Upper Silver Creek Restoration Project Year 3 Monitoring Report

Burke County, North Carolina NCDMS Project ID Number – 94645 Catawba River Basin: 03050101-050050 SAW ID: 2010-02157, DWR # 13-0595



Project Info:	Monitoring Year: 3 of 5 Year of Data Collection: 2017 Year of Completed Construction: 2015 Submission Date: November 2017
Submitted To:	NCDEQ – Division of Mitigation Services 5 Ravenscroft Drive, Suite 102 Asheville, NC 28801 NCDEQ Contract ID No. 003270



November 30, 2017

NC Division of Mitigation Services (NCDMS) Attn: Mr. Matthew Reid, Western Project Manager 5 Ravenscroft Drive, Suite 102 Asheville, NC 28801

Subject: Response to DMS comments on the Year 3 Monitoring Report Review for the Upper Silver Creek Stream and Wetland Restoration Project; Catawba River Basin - CU# 03050101; Burke County, North Carolina; NCEEP Project # 94645; Contract No. 003270

Dear Mr. Reid,

Please find enclosed the final Upper Silver Creek Year 3 Monitoring Report. I have addressed the comments that you submitted on the draft report. My responses to your comments are the following:

<u>General</u>

- Wetland success has improved since MY2 and appears to be trending toward success. As a result, Task 9 will be paid in full. Please be aware that future task payments may be reduced if wetland gauges do not show signs of trending toward success and associated credits are deemed at risk.
 - *Comment is noted. We will continue to monitor the wetland gauges throughout the winter and MY4 and record any changes in wetland performance.*

MBAKERINTL.COM

Table 2

RBF

Ima

• Please add June 2017 invasive treatment to table.

KASEMAN

- Invasive treatment was added to Table 2.
- Please add July 2017 beaver dam removal to table
 - Beaver dam removal was added to Table 2.

MSALLYPORT

CCPV or Figure 3

- Modify either CCPV to show wetland components (R, E, Creation, riparian/nonriparian) or add *well* locations to Figure 3. The locations of the wells in relation to wetland component is valuable information for agency reviewers.
 - Both the CCPV and Figure 3 were modified to show both the wetland components and well locations on the site. This will make it easier to draw comparisons between the two maps in the future.

Table 5

- Draft hard copy was missing Table 5, but it was in the PDF. Please QA/QC finals hard copies before submittal for completeness.
 - Table 5 was added to the hard copy of the report.

Vegetation Plot Photos

- Currently labeled as Figure 3 in hard copy. Should be Figure 4 according to Table of Contents. It is correctly labeled in PDF.
 - The Vegetation Plot Photos have been labeled Figure 4 in the report as well as the Table of Contents.

Cross-sections

- Cross-section 7 does not have MY3 data overlaid on graph. Please update and verify morphology data is correct on graph and corresponding tables.
 - *MY3 data was added to Cross-section 7. Morphology data was correct on graph and corresponding tables.*

Profile

- The UT2 profile and sections of UT3 indicates significant aggradation. As Baker is aware, the USACE will be looking at defined bed/bank and often denies credit for channels that have become filled with sediment. I am aware of the large upstream sediment sources from past mining activities on UT2. Does Baker have any corrective action or adaptive management planned for these.
 - No corrective actions are planned for the upcoming year. These sections of UT2 and UT3 will be monitored throughout the winter to see if high seasonal flows clear any of the deposited sediment from the channels and reevaluated in MY4.

<u>Table 11</u>

- Consider increasing the significant digits on the Bank Height Ratio to two places. The BHR are shown this way on the cross-section plots (ex: XS1-1.06). This will help alleviate any problems with the IRT regarding calculating BHR and having "1.0" across the board. The IRT does not like to see 1.0 for BHR for every monitoring year. The IRT would like to see this number calculated for each monitoring year.
 - The significant digits on all Bank Height Ratios has been increased to two places on Tables 10 and 11. These will be presented this way going forward.

Table 12a

- Please double check the last column of data (Number of Instances where Water Table is 12 Inches from Ground Surface). I am unable to determine how the numbers shown are calculated when looking at the graphs. Consider removing this table from the report and just including in electronic deliverables. If you decide to remove from report, please update Table of Contents and Appendix E sheet.
 - The data in this column was still linked to earlier versions of the spreadsheet and had not updated. This has been corrected and the numbers now reflect data from MY3. This table was removed from the hard copy of the report but included in the electronic deliverables. The Table of Contents has been updated.

If you have any questions or find any issues that need to be addressed, please contact me directly at (828) 412-6100. I am submitting an invoice for this task to Ms. Debby Davis in the Raleigh DMS Office and will be providing you an email copy.

Sincerely, y Clemmons

Micky Clemmons, Project Manager Michael Baker Engineering, Inc.

Upper Silver Creek Restoration Project Year 3 Monitoring Report

Burke County, North Carolina NCDMS Project ID Number – 94645

Report Prepared and Submitted by Michael Baker Engineering, Inc. 797 Haywood Road, Suite 201 Asheville, NC 28806

NC Professional Engineering License # F-1084



INTERNATIONAL

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1.0 EXECUTIVE SUMMARY

Michael Baker Engineering, Inc. (Baker) restored or enhanced 5,186 linear feet (LF) of perennial stream channel along Silver Creek and three unnamed tributaries (UT1, UT2, and UT3); and additionally restored, enhanced or created approximately 9.14 acres of wetlands that had been previously disturbed in Burke County, NC, (Appendix A). The Upper Silver Creek Stream and Wetland Restoration Project (Site) is located southeast of Morganton, NC, approximately 11 miles southeast of the intersection of Highway 64 and Goldmine Road. The Site is located in the NC Division of Water Resources (NCDWR) sub-basin 03-08-31 and the NCDEQ Division of Mitigation Services (NCDMS) Targeted Local Watershed (TLW) 03050101-050050 of the Catawba River Basin. The project involved the restoration and enhancement of a Piedmont/Mountain Mixed Bottomland Hardwood Forest system (NC WAM 2010, Schafale and Weakley 1990) from impairments within the project area due to past agricultural conversion, cattle grazing, gold mining and draining of floodplain wetlands by ditching activities.

The project goals directly addressed stressors identified in the Catawba River Basin Restoration Priority (RBRP) Plan such as degraded riparian conditions, channel modification, and excess sediment and nutrient inputs. The primary restoration goals, as outlined in the approved mitigation plan, are described below:

- Create geomorphically stable stream channels within the Upper Silver Creek project area including headwater tributaries in the Catawba River basin;
- Restore, enhance, and expand wetland functions across the Site;
- Improve and restore hydrologic connections between streams and degraded riparian wetland areas and overall ecosystem functionality;
- Improve water quality within the Upper Silver Creek project area through reduction of bank erosion, improved nutrient and sediment removal, and stabilization of streambanks; and
- Improve aquatic and terrestrial habitat.

To accomplish these goals, we recommended the following actions:

- Restore the existing incised, eroding, and channelized stream by creating a stable channel that has access to its floodplain;
- Improve water quality by establishing buffers for nutrient removal from runoff and by stabilizing stream banks to reduce bank erosion;
- Improve in-stream habitat by providing a more diverse bedform with riffles and pools, creating deeper pools, developing areas that increase oxygenation, providing woody debris for habitat, and reducing bank erosion; and
- Improve terrestrial habitat by planting riparian areas with native vegetation and protecting these areas with a permanent conservation easement. The riparian area will increase storm water runoff filtering capacity, improve bank stability, provide shading to decrease water temperature and improve habitat.

During early 2017, there was at least one high flow event that inundated the floodplain, depositing woody debris and other flotsam in wrack lines well away from the top of bank. This event does not appear to have significantly impacted the bank repairs that were made after the flood event in 2015, although one of the repaired areas is beginning to show erosion and undercutting (CPA-3). Year 3 (MY3) monitoring indicated

that the planted acreage was functioning well with no bank, bench or flood plain areas having bare areas of a significant size.

Invasive Chinese privet and multiflora rose were noted in the MY2 Monitoring Report as a problem, and were treated in June 2017. We will continue to treat invasive vegetation within this area with herbicide to minimize new growth. The areas of mowing encroachment noted in MY2 were marked with t-posts and flagged early in 2017, and there were no new mowing encroachments noted when MY3 monitoring was conducted. We have established and are monitoring fourteen (14) vegetation plots at this site. The average density of total planted stems following the MY3 growing season is 720 stems per acre, with an additional average of 64 volunteer stems per acre. Based on the average density of 720 planted stems per acre, the Site is on track to meet the established success criteria.

Stream geomorphological stability and performance during MY3 was assessed by surveying sixteen crosssections, a profile of each channel, evaluating the bed particle size with five riffle pebble counts and by replicating channel location photographs. Channel cross-sections and profiles were similar to what was observed in the past with no major instability identified and the general morphology is responding as designed and meeting project goals. At least one significant flood event that was greater than bankfull occurred during MY3. This storm event caused valley wide flooding with wrack lines well away from the top of stream banks. Stream pebble data indicated that the shift to smaller particles on Silver Creek main stem had stabilized at sizes similar to what was seen in previous years. Pebble counts on UT2 and UT3 indicate that fine sediment has accumulated in the channels since MY2. This is likely due to several factors. Backwater from Silver Creek during high water events inundates the location of the pebble count along UT2. It is likely that suspended fine sediment drops out of the water column in this backwater. Also, low flows early in the year allowed herbaceous vegetation to encroach into the channel and impede flow. This prevented fine particulates that entered from upstream of the project from moving through the system and eventually filled sections of the streambed with a layer of fine silt and clay. Lastly, all three pebble counts on the unnamed tributaries were taken in constructed riffles which were designed to be immobile. The constructed riffle material is designed to be much coarser than the natural sediment load than the stream receives. The natural, finer sediment load, is often then deposited on top of the constructed riffles, which shifts the bed material to a finer grain size distribution as compared to the as-built condition. Overall, these data indicate a properly functioning system, as there were no mid-channel bars or other sediment transport issues.

Wetland monitoring during MY3 demonstrated that nine of the thirteen groundwater monitoring wells located on the Site met the wetland success criteria as stated in the Site Mitigation Plan (up from three of thirteen in MY2). The gauges that met success criteria (USAW1, USAW2, USAW5, USAW7, USAW8, USAW9, USAW10, USAW11, and USAW13) demonstrated consecutive hydroperiods of 12 percent or greater, ranging from 21.2 to 57.2 percent of the growing season. The gauges that did not meet success criteria demonstrated consecutive hydroperiods of 12 percent to 10.1 percent of the growing season. To rectify the wide range of rainfall data available from several nearby weather stations, a recording rain gauge was placed on-site and will be used in future monitoring years.

Summary information/data related to the Site and statistics related to performance of various project and monitoring elements can be found in the tables and figures in the report Appendices. Narrative background and supporting information formerly found in these reports can be found in the Baseline Monitoring Report and in the Mitigation Plan available on the NCDMS website. All raw data supporting the tables and figures in the appendices are available from NCDMS upon request.

2.0 METHODOLOGY

The monitoring plan for the Site includes criteria to evaluate the success of the stream, wetland and vegetation components of the project. The methodology and report template used to evaluate these components adheres to the NCDMS monitoring guidance document dated December 1, 2009 and other mitigation guidance (NCDMS 2009 and USACE 2003), which will continue to serve as the template for subsequent monitoring years. The specific locations of monitoring features: vegetation plots, permanent cross-sections, monitoring wells, flow gauges, and the crest gauge, are shown on the CCPV sheets found in Appendix A.

The Year 3 monitoring data and site photographs were collected in October 2017.

2.1 Vegetation Assessment

In order to determine if vegetation success criteria are achieved, vegetation monitoring quadrants (veg plots) were installed and are monitored across the Site in accordance with the CVS-NCDMS Protocol for Recording Vegetation, Version 4.1 (CVS 2007 and Lee, Peet, Roberts and Wentworth 2007). The vegetation monitoring plots are a minimum of two percent of the planted portion of the Site with 14 plots established randomly within the planted riparian buffer and wetland area, per CVS Monitoring Level 2. No veg plots were established within the undisturbed wooded areas along the right bank of Silver Creek. The size of individual quadrants is 100 square meters for woody (tree) species and 1 square meter for herbaceous vegetation. Herbaceous quadrants were established in one corner of the larger woody plots and are monitored by comparing photographs taken year to year.

Year 3 monitoring found that all vegetation was in good condition. All vegetation monitoring quadrants indicated that vegetation was growing and in good to excellent condition. The average density of planted stems following the Year 3 growing season was 720 stems per acre. There was also an average of 64 volunteer stems per acre, composed of six different tree species. With an average density of 720 planted stems per acre, the Site has met the minimum interim success criteria of 320 stems per acre by the end of Year 3, and is on track to meet the final success criteria of 260 stems per acre by the end of Year 5.

The Vegetation Problem Area that was observed and noted in the MY2 monitoring report was addressed in Year 3. The Chinese privet found along the right floodplain of Silver Creek downstream of UT2 was treated during June 2017. All existing privet and new growth was treated with glyphosate in this area, and various other invasive vegetation was treated as necessary. Other target species included multiflora rose and Japanese honeysuckle. At the end of MY3, invasive vegetation growth is under control and will continue to be treated as necessary.

The four previously identified mowing encroachment areas from MY2 were marked using t-posts, PVC pipe and flagging in March 2017 before the landowner began mowing. The easement boundary is now easy to see and avoid encroachment. At the end of MY3 no areas of encroachment have been noted.

No other areas of concern regarding the vegetation were observed along Silver Creek or the tributaries. Year 3 vegetation assessment information is provided in Appendix C.

2.2 Stream Assessment

The Upper Silver Creek Site approach is for restoration of a stable morphology that allows for the transport of water and sediment through the Site and allows stream flows larger than bankfull flows to spread onto the floodplain. Stream monitoring efforts focus on visual observations, a crest gauge to document bankfull flooding events, surveying established stream cross-sections and channel profiles to assess channel stability and pebble counts to assess if proper sediment transport is taking place.

Stream survey data was collected to a minimum of Class C Vertical and Class A Horizontal Accuracy using Leica TS06 Total Station and was georeferenced to the NAD83 State Plane Coordinate System, FIPS3200 in US Survey Feet, which was derived from the As-built Survey.

2.2.1 Morphologic Parameters and Channel Stability

Cross-sections were classified using the Rosgen Stream Classification System (Rosgen 1994) and all cross-sections were evaluated to determine if they meet design expectations. Cross-sections were also compared to the baseline cross-section plots to evaluate change between construction and the MY3 survey. Morphological survey data is presented in Appendix D.

A longitudinal profile was surveyed for the entire length of each channel to document changes from the as-built baseline conditions during the first year of monitoring. The survey was tied to a permanent benchmark and measurements included thalweg, water surface, and top of low bank. Each of these measurements was taken at the head of each feature (e.g., riffle, pool) and at the maximum pool depth.

Stream geomorphological stability and performance during MY3 was assessed by surveying sixteen (16) cross-sections (7 on Silver Creek, 2 on UT1, 2 on UT2 and 5 on UT3) and a profile of these channels as described above. The bed particle size was evaluated with five riffle pebble counts (2 on Silver Creek and 1 on each of the tributaries) and by observation and replicating channel location photographs. Cross-sections of all the channels were very similar to past years especially at riffle cross-sections. Most pool cross-sections showed some level of deposition. This was likely due to low levels of flow during dry periods of the year. There was little change from past profile surveys and profiles of each channel do not indicate any instability issues.

The Visual Morphological Stability Assessment indicates that the Site is stable with only minor CPAs identified. Two instances of piping were noted at two log vanes along the mainstem. These structures are called out in the CCPV as CPA-1 and CPA-2. There is also one instance of bank erosion and bank undercutting (CPA-3). The locations, descriptions and photos of this damage are included in the Stream Problem Areas Table in Appendix D and in the MY3 data electronic file. These sites will be monitored in the coming year and repaired if necessary. Overall, channel morphology is responding as designed and meeting project goals.

Pebble count data for MY3 indicates that the shift to smaller particles on Silver Creek mainstem has stabilized at sizes similar to what was seen in previous years. Pebble counts on UT2 and UT3 indicate that fine sediment has accumulated in the channels since MY2. This is likely due to several factors. Backwater from Silver Creek during high water events inundates the location of the pebble count along UT2. It is likely that suspended fine sediment drops out of the water column in this backwater. Also, low flows early in the year allowed herbaceous vegetation to encroach into the channel and impede flow. This prevented fine particulates that entered from upstream of the project from moving through the system and eventually filled sections of the streambed with a layer of fine silt and clay. Lastly, all three pebble counts on the unnamed tributaries were taken in constructed riffles which were designed to be immobile. The constructed riffle material is designed to be much coarser than the natural sediment load than the stream receives. The natural, finer sediment load is often then deposited on top of the constructed riffles, which shifts the bed material to a finer grain size distribution as compared to the as-built condition. We will monitor these reaches to determine whether this problem resolves itself as the herbaceous vegetation dies back and high winter flows begin to move through the system. Overall, these data indicate a properly functioning system, as there were no mid-channel bars or other sediment transport issues.

Two beaver dams were removed from the site during MY3 near the lower end of Reach 2 (Station 22+50 and Station 25+50). These dams backed up water in the stream, but do not appear to have

done permanent damage to streambanks or structure. Photos of the dams can be found in the Photolog.

2.2.2 Hydrology

Two crest gauges were installed on the floodplain at this site, at the bankfull elevation. One is located along the left top of bank on Silver Creek, at approximately Station 19+00, and the second is on the left top of bank of UT3, at approximately Station 9+50. Crest gauges on Silver Creek and on UT3 recorded water levels of approximately .45 feet and .25 feet above bankfull, respectively. Physical indicators of bankfull flows, such as wrack lines and debris on the bank, were also observed throughout the reach. The event that occurred on 4/24/2017 was the highest flow recorded in the area, and likely caused the high flow recorded on project site crest gauges and shown in Table 9, the bankfull verification information. There was also a high flow recorded on 10/23/2017-10/24/2017 that left debris piles and wrack lines above bankfull level throughout the site, but did not register on the crest gauge. Crest gauge readings are presented in Appendix D.

2.2.3 Photographic Documentation

Reference transects were photographed at each permanent cross-section. The survey tape was centered in the photograph of the bank. The water line was located in the lower area of the frame, and as much of the bank as possible included in each photograph. Photographs were also taken at specific photo points established along each channel during baseline reporting. Photographs from these points will be replicated each year and used to document changes along the channel. Points were selected to include grade control structures as well as other structural components installed during construction. Annual photographs from the established photo points are shown in Appendix D and do not indicate any stability issues at the site and no failing structures.

2.3 Wetland Assessment

Thirteen automated groundwater-monitoring stations were installed in the wetland restoration area to document the hydrologic conditions during the monitoring period. The installations followed USACE protocols (USACE 1997). Groundwater data collected during Year 3 monitoring are located in Appendix E.

To meet the hydrologic success criteria, the monitoring gauge data must show that for each normal rainfall year within the monitoring period, the Site has been inundated or saturated for a certain hydroperiod. Criteria have been met when the wetland is saturated within 12 inches of the soil surface for 12 percent of the growing season when rainfall amounts approximate normal conditions. Alternatively, when dry conditions prevail, we may use the fourteen (14) or more consecutive days during the growing season when antecedent precipitation has been drier than normal for a minimum frequency of 5 years in 10 to 50 percent of the monitoring period (USACE, 1987 and 2005).

Visual monitoring of wetland areas will be conducted annually. Photographs will be used to visually document system performance and identify areas of low stem density, invasive species vegetation, beaver activity, or other areas of concern. Reference stations will be photographed each year for a minimum of five years following construction. Photographs will be taken from a height of approximately five to six feet. Permanent well markers were established and used to ensure that the same locations (and view directions) on the Site are documented in each monitoring period.

Wetland monitoring during MY3 demonstrated that nine of the thirteen groundwater monitoring wells located on the Site met the wetland success criteria as stated in the Site Mitigation Plan. Although four wells did not meet criteria, these data suggest a significant improvement in wetland performance since MY2. The gauges that met success criteria (USAW1, USAW2, USAW5,

USAW7, USAW8, USAW9, USAW10, USAW11, and USAW13) demonstrated consecutive hydroperiods of 12 percent or greater, these ranged from 21.2 to 57.2 percent of the growing season. The gauges that did not meet success criteria (USAW3, USAW4, USAW6, and USAW12) demonstrated consecutive hydroperiods of 12 percent or less, with a range from 5.3 percent to 10.1 percent of the growing season. The rain data for the region (Figure 9) shows that rainfall in the early months of 2017 was at or below average. The early months of the growing season are generally when wetland water tables are highest on mitigation sites. This lack of early year rainfall may have contributed to the four unsuccessful gauges. Baker will continue to monitor the groundwater hydrology of the Site during Monitoring Year 4.

An on-site recording rain gauge was installed at the site in August 2017. Data from this gauge will be used to measure local precipitation in the future to eliminate reliance on the nearby CRONOS stations. These stations often show a high level of variance across a small geographic area, which makes it difficult to determine the actual amount of rain the site receives. Having direct access to this data will allow accurate precipitation data to be collected and presented in future monitoring years.

