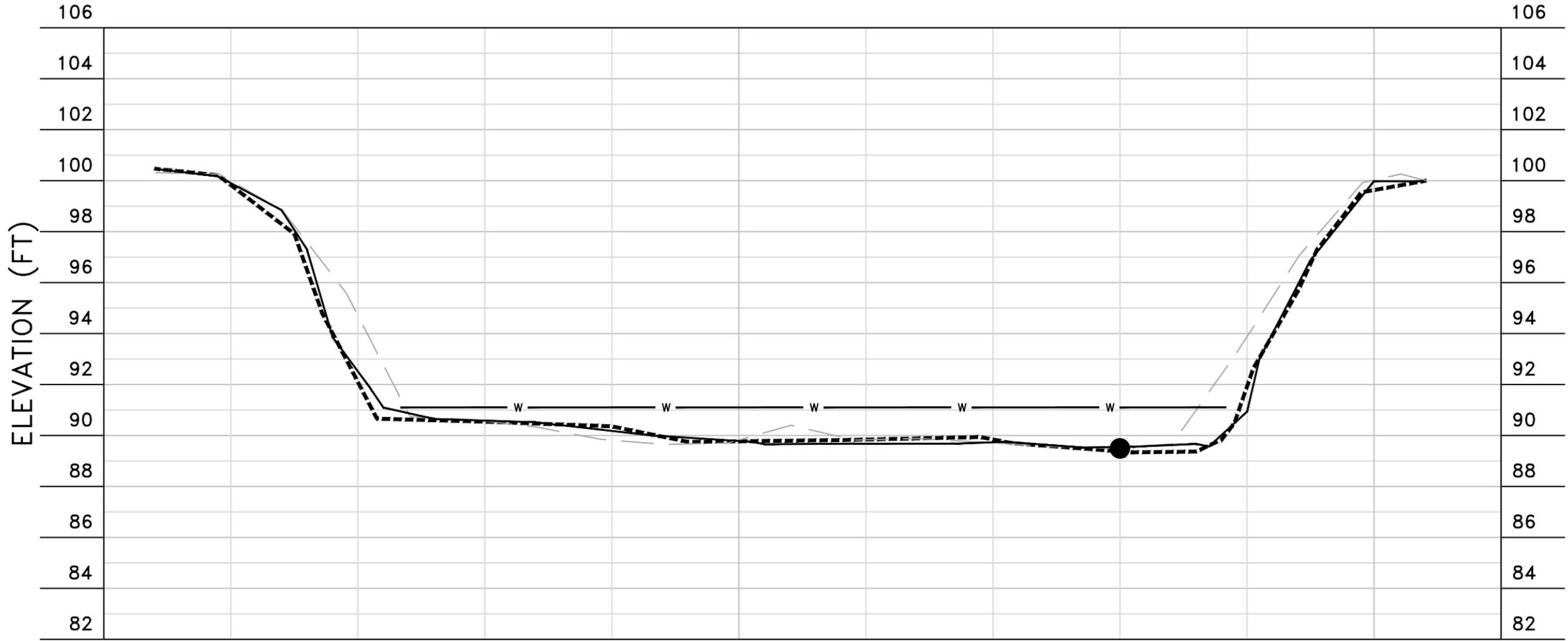
Wetland Data Sheet Reference: n/a

10/02/18, 4:52 PM

Description: View looking upstream at Cross Section 12 from a downstream position



XS 12



DISTANCE ALONG BASELINE (FT)

PROFILE SCALE:

HORIZ: 1"=10'

VERT: 1"=5'

(ELEV. RELATIVE TO ASSUMED XS END PIN AT 100.)

ELEVATION (FT)



Pigg River Dam Removal Restoration - Monitoring
Rocky Mount, Virginia

Year 2 - XS 12

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DATE: OCT 2018 SCALE: AS NOTED

Boundary and Topo Source:
WSSI and Orange Digital Data

Design	Draft	Approved
NAS	NAS	NAS

Sheet #
11 of 11

Computer File Name:
112208A_0220012206-0101-0000-0000-0000

Photographic Documentation of Tributary Channels

The following photos are provided as documentation of conditions seen at the mouth of tributaries located along Pigg River for areas upstream of the dam remains. Conditions at these confluence points can be generally characterized as having a deeply incised tributary channel which has downcut through deposits created during the past 100 years of backwater created by the dam. A steep drop (typically 1-2 feet) in invert elevation is typical as tributaries enter the main channel.