3.0 REFERENCES

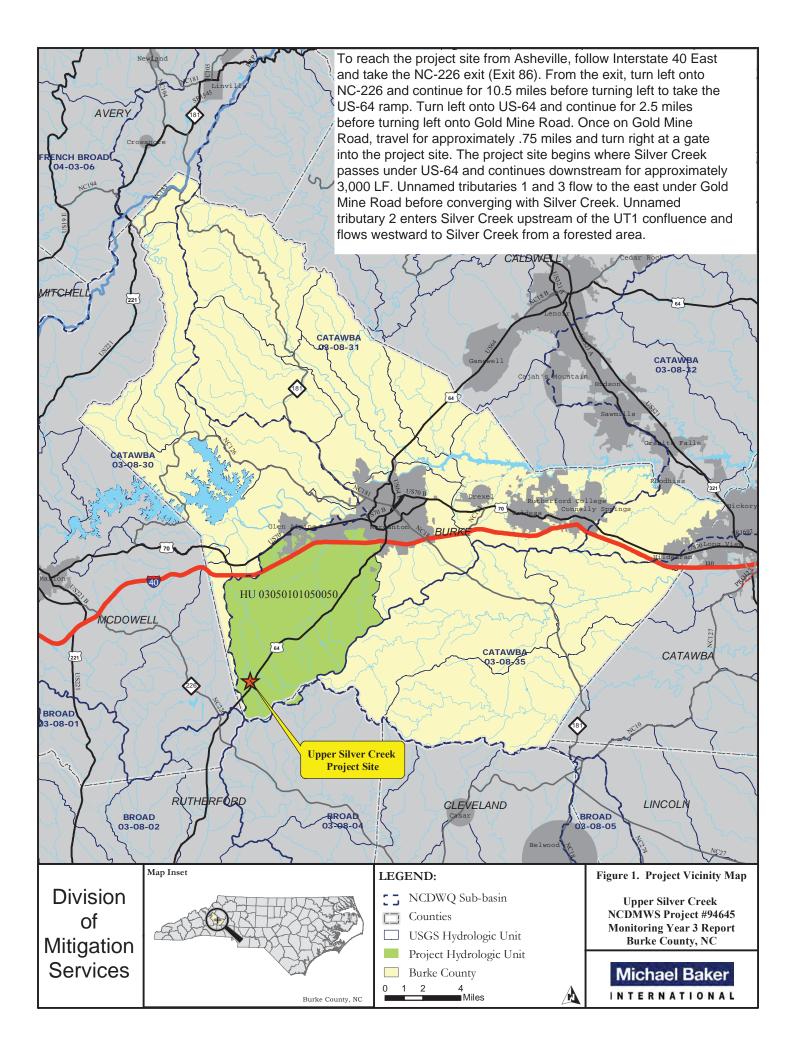
- Carolina Vegetation Survey (CVS) and NC Ecosystem Enhancement Program (NCEEP). 2007. CVS-NCEEP Data Entry Tool v. 2.3.1. University of North Carolina, Raleigh, NC.
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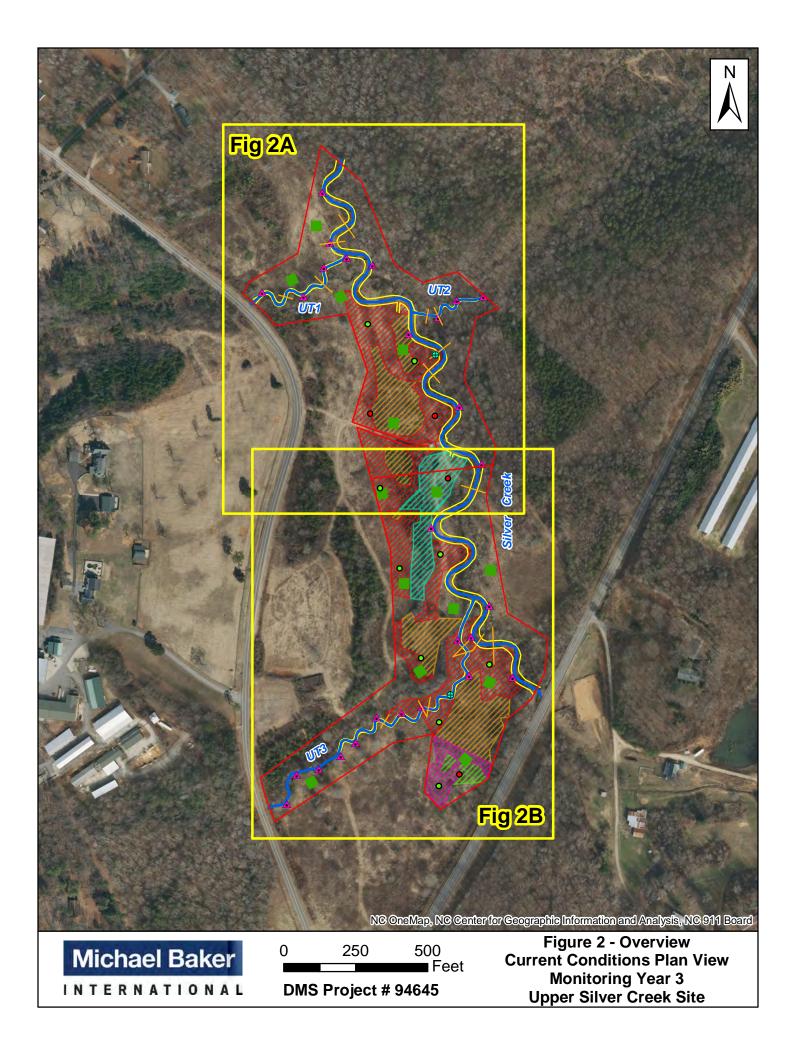
Appendix A

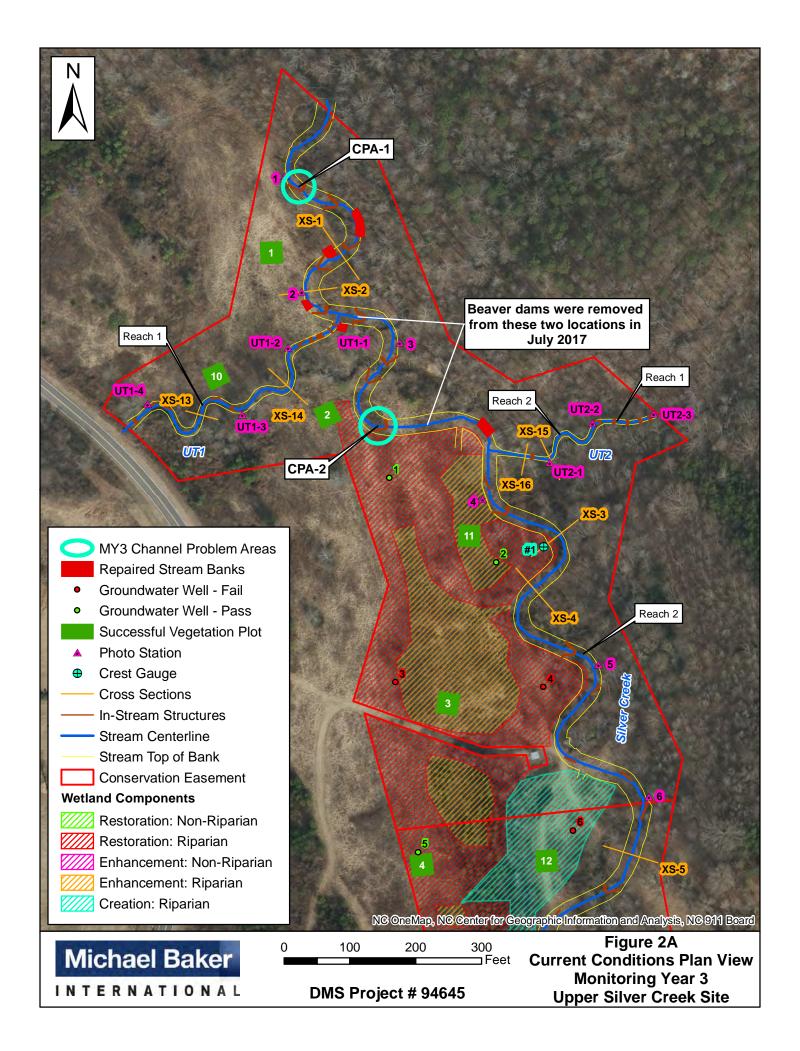
General Figures and Plan Views

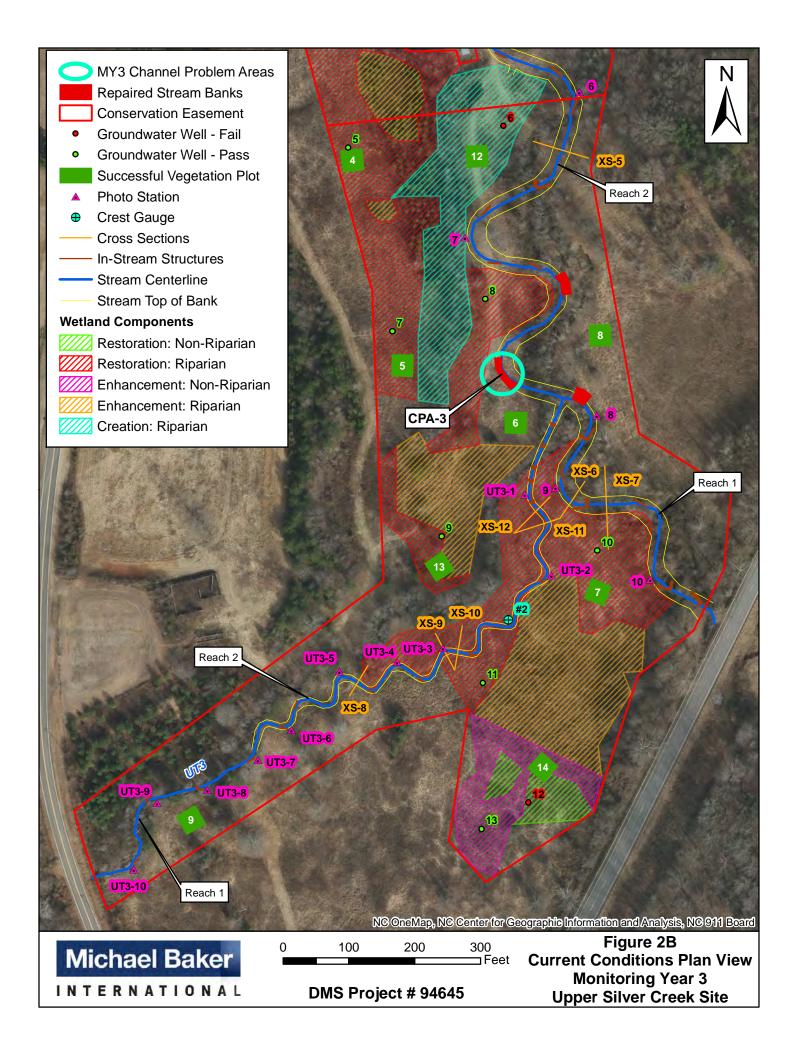
Includes:

Figure 1. Project Vicinity Map and Directions
Figure 2. Current Condition Plan View (CCPV) – Overview Map
Figure 2A. CCPV North half of Project
Figure 2B. CCPV South half of Project









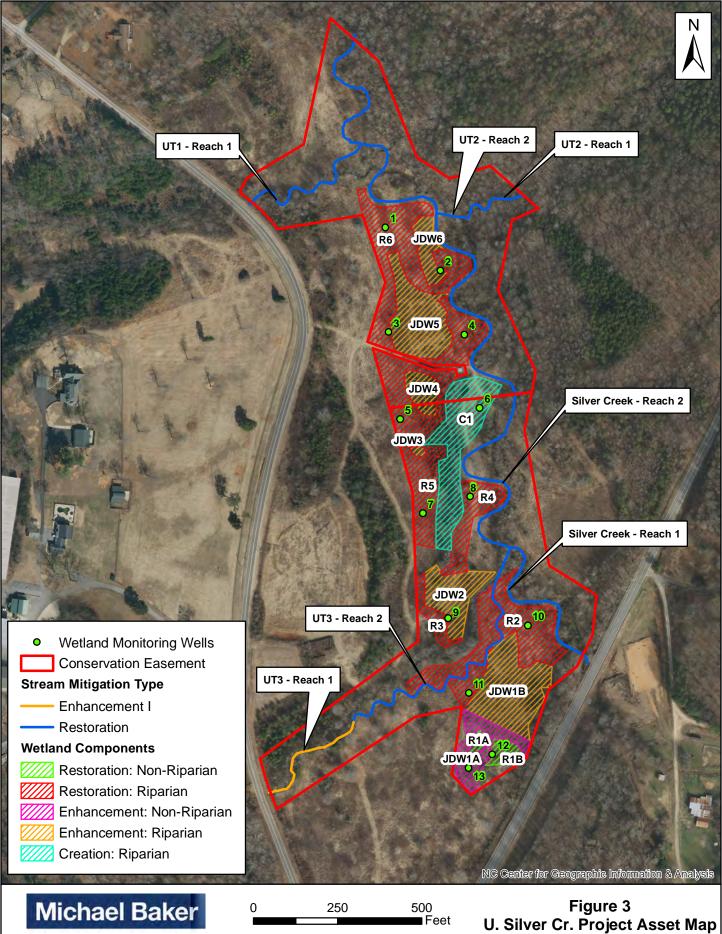
Appendix B General Project Tables

Includes:

Table 1. Project Components and Mitigation Credits
Figure 3. U. Silver Cr. Project Asset Map
Table 2. Project Activity and Reporting History
Table 3. Project Contacts
Table 4. Project Attributes

pper Si	ilver Creek Re	estoration P	roject: DM	S Project ID	No. 94645	Mitigati	on Credits				
	Stre	am	Ri	parian Wetl	and		riparian W	etland	Buffer	Nitrogen Nutrient Offset	Phosphorus Nutrient Offse
Туре	R	EII	R	Е	C	R	Е	С			
Totals	4,843 SMU	137 SMU	4.67 WMU	1.43 WMU	0.33 WMU		0.21 WMU				
0	Component Reach ID	Stat	ioning/ Loc:	ation	Existing I Acre	Footage/	•	roach	Restoration/ Restoration Equivalent	Restoration Footage or Acreage	Mitigation Rati
TREAM	-								1		
Silver C				•	2643	B LF					<u> </u>
	Reach 1		+32 to 8+7					tion - PII	838 SMU	838 LF	1:1
174	Reach 2	8.	+70 to 30+4	ŧδ	470		Restora	ation - PI	2,178 SMU	2178 LF	1:1
JT1	Booch 1		107 to 5 10	n	478		Deate	tion DI	405 01411	405 1 5	4.4
JT2	Reach 1	0	+07 to 5+0	۷	187		Restora	ation - PI	495 SMU	495 LF	1:1
112	Reach 1	0	+00 to 1+0	3	107	Lſ	Rostora	ation - PI	103 SMU	103 LF	1:1
	Reach 2	-	+00 to 1+0 +03 to 3+1	-				ation - PI	207 SMU	207 LF	1:1
IT3	INEACH 2	1	+03 10 3+1	0	1,16	21 F	Resion		207 31010	207 LF	1.1
JT3 Reach 1 0+00 to 3+43				3	1,10		Enhanc	cement I	137 SMU	343 LF	2.5:1
	Reach 2		+43 to 13+6					ation - PI	1,022 SMU	1,022 LF	1:1
	Reddinz	Ũ			ł		11001010		1,022 0110	1,022 EI	1.1
VETLA	NDS	Se	e plan she	ets	1						
	/1a (NR)				0.42	AC	Enhand	cement	0.21 WMU	0.42 AC	2:1
	V1b (Ri)				1.01	AC	Enhand	cement	0.51 WMU	1.01 AC	2:1
JD\	W2 (Ri)				0.51	AC	Enhand	cement	0.25 WMU	0.51 AC	2:1
JD\	W3 (Ri)				0.03	AC	Enhand	cement	0.02 WMU	0.03 AC	2:1
JD/	W4 (Ri)				0.24	AC	Enhand	cement	0.12 WMU	0.24 AC	2:1
	W5 (Ri)				0.81		Enhand	cement	0.40 WMU	0.81 AC	2:1
	W6 (Ri)				0.25		Enhand		0.13 WMU	0.25 AC	2:1
	A (NR)				0		Resto		0.06 WMU	0.06 AC	1:1
	B (NR)				0		Resto		0.15 WMU	0.15 AC	1:1
	2 (Ri)				0		Resto		1.22 WMU	1.22 AC	1:1
	3 (Ri)				0		Resto		0.18 WMU	0.18 AC	1:1
	4 (Ri)				0		Resto		0.44 WMU	0.44 AC	1:1
	5 (Ri) 6 (Ri)				0		Resto Resto		1.29 WMU 1.54 WMU	1.29 AC 1.54 AC	<u>1:1</u> 1:1
	1 (Ri)				0			ation	0.33 WMU	0.99 AC	3:1
					-				0.00 WIND	0.00710	0.1
						Componen	t Summatio	n			
]	Restoration L	evel	Strea	m (LF)		an Wetlan		Non-ripa	rian Wetland (AC)	Buffer (SF)	Upland (AC)
	-				Riverine	Non-F	liverine				
	Restoration		4,	843	4.67				0.21		
	Enhancement			42	2.85				0.42		
	Enhancement Creation	. 11	3	43	0.99						
	Preservation	1			0.99						
Hiol	n Quality Prese										
	2					BMP	Elements				
lement		Location	Purpose/Fu	nction		Notes					
								Detention P	ond; DDP= Dry Deter	ition	
	- Filter String	S= Grassed	Swale: I S=1	evel Spread	ler; NI=Natur	al Infiltratic	n Area				

MICHAEL BAKER ENGINEERING, INC. YEAR 3 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT 94645



INTERNATIONAL

DMS Project # 94645

Upper Silver Creek Site

Table 2. Project Activity and Reporting History Upper Silver Creek Restoration Project: DMS Project ID N	No. 94645		
Activity or Report	Scheduled Completion	Data Collection Complete	Actual Completion or Delivery
Mitigation Plan Prepared	Jan-13	N/A	Jan-13
Mitigation Plan Amended	Sep-13	N/A	Sep-13
Mitigation Plan Approved	Oct-13	N/A	Oct-13
Final Design – (at least 90% complete)	N/A	N/A	May-14
Construction Begins	N/A	N/A	May-14
Temporary S&E mix applied to entire project area	N/A	N/A	Dec-14
Permanent seed mix applied to entire project area	N/A	N/A	Dec-14
Planting of live stakes	Winter 2015	N/A	Feb-15
Planting of bare root trees	N/A	N/A	Feb-15
End of Construction	N/A	N/A	Dec-14
Survey of As-built conditions (Year 0 Monitoring-baseline)	N/A	Mar-15	Jul-15
Repair of 3 piping structures	N/A	N/A	Aug-15
Mitigation Plan Addendum	N/A	N/A	Dec-15
Year 1 Monitoring	Dec-15	Dec-15	Apr-16
Repair of channel problem areas resulting from flooding	N/A	N/A	Mar-16
Year 2 Monitoring	Dec-16	Nov-16	Dec-16
Invasive vegetation treatment	N/A	N/A	Jun-17
Beaver dam removal	N/A	N/A	Jul-17
Year 3 Monitoring	Dec-17	Oct-17	Dec-17
Year 4 Monitoring	Dec-18	N/A	N/A
Year 5 Monitoring	Dec-19	N/A	N/A

Table 3. Project Contacts	
Upper Silver Creek Restoration Project: D	MS Project ID No. 94645
Designer	
Michael Baker Engineering, Inc.	797 Haywood Rd Suite 201
Michael Bakel Engineering, Inc.	Asheville, NC 28806
	Contact:
	Micky Clemmons, Tel. 828-412-6100
Construction Contractor	
River Works, Inc.	6105 Chapel Hill Road
Kiver works, me.	Raleigh, NC 27607
	Contact:
	Phillip Todd, Tel. 919-582-3575
Planting Contractor	
River Works, Inc.	6105 Chapel Hill Road
Kiver works, me.	Raleigh, NC 27607
	Contact:
	Phillip Todd, Tel. 919-582-3575
Seeding Contractor	
River Works, Inc.	6105 Chapel Hill Road
	Raleigh, NC 27607
	Contact:
	Phillip Todd, Tel. 919-582-3575
Seed Mix Sources	Green Resources (seed), Tel. 336-855-6363
Nursery Stock Suppliers	Mellow Marsh Farm (trees), 919-742-1200
	ArborGen Inc. (trees), 843-528-3204
	Dykes and Son (trees), 931-668-8833
Monitoring Performers	
Michael Baker Engineering, Inc.	797 Haywood Rd Suite 201 Asheville, NC 28806
	Contact:
Stream Monitoring Point of Contact	Micky Clemmons, Tel. 828-412-6100
Vegetation Monitoring Point of Contact	Micky Clemmons, Tel. 828-412-6100
Wetland Monitoring Point of Contact	Micky Clemmons, Tel. 828-412-6100

MICHAEL BAKER ENGINEERING, INC. YEAR 3 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Table 4. Project Attributes													
Upper Silver Creek Restoration Project: D	V												
	Project Inform												
Project Name	Upper Silver Creek Mitigation Pro	ject											
County	Burke												
Project Area (acres)	22.0												
Project Coordinates (latitude and longitude)	35.6078 N, -81.81742 W												
	Watershed Summary	Information											
Physiographic Province	Blue Ridge (borders Piedmont)												
River Basin	Catawba												
USGS Hydrologic Unit 8-digit and 14-digit	03050101 / 03050101050050												
DWR Sub-basin	03-08-31												
Project Drainage Area (AC)	Mainstem 2.7 - 3.3, UT1 0.28, UT2												
Project Drainage Area Percentage of	~29/												
Impervious Area													
· ·	Deciduous Forest (64%) Woody Wetlands (1%												
	Evergreen Forest (3%) Developed, Open Space (5%)												
USGA Land Use Classification	Shrub/Scrub (5%))		Pasture/Hay (14%)									
	Grassland/Herbaceous												
	Forest (59%)	(0,0)											
NCDMS Land Use Classification for Silver	Agriculture (23%)												
Creek Watershed	Impervious Cover (2.9%)												
	Stream Reach Summar	v Information											
Demonsterne	Mainstem - Reach 1		Decek 2	[
Parameters		Mainstem											
Length of Reach (LF)	838	2,1											
Valley Classification (Rosgen)	VIII	V											
Drainage Area (AC)	1,746	2,1											
	VR Stream Identification Score 49.5 49.5												
NCDWR Water Quality Classification	С	(
Morphological Description (Rosgen stream	E	E											
type)	Incised channel, little connection to	,											
	floodplain	to floo											
Evolutionary Trend	$E \rightarrow G, E \rightarrow C/F$	E→G, l											
Underlying Mapped Soils	AaA, FnA, UnB	AaA, Fn	A, UnB										
Drainage Class	Somewhat poorly to well drained	Somewhat poorly	y to well drained										
Soil Hydric Status	Site-specific	Site-sp	pecific										
Average Channel Slope (ft/ft)	0.004	0.0	04										
FEMA Classification	Zone AE	Zone	e AE										
	Piedmont/Mtn. Mixed Bottomland	Piedmont/Mtn. M	lixed Bottomland										
Native Vegetation Community	Hardwoods	Hardy	voods										
Percent Composition of Exotic/Invasive Vegetation	10%	59	%										
Parameters	UT1 - Reach 1	UT2 - F	Reach 1	UT2 - Reach 2									
Length of Reach (LF)	495	10		207									
Valley Classification (Rosgen)				III									
Drainage Area (AC)	177	3		32									
NCDWR Stream Identification Score	47.5	4		45									
NCDWR Water Quality Classification	C												
NCDWK water Quanty Classification	Gc	channe		channelized B									
Morphological Description (Rosgen stream	Incised channel, little connection to		nzeu D										
type)	floodplain	channelized/di		channelized/ditched channel									
Evolutionary Trend	Gc→F	B→F		$B \rightarrow F \rightarrow C$									
Underlying Mapped Soils	AaA, FnA	Ur	ıΒ	UnB, FnA									
Drainage Class	Somewhat poorly to well drained	Somewhat poorly		Somewhat poorly to well drained									
Soil Hydric Status	Site-specific	Site-sp		Site-specific									
Average Channel Slope (ft/ft)	0.016	0.0		0.037									
FEMA Classification	N/A	N/		N/A									
Native Vegetation Community	Piedmont Dry-Mesic Oak and Hardwoods to Mixed Bottomland Hardwoods		lixed Bottomland	Piedmont/Mtn. Mixed Bottomland Hardwoods									
Paraant Composition of Evotis/Investor	Thur woods												
Percent Composition of Exotic/Invasive	5%	29	%	2%									
Vegetation													

MICHAEL BAKER ENGINEERING, INC. YEAR 3 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Parameters	UT3 - F	Reach 1	UT3 - 1	Reach 1					
Length of Reach (LF)	34	12		006					
Valley Classification (Rosgen)	I		· · · · · · · · · · · · · · · · · · ·	II					
Drainage Area (AC)	12			23					
NCDWR Stream Identification Score	49.	.75	49	.75					
NCDWR Water Quality Classification	(2	(2					
	B/	Έ	I	Ξ					
Morphological Description (Rosgen stream	Aggrading at upp	er end then stable	Incised channel,	little connection					
type)	to incising a	at lower end	to floc	dplain					
Evolutionary Trend	B/E-	→G	E-	→G					
Underlying Mapped Soils	Aa	ıА	AaA	, FnA					
Drainage Class	Somewhat poorly	y to well drained	Somewhat poorl	y to well drained					
Soil Hydric Status	Site-sp	pecific	Site-s	pecific					
Average Channel Slope (ft/ft)	0.0			15]				
FEMA Classification	N/		N]				
Native Vegetation Community	Piedmont Dry- Hardy			fixed Bottomland woods					
Percent Composition of Exotic/Invasive Vegetation	29	2⁄0	2'	2⁄0					
	Wet	land Summary I	nformation						
Parameters	JDW1	JDW2	JDW3	JDW4	JDW5	JDW6			
Size of Wetland (AC)	1.43	0.51	0.03	0.24	0.81	0.3			
Wetland Type	Riparian	Riparian	Riparian	Riparian	Riparian	Riparian			
Mapped Soil Series	FnA	FnA	FnA	FnA	FnA	FnA			
······································		Somewhat	Somewhat	Somewhat	Somewhat	Somewhat			
Drainage Class	Somewhat poorly	poorly to well							
	to well drained	drained	drained	drained	drained	drained			
Soil Hydric Status	Site-specific	Site-specific	Site-specific	Site-specific	Site-specific	Site-specific			
Source of Hydrology	Hillslope seepage; Baseflow; Overbank Flooding								
Hydrologic Impairment	Partially	Yes	No	Partially	Partially	Partially			
Native Vegetation Community	Piedmont/Moun	tain Mixed Botton	nland Hardwood F also present near	orest. Successiona Wetlands 2 & 5.	al Deciduous Fore	st Land was once			
Percent Composition of Exotic/Invasive Vegetation	~30%	~55%	~10%	~40%	~55%	~35%			
	R	egulatory Consid	lerations	•	•	•			
Regulation	Applicable	- •	Resolved		Supporting D	ocumentation			
Waters of the United States – Section 404	Yes		Yes			l Exclusion			
Waters of the United States - Section 401	Yes		Yes			l Exclusion			
Endangered Species Act	Yes		Yes		Categorical Exclusion				
Historic Preservation Act	Yes		Yes		Categorica	l Exclusion			
Coastal Zone Management Act (CZMA)/ Coastal Area Management Act (CAMA)	No		N/A		N/A				
FEMA Floodplain Compliance	Yes		Yes	Categorica	l Exclusion				
Essential Fisheries Habitat	No		N/A	-					
Notes:		I.			N/A				

Notes:

1. See Figure 2.3 of Mitigation Plan for key to soil series symbols.

2. All wetlands had been disturbed to some degree at the time the project was initiated. As a result, only remnants of native vegetative communities exist in the wetland areas.

3. Fescue is considered as invasive vegetation; it and other field grasses were the dominant nonnative wetland vegetation observed.

4. USGS Land Use Data (2001) used rather than CGIA Land Use Classification data which is more outdated (1996).

5. Source: Upper Catawba River Basin Restoration Priorities (NCEEP 2009) (https://deq.nc.gov/about/divisions/mitigation-services/dms-

planning/watershed-planning-documents/catawba-river-basin)

MICHAEL BAKER ENGINEERING, INC. YEAR 3 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Appendix C Vegetation Assessment Data

'""""Includes:

 Table 5. Vegetation Plot Mitigation Success Summary

Table 6. CVS Vegetation Metadata Table

Table 7. Stem Count Arranged by Plot and Species

Figure 4. Vegetation Monitoring Plot Photos

	Table 5. Vege	etation Plot M	litigation											
	Suco	cess Summary												
		(per acre)												
Plot #														
1	1174	121	1295	Yes										
2	1133	40	1174	Yes										
3	445	121	567	Yes										
4	688	0	688	Yes										
5	850	0	850	Yes										
6	647	0	647	Yes										
7	607	0	607	Yes										
8	567	405	971	Yes										
9	445	0	445	Yes										
10	769	202	971	Yes										
11	769	0	769	Yes										
12	728	0	728	Yes										
13	647	0	647	Yes										
14	607	0	607	Yes										
Project Avg	720	64	783											
Stem Class	characteristic	s												
¹ Stream/ Wetland	•	d woody stems.	Includes shru	ubs, does NOT										
Stems		akes. No vines												
² Volunteers	Native woody	stems. Not pla	inted. No vine	s.										

³Total Planted + volunteer native woody stems. Includes live stakes. Excl. exotics. Excl. vines.

Exceeds requirements by 10%

	Table 6. Vegetation Metadata
Upper Silver Cre	ek Stream and Wetland Restoration - Project 94645
Report Prepared By	Russell Myers
Date Prepared	10/19/2017 14:26
database name	MY3_94645_UpperSilver_cvs-eep-entrytool-v2.3.1.mdb
database location	L:\projects\120598-Upr-Silver-FD\Monitoring\YR3 Monitoring\2.0 - Monitoring
	Data\App C - Vegetation Data
computer name	ASHELRMYERS
file size	63311872
DESCRIPTION OF WORKSHEETS IN THIS DOCU	JMENT
Metadata	Description of database file, the report worksheets, and a summary of
	project(s) and project data.
Proj, planted	Each project is listed with its PLANTED stems per acre, for each year. This
Desi tata lata wa	excludes live stakes.
Proj, total stems	Each project is listed with its TOTAL stems per acre, for each year. This includes
Dista	live stakes, all planted stems, and all natural/volunteer stems.
Plots	List of plots surveyed with location and summary data (live stems, dead stems, missing, etc.).
Vigor	Frequency distribution of vigor classes for stems for all plots.
Vigor by Spp	Frequency distribution of vigor classes listed by species.
Damage	List of most frequent damage classes with number of occurrences and percent
Duninge	of total stems impacted by each.
Damage by Spp	Damage values tallied by type for each species.
Damage by Plot	Damage values tallied by type for each plot.
Planted Stems by Plot and Spp	A matrix of the count of PLANTED living stems of each species for each plot;
· · · · · · · · · · · · · · · · · · ·	dead and missing stems are excluded.
ALL Stems by Plot and spp	5
,	A matrix of the count of total living stems of each species (planted and natural
	volunteers combined) for each plot; dead and missing stems are excluded.
PROJECT SUMMARY	
Project Code	94645
project Name	Upper Silver Creek
Description	Full Delivery stream and wetland restoration site
River Basin	Broad
length(ft)	5,169'
stream-to-edge width (ft)	Minimum of 30 ft
area (sq m)	62,321 sq. m.
Required Plots (calculated)	14
Sampled Plots	14

Table 7. Stem Count Arra Project: Upper Silver Cre	• .	15																											
	· · ·													(Current P	lot Data (N	MY3 201	7)											
			94	94645-01-0001		94645-01-0002			94645-01-0003			94	94645-01-0004		94645-01-0005		94645-01-0006		006	94645-01-0007		007	94645-01-0008			94645-01-0009			
Scientific Name	Common Name	Species Type	Р	v	т	Р	v	т	Р	v	т	Р	v	т	Р	v	т	Р	v	т	Р	v	т	Р	v	Т	Р	v	Т
Acer rubrum	red maple	Tree	1		1	6		6				1		1										3		3			
Alnus serrulata	hazel alder	Shrub																											
Betula nigra	river birch	Tree							2		2							1		1	3		3						
Carpinus caroliniana	American hornbeam	Tree	1		1	3		3				2		2	1		1				1		1				1		1
Cornus amomum	silky dogwood	Shrub							1		1	1		1	6		6	4		4	2		2						
Corylus cornuta	beaked hazelnut	Shrub Tree																1		1									
Diospyros virginiana	common persimmon	Tree	1		1							1		1										1		1			
Fraxinus pennsylvanica	green ash	Tree							2		2				8		8	1		1	1		1						
Liquidambar styraciflua	sweetgum	Tree								3	3																		
Liriodendron tulipifera	tuliptree	Tree				1		1				1		1										2	5	7			
Platanus occidentalis	American sycamore	Tree	9	3	12	4	1	5	2		2	6		6	4		4	3		3	5		5	4	5	9	2		2
Quercus	oak	Tree																											
Quercus lyrata	overcup oak	Tree																											
Quercus michauxii	swamp chestnut oak	Tree	1		1	6		6	1		1	2		2	2		2	3		3	3		3	2		2			
Quercus nigra	water oak	Tree							3		3																		
Quercus pagoda	cherrybark oak	Tree																											
Quercus phellos	willow oak	Tree	2		2	4		4				3		3				3		3							5		5
Unknown		Shrub or Tree																									2		2
Vaccinium corymbosum	highbush blueberry	Shrub				1		1																					
Viburnum dentatum	southern arrowwood	Shrub	14		14	3		3																2		2	1		1
		Stem count	29	3	32	28	1	29	11	3	14	17	0	17	21	0	21	16	0	16	15	0	15	14	10	24	11	0	11
		size (ares)		1			1			1			1			1			1			1			1			1	
		size (ACRES)		0.02			0.02		0.02		0.02		0.02			0.02			0.02			0.02			0.02			0.02	
		Species count	7	1	7	8	1	8	6	1	7	8	0	8	5	0	5	7	0	7	6	0	6	6	2	6	5	0	5
		Stems per ACRE	1174	121	1295	1133	40	1174	445	121	567	688	0	688	850	0	850	647	0	647	607	0	607	567	405	971	445	0	445
Table 7. Stem Count Arra	anged By Plot, Continu	ied																											
Project: Upper Silver Cre	ek, DMS Project #9464	15																											
								(Current P	lot Data ((MY3 201	7)											Annua	l Means					
			94645-01-0010 94645-01-0011 94645-01-0012								012	94	645-01-0	013	94	645-01-00	14	ſ	VIY3 (2017	7)		MY2 (201	6)		MY1 (201	5)	N	YO (2015)*
Scientific Name	Common Name	Species Type	Р	v	Т	Р	v	Т	Р	v	Т	Р	v	Т	Р	v	т	Р	v	т	Р	v	Т	Р	v	Т	Р	v	Т
Acer rubrum	red maple	Tree		1	1				1		1							12	1	13	13	1	14	14		14	12		12
Alnus serrulata	hazel alder	Shrub				1		1	1	l	1	1			1			2		2		1	1	1		1	1		1
Betula nigra	river birch	Tree	1		1	3		3	6	l	6	3		3	1		1	20		20	19		19	21		21	8		8
Carpinus caroliniana	American hornbeam	Tree		1	1				1	l	1	1			1			10	1	11	11	1	12	11		11	9		9
Cornus amomum	silky dogwood	Shrub				11	1	11	3	İ	3	2		2	1			30		30	32	5	37	32		32	16		16
Corylus cornuta	beaked hazelnut	Shrub Tree		1	1		1	1	1	1		1	1	1	1	1		1	1	1	1		1	1	1	1	1		1

ACELLUDIUIII	reu mapie	nee		1	-				-		-							12	1	15	13	1
Alnus serrulata	hazel alder	Shrub				1		1	1		1							2		2		1
Betula nigra	river birch	Tree	1		1	3		3	6		6	3		3	1		1	20		20	19	(
Carpinus caroliniana	American hornbeam	Tree		1	1				1		1							10	1	11	11	1
Cornus amomum	silky dogwood	Shrub				11		11	3		3	2		2				30		30	32	5
Corylus cornuta	beaked hazelnut	Shrub Tree																1		1	1	ĺ
Diospyros virginiana	common persimmon	Tree																3		3	3	
Fraxinus pennsylvanica	green ash	Tree							2		2				4		4	18		18	18	1
Liquidambar styraciflua	sweetgum	Tree																	3	3		1
Liriodendron tulipifera	tuliptree	Tree	2	2	4													6	7	13	7	1
Platanus occidentalis	American sycamore	Tree	5		5	1		1	2		2	3		3	3		3	53	9	62	54	5
Quercus	oak	Tree																			1	
Quercus lyrata	overcup oak	Tree							1		1							1		1	1	
Quercus michauxii	swamp chestnut oak	Tree	1	1	2	1		1				8		8	4		4	34	1	35	32	
Quercus nigra	water oak	Tree																3		3	3	
Quercus pagoda	cherrybark oak	Tree													1		1	1		1		Í
Quercus phellos	willow oak	Tree	10		10	2		2	1		1				2		2	32		32	32	
Unknown		Shrub or Tree																2		2	7	
Vaccinium corymbosum	highbush blueberry	Shrub																1		1	1	
Viburnum dentatum	southern arrowwood	Shrub																20		20	21	
		Stem count	19	5	24	19	0	19	18	0	18	16	0	16	15	0	15	249	22	271	256	16
		size (ares)		1			1			1			1			1			14			14
		size (ACRES)		0.02			0.02			0.02			0.02			0.02			0.35			0.35
		Species count	5	4	7	6	0	6	9	0	9	4	0	4	6	0	6	18	6	19	17	8
		Stems per ACRE	769	202	971	769	0	769	728	0	728	647	0	647	607	0	607	720	64	783	740	46
P = Planted		This color indic	ates that	the numb	er includ	es volunte	eer stems				•			·			•				· · · · · · · · · · · · · · · · · · ·	
V = Volunteer		Indicates that t	he stems	per acre e	exceeds r	equireme	nts by 10	%														
							بالدرية المدينة		4.00/													

Indicates that the stems per acre exceeds requirements, but by less than 10% T = Total

*MYO included 9 vegetation plots. However, upon review, it was discovered that we needed to have 14 plots to meet guidelines. Five additional plots were added in the Fall of 2015 and the MY1 and later means include these additional plots

1 14 14 14 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 19 21 21 8 1 1 12 11 11 9 1 5 37 32 32 16 2 1 1 1 1 1 1 3 3 3 3 3 3 1 19 19 19 12 2 2 1 19 19 19 12 2 2 3 1 19 19 10 10 2 3 <	
V T P V T P V 1 14 14 14 12 2 2 1 1 1 1 1 1 1 1 19 21 21 8 2 1 1 1 11 12 11 11 9 2 3 1 1 12 11 11 9 2 3 1 1 5 37 32 32 16 2 1	
1 14 14 14 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 19 21 21 8 1 1 12 11 11 9 1 5 37 32 32 16 2 1 1 1 1 1 1 3 3 3 3 3 3 1 19 19 19 12 2 2 1 19 19 19 12 2 2 3 1 19 19 10 10 2 3 <	
1 1 1 1 1 1 1 19 21 21 8 1 1 12 11 11 9 1 5 37 32 32 16 1 1 1 1 1 1 1 3 3 3 3 3 1 1 19 19 19 12 1 1 1 1 1 1 1 3 3 3 3 3 3 1 19 19 19 12 1 1 8 11 11 10 1 5 59 60 60 48 4 1 2 2 1 1 1	т
19 21 21 8	12
1 12 11 11 9 1 5 37 32 32 16 1 1 1 1 1 1 3 3 3 3 3 1 19 19 19 12 1 1 8 11 11 10 1 5 59 60 60 48 4	1
5 37 32 32 16 2 1 1 1 1 1 1 3 3 3 3 3 3 1 19 19 19 12 2 1 1 1 10 2 2 1 8 11 11 10 2 5 59 60 60 48 4 1 2 2 1 1 1	8
1 1 1 1 1 1 3 3 3 3 3 3 1 19 19 19 12 1 1 1 - - - - 1 1 - - - - 1 8 11 11 10 2 5 59 60 60 48 4 1 2 2 - - -	9
3 3 3 3 3 1 1 19 19 19 19 12 1 1 1 - - - - 1 1 8 11 11 10 1 1 5 59 60 60 48 4 1 2 2 - - -	16
1 19 19 19 12 1 1 1 - - - - 1 8 11 11 10 1 5 59 60 60 48 4 1 2 2 - - -	1
1 1	3
1 8 11 11 10 11 5 59 60 60 48 12 1 2 2 2 1	12
5 59 60 60 48 4 1 2 2 2 4 4	
1 2 2	LO
	18
1 1 1	
32 33 33 20 2	20
3 4 4 4	4
32 32 32 17 2	17
7 10 10 6	6
	1
21 21 21 21 21 2	21
16 272 277 0 277 189 0 1	89
14 14 9	
0.35 0.35 0.22	
8 19 18 0 18 16 0 1	16
46 786 801 0 801 850 0 8	50

Figure 4. Upper Silver Creek - Vegetation Plot Photos, DMS Project #94645



Photo 1. Vegetation Plot 1 – Tree photo (October 17, 2017).



Photo 2. Vegetation Plot 1 – Herbaceous photo (October 17, 2017).

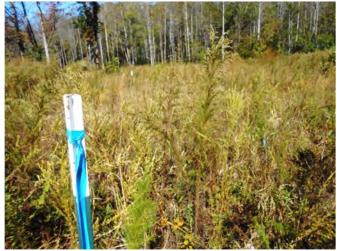


Photo 3. Vegetation Plot 2 – Tree photo (October 17, 2017).



Photo 4. Vegetation Plot 2 – Herbaceous photo (October 17, 2017).



Photo 5. Vegetation Plot 3 – Tree photo (October 17, 2017).



Photo 6. Vegetation Plot 3 – Herbaceous photo (October 17, 2017).



Photo 7. Vegetation Plot 4 – Tree photo (October 17, 2017).



Photo 8. Vegetation Plot 4 – Herbaceous photo (October 17, 2017).



Photo 9. Vegetation Plot 5 – Tree photo (October 17, 2017).



Photo Point 10, Vegetation Plot 5 – Herbaceous photo (October 17, 2017).





Photo 11. Vegetation Plot 6 – Tree photo (October 17, 2017). Photo 12. Vegetation Plot 6 – Herbaceous photo (October 17, 2017). 2017).





Photo 13. Vegetation Plot 7 – Tree photo (October 17, 2017). Photo 14. Vegetation Plot 7 – Herbaceous photo (October 17, 2017). 2017).





Photo 15. Vegetation Plot 8 – Tree photo (October 17, 2017). Photo 16. Vegetation Plot 8 – Herbaceous photo (October 17, 2017). 2017).





Photo 17. Vegetation Plot 9 – Tree photo (October 17, 2017). Photo 18. Vegetation Plot 9 – Herbaceous photo (October 17, 2017).



Photo 19. Vegetation Plot 10 – Tree photo (October 17, 2017).



Photo 20. Vegetation Plot 10 – Herbaceous photo (October 17, 2017).



Photo 21. Vegetation Plot 11 – Tree photo (October 17, 2017).



Photo 22. Vegetation Plot 11 – Herbaceous photo (October 17, 2017).



Photo 23. Vegetation Plot 12 – Tree photo (October 17, 2017).



Photo 24. Vegetation Plot 12 – Herbaceous photo (October 17, 2017).



Photo 25. Vegetation Plot 13 – Tree photo (October 17, 2017).



Photo 26. Vegetation Plot 13 – Herbaceous photo (October 17, 2017).



Photo 27. Vegetation Plot 14 – Tree photo (October 17, 2017).



Photo 28. Vegetation Plot 14 – Herbaceous photo (October 17, 2017).

Appendix D Stream Assessment Data

Includes:

- Figure 5. Stream Photos by Channel and Station
- Table 8. Visual Morphological Stability Assessment
- Table 9. Verification of Bankfull or Greater than Bankfull Events
- Figure 6. Cross-Sections with Annual Overlays
- Figure 7. Longitudinal Profiles with Annual Overlays
- Figure 8. Pebble Count Plots with Annual Overlays
- Table 10. Monitoring Year 3 Stream Summary
- Table 11. Morphology and Hydraulic Monitoring Summary

Figure 5. Upper Silver Creek Stream Photos by Channel and Station – MY3 (2017)



Photo 1. Mainstem Photo Point 1 – Station 29+26 (October 18, 2017) downstream view from left bank.



Photo 3. Mainstem Photo Point 2 – Station 26+44 (October 18, 2017) downstream view from left bank.



Photo 2. Mainstem Photo Point 1 – Station 29+26 (October 18, 2017) upstream view from left bank.



Photo 4. Mainstem Photo Point 2 – Station 26+44 (October 18, 2017) upstream from left bank.



Photo 5. Mainstem Photo Point 3 – Station 24+70 (October 18, 2017) upstream from right bank.



Photo 6. Mainstem Photo Point 3 – Station 24+70 (October 18, 2017) downstream from right bank.



Photo 7. Mainstem Photo Point 4 (PP4) – Station 20+30 (October 18, 2017) downstream from left bank.



Photo 8. Mainstem Photo Point 4 (PP4) – Station 20+30 (October 18, 2017) upstream from left bank.



Photo 9. Mainstem Photo Point 5 – Station 16+03 (October 18, 2017) upstream from right bank.



Photo 10, Mainstem Photo Point 5 – Station 16+03 (October 18, 2017) downstream from right bank.



Photo 11. Mainstem Photo Point 6 – Station 13+03 (October 18, 2017) upstream from right bank.



Photo 12. Mainstem Photo Point 6 – Station 13+03 (October 18, 2017) downstream from right bank.



Photo 13. Mainstem Photo Point 7 – Station 10+11 (October 18, 2017) downstream from left bank.



Photo 14. Mainstem Photo Point 7 – Station 10+11 (October 18, 2017) upstream from left bank.



Photo 15. Mainstem Photo Point 8 – Station 5+06 (October 18, 2017) upstream from right bank.



Photo 16. Mainstem Photo Point 8 – Station 5+06 (October 18, 2017) downstream from right bank.



Photo 17. Mainstem Photo Point 9 – Station 3+87 (October 18, 2017) downstream from left bank.



Photo 18. Mainstem Photo Point 9 – Station 3+87 (October 18, 2017) upstream from left bank.



Photo 19. Mainstem Photo Point 10 - Stat. 1+22 (October 18, 2017) downstream from left bank.



Photo 20. Mainstem Photo Point 10 - Stat. 1+22 (October 18, 2017) upstream from left bank.



Unnamed Tributary 1 - Monitoring Year 3 (2017)

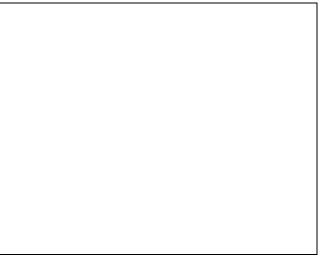


Photo 21. UT1 Photo Point 1 – Station 4+82 (October 18, 2017) upstream from left bank.



Photo 22. UT1 Photo Point 2 – Station 4+07 (October 18, 2017) downstream from left bank.

Intentionally Left Blank



Photo 23. UT1 Photo Point 2 - Station 4+07 (October 18, 2017) upstream from left bank.



Photo 24. UT1 Photo Point 3 – Station 2+55 (October 18, 2017) upstream from right bank.



Photo 25. UT1 Photo Point 3 – Station 2+55 (October 18, 2017) downstream from right bank.



Photo 26. UT1 Photo Point 4 – Station 0+55 (October 18, 2017) downstream from left bank.

Unnamed Tributary 2 – Monitoring Year 3 (2017)



Photo 27. UT1 Photo Point 4 – Station 0+55 (October 18, 2017) upstream from left bank.



Photo 28. UT2 Photo Point 1 – Station 2+15 (October 18, 2017) downstream from left bank.



Photo 29. UT2 Photo Point 1 – Station 2+15 (October 18, 2017) upstream from left bank.



Photo 30. UT2 Photo Point 2 – Station 0+96 (October 18, 2017) upstream from right bank.



Photo 31. UT2 Photo Point 2 – Station 0+96 (October 18, 2017) downstream from right bank.



Photo 32. UT2 Photo Point 3 – Station 0+02 (October 18, 2017) downstream from right bank.