Photo T1

Location, Orientation: Tributary 1*, Looking Upstream from Pigg River

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/01/17, 10:33 AM

Description: Approximately 500 feet upstream of XS2

*Tributaries number sequentially, as encountered during annual monitoring (upstream to downstream)



Photo T2

Location, Orientation: Tributary 2, Looking Upstream from Pigg River
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: n/a
10/01/17, 12:26 PM

Description: Approximately 100 feet downstream of XS2



Photo T3

Location, Orientation: Tributary 3, Looking Upstream from Pigg River
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: n/a
10/01/17, 12:30 PM

Description: Approximately 500 feet downstream of XS2



Photo T4

Location, Orientation: Tributary 4, Looking Upstream from Pigg River

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/01/17, 12:39 PM

Description: Approximately 1,000 feet downstream of XS2



Photo T5

Location, Orientation: Tributary 5, Looking Upstream from Pigg River

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/01/17, 12:51 PM

Description: Approximately 200 feet upstream of XS3



Photo T6

Location, Orientation: Tributary 6, Looking Upstream from Pigg River
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: n/a
10/01/17, 1:00 PM

Description: Approximately 300 feet downstream of XS3



Photo T7

Location, Orientation: Tributary 7, Looking Upstream from Pigg River
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: n/a
10/01/17, 1:01 PM

Description: Approximately 300 feet downstream of XS3, opposite bank from Tributary 6.



Photo T8

Location, Orientation: Tributary 8, Looking Upstream from Pigg River

Permit Number: JPA #15-1551

Wetland Data Sheet Reference: n/a

10/01/17, 5:16 PM

Description: Approximately 500 feet downstream of XS4

Appendix B

Pebble Count Data

RIFFLE CROSS SECTION PEBBLE COUNT DATA WITH PARTICLE SIZE ANALYSIS								
Project Name: Pigg River Monitoring (WSSI# 22906.01)								
Stream ID & XS Station: XS12 (Located 50 ft. downstream in nearest riffle)					Date: Oct. 2018			
Evaluators: MEH, NAS					FORVA			
Pebble Count Data								
	Particle			Particle Count	ITEM %	CUM %	Particle Size Analysis	
	Description	Size (mm)		Total				
	Silt/Clay	0	0.062	3	3%	3%		
SAND	Very Fine	0.062	0.125	6	6%	9%		Silt/Clay (%) <u>3%</u>
	Fine	0.125	0.25	22	22%	31%		Sand (%) <u>28%</u>
	Medium	0.25	0.5	0	0%	31%		Gravel (%) <u>57%</u>
	Coarse	0.5	1.0	0	0%	31%		Cobble (%) <u>12%</u>
	Very Coarse	1.0	2.0	0	0%	31%		Boulder (%) <u>0%</u>
GRAVEL	Very Fine	2.0	4.0	0	0%	31%		Bedrock (%) <u>0%</u>
	Fine	4.0	5.7	0	0%	31%		D16 (mm) <u>0.16</u>
	Fine	5.7	8.0	1	1%	32%	D35 (mm) <u>14.01</u>	
	Medium	8.0	11.03	0	0%	32%	D50 (mm) <u>23.78</u>	
	Medium	11.3	16.0	5	5%	37%	D84 (mm) <u>58.15</u>	
	Coarse	16.0	22.6	11	11%	48%	D95 (mm) <u>90.00</u>	
	Coarse	22.6	32.0	16	16%	64%	D100 (mm) <u>128.00</u>	
	Very Coarse	32	45	11	11%	75%		
COBBLE	Very Coarse	45	64	13	13%	88%		
	Small	64	90	7	7%	95%		
	Small	90	128	5	5%	100%		
	Large	128	180	0	0%	100%		
BOULDER	Large	180	256	0	0%	100%		
	Small	256	362	0	0%	100%		
	Small	362	512	0	0%	100%		
	Medium	512	1024	0	0%	100%		
	Large - Vry Large	1024	2048	0	0%	100%		
	Bedrock	2048		0	0%	100%		
Total Particles				100				