Unnamed Tributary 3 – Monitoring Year 3 (2017)



Photo 33. UT2 Photo Point 3 – Station 0+02 (October 18, 2017) upstream from right bank.



Photo 34. UT3 Photo Point 1 – Station 12+10 (October 18, 2017) downstream from left bank.

Photo 35. UT3 Photo Point 1 – Station 12+10 (October 18, 2017) upstream from left bank.



Photo 36. UT3 Photo Point 2 – Station 10+66 (October 18, 2017) upstream from right bank.



Photo 37. UT3 Photo Point 2 – Station 10+66 (October 18, 2017) downstream from right bank.



Photo 38. UT3 Photo Point 3 – Station 8+10 (October 18, 2017) downstream from left bank.



Photo 39. UT3 Photo Point 3 – Station 8+10 (October 18, 2017) upstream from left bank.



Photo 40. UT3 Photo Point 4 – Station 7+05 (October 18, 2017) downstream from left bank.



Photo 41. UT3 Photo Point 4 – Station 7+05 (October 18, 2017) upstream from left bank.



Photo 42. UT3 Photo Point 5 – Station 5+95 (October 18, 2017) downstream from left bank.



Photo 43. UT3 Photo Point 5 – Station 5+95 (October 18, 2017) upstream from left bank.



Photo 44. UT3 Photo Point 6 – Station 4+55 (October 18, 2017) upstream from right bank.



Photo 45. UT3 Photo Point 6 – Station 4+55 (October 18, 2017) downstream from right bank.



Photo 46. UT3 Photo Point 7 – Station 3+60 (October 18, 2017) upstream to structure.



Photo 47. UT3 Photo Point 8 – Station 2+70 (October 18, 2017) upstream to structure.



Photo 48. UT3 Photo Point 9 – Station 1+90 (October 18, 2017) upstream to structure.



Photo 49. UT3 Photo Point 10 – Station 0+60 (October 18, 2017) downstream to structure.



Beaver dam located at Station 25+50 (6/28/2017)



Beaver dam located at Station 22+50 (6/28/2017)

opper Silver	Creek Restoration Project: DMS Project ID No. 94645	Reach 1 (838 LF)				
	Silver Creek,	Reach 1 (050 El)	1	1	1	-
Feature Category		(# Stable) Number Performing as Intended	Total number per As-Built	Total Number / feet in unstable state	% Performing in Stable Condition	Feature Perfomance Mean or Tota
A. Riffles	Metric (per As-Built and reference baselines)					wear or rola
A. Rimes	1. Present? 2. Armor stable (e.g. no displacement)?	4	4	0	100 100	
	3. Facet grades appears stable?	4	4	0	100	
	4. Minimal evidence of embedding/fining?	4	4	0	100	
	5. Length appropriate?	4	4	0	100	100%
B. Pools	 Present? (e.g. not subject to severe aggradation or migration?) 	4	4	0	100	
	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	4	4	0	100	
	3. Length appropriate?	4	4	0	100	100%
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
o. mamog	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
						
D. Meanders	1. Outer bend in state of limited/controlled erosion?	3	4	0	75	
	2. Of those eroding, # w/concomitant point bar formation?	4	4	0	100	
	3. Apparent Rc within spec?	4	4	0	100	
	4. Sufficient floodplain access and relief?	4	4	0	100	100%
E. Bed	1. General channel bed aggradation areas (bar formation)	838	838	0	100	
E. Deu General	2. Channel bed degradation - areas of increasing down-	000	030	U	100	
	cutting or head cutting?	838	838	0	100	100%
F. Vanes,	1. Free of back or arm scour?	6	6	0	100	
Rock/Log	2. Height appropriate?	6	6	0	100	
Drop	3. Angle and geometry appear appropriate?	6	6	0	100	
Structures	4. Free of piping or other structural failures?	6	6	0	100	100%
G. Wads/	1. Free of scour?	4	4	0	100	
Boulders	2. Footing stable?	4	4	0	100	100%
boundoro		Reach 2 (2,178 LF)	· ·	. v	100	10070
			1			
Feature		(# Stable) Number Performing	Total number	Total Number / feet in unstable	% Performing in Stable	Feature Perfomance
Category	Metric (per As-Built and reference baselines)	as Intended	per As-Built	state	Condition	Mean or Tota
A. Riffles	1. Present?	17	17	0	100	
	2. Armor stable (e.g. no displacement)?	17	17	0	100	
	3. Facet grades appears stable?	17	17 17	0	100	
	4. Minimal evidence of embedding/fining?	17	17	0	100	100%
	5. Length appropriate?	17	17	0	100	100%
3. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	16	16	0	100	
	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	16	16	0	100	
	3. Length appropriate?	16	16	0	100	100%
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	L
	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
D. Meanders	1. Outer hand in state of limited/controlled aronion?	16	16	0	100	
. weanders	 Outer bend in state of limited/controlled erosion? Of those eroding, # w/concomitant point bar formation? 	16	16 16	0	100	
	3. Apparent Rc within spec?	16	16	0	100	
	4. Sufficient floodplain access and relief?	16	16	0	100	100%
				-		
E. Bed	1. General channel bed aggradation areas (bar formation)	2,178	2,178	0	100	
General	2. Channel bed degradation - areas of increasing down-	e		-		
	cutting or head cutting?	2,178	2,178	0	100	100%
	1. Free of back or arm scour?	21	21	0	100	
Vanes		21	21	0	100	
	2 Height appropriate?					
Rock/Log	2. Height appropriate? 3. Angle and geometry appear appropriate?			n	100	
Rock/Log Drop	3. Angle and geometry appear appropriate?	21	21	0	100 90	98%
F. Vanes, Rock/Log Drop Structures			21	0 3	100 90	98%
Rock/Log Drop	3. Angle and geometry appear appropriate?	21	21			98%

opper Silver	Creek Restoration Project: DMS Project ID No. 94645	(
	UT1	(502 LF)	r			-
Feature		(# Stable) Number Performing	Total number	Total Number / feet in unstable	% Performing in Stable	Feature Perfomance
Category	Metric (per As-Built and reference baselines)	as Intended	per As-Built	state	Condition	Mean or Tota
A. Riffles	1. Present?	7	7	0	100	
	2. Armor stable (e.g. no displacement)?	7	7	0	100	
	3. Facet grades appears stable? 4. Minimal evidence of embedding/fining?	7	7	0	100	
	4. Minimal evidence of embedding/fining / 5. Length appropriate?	7	7	0	100	100%
		, í	í í	Ŭ	100	100 / 0
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	10	10	0	100	
	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	10	10	0	100	
	3. Length appropriate?	10	10	0	100	100%
	4 Unstream of neal (structure) contained (0)	100	100	0	100	
C. Thalweg ¹	Upstream of pool (structure) centering? (%) Downstream of pool (structure) centering? (%)	100	100	0	100	100%
	2. Downstream of poor (structure) centering? (70)	100	100	0	100	100 /8
D. Meanders	1. Outer bend in state of limited/controlled erosion?	7	7	0	100	
	2. Of those eroding, # w/concomitant point bar formation?	7	7	0	100	
	3. Apparent Rc within spec?	7	7	0	100	
	4. Sufficient floodplain access and relief?	7	7	0	100	100%
E. Bed	4. Concrete the description proce (her formation)	502	502	0	100	
E. Deu General	General channel bed aggradation areas (bar formation) Channel bed degradation - areas of increasing down-	502	502	U	100	
oonorai	cutting or head cutting?	502	502	0	100	100%
	····					
F. Vanes,	1. Free of back or arm scour?	11	11	0	100	
Rock/Log	2. Height appropriate?	11	11	0	100	
Drop Structures	3. Angle and geometry appear appropriate?	11	11	0	100	
oliuciules	4. Free of piping or other structural failures?	11	11	0	100	100%
G. Wads/	1. Free of scour?	N/A	N/A	N/A	N/A	
Boulders	2. Footing stable?	N/A	N/A	N/A	N/A	100%
	UT2, Rea	ch 1 (103 LF)	1	1	r	1
Feature		(# Stable) Number Performing	Total number	Total Number / feet in unstable	% Performing in Stable	Feature Perfomance
Category	Metric (per As-Built and reference baselines)	as Intended	per As-Built	state	Condition	Mean or Tota
A. Riffles	1. Present?	4	4	0	100	
	2. Armor stable (e.g. no displacement)?	4	4	0	100	
	3. Facet grades appears stable?	4	4	0	100	
	4. Minimal evidence of embedding/fining?	4	4	0	100	
	5. Length appropriate?	4	4	0	100	100%
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	5	5	0	100	
B. FOUIS	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	5	5	0	100	
	3. Length appropriate?	5	5	0	100	100%
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
D. Meessler	4. Outer hand in state of Braited/search Braited		N/1	N//	400	
D. Meanders	Outer bend in state of limited/controlled erosion? Of those eroding, # w/concomitant point bar formation?	N/A N/A	N/A N/A	N/A N/A	100 100	
	2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec?	N/A N/A	N/A N/A	N/A N/A	100	
	4. Sufficient floodplain access and relief?	N/A	N/A	N/A	100	100%
E. Bed	1. General channel bed aggradation areas (bar formation)	103	103	0	100	
General	2. Channel bed degradation - areas of increasing down-					
	cutting or head cutting?	103	103	0	100	100%
F. Vanes,	1. Free of back or orm coour?	5	5	0	100	
r. vanes, Rock/Log	1. Free of back or arm scour? 2. Height appropriate?	5	5	0	100	
Drop	3. Angle and geometry appear appropriate?	5	5	0	100	
Structures	4. Free of piping or other structural failures?	5	5	0	100	100%
G. Wads/ Boulders	1. Free of scour? 2. Footing stable?	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A

opper onver	Creek Restoration Project: DMS Project ID No. 94645	ch 2 (207 LF)				
	012,100		1	[1
Feature		(# Stable) Number Performing	Total number	Total Number / feet in unstable	% Performing in Stable	Feature Perfomance
Category A. Riffles	Metric (per As-Built and reference baselines) 1. Present?	as Intended 4	per As-Built 4	state	Condition 100	Mean or Tota
A. RIIIIes	2. Armor stable (e.g. no displacement)?	4 4	4	0	100	-
	3. Facet grades appears stable?	4	4	0	100	
	4. Minimal evidence of embedding/fining?	4	4	0	100	
	5. Length appropriate?	4	4	0	100	100%
		_	_			
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	3	3	0	100 100	
	3. Length appropriate?	3	3	0	100	100%
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	3	3	0	100	
	2. Of those eroding, # w/concomitant point bar formation?	3	3	0	100	
	3. Apparent Rc within spec?	3	3	0	100	
	4. Sufficient floodplain access and relief?	3	3	0	100	100%
E. Bed	1. General channel bed aggradation areas (bar formation)	207	207	0	100	
General	2. Channel bed degradation - areas of increasing down-					
	cutting or head cutting?	207	207	0	100	100%
Vanes,	1. Free of back or arm scour?	1	1	0	100	
Rock/Log	2. Height appropriate?	1	1	0	100	
Drop	3. Angle and geometry appear appropriate?	1	1	0	100	
Structures	4. Free of piping or other structural failures?	1	1	0	100	100%
3. Wads/	1. Free of scour?	N/A	N/A	N/A	N/A	
Boulders Fable 8. Visua	1. Free of scour? 2. Footing stable? al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF	N/A N/A	N/A	N/A N/A	N/A N/A	N/A
Boulders Fable 8. Visua	2. Footing stable? al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645	N/A	N/A	N/A	N/A	
Boulders Table 8. Visua Jpper Silver (2. Footing stable? al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645	N/A (Enhancement II read (# Stable) Number	N/A	N/A Total Number	N/A % Performing	Feature
Boulders Table 8. Visua Upper Silver (Feature	2. Footing stable? al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF	N/A	N/A	N/A	N/A	
Boulders Table 8. Visua Jpper Silver (Feature Category	2. Footing stable? al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645	N/A (Enhancement II read (# Stable) Number Performing	N/A	N/A Total Number / feet in unstable	N/A % Performing in Stable	Feature Perfomance
Boulders Table 8. Visua Jpper Silver (Feature Category	2. Footing stable? al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Metric (per As-Built and reference baselines)	N/A (Enhancement II read (# Stable) Number Performing as Intended	N/A ch) Total number per As-Built	N/A Total Number / feet in unstable state	N/A % Performing in Stable Condition	Feature Perfomance
Boulders Table 8. Visua Jpper Silver (Feature Category	2. Footing stable? Il Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Interference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable?	N/A (Enhancement II read) (# Stable) Number Performing as Intended N/A N/A N/A	N/A Total number per As-Built N/A N/A	N/A Total Number / feet in unstable state N/A N/A	N/A % Performing in Stable Condition N/A N/A	Feature Perfomance
able 8. Visua Jpper Silver (eature Category	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Interference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A N/A N/A N/A N/A	N/A Total number per As-Built N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A N/A N/A	Feature Perfomance Mean or Tota
able 8. Visua Jpper Silver (eature Category	2. Footing stable? Il Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Interference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable?	N/A (Enhancement II read) (# Stable) Number Performing as Intended N/A N/A N/A	N/A Total number per As-Built N/A N/A	N/A Total Number / feet in unstable state N/A N/A	N/A % Performing in Stable Condition N/A N/A	Feature Perfomance
Boulders Table 8. Visua Jpper Silver (Ceature Category A. Riffles	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Interference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A N/A N/A N/A N/A	N/A Total number per As-Built N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A N/A N/A	Feature Perfomance Mean or Tot
Boulders Table 8. Visua Jpper Silver (Ceature Category A. Riffles	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Amorphic text of the stable of th	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A N/A N/A N/A N/A N/A N/A	Feature Perfomance Mean or Tota N/A
Boulders Fable 8. Visua Jpper Silver (-eature Category A. Riffles	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Attraction (per As-Built and reference baselines) 1. Present? Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?)	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A N/A N/A N/A	Feature Perfomance Mean or Tota
Soulders Table 8. Visue Jpper Silver (Seature Zategory A. Riffles 3. Pools	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF I Area and the stable of the stab	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A N/A N/A N/A N/A N/A	Feature Perfomance Mean or Tot: N/A
Soulders Table 8. Visue Jpper Silver (Seature Zategory A. Riffles 3. Pools	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Amorphic text of the stable of th	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A N/A N/A N/A N/A N/A N/A	Feature Perfomance Mean or Tota N/A
Soulders Soulders Sable 8. Visue Jpper Silver (Seature Sategory A. Riffles B. Pools C. Thalweg	2. Footing stable? 1 Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Netric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Downstream of pool (structure) centering? (%)	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A	Feature Perfomance Mean or Tota N/A N/A
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Soulders Soulders Sable 8. Visue Jpper Silver (Seature Sategory A. Riffles B. Pools C. Thalweg	2. Footing stable? I Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Attraction of the stable of the s	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A	Feature Perfomance Mean or Tot: N/A N/A
koulders able 8. Visue Jpper Silver (2. Footing stable? 1 Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Netric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Downstream of pool (structure) centering? (%) 1. Outer bend in state of limited/controlled erosion? 2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec? 4. Sufficient floodplain access and relief?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A N/A N/A	N/A Total Number state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A	Feature Perfomance Mean or Tot N/A N/A
Soulders Table 8. Visua Jpper Silver (2. Footing stable? 1 Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Ide to the stability of the stabil	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A % Performing in Stable Condition N/A	Feature Perfomance Mean or Tot: N/A N/A N/A
Soulders Soulders Sable 8. Visue Japer Silver (Seature Sategory A. Riffles B. Pools C. Thalweg D. Meanders E. Bed	2. Footing stable? 1 Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF VT3 Reach 1 (343 LF VT1 (344 LF) VT3 Reach 1 (343 LF VT1 (344 LF) VT1 (344 LF)	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A N/A N/A N/A N/A N/A N/A N/A	N/A Total Number state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A	Feature Perfomance Mean or Tot N/A N/A
Soulders Fable 8. Visue Jpper Silver (Feature Lategory A. Riffles . Pools . Thalweg . D. Meanders . Bed General . Vanes, . Vanes,	2. Footing stable? 3. Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Metric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Downstream of pool (structure) centering? (%) 1. Outer bend in state of limited/controlled erosion? 2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec? 4. Sufficient floodplain access and relief? 1. General channel bed aggradation areas (bar formation) 2. Channel bed degradation - areas of increasing down-cutting or head cutting?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A % Performing in Stable Condition N/A	Feature Perfomance Mean or Tot: N/A N/A N/A
Soulders Table 8. Visue Jpper Silver (2. Footing stable? 3. Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Metric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Downstream of pool (structure) centering? (%) 2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec? 4. Sufficient floodplain access and relief? 1. General channel bed aggradation areas (bar formation) 2. Channel bed degradation - areas of increasing down- cutting or head cutting?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A	N/A Total Number / feet in unstable state N/A	N/A % Performing in Stable Condition N/A N/A	Feature Perfomance Mean or Tot: N/A N/A N/A
Soulders Table 8. Visue Jpper Silver (2. Footing stable? 3. Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Metric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Obverstream of pool (structure) centering? (%) 2. Outer bend in state of limited/controlled erosion? 2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec? 4. Sufficient floodplain access and relief? 1. General channel bed aggradation areas (bar formation) 2. Channel bed degradation - areas of increasing down- cutting or head cutting? 1. Free of back or arm scour? 2. Height appropriate? 3. Angle and geometry appear appropriate?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A	Feature Perfomance Mean or Tote N/A N/A N/A N/A
Soulders Fable 8. Visue Jpper Silver (Feature Category A. Riffles G. Thalweg C. Thalweg C. Thalweg C. Thalweg E. Bed General F. Vanes, Rock/Log Jrop	2. Footing stable? 3. Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Metric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Downstream of pool (structure) centering? (%) 2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec? 4. Sufficient floodplain access and relief? 1. General channel bed aggradation areas (bar formation) 2. Channel bed degradation - areas of increasing down- cutting or head cutting?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A	N/A Total Number / feet in unstable state N/A	N/A % Performing in Stable Condition N/A N/A	Feature Perfomance Mean or Tot: N/A N/A N/A
	2. Footing stable? 3. Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645 UT3 Reach 1 (343 LF UT3 Reach 1 (343 LF Metric (per As-Built and reference baselines) 1. Present? 2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable? 4. Minimal evidence of embedding/fining? 5. Length appropriate? 1. Present? (e.g. not subject to severe aggradation or migration?) 2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate? 1. Upstream of pool (structure) centering? (%) 2. Obverstream of pool (structure) centering? (%) 2. Outer bend in state of limited/controlled erosion? 2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec? 4. Sufficient floodplain access and relief? 1. General channel bed aggradation areas (bar formation) 2. Channel bed degradation - areas of increasing down- cutting or head cutting? 1. Free of back or arm scour? 2. Height appropriate? 3. Angle and geometry appear appropriate?	N/A (Enhancement II read (# Stable) Number Performing as Intended N/A	N/A Total number per As-Built N/A	N/A Total Number / feet in unstable state N/A N/A N/A N/A N/A N/A N/A N/A	N/A % Performing in Stable Condition N/A N/A	Feature Perfomanc Mean or Tot N/A N/A N/A

	al Morphological Stability Assessment - Continued												
Upper Silver	Creek Restoration Project: DMS Project ID No. 94645	(
UT3 Reach 2 (1,022 LF)													
Feature Category	Metric (per As-Built and reference baselines)	(# Stable) Number Performing as Intended	Total number per As-Built	Total Number / feet in unstable state	% Performing in Stable Condition	Feature Perfomance Mean or Total							
A. Riffles	1. Present?	22	22	0	100								
	2. Armor stable (e.g. no displacement)?	22	22	0	100								
	3. Facet grades appears stable?	22	22	0	100								
	4. Minimal evidence of embedding/fining?	22	22	0	100								
	5. Length appropriate?	22	22	0	100	100%							
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	21	21	0	100								
	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	21	21	0	100								
	3. Length appropriate?	21	21	0	100	100%							
C. Thalweg	1. Upstream of pool (structure) centering?	100	100	0	100								
	2. Downstream of pool (structure) centering?	100	100	0	100	100%							
D. Meanders	1. Outer bend in state of limited/controlled erosion?	17	17	0	100								
	2. Of those eroding, # w/concomitant point bar formation?	17	17	0	100								
	3. Apparent Rc within spec?	17	17	0	100								
	4. Sufficient floodplain access and relief?	17	17	0	100	100%							
E. Bed	1. General channel bed aggradation areas (bar formation)	1,022	1,022	0	100								
General	2. Channel bed degradation - areas of increasing down- cutting or head cutting?	1,022	1,022	0	100	100%							
F. Vanes,	1. Free of back or arm scour?	15	15	0	100								
Rock/Log	2. Height appropriate?	15	15	0	100								
Drop	3. Angle and geometry appear appropriate?	15	15	0	100								
Structures	4. Free of piping or other structural failures?	15	15	0	100	100%							
G. Wads/	1. Free of scour?	4	4	0	100								
Boulders	2. Footing stable?	4	4	0	100	100%							

	Table 9. Verification of Bankfull or Greater than Bankfull Events Upper Silver Creek Restoration Project: DMS Project ID No. 94645												
Date of Data Method of Data Gauge Watermark Height (inches)*													
Collection	Date of Event	Collection	Silver Creek Station 19+00	UT3 Station 8+10									
2/29/2016	See table below	Crest gauge	15.0	5.0									
5/2/2017	See table below	Crest Gauge	5.4	3.0									

* height indicates the highest position of cork shavings on the dowel and the height above bankfull, as 0" on the dowel is set at bankfull.





Photo 1. Silver Creek mainstem crest gauge staff showing cork deposition in red circle at 0.45' above the bottom of the staff, which is at the bankfull elevation. (5/2/2017) Photo 2. UT3 crest gauge staff showing cork deposition in red circle at 0.25' above the bottom of the staff, which is at the bankfull elevation (5/2/2017).



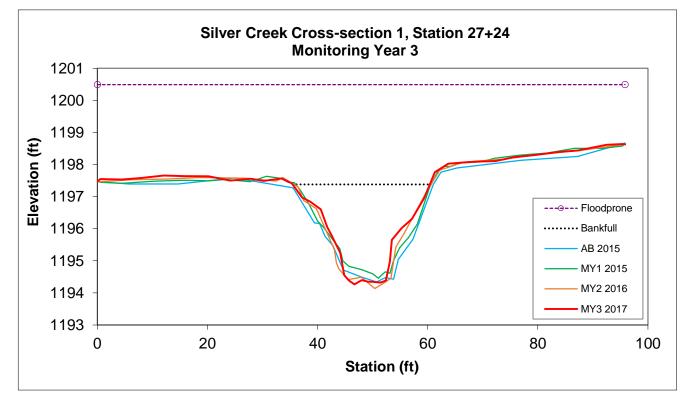
Photo 3. Silver Creek stream bank showing accumulated debris of wrack line and bent over vegetation well above bankfull. Verifies crest gauge measurement. (11/1/2017)

Photo 4. Silver Creek stream bank showing accumulated debris of wrack line and bent over vegetation well above bankfull. Verifies crest crest gauge measurements (11/1/2017).

Figure 6. Cross-sections with Annual Overlays

Permanent Cross-section 1 (MY3 Data - collected October, 2017)

Based on	Based on fixed baseline BKF														
	Stream BKF BKF Max BKF														
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev					
Riffle	C	41.90	24.91	1.68	3.11	14.83	1.06	3.85	1197.38	1197.96					



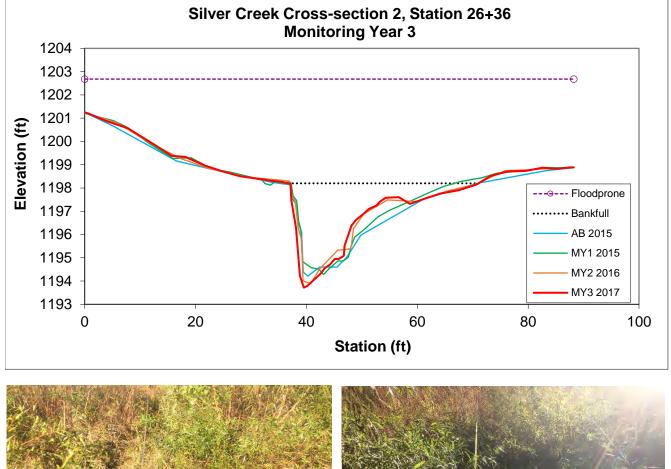


Looking at the Left Bank

Permanent Cross-section 2 (MY3 Data - collected October, 2017)

Based on	Based on fixed baseline BKF														
	Stream		BKF	BKF	Max BKF										
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev					
Pool	-	52.03	34.54	1.51	4.48	22.87	1.00	2.55	1198.20	1198.21					







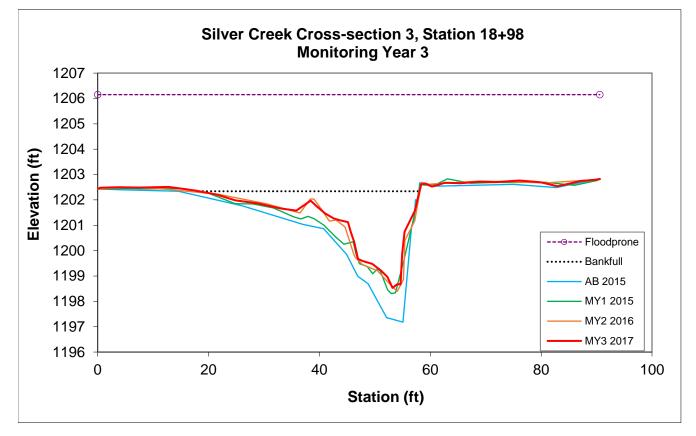
Looking at the Left Bank

Looking at the Right Bank

Permanent Cross-section 3 (MY3 Data - collected October, 2017)

StreamBKFBKFMax BKFMax BKFFeatureTypeBKF AreaWidthDepthDepthW/DBH RatioERBKF ElevTOB ElevPool-46.8139.841.173.8134.051.072.271202.341202.51	1	Sased on fixed baseline BKF														
			Stream		BKF	BKF	Max BKF									
Pool - 46.81 39.84 1.17 3.81 34.05 1.07 2.27 1202.34 1202.51		Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev				
		Pool	-	46.81	39.84	1.17	3.81	34.05	1.07	2.27	1202.34	1202.51				





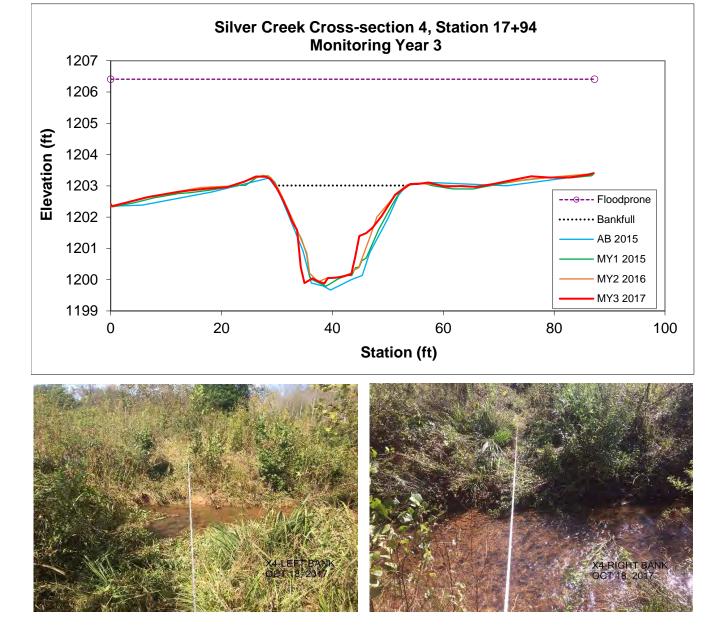


Looking at the Left Bank

Looking at the Right Bank

Based on	Based on fixed baseline BKF														
	Stream		BKF	BKF	Max BKF										
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev					
Riffle	С	41.90	24.00	1.75	3.13	13.71	1.02	3.63	1203.01	1203.07					
-				-			-								

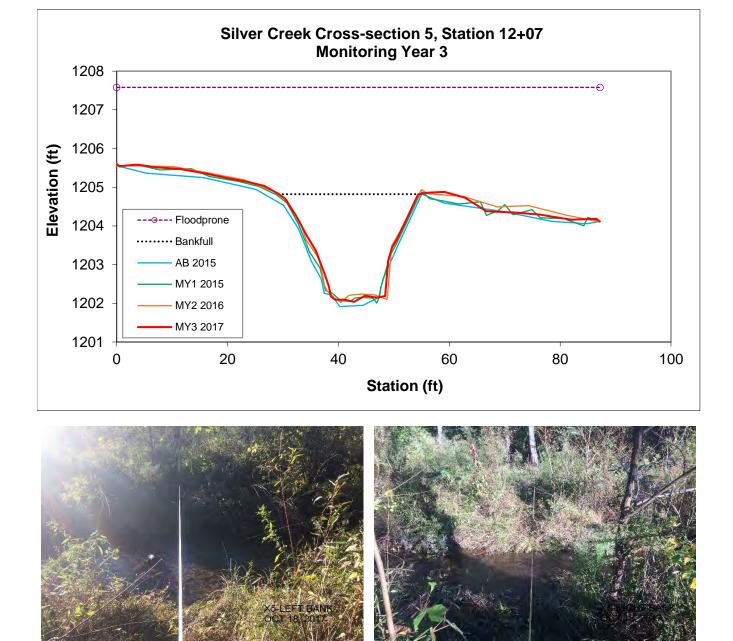
(MY3 Data - collected Oct0ber, 2017)



Looking at the Left Bank

Based on fixed baseline BKF														
	Stream		BKF	BKF	Max BKF									
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev				
Riffle	С	41.56	25.01	1.66	2.77	15.07	1.01	3.48	1204.82	1204.82				
				-										

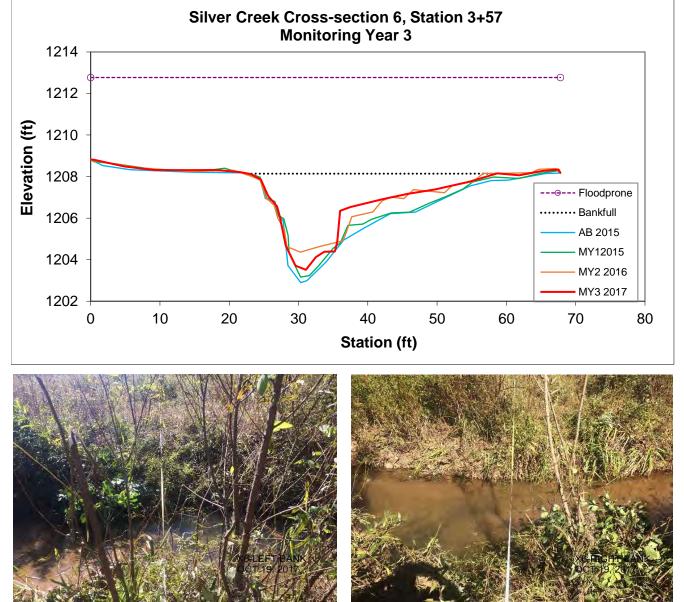




Looking at the Left Bank

Based on fixed baseline BKF														
	Stream		BKF	BKF	Max BKF									
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev				
Pool	-	57.16	35.96	1.59	4.63	22.62	1.01	1.89	1208.14	1208.14				
				-	-		-							

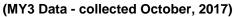
(MY3 Data - collected October, 2017)

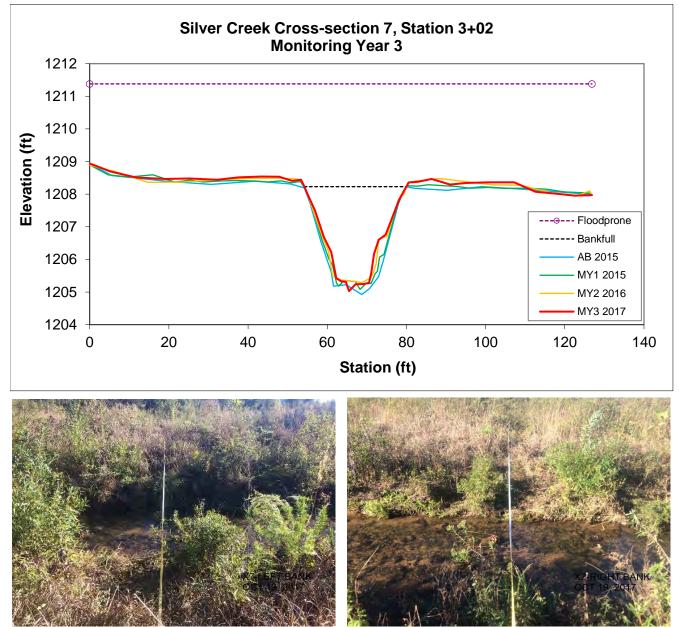


Looking at the Left Bank

Looking at the Right Bank

Based on fixed baseline BKF													
	Stream		BKF	BKF	Max BKF								
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev			
Riffle	С	46.23	25.75	1.80	3.20	14.31	1.04	4.93	1208.23	1208.36			

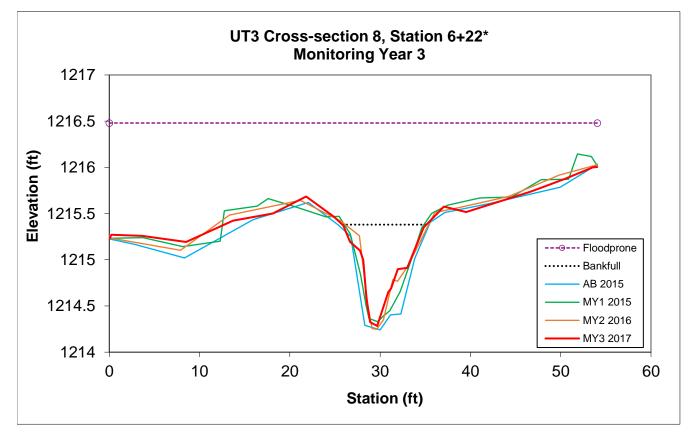




Looking at the Left Bank

Permanent Cross-section 8 (MY3 Data - collected October, 2017)

Based	Based on fixed baseline BKF											
	Stream		BKF	BKF	Max BKF							
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev		
Riffle	С	4.61	9.28	0.50	1.10	18.56	1.18	5.83	1215.38	1215.58		



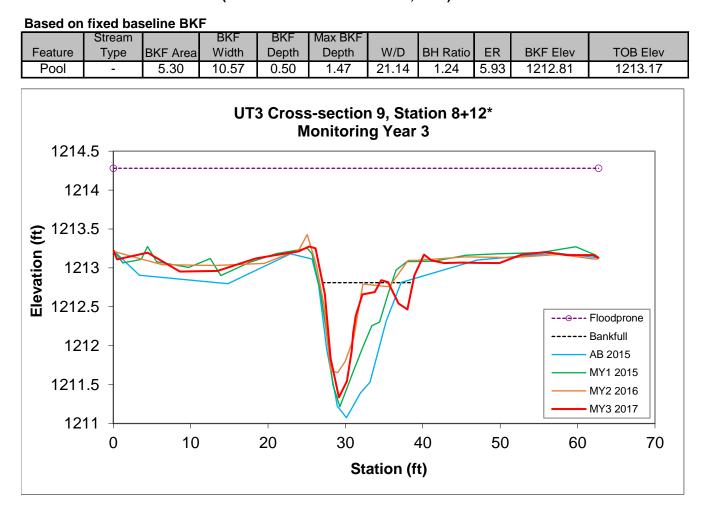


Looking at the Left Bank

Looking at the Right Bank

* Note: Stationing for Cross-section 8 has been changed to 6+22; this was the surveyed location last year and this year and is changed from what is shown in the As-built survey and the MY1 report.

Permanent Cross-section 9 (MY3 Data - collected October, 2017)





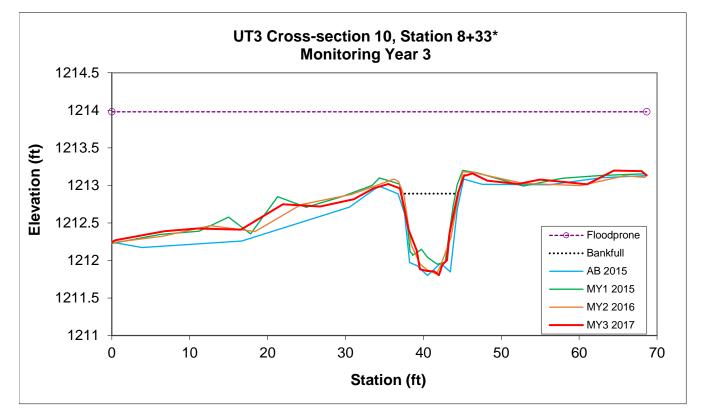
Looking at the Left Bank

Looking at the Right Bank

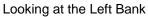
* Note: Stationing for Cross-section 9 is being changed to 8+12 which is the surveyed location for the last two years and changes from what was indicated in the As-built survey and the MY1 report.

Permanent Cross-section 10 (MY3 Data - collected October, 2017)

Based on	Based on fixed baseline BKF											
	Stream		BKF	BKF	Max BKF							
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev		
Riffle	E	5.27	7.29	0.72	1.09	10.13	1.06	9.42	1212.89	1212.96		



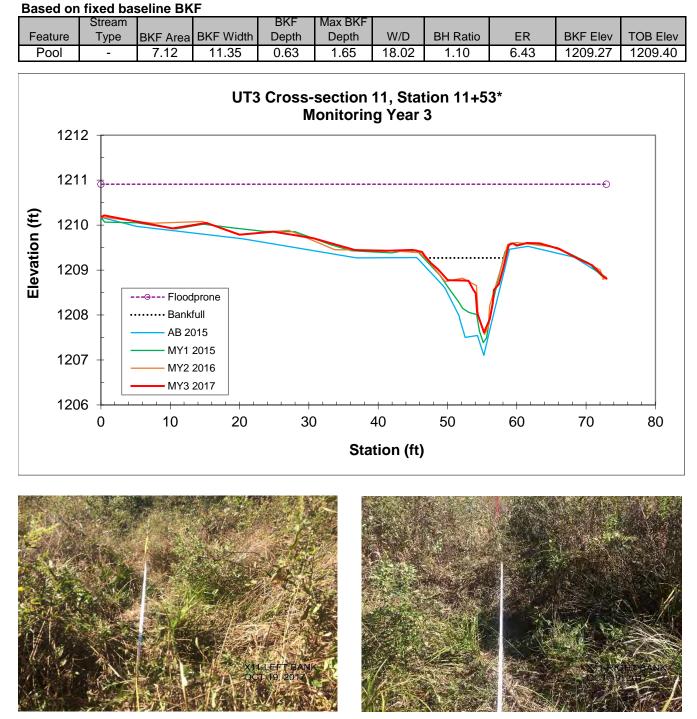




Looking at the Right Bank

* Note: Stationing for Cross-section 10 is being changed to 8+33 which is the surveyed location for the last two years and changes from what was indicated in the As-built survey and the MY1 report.

Permanent Cross-section 11 (MY3 Data - collected October, 2017)



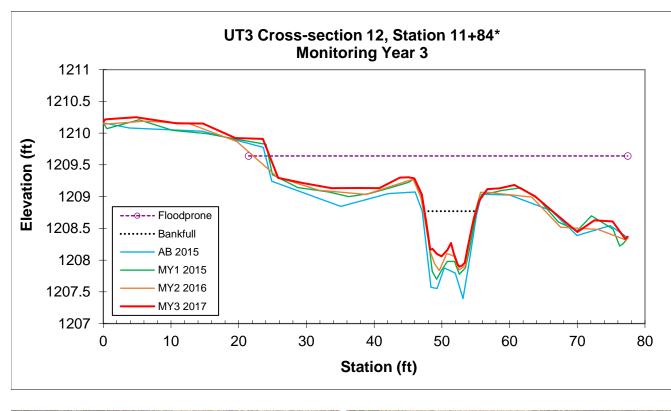
Looking at the Left Bank

Looking at the Right Bank

* Note: Stationing for Cross-section 11 is being changed to 11+53 which is the surveyed location for the last two years and changes from what was indicated in the As-built survey and the MY1 report.

Permanent Cross-section 12 (MY3 Data - collected October, 2017)

Based on	Based on fixed baseline BKF										
	Stream		BKF	BKF	Max BKF						
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev	
Riffle	С	4.40	7.62	0.58	0.87	13.14	1.17	6.94	1208.77	1208.93	



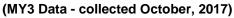


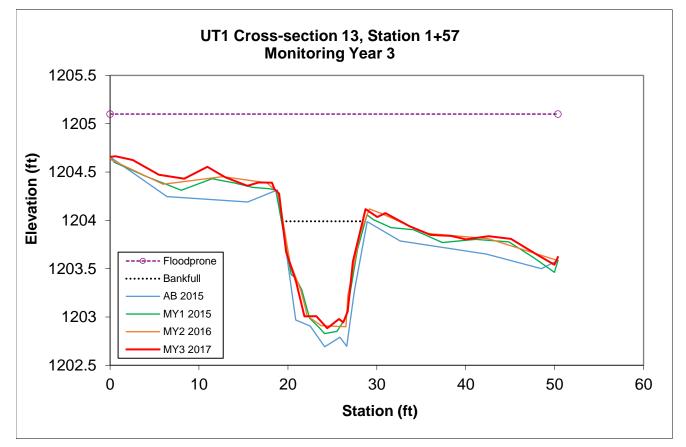
Looking at the Left Bank

Looking at the Right Bank

* Note: Stationing for Cross-section 11 is being changed to 11+53 which is the surveyed location for the last two years and changes from what was indicated in the As-built survey and the MY1 report.

Based on fixed baseline bankfull										
	Stream		BKF	BKF	Max BKF					
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev
Riffle	E	6.96	9.02	0.77	1.11	11.71	1.10	5.59	1203.99	1204.11
-			-		1		_			



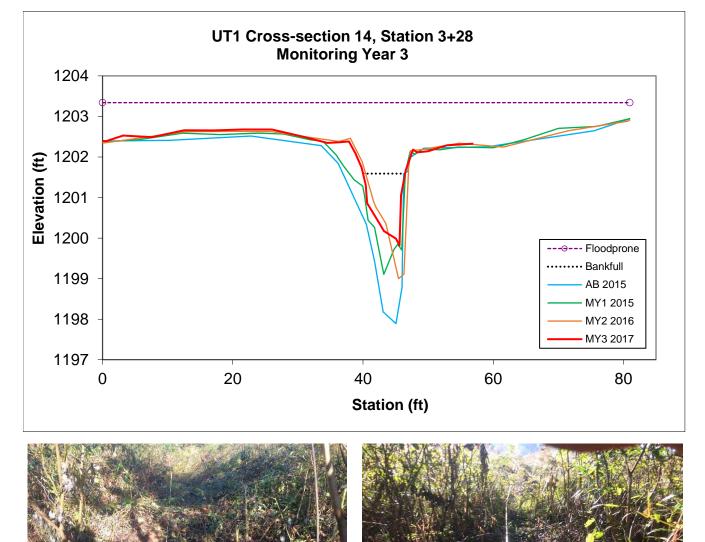


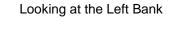


Looking at the Left Bank

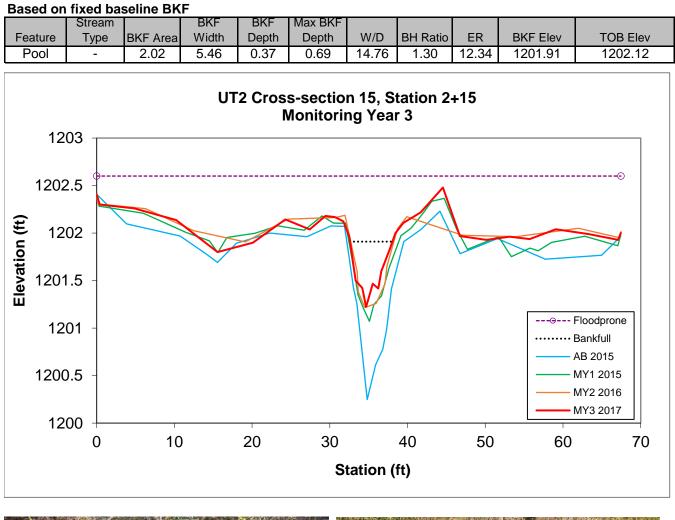
Permanent Cross-section 14 (MY3 Data - collected October, 2017)

Based on fixed baseline bankfull										
St	tream		BKF	BKF	Max BKF					
Feature T	Гуре В	SKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev
Pool	-	7.01	6.43	1.09	1.76	5.90	1.34	12.59	1201.59	1202.19





Permanent Cross-section 15 (MY3 Data - collected October, 2017)





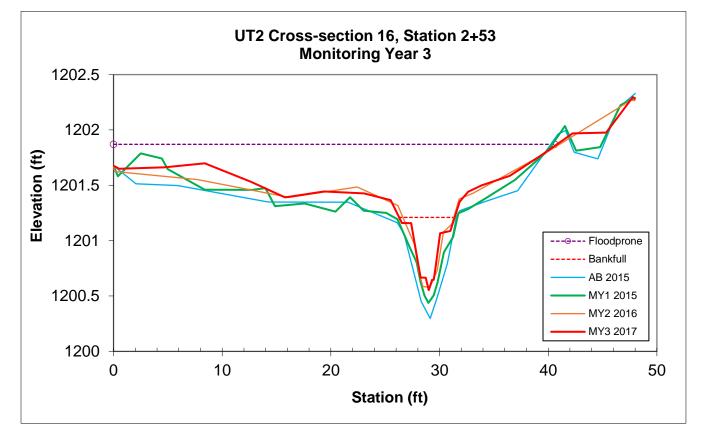
Looking at the Left Bank

Looking at the Right Bank

(MY3 Data - collected October, 2017)

_													
ſ		Stream		BKF	BKF	Max BKF							
	Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev		
	Riffle	С	1.37	5.11	0.27	0.66	18.93	1.23	7.97	1201.21	1201.36		

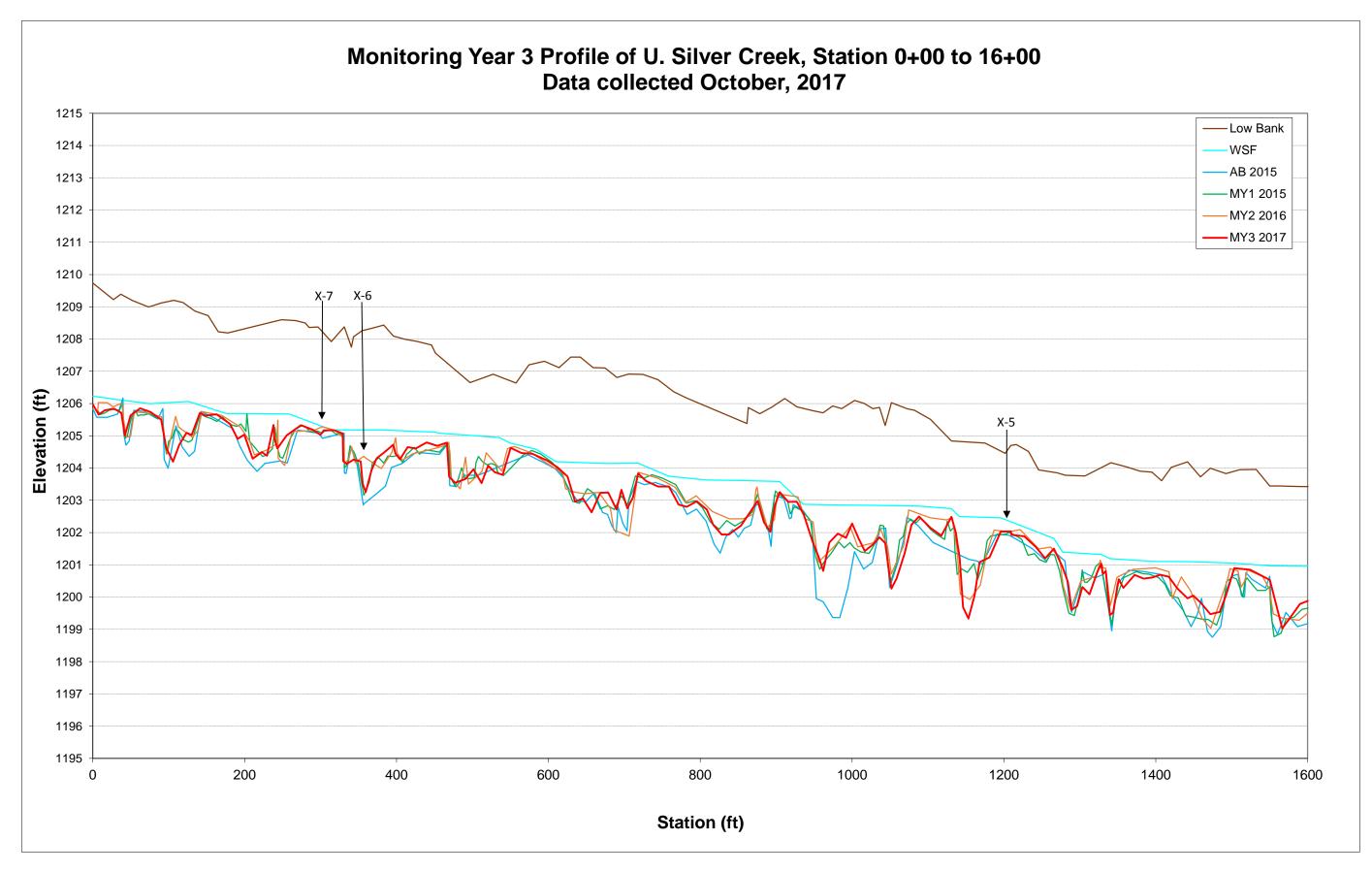




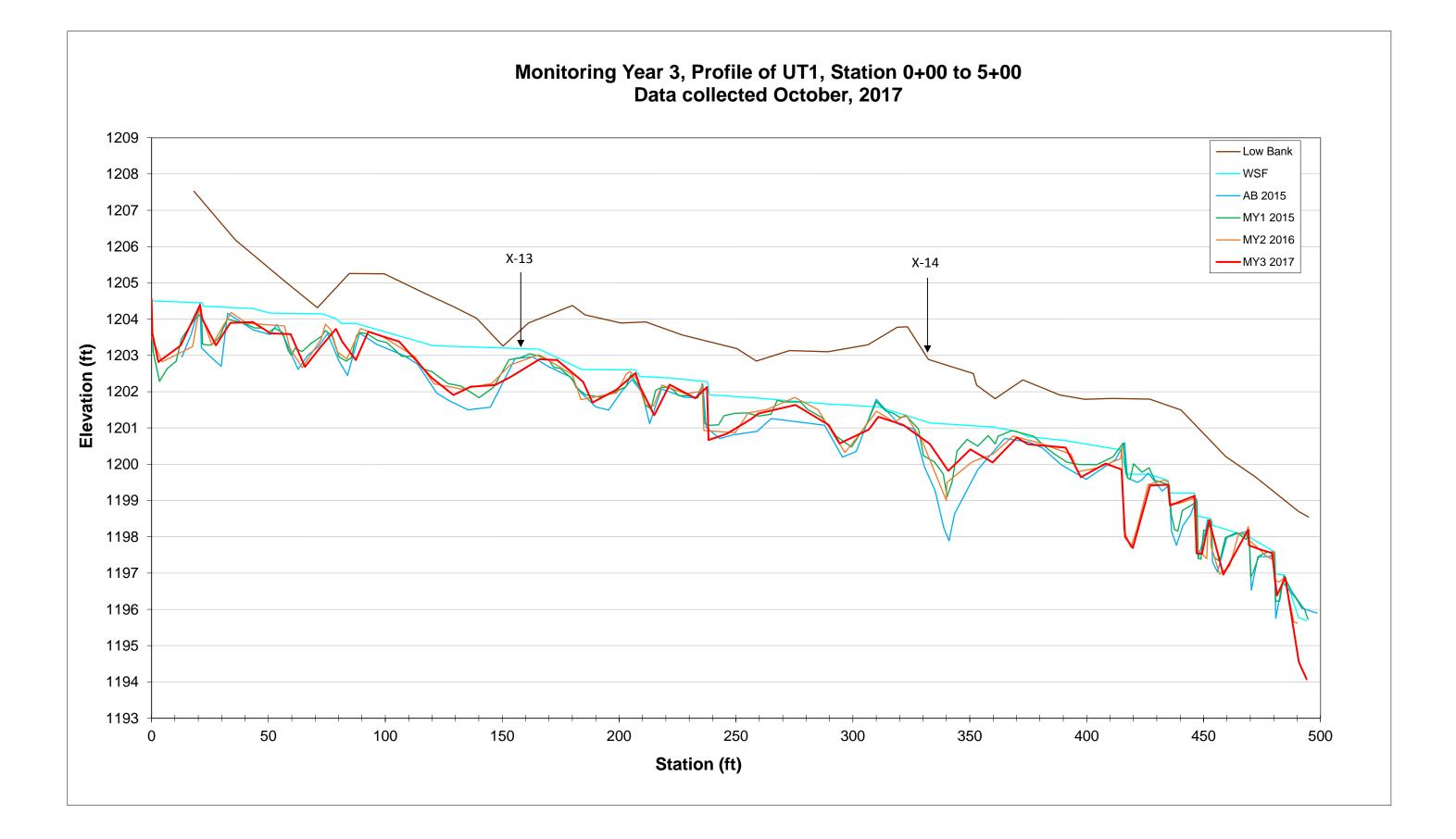


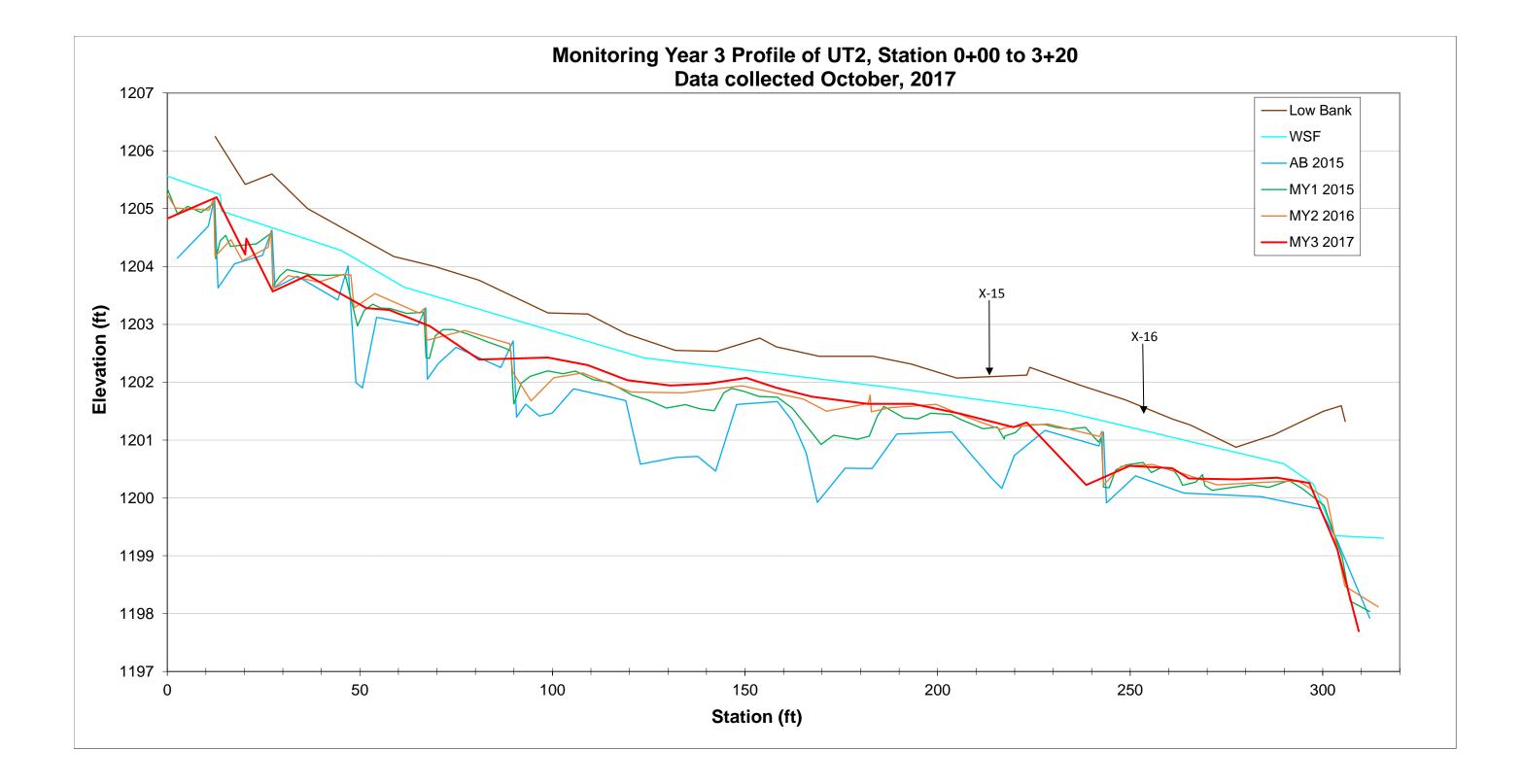
Looking at the Left Bank

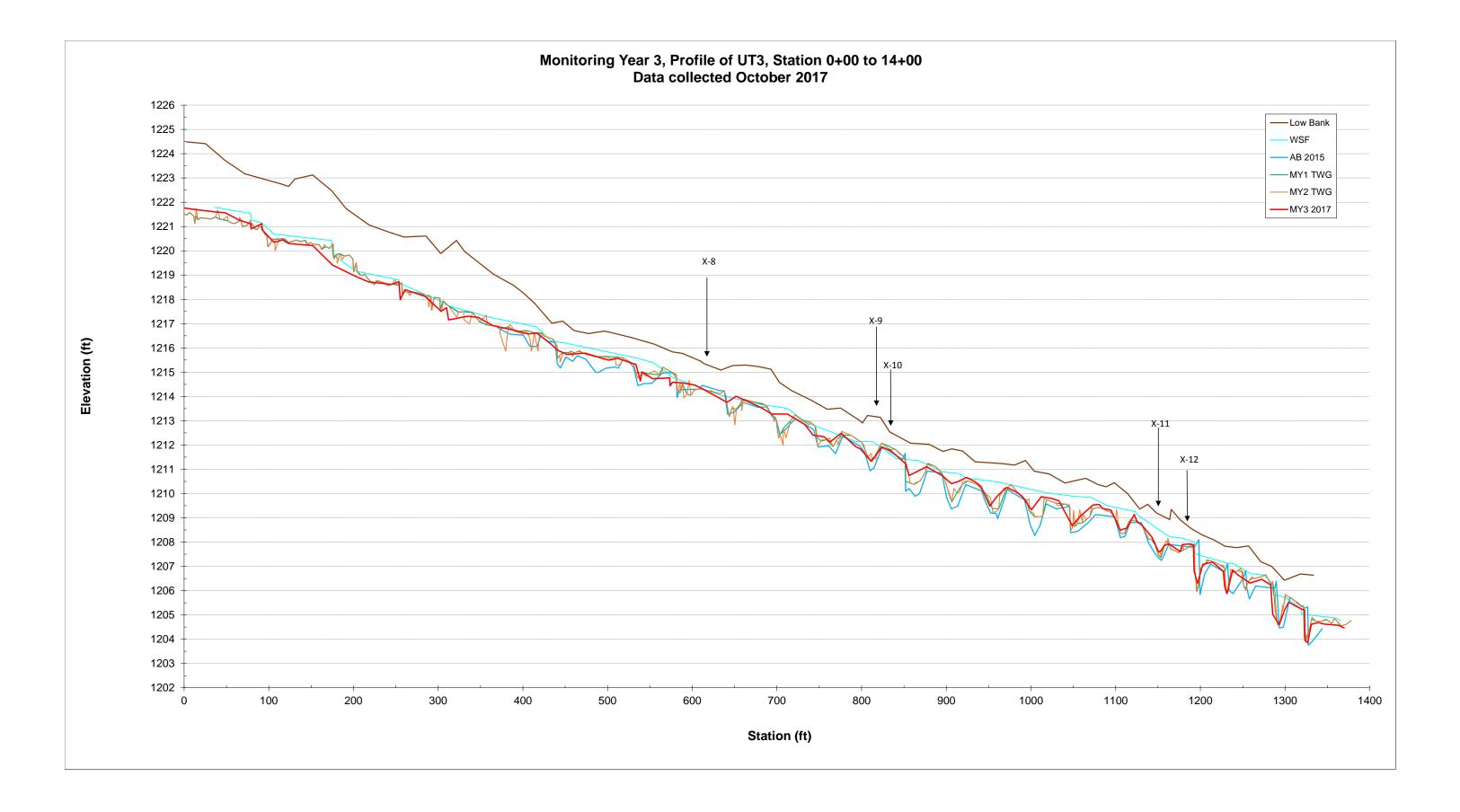
Looking at the Right Bank





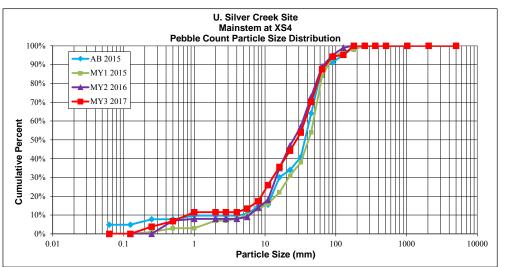


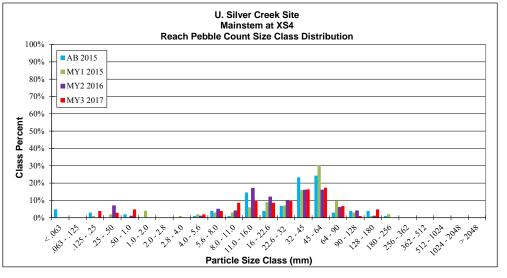




Cross-Section Pebble Count; Monitoring Year 3 U. Silver Creek Mitigation Project, DMS# 94645

SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOC	ATION:	Riffle at XS4				
FEATURE:		Riffle				
DATE:		17-Oct-17				
				MY3 2017		Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063			0%	0.063
	Very Fine	.063125			0%	0.125
	Fine	.12525	4	4%	4%	0.25
Sand	Medium	.2550	3	3%	7%	0.50
	Coarse	.50 - 1.0	5	5%	12%	1.0
	Very Coarse	1.0 - 2.0			12%	2.0
	Very Fine	2.0 - 2.8			12%	2.8
	Very Fine	2.8 - 4.0			12%	4.0
	Fine	4.0 - 5.6	2	2%	13%	5.6
	Fine	5.6 - 8.0	4	4%	17%	8.0
Gravel	Medium	8.0 - 11.0	9	9%	26%	11.0
Glaver	Medium	11.0 - 16.0	10	10%	36%	16.0
	Coarse	16 - 22.6	9	9%	44%	22.6
	Coarse	22.6 - 32	10	10%	54%	32
	Very Coarse	32 - 45	17	16%	70%	45
	Very Coarse	45 - 64	18	17%	88%	64
	Small	64 - 90	7	7%	94%	90
Cobble	Small	90 - 128	1	1%	95%	128
Cobble	Large	128 - 180	5	5%	100%	180
	Large	180 - 256			100%	256
	Small	256 - 362			100%	362
Boulder	Small	362 - 512			100%	512
Doulder	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total %	of whole count		104	100%		



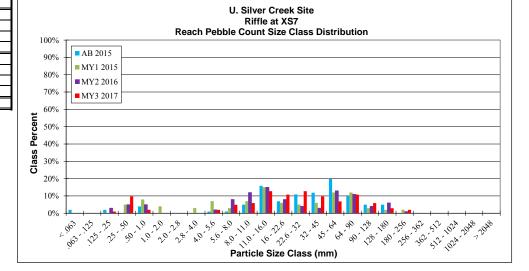


Largest particle=

e=	180										
		Summa	ry Data								
	Channel materials										
	D16 =	7.1	D84 =	59.6							
	D35 =	15.6	D95 =	119.3							
	D50 =	27.8	D100 =	128 - 180							

SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOCA	ATION:	Riffle at XS7	1			
FEATURE:		Riffle				
DATE:		17-Oct-17				
				MY3 2017		Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063			0%	0.063
	Very Fine	.063125			0%	0.125
	Fine	.12525	1	1%	1%	0.25
Sand	Medium	.2550	10	10%	11%	0.50
	Coarse	.50 - 1.0	2	2%	13%	1.0
	Very Coarse	1.0 - 2.0			13%	2.0
	Very Fine	2.0 - 2.8			13%	2.8
	Very Fine	2.8 - 4.0			13%	4.0
	Fine	4.0 - 5.6	2	2%	15%	5.6
	Fine	5.6 - 8.0	5	5%	20%	8.0
Gravel	Medium	8.0 - 11.0	6	6%	25%	11.0
Graver	Medium	11.0 - 16.0	13	13%	38%	16.0
	Coarse	16 - 22.6	11	11%	49%	22.6
	Coarse	22.6 - 32	13	13%	62%	32
	Very Coarse	32 - 45	10	10%	72%	45
	Very Coarse	45 - 64	7	7%	78%	64
	Small	64 - 90	11	11%	89%	90
Cobble	Small	90 - 128	6	6%	95%	128
CODDIe	Large	128 - 180	3	3%	98%	180
	Large	180 - 256	2	2%	100%	256
	Small	256 - 362			100%	362
Boulder	Small	362 - 512			100%	512
Doulder,	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total % o	of whole count		102	100%		

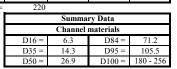
U. Silver Creek Site Riffle at XS7 **Pebble Count Particle Size Distribution** 100% AB 2015 90% ← MY1 2015 80% ▲ MY2 2016 MY3 2017 70% Cumulative Percent 50% 40% 30% 20% 10% 0% 0.01 0.1 10 100 1000 10000 Particle Size (mm)

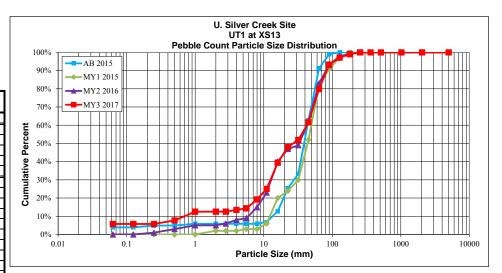


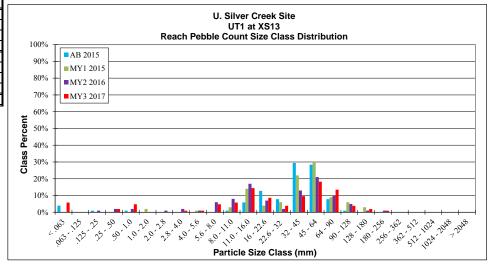
Largest particle= 210

	Summa	ry Data	
	Channel	materials	
D16 =	6.2	D84 =	76.3
D35 =	14.5	D95 =	127.3
D50 =	23.2	D100 =	180 - 256

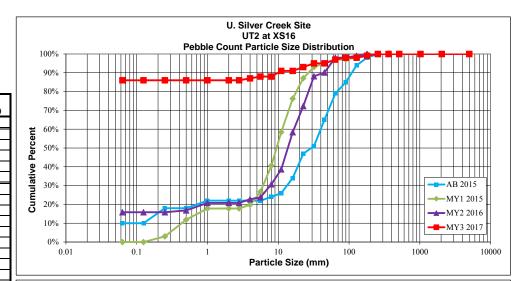
SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOC.	ATION:	UT1 XS13				
FEATURE:		Riffle				
DATE:		17-Oct-17				
				MY3 2017		Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063	6	6%	6%	0.063
	Very Fine	.063125			6%	0.125
	Fine	.12525			6%	0.25
Sand	Medium	.2550	2	2%	8%	0.50
	Coarse	.50 - 1.0	5	5%	13%	1.0
	Very Coarse	1.0 - 2.0			13%	2.0
	Very Fine	2.0 - 2.8			13%	2.8
	Very Fine	2.8 - 4.0	1	1%	13%	4.0
	Fine	4.0 - 5.6	1	1%	14%	5.6
	Fine	5.6 - 8.0	5	5%	19%	8.0
Gravel	Medium	8.0 - 11.0	6	6%	25%	11.0
Gravei	Medium	11.0 - 16.0	15	14%	39%	16.0
	Coarse	16 - 22.6	9	9%	48%	22.6
	Coarse	22.6 - 32	4	4%	52%	32
	Very Coarse	32 - 45	10	10%	62%	45
	Very Coarse	45 - 64	19	18%	80%	64
	Small	64 - 90	14	13%	93%	90
Cobble	Small	90 - 128	4	4%	97%	128
Cobble	Large	128 - 180	2	2%	99%	180
	Large	180 - 256	1	1%	100%	256
	Small	256 - 362			100%	362
Boulder	Small	362 - 512			100%	512
Boulder	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total %	of whole count		104	100%		
	Largest particle=	220				

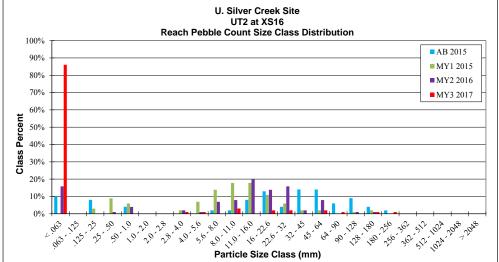






SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOC	ATION:	UT2 XS16				
FEATURE:		Riffle				
DATE:		17-Oct-17				
				MY3 2017		Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063	86	86%	86%	0.063
	Very Fine	.063125			86%	0.125
	Fine	.12525			86%	0.25
Sand	Medium	.2550			86%	0.50
	Coarse	.50 - 1.0			86%	1.0
	Very Coarse	1.0 - 2.0			86%	2.0
	Very Fine	2.0 - 2.8			86%	2.8
	Very Fine	2.8 - 4.0	1	1%	87%	4.0
	Fine	4.0 - 5.6	1	1%	88%	5.6
	Fine	5.6 - 8.0			88%	8.0
Gravel	Medium	8.0 - 11.0	3	3%	91%	11.0
Graver	Medium	11.0 - 16.0			91%	16.0
	Coarse	16 - 22.6	2	2%	93%	22.6
	Coarse	22.6 - 32	2	2%	95%	32
	Very Coarse	32 - 45			95%	45
	Very Coarse	45 - 64	2	2%	97%	64
	Small	64 - 90	1	1%	98%	90
Cobble	Small	90 - 128			98%	128
Cobble	Large	128 - 180	1	1%	99%	180
	Large	180 - 256	1	1%	100%	256
	Small	256 - 362			100%	362
Boulder	Small	362 - 512			100%	512
Boulder	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total %	of whole count		100	100%		
	Largest particle=	190				



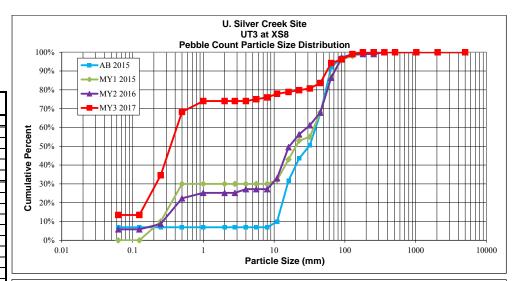


	Summa	ry Data	
	Channel	materials	
D16 =		D84 =	
D35 =		D95 =	45.0
D50 =		D100 =	180 - 256

SITE OR PRO.	JECT:	U. Silver Cr				
REACH/LOCA	TION:	UT3 XS8				
FEATURE:		Riffle				
DATE:		17-Oct-17				
				MY3 2017		Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063	14	13%	13%	0.063
	Very Fine	.063125			13%	0.125
	Fine	.12525	22	21%	35%	0.25
Sand	Medium	.2550	35	34%	68%	0.50
	Coarse	.50 - 1.0	6	6%	74%	1.0
	Very Coarse	1.0 - 2.0			74%	2.0
	Very Fine	2.0 - 2.8			74%	2.8
	Very Fine	2.8 - 4.0			74%	4.0
	Fine	4.0 - 5.6	1	1%	75%	5.6
	Fine	5.6 - 8.0	1	1%	76%	8.0
Gravel	Medium	8.0 - 11.0	2	2%	78%	11.0
Graver	Medium	11.0 - 16.0	1	1%	79%	16.0
	Coarse	16 - 22.6	1	1%	80%	22.6
	Coarse	22.6 - 32	1	1%	81%	32
	Very Coarse	32 - 45	3	3%	84%	45
	Very Coarse	45 - 64	11	11%	94%	64
	Small	64 - 90	2	2%	96%	90
Cobble	Small	90 - 128	3	3%	99%	128
CODDIC	Large	128 - 180	1	1%	100%	180
	Large	180 - 256			100%	256
	Small	256 - 362			100%	362
Boulder	Small	362 - 512			100%	512
Boulder	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total % o	f whole count		104	100%		

Largest particle= 200

	Summa	ry Data	
	Channel	materials	
D16 =	0.14	D84 =	45.52
D35 =	0.25	D95 =	73.35
D50 =	0.34	D100 =	128 - 180



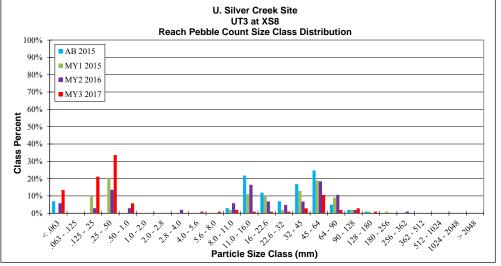


Table 10. Monitoring Year 3 Stream Summary Upper Silver Creek Restoration Project: DMS Project ID No. 94645

| Silver Creek Mainstem
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| Dimension and Substrate - Riffle
BF Width (ft
 | ft) -
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19.0 - | Min Me
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| Floodprone Width (ft
 | ft) -
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| BF Mean Depth (ft
 | ft) -
 | 1.6

 | 2.1 - | 2.29 | - | 2.93
 | - 7 | 2.3 | | 2.4 | | - 2.2 |
 | - | | 1.7 1.9 1.9
2.9 3.1 3.2
 | | 0.18 4 | 1.7 1.8
2.8 3.0 | | | | 1.7 1.8
2.8 3.0
 | | | 061 4
162 4 | | 1.7 1.7 | 1.8 0.0
3.2 0.1 | 056 4
166 4

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| BF Max Depth (ft
BF Cross-sectional Area (ft ²
 |
 | 46.0

 | 45.0 - | 46.3 - | | 55.2
 | - 7 | 2.8 | | 79.8 | | - 56.0 |
 | | | 46.9 49.7 48.
 | | 2.9 4 | 43.4 45.4 | 0.0 | | | 2.8 3.0
41.1 44.0
 | | 47.6 2.5 | | | 5.1 5.1 | 46.2 1.9 |

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| Width/Depth Ratio
 | io -
 | -

 | | 7.4 - | - | 8.8
 | - 7 | 14.1 | | 14.7 | | - 12 |
 | - | - | 11.8 14.8 15.
 | 1 17.3 | 2.4 4 | 12.4 13.8 | 13.6 15. | .7 1.2 | | 13.5 14.1
 | 13.9 | | 593 4 | 13.7 | 14.5 14.6 | 15.1 0.5 | 523 4

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| Entrenchment Ratio
 |
 | -

 | | 19.6 - | - | 24
 | - 7 | 2.3 | | 2.6 | | 15.3 - | - 17
 | | | 3.1 3.7 3.5
 | | 0.7 4 | | 3.8 4.9
1.00 1.0 | | | 3.5 4.0
 | | | 545 4 | | | 4.9 0.5 |

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| Bank Height Ratio
d50 (mm
 | 10 -
n) -
 |

 | | - 17 | 0 - | -
 | - / | 1.0 | | 1.0 | | | - 1
 | | | 1.00 1.03 1.0
 | - | 0.04 4 | 1.00 1.00 | 1.00 1.0 | - 0.00 | 4 1 | 1.00 1.00
 | - | 1.00 0. | .43 4 | 1.01 | 1.03 1.03 | 1.06 0.0 | 019 4

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| Pattern
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| Channel Beltwidth (ft
 | ft) -
 | -

 | | 45 - | - | 106
62
 | | - | | - | | 104 -
47 - | - 20
 | - 8 | | 99.0 133.3 137
52.6 57.2 55
 | | | | | | | 99.0 133.3
52.6 57.2
 | | | | | | 157.9 19.
67.9 5.0 |

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| Radius of Curvature (ft
Rc:Bankfull width (ft/ft
 | π) -
ft) -
 | -

 | | 16 - | | 3.1
 | | | | - | | 4/ - | - 2
 | 8 - | | 52.6 57.2 55.
1.95 2.12 2.0
 | | 5.03 8
0.19 8 | 52.6 57.2
1.95 2.12 | 2.04 2.5 | | | 1.95 2.12
 | | 2.51 0. | | 52.6
1.95 | | 2.51 0 | .19 8

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| Meander Wavelength (ft
 | ft) -
 | -

 | | 59 - | - | 139
 | | - | | - | | 182 - | - 31
 | | - | 172.0 225.4 201
 | .7 310.0 | 49.3 8 | 172.0 225.4 | 201.7 310 | .0 49.3 | 8 1 | 72.0 225.4
 | 201.7 | 310.0 49 | 9.3 8 | 172.0 | 225.4 201.7 | 310.0 49 | 9.3 8

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| Meander Width Ratio
 | io -
 |

 | | 2.3 - | - | 5.4
 | | - | | | | 7.0 - | - 12
 | - 0. | - | 6.4 8.3 7.5
 | 11.5 | 1.8 8 | 6.4 8.3 | 7.5 11. | .5 1.8 | 8 | 6.4 8.3
 | 7.5 | 11.5 1 | .8 8 | 6.4 | 8.3 7.5 | 11.5 1. | .8 8

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| Profile
Riffle Length (ft
 | e)
 |

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 | | . I | | | | | T - T -
 | 1. | | 36.7 50.3 44.
 | 7 89.4 | 15.1 10.0 | 12.1 50.0 | 47.6 83 | 8 17.0 | 16 2 | 27.3 56.3
 | 57.2 | 86.5 16 | 67 15 | 22.7 | 53.3 51.1 | 79.5 15 | 57 15

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| Riffle Slope (ft/ft
 | ft) -
 | -

 | | 0.001 - | - | 0.108
 | | 0.014 | | 0.024 | | 0.005 - | - 0.0
 | - 80 | - (| 0.0013 0.0078 0.00
 | 67 0.0152 | 0.0041 10.0 | 0.0000 0.0076 | | 31 0.0073 | |
 | | 0.0130 0.0 | | | 0.0067 0.0082 | |

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| Pool Length (ft
 |
 | -

 | | 15 - | - | 135
 | | - | | - | | 78 - | - 13
 | | | 50.4 97.1 94.
 | | | | 87.7 116 | | | 16.7 80.0
 | | | | | 81.5 84.2 | | 4.4 19

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| Pool Spacing (ft
Pool Max Depth (ft
 | tt) -
 | -

 | | 40 - | | 162
4.08
 | | 46 | | 277 4.1 | | 104 - | - 18
 | | | 113.7 145.8 140
4.0 4.8 5.2
 | | 29.6 15
0.58 3 | 42.8 115.2
3.9 4.3 | 4 0 5 0 | | | 48.1 113.6
3.8 4.0
 | | | 2.0 20 | | 2.0 1.7 | 193.5 39
4.2 0.5 |

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| Pool Volume (ft ³
 | a) -
 |

 | | 3.97 | | 4.08
 | | 4.1 | | 4.1 | | 3.3 | - /.
 | - | | 4.0 4.8 5.2
 | | 0.38 3 | 3.9 4.3 | 4.0 5.0 | 0 0.48 | 3 | 3.8 4.0
 | 4.0 | 4.5 0. | .25 5 | 1.1 | 2.0 1.7 | 4.2 0.0 | .80 20

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| Substrate and Transport Parameters
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| Ri% / Ru% / P% / G% / S%
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| SC% / Sa% / G% / B% / Be%
d16 / d35 / d50 / d84 / d95
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 | | | - 1.0 / 8.4 / 1 | -
 | | - | | - / 3.0 / 77 / 800 | | |
 | - | - | mean 11.2 / 21.8 / 3
 | - | | | | | - |
 | - 13.5 / 20.6 / 67 | | | - | an 6.7 / 15.1 / 25 | |

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| Reach Shear Stress (competency) lb/f
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| Stream Power (transport capacity) W/m
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| Drainage Area (SM
 | 4) -
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| BF Velocity (fps
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| BF Discharge (cfs
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| Sinuosity
Water Surface Slope (Channel) (ft/ft
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 | on, L.O. Slate,
Cantrell, M. Cl
 | , A.G. Jessup, J.
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 | June 30-July 2, 199
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| UT1
Parameter
 | USGS
Gauge
 | Region

 | ıl Curve Interval ^{1,2} | | Pre-Existing | Condition ¹
 | | — | | nce Reach Data
n of Gold Mine F | Road | | Design
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 | As-built | | | MY1 | | |
 | MY2 | ! | | | 1 | мұз |

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| Parameter
Dimension and Substrate - Riffle
 | Gauge
 | NC M

 | n./NC Pied. Rural | | - | Max
 | SD n | | | n of Gold Mine F | Road
SD n | Min Mean | Med M
 | ax SD | n | Min Mean Me
 | | SD n | Min Mean | Med Ma | ıx SD | n N | Min Mean
 | | | SD n | Min | Mean Med | | SD n

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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
 | Gauge
 | -

 | | 6.1 - | - | Max
9.3
 | SD n
- 4 | 6.3 | UT3 upstream | n of Gold Mine F
d Max
7.9 | | - 9.5 | Med M
 | - | n - | Min Mean Me
- 9.6 -
 | | SD n
- 1 | - 9.3 | Med Ma | ıx SD | n N
1 | - 9.2
 | | | SD n
- 1 | - | Mean Med
9.0 - | | SD n
- 1

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| Parameter
Dimension and Substrate - Riffle
BF Width (fl
Floodprone Width (fl
 | Gauge
 | NC M

 | n./NC Pied. Rural | | - | Max
 | SD n
- 4
- 4
- 4 | | UT3 upstream | n of Gold Mine F | | | Med M
60
 | - | n | Min Mean Me
 | | SD n
- 1
- 1
- 1 | | Med Ma | IX SD
-
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1
1 |
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- 1
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- 1 | | Mean Med | | SD n
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
Floodprone Width (ft
BF Mean Depth (ft
BF Max Depth (ft
 | Gauge
 | NC M
11.9
-
0.7

 | n./NC Pied. Rural
6.9 -

1.0 -
 | 6.1 -
10.9 -
0.97 -
1.37 - | - | Max
9.3
60.5
1.50
2.07
 | - 4
- 4
- 4 | 6.3
15
0.7
1.0 | UT3 upstream | n of Gold Mine F
d Max
7.9
19
0.9
1.35 | | - 9.5
10.9 -
- 0.95
- 1.2 | Med M
- 60
- 60
 | - | n
 | Min Mean Me - 9.6 - - >150 - - 0.9 - - 1.3 -
 | | - 1
- 1
- 1
- 1
- 1 | - 9.3
- >150
- 0.8
- 1.1 | Med Ma | | 1
1
1
1 | - 9.2
- >150
- 0.8
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- 1
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| Parameter
Dimension and Substrate - Riffle
BF Widh (fi
Floodprone Width (fi
BF Mean Depth (fi
BF Mean Depth (fi
BF Cross-sectional Area (fi ²
 | Gauge
 | NC M
11.9

 | n./NC Pied. Rural
6.9 - | 6.1 -
10.9 -
0.97 -
1.37 -
9 - | - | Max
9.3
60.5
1.50
2.07
9.07
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15
0.7
1.0
5.5 | UT3 upstream | n of Gold Mine F
d Max
7.9
19
0.9
1.35
6.5 | | - 9.5
10.9 -
- 0.95
- 1.2
- 9.0 | Med M
- 60
- 60
 | - | n | Min Mean Me - 9.6 - - >150 - - 0.9 - - 1.3 - - 8.9 -
 | | - 1
- 1 | - 9.3
- >150
- 0.8
- 1.1
- 7.0 | Med Ma | | n N
1
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1
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1 | - 9.2
- >150
- 0.8
- 1.1
- 7.0
 | Med
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- | | SD n
- 1
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| Parameter
Dimension and Substrate - Riffle
BF Width (fi
Floodprone Width (fi
BF Max Depth (fi
BF Max Depth (fi
BF Cross-sectional Area (fi
Width/Depth Rati
Entrenchment Rati
 | Gauge
 | NC M
11.9
-
0.7

 | n./NC Pied. Rural
6.9 -

1.0 -
 | 6.1 -
10.9 -
0.97 -
1.37 - | - | Max
9.3
60.5
1.50
2.07
 | - 4
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- 4 | 6.3
15
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1.0 | UT3 upstream | n of Gold Mine F
d Max
7.9
19
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1.35 | | - 9.5
10.9 -
- 0.95
- 1.2 | Med M
- 60
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 | Min Mean Me - 9.6 - - >150 - - 0.9 - - 1.3 -
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- 1 | - 9.3
- >150
- 0.8
- 1.1 | Med Ma | | 1
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- >150
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
BF Mean Depth (ft
BF Mean Depth (ft
BF Cross-sectional Area (ft ²
Width/Depth Rativ
Entrenhment Rativ
Bank Height Rativ
 | Gauge
 | NC M
11.9
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0.7

 | n./NC Pied. Rural
6.9 -

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 | 6.1 - 10.9 - 0.97 - 1.37 - 9 - 4 - 1.2 - 1.5 - | n Med

 | Max
9.3
60.5
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- 4
- 4 | 6.3
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7.3 | UT3 upstream | n of Gold Mine F
d Max
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6.5
11.7 | | - 9.5
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- 0.95
- 1.2
- 9.0
- 10 | Med M
- 60
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 | Min Mean Me - 9.6 - - >150 - - 0.9 - - 1.3 - - 8.9 - - 10.3 - - 5.3 - - 1.00 -
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- >150
- 0.8
- 1.1
- 7.0
- 12.3
- 5.2
- 1.00 | Med Ma - - - - - - - - - - - - - - - - - - - - - - - - | - | 1
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- >150
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
BF Max Depth (ft
BF Max Depth (ft
BF Cross-sectional Arca (ft
Width/Depth Rativ
Entrenchment Rativ
Bank Height Rativ
d50 (mm
 | Gauge
 | NC M
11.9
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 | n./NC Pied. Rural
6.9 -

1.0 -
 | 6.1 - 10.9 - 0.97 - 1.37 - 9 - 4 - 1.2 - | n Med

 | Max
9.3
60.5
1.50
2.07
9.07
9.6
10
 | - 4
- 4
- 4 | 6.3
15
0.7
1.0
5.5
7.3
1.9 | UT3 upstream | n of Gold Mine F
d Max
7.9
19
0.9
1.35
6.5
11.7
3.0 | | - 9.5
10.9 -
- 0.95
- 1.2
- 9.0
- 10
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 | | - 1
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- 1
- 1 | - 9.3
- >150
- 0.8
- 1.1
- 7.0
- 12.3
- 5.2 | Med Ma - - - - - - - - - - - - - - - - - - - - - - - - | - | | - 9.2
- >150
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
BF Mean Depth (ft
BF Mean Depth (ft
BF Cross-sectional Area (ft ²
Width/Depth Rativ
Entrenhment Rativ
Bank Height Rativ
 | Gauge tt) - tt) - tt) - tt) - tt) - tti - | NC M
11.9
-
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 | n./NC Pied. Rural
6.9 -

1.0 -
 | 6.1 - 10.9 - 0.97 - 1.37 - 9 - 4 - 1.2 - 1.5 - | n Med

 | Max
9.3
60.5
1.50
2.07
9.07
9.6
10
 | - 4
- 4
- 4 | 6.3
15
0.7
1.0
5.5
7.3
1.9 | UT3 upstream | n of Gold Mine F
d Max
7.9
19
0.9
1.35
6.5
11.7
3.0 | | - 9.5
10.9 -
- 0.95
- 1.2
- 9.0
- 10
1.1 - | Med M
- 600
- 600
- 7
- 7
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- 7
- 7
 | | | Min Mean Me - 9.6 - - >150 - - 0.9 - - 1.3 - - 8.9 - - 10.3 - - 5.3 - - 1.00 -
 | d Max | - 1
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- 1
- 1 | - 9.3
- >150
- 0.8
- 1.1
- 7.0
- 12.3
- 5.2
- 1.00 | Med Ma - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | | | - 9.2
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 | Max S | SD n
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
Floodprone Width (ft
BF Max Depth (ft
BF Cross-sectional Area (ft
Width/Depth Ratii
Entrenchment Ratii
Bank Height Ratii
d50 (mm
Pattern
Channel Beltwidth (ft
Radius of Curvature (ft
 | Gauge th -
 | NC M
11.9
-
0.7

 | n./NC Pied. Rural
6.9 -

1.0 -
 | 6.1 - 10.9 - 0.97 - 1.37 - 9 - 1.2 - 1.5 - - 18. 30 - 9 - | n Med

 | Max 9.3 60.5 1.50 2.07 9.07 9.07 9.07 9.07 9.07 9.07 9.07 9.07 9.07 9.07 9.07 9.06 10 3.0 - 60 21
 | - 4
- 4
- 4 | 6.3
15
0.7
1.0
5.5
7.3
1.9 | UT3 upstream | n of Gold Mine F
d Max
7.9
19
0.9
1.35
6.5
11.7
3.0 | | - 9.5
10.9 -
- 0.95
- 1.2
- 9.0
- 10
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33 -
17 - | Med M - - - - - - - - - - - - - - - - - - - - - - - 1 - - - 7 - 2
 | | | Min Mean Mean Mean - 9.6 - - >150 - - 0.9 - - 1.3 - - 8.9 - - 5.3 - - 1.00 - - 38.8 - - 33.3 49.6 44. 21.4 22.0 22. 21.4
 | d Max
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
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BF Mean Depth (ft
BF Mean Depth (ft
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Width/Depth Ratii
Entrenchment Ratii
Bank Height Ratii
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| Parameter
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Floodprone Widh (ft
BF Max Depth (ft
BF Max Depth (ft)
BF Cross-sectional Arca (ft)
Width/Depth Rativ
Entrenchment Ratis
dS0 (mm
Pattern
Channel Beltwidth (ft)
Re:Bankfull width (ft/ft)
Meander Wavlength (ft
Meander Wavlength (ft)
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 | Max S
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
Floodprone Width (ft
BF Max Depth (ft
BF Cross-sectional Area (ft
Width/Depth Ratii
Entrenchment Ratii
Bank Height Ratii
Bank Height Ratii
Channel Beltwidth (ft
Re-Bankfull width (fth
Meander Wavelength (ft
Meander Width Ratii
Profile
Riffle Length (ft
Riffle Length (ft
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 | NC M
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Floodprone Width (ft
BF Max Depth (ft
BF Cross-sectional Area (ft ²
Width/Depth Ratit
Entrenchment Ratis
Bank Height Ratis
dS0 (mm
Pattern
Channel Beltwidth (ft
Re-Bankfull width (fth
Meander Wavelength (ft
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| Parameter Dimension and Substrate - Riffle BF Width (fi Floodprone Width (fi BF Mean Depth (fi BF Mean Depth (fi BF Cross-sectional Area (fi' Width/Depth Ratii Entrenchment Ratii Bank Height Ratii Bank Height Ratii d50 (mm Pattern Channel Belwidth (fi/fi Readare Width Ratii Profile Riffle Slope (fi/fi Pool Largath (fi Pool Spacing (fi Pool Spac | Gauge ft
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11.9
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- | Max S - - | - 1 - 1 <td></td>
<td>Mean Med 9.0 - >150 - 0.8 - 1.1 - 7.0 - 11.7 - 5.6 - 1.10 - 26.9 - 23.0 22.6 23.0 22.6 23.0 7.5 21.4 21.4 0.0195 0.0174 27.4 22.4 3.4.2 26.9</td> <td>Max SI - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | | Mean Med 9.0 - >150 - 0.8 - 1.1 - 7.0 - 11.7 - 5.6 - 1.10 - 26.9 - 23.0 22.6 23.0 22.6 23.0 7.5 21.4 21.4 0.0195 0.0174 27.4 22.4 3.4.2 26.9 | Max SI - -

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| Parameter Dimension and Substrate - Riffle BF Widh (ft Floodprone Width (ft BF Max Depth (ft BF Max Depth (ft BF Cross-sectional Area (ft ² Width/Depth Ratii Entrenchment Ratii Bark Height Ratii Gature Go (mm) Pattern Channel Beltwidth (ft Meander Wavelength (ft Meander Wavelength (ft Profile Rriffle Longth (ft Pool Length (ft Pool Length (ft Pool Max Depth (ft Pool Max Depth (ft
 | Gauge ft
 | NC M
11.9
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0.7

 | n./NC Pied. Rural
6.9 -

1.0 -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | n Med

 | Max
9.3
60.5
1.50
2.07
9.07
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10
3.0
-
10
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2.1
2.7
138
18
-
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-
 | - 4
- 4
- 4 | 6.3
15
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1.0
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7.3
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45
1.2
-
0.013
- | UT3 upstream | n of Gold Mine F
d Max
7.9
19
0.9
1.35
6.5
11.7
3.0
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75
1.2
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- | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Med M - - - - - - - - - - - - - - - - - - - - - 1 - 12 - 12 - 0.0 - 0.0
 | .5 . .5 . . . | | Min Mean Mean Mean - 9.6 - - >150 - - 0.9 - - 1.3 - - 1.3 - - 8.9 - - 5.3 - - 3.8.8 - - 3.8.8 - - 3.3 49.6 44. 21.4 23.0 22. 2.30 22. 2.3.3 2.40 2.3. 7.3 7.8 7.: 16.1 20.2 1.9 0.0185 0.0304 0.02 20.1 3.3.8 35. 35. 35.
 | d Max | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Med Ma - - | | $\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
Med
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- | Max S - - | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | Mean Med 9.0 - >150 - 0.8 - 1.1 - 7.0 - 11.7 - 26.9 - 26.9 - 23.0 22.6 2.3.0 22.6 7.440 72.00 7.8 7.5 21.4 21.4 20.9 0.0125 21.4 21.4 21.4 21.4 27.4 27.4 27.4 27.4 | Max SI - - | - 1
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| Parameter
Dimension and Substrate - Riffle
BF Width (ft
Floodprone Width (ft
BF Max Depth (ft
BF Cross-sectional Area (ft ²
Width/Depth Ratit
Entrenchment Ratis
Bank Height Ratit
dS0 (mm
Pattern
Channel Beltwidth (ft
Re-Bankfull width (ft)
Meander Wavelength (ft
Meander Width Ratit
Profile
Riffle Length (ft
Riffle Length (ft
Pool Longth (ft
Pool Spacing (ft
Pool Max Depth (ft
Pool Max Depth (ft
Pool Max Depth (ft
Pool Volume (ft ²)
 | Gauge ft
 | NC M
11.9
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6.9 -

1.0 -
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 | Max
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- | UT3 upstream | n of Gold Mine F
d Max
7.9
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 | .5 . .5 . . . | | Min Mean Mean <th <="" td=""><td>d Max</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>Med Ma - -</td><td></td><td>$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>Med
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| Parameter Dimension and Substrate - Riffle BF Widh (ft Body and the second seco | Gauge 0
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d Max
7.9
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 | | Min Mean Mean <th <="" td=""><td>d Max</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>Med Ma - -</td><td></td><td>$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>Med</td><td>Max S - - 0.0642 0.0 0.642 - - - - -</td><td>- 1 - -</td><td></td><td>Mean Med 9.0 - >150 - 0.8 - 1.1 - 7.0 - 11.7 - 5.6 - 1.10 - 26.9 - 23.0 22.6 23.0 22.6 23.0 7.5 21.4 21.4 0.0195 0.0174 27.4 22.4 3.4.2 26.9</td><td>Max SI - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></th> | <td>d Max</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>Med Ma - -</td> <td></td> <td>$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>Med</td> <td>Max S - - 0.0642 0.0 0.642 - - - - -</td> <td>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
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| Parameter Dimension and Substrate - Riffle BF Width (ft Floodprone Width (ft BF Max Depth (ft BF Max Depth (ft BF Aran Depth (ft BF Cross-sectional Area (ft ² Width/Depth Rait Entrenchment Rait Bank Height Rait Bank Height Rait Channel Beltwidth (ft Re-Bankfull width (ft) Meander Wavelength (ft Meander Wavelength (ft Profile Riffle Length (ft Pool Volume (ft) Pool Volume (ft) Substrate and Transport Parameters R%/ Rw% / P%/ 19% / 5%
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 | NC M
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 | Med | Max S - - | - 1 - - - - - - | | Mean Med 9.0 - >150 - 0.8 - 1.1 - 7.0 - 11.7 - 5.6 - 1.0 - 26.9 - 49.6 44.6 23.0 22.6 2.40 2.35 74.40 72.00 7.8 7.5 21.4 21.4 0.0195 0.0174 27.4 22.69 1.2 - - - | Max SI - - | - 1
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| Parameter Dimension and Substrate - Riffle BF Width (ft BF Nach Vidth (ft BF Anan Depth (ft BF Max Depth (ft BF Max Depth (ft BF Cross-sectional Area (ft ² Width/Depth Raitis Entrenchment Ratis Bark Height Ratis Bark Height Ratis GUrvature (ft Radius of Curvature (ft Re:Bankfull width (ft) Meander Wavelength (ft Meander Width Rait Profile Riffle Longth (ft) Pool Langth (ft) Pool Spacing (ft) Pool Max Depth (ft) Pool Max Depth (ft) Pool Max Depth (ft) Pool Volume (ft) Substrate and Transport Parameters R3% (Ard% / P%) (Fd% / S%) SC% / Sa% (Fd% / B%) (Fd / G% / S%) SC% / Sa% (Fd / B4/ d5)
 | Gauge Gauge </td <td>NC M
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Mean Mean Mean Mean Mean Mean Mean Mean</td> <td>n of Gold Mine F
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Mean Mean Mean Mean Mean Mean Mean Mean | n of Gold Mine F
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| Parameter Dimension and Substrate - Riffle BF Width (ft Floodprone Width (ft BF Max Depth (ft BF Max Depth (ft BF Cross-sectional Arca (ft) Width/Depth Rait Entrenchment Rait Bark Height Rait Bark Height Rait Go (mm Pattern Channel Beltwidth (ft Readus of Curvature (ft) Meander Wavelength (ft) Meander Weidth Rait Profile Rriffle Slope (ft/ft) Pool Length (ft) Pool Spacing (ft) Pool Max Depth (ft) Pool Max Depth (ft) Pool Max Depth (ft) Pool Max Depth (ft) Substrate and Transport Parameters Ri% / Ra% / P% / (S% / S%) G(h (JdS / dS) (Jds / dS / dS) Reach Shear Stress (competency) IN/ft Max part size (mm) mobilized at bankful
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| Parameter Dimension and Substrate - Riffle BF Width (ft Floodprone Width (ft BF Maan Depth (ft BF Cross-sectional Area (ft Width/Depth Ratit Entrenchment Ratis Bank Height Ratit d50 (mm Pattern Channel Beltwidth (ft Re:Bankfull width (ft) Meander Wavelength (ft Meander Wavelength (ft Roll Sapacing (ft Profile Riffle Length (ft Roll Sapacing (ft Pool Max Depth (ft Pool Max Depth (ft Pool Max Depth (ft Pool Max Depth (ft Bool Max Depth (ft Pool Volume (ft) Substrate and Transport Parameters Ri% / Sw% (7%) / 5%) SC% / Sa% (7%) / 5% C% Sa% (7%) / 5% (7%) / 5% Reach Shear Stress (competency) Ib/f Max part size (mm) mobilized at bankful (Rosgen Curve
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| Parameter
Dimension and Substrate - Riffle
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Floodprone Width (ft
BF Max Depth (ft)
BF Max Depth (ft)
BF Cross-sectional Arca (ft)
Width/Depth Ratii
Entrenchment Ratis
Bank Height Ratii
d50 (mm
Pattern
Channel Beltwidth (ft)
ReaBankfull width (ft)
Meander Wath Ratii
Profile
Riffle Slope (ft)
Pool Spacing (ft
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| Parameter Dimension and Substrate - Riffle BF Width (ft Floodprone Width (ft BF Max Depth (ft BF Max Depth (ft BF Cross-sectional Arca (ft) Width/Depth Ratii Entrenchment Ratii Bark Closs-sectional Arca (ft) Width/Depth Ratii Entrenchment Ratii Bark Height Ratii Channel Beltvidth (ft Reibankfull width (ft/ft Meander Wavelength (ft Reibankfull width (ft/ft Meander Width Ratii Profile Riffle Length (ft Pool Nax Depth (ft Pool Spacing (ft Pool Nax Depth (ft Pool Voluma (ft) Pool Voluma (ft) Rasch Sheas Stress (competency) Ibf Max part size (mm) mobilized at bankful (Rosgen Clures) Streach Sheas Stress (competency) Ibf Max part size (mm) mobilized at bankful (Rosgen Clures) Drainage Area (SM Impervious cover estimate (% Regen Classification BF Velocity (fts) <t< td=""><td>Gauge R) </td><td>NC M
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0.7
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9.0 -

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-</td><td>. .</td><td>6.3 15 0.7 1.0 0.7 1.0 5.5 7.3 1.9 1.0 - - -</td><td>UT3 upstream
Mean Mec

</td><td>n of Gold Mine F
d Max
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0.9
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Mean Mec

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Francisco, W.A. Sciences, D.A. Control, J. C. Strand, A.S. Seeding, J.A. Eventuat, and K.E. Summa, 1999. Boardinal systems pro rotuit caronisal streams, window streams, window streams, and streams, window streams, and streams,

MICHAEL BAKER ENGINEERING, INC. MONITORING YEAR 3 REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Table 10. Monitoring Year 3 Stream Summary Upper Silver Creek Restoration Project: DMS Project ID No. 94645

| DT2
Parameter | USGS | Regional Curve Interval 1.2
 |
 | Pro | Existing Condition ¹ | |

 | ce Reach Data |
 | Desig | ı
 | | As-built
 | | | MY1
 | | | MY | ¥2 | | | MY3 | |
|---|------------------
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--|--|--|---|--|--|--
--|--|
| Dimension and Substrate - Riffle | Gauge | NC Mtn./NC Pied. Rural
 | Min
 | | Med Max SD | n Min | Mean Med

 | gan Creek
Max SD n | Min Mea
 | |
 | n Min Mea |
 | ux SD n | Min Me |
 | x SD n | Min M | ean Med | Max SI | D n | Min Mean | | SD n |
| BF Width (ft) | - | 6.0 3.1 -
 | 3.1
 | - | - 3.4 - | 2 6.3 |

 | 7.9 | - 6.0
 | - |
 | 6.6 |
 | - 1 | - 5. |
 | - 1 | - 4 | .7 - | | - 1 | - 5.5 | | - 1 |
| Floodprone Width (ft)
BF Mean Depth (ft) | - | 0.4 0.6 -
 | 5.1
0.84
 | - | - 6.4 - 0.90 - | 2 15
2 0.7 |

 | 19 | 60
 | | 120.0 -
 | >10 |
 | - 1 | - >1 | | | | | | |
 | - 1 | | .3 - | | - 1 | - >100 | | - 1 |
| BF Max Depth (ft) | - |
 | 1.1
 | - | - 1.4 - | 2 1.0 |

 | 1.35 | - 0.6
 | - |
 | 0.9 |
 | - 1 | - 0. |
 | - 1 | - 0 | .6 - | | . 1 | - 0.7 | | - 1 |
| BF Cross-sectional Area (ft ²) | - | 2.6 2.6 -
 | 2.8
 | - | - 2.9 - | 2 5.5 |

 | 6.5 | - 3.0
 | |
 | 2.7 |
 | - 1 | - 2. | | | | | | |
 | - 1 | | .5 - | | · 1 | - 2.0 | | - 1 |
| Width/Depth Ratio
Entrenchment Ratio | - |
 | 1.6
 | - | - 1.9 - | 2 1.9 |

 | 3.0 | 10 -
 | - | 20 -
 | 7.0 |
 | - 1 | - 15 | | | | | | |
 | - 1 | | .7 - | | - 1 | - 12.3 | | - 1 |
| Bank Height Ratio | - |
 | 2.2
 | - | - 2.4 - | 2 - |

 | | - 1.1
 | - |
 | 1.2 |
 | - 1 | - 1. |
 | - 1 | | .2 - | | - 1 | - 1.30 | | - 1 |
| d50 (mm)
Pattern | - | · · · ·
 | -
 | 18.00 | <u>· · · </u> | | 3.0 -

 | <u> </u> | <u> </u>
 | | <u>· · </u>
 | 29.3 |
 | · | - 9. | <u> </u>
 | <u> </u> | - 13 | - 6.6 | · · | . 1 | | <u> </u> | - 1 |
Channel Beltwidth (ft)	-	
 | - | | |

 | <u> </u> | 22 -
 | · · · | 30 -
 | - 30.4 32.0 |
 | 3 2.02 3 | | 6 32.2 35
 | | | 2.6 32.2 | | | | 32.2 35.3 | |
| Radius of Curvature (ft)
Rc:Bankfull width (ft/ft) | - | · · ·
 | -
 | - | | |

 | | 2.0 -
 | | 18 -
3.0 -
 | | 2.18 2.6
 | , | |
 | 7 1.58 3
8 0.24 3 | | 5.5 14.4
34 2.18 | | | | | 1.58 3
0.24 3 |
Meander Wavelength (ft)	-	
 | - | | - 45 |

 | 75 | 42 -
 | | 72 -
 | - 52.1 54.9 | 54.9 57.
 | 6 2.8 2 | 52.1 54 | 9 54.9 57
 | 6 2.8 2 | 52.1 54 | .9 54.9 | 57.6 2.8 | .8 2 | 52.1 54.9 | 54.9 57.6 | 2.8 2 |
| Meander Width Ratio
Profile | - |
 | -
 | - | | - 1.2 | - -

 | 1.2 | 7.0 -
 | | 12.0 -
 | - 7.9 8.3 | 8.3 8.1
 | 7 0.4 2 | 7.9 8. | 8.3 8.
 | 0.4 2 | 7.9 8 | .3 8.3 | 8.7 0.4 | .4 2 | 7.9 8.3 | 8.3 8.7 | 0.4 2 |
| Riffle Length (ft) | - |
 | -
 | - | | | - I -

 | T · T · T · |
 | Т - Т |
 | - 13.6 20.8 | 14.3 47.
 | 8 13.5 5 | 8.7 14 | 5 15.1 17
 | 6 2.6 9 | 8.5 21 | .0 13.2 | 57.3 16. | 5.3 8 | 7.2 15.8 | 11.6 42.8 | 12.3 6 |
| Riffle Slope (ft/ft) | - |
 | 0.014
 | - | - 0.057 - | - 0.013 |

 | 0.054 | 0.014 -
 | | 0.033 -
 | - 0.0000 0.013 |
 | | | 30 0.0129 0.02
 | | | 132 0.0152
.0 11.0 | | | | 0.0120 0.1117 | |
| Pool Length (ft)
Pool Spacing (ft) | - |
 | 5.2
9.5
 | - | - 51 - | - 39.9 |

 | 62.3 | 9 -
 | | 26.03 -
30 -
 | - 7.5 17.3
- 14.8 28.8 |
 | | | 9 9.5 25
9 22.8 73
 | 7 8.1 9
4 18.9 7 | | .0 11.0 | | | 7.7 34.4 | 23.0 38.7
29.5 72.6 | |
| Pool Max Depth (ft) | - |
 | -
 | - | | | 1.8 -

 | | - 1.4
 | - |
 | 1.7 |
 | - 1 | - 0. |
 | - 1 | - 0 | .8 - | | - 1 | - 0.6 | | - 8 |
| Pool Volume (ft ³) | - | · · · ·
 | -
 | - | <u>· · · </u> | |

 | <u> </u> |
 | | - -
 | | <u> </u>
 | | · · · | | | | | | |
 | | | | | · · | | | |
| Substrate and Transport Parameters
Ri% / Ru% / P% / G% / S% | - |
 | - 1
 | - | | |

 | T · T · T · |
 | <u>т.т</u> |
 | | <u>т.т.</u>
 | | |
 | | | | | | | | T • T • |
SC% / Sa% / G% / B% / Be%	-	
 | - | | |

 | |
 | - |
 | |
 | | |
 | | - | | | | | | |
| d16 / d35 / d50 / d84 / d95
Reach Shear Stress (competency) lb/f ² | - | · · ·
 |
 | - 5. | 5/13/18/43/60 | - 0.2 |

 | 0.6 | 03
 | |
 | | 0.2 / 16.4 / 29.3 / 85.
 | 0/139.4 | | 0.8 / 6.9 / 9.5 / 20.
 | / 44.6 | | 0.3 / 9.5 / 13.6 | 5 / 29.2 / 56.0 | | | -/-/-/45 | T . T . |
| Max part size (mm) mobilized at bankfull | |
 |
 | | | 0.2 |

 | 0.0 | 0.5
 | |
 | |
 | | | | | | | | |
 | | | | | | | | |
| (Rosgen Curve)
Stream Power (transport capacity) W/m ² | - |
 | - 45
 | | | - 6.5 |

 | 285 | 22
 | | + + +
 | | +
 | | | + - +
 | | | | | | | $\left \right $ | + $+$ $-$ |
| Additional Reach Parameters | - |
 | 45
 | - | 51 - | - 0.5 |

 | 20.5 | - 55
 | |
 | |
 | | |
 | | _ | | | | | | |
| Drainage Area (SM)
Impervious cover estimate (%) | - | 0.05
 |
 | 0.05 | | | 0.12 -
<5% -

 | | 0.05 -
 | - | 0.05 -
 | - 2.73 - <5% | - 3.3
 | 5 | 2.73 - | - 3.3
 | 5 | 2.73 | | 3.35 - | | 2.73 - <5% | - 3.35 | |
| Rosgen Classification | - |
 |
 | <5%
G/B ³ | | | E/Bc -

 | | - Cb,
 | ° -
C - |
 | C | ,
 | | - <5 | | | | | | |
 | | . (| | | | - C | | |
| BF Velocity (fps) | - |
 | 3.2
 | - | - 3.9 - | - 2.1 | - 3.4

 | | - 3.50
 |) - |
 | 2.98 |
 | | - 2.9 | 2
 | | | 92 - | | | - 2.92 | | |
| BF Discharge (cfs)
Valley Length | - | - 9.5 -
 | 9
 | - 194 | - 11 - | | 18 -

 | | - 10.0
 | |
 | 8.0 |
 | | - 6. |
 | | | .4 - 8.0 - | | | - 6.4
- 248.0 | | |
| Channel length (ft) ² | - |
 | -
 | 209 | | | 134.5 -

 | | - 333
 | ÷ |
 | 310 |
 | | - 31 | | | | | | |
 | | | 10 - | | | - 310 | | |
| Sinuosity | - |
 |
 | 1.08 | | | 1.05 -

 | | - 1.34
 | |
 | 1.2 |
 | | - 1. | | | | | | |
 | | - 1 | .2 - | | | - 1.2 | | |
| Water Surface Slope (Channel) (ft/ft)
BF slope (ft/ft) | - |
 | 0.01
 | - 0.024 | - 0.17 - | | 0.0197 -

 | | 0.0070 0.02
 | | .0310 -
 | - 0.0101 0.019
- 0.0077 0.011 |
 | | - 0.02 |
 | | - 0.0 | | | | - 0.0241
- 0.0203 | | |
Bankfull Floodplain Area (acres)	-	
 | - | | |

 | |
 | - |
 | 5.2 |
 | | - 5. |
 | | - 5 | .2 - | | | - 5.2 | | |
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 | - | | |

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 | | - | | | | | | |
| BEHI VL% / L% / M% / H% / VH% / E%
Channel Stability or Habitat Metric | |
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Channel Stability or Habitat Metric Biological or Other	-	
 | - | | |

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| Channel Stability or Habitat Metric
Biological or Other
1 . Harman, W.A., G.D. Jennings, J.M. Patterson, D.R. Clinton, | |
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| Channel Stability or Habitat Metric
Biological or Other | |
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| Channel Stability or Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clanton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, MA Can
UT3 | ntrell, M. Clerr |
 |
 | | | | A Conference Proceeding

 | gs, D.L. Kane, editor. American Water |
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| Channel Stability or Habitat Metric
Biological or Other
1 . Harman, W.A., G.D. Jennings, J.M. Patterson, D.R. Clinton, | |
 |
 | . Bankfull R | | ain Streams. In: AWF | A Conference Proceeding

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 | nce on Water Resour | es in Extreme Énvironme
 | | As-built
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MY3 | · · · |
| Channel Stability or Habitat Metric
Biological or Other
I . Harman, W.A., G.D. Jennings, M.N. Patterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle | ntrell, M. Clerr | mons, G.D. Jennings, D.R. Clinton, J.N
Regional Curve Interval ^{1,2}
NC Mtn./NC Pied. Rural
 | Patterson. 2000
Min
 | Bankfull R | gional Curves for North Carolina Moun Existing Condition ¹ Med Max SD | n Min | A Conference Proceeding Reference Mor Mean Med

 | gs, D.L. Kane, editor. American Water
ce Reach Data
gan Creek
Max SD n | Min Mea
 | nce on Water Resour
Desig
n Med | es in Extreme Énvironme
 | n Min Mea | n Med Ma
 | | | n Med Ma
 | | - Min M | ean Med | Max SI | D n | | Med Max | |
| Channel Stability or Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, MA Can
UT3
Parameter | ntrell, M. Clerr | mons, G.D. Jennings, D.R. Clinton, J.N
Regional Curve Interval ^{1,2}
 | Patterson. 2000
 | Bankfull R | Best Section Section Existing Condition ¹ Med Med Max SD - 5.3 - - 48.0 - | ain Streams. In: AWF | A Conference Proceeding Reference Mor Mean Med

 | gs, D.L. Kane, editor. American Water
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gan Creek | Resources Specialty Confere
 | nce on Water Resour
Desig
n Med | es in Extreme Énvironme
 | its. Anchorage, Alaska. | n Med Ma
8.2 10.
 | | | n Med Ma
7.8 8.
 | | 7.2 8 | | Max SI | D n
85 3
- 3 | Min Mean
7.3 8.1
- >150 | Med Max | |
| Channel Stability or Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jennings, M.N. Patterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Mean Depth (ft)
BF Mean Depth (ft) | ntrell, M. Clerr | mons, G.D. Jennings, D.R. Clinton, J.N
Regional Curve Interval ^{1,2}
NC Mtn./NC Pied. Rural
 | Min 3.7 7.7 1.05
 | Bankfull R | Med Max SD - 5.3 - - 48.0 - - 1.57 - | n Min
2 0.1
- 15.0
- 0.70 | A Conference Proceeding Reference Mor Mean Med

 | g, D.L. Kane, editor. American Water cce Reach Data gan Creek Max SD n 0.1 19.0 0.900 | Min Mea
- 8.0
- 0.8
 | Desig
n Med
-
- | Max SD

 | n Min Mea
- 8.1 8.8
- > 15
- 0.7 0.8 | n Med Ma
8.2 10.
0
0.8 0.9
 | 1 0.91 3

9 0.10 3 | 7.0 7.
- >1
0.6 0. | m Med Ma
7.8 8.
0
0.7 0.
 | 0.76 3

0.05 3 | 7.2 8
- >1
0.5 0 | ean Med
.1 7.8
50 -
.7 0.7 | Max SI
9.2 0.8

0.7 0.1 | 85 <u>3</u>
- <u>3</u>
11 <u>3</u> | 7.3 8.1
- >150
0.5 0.6 | Med Max 7.6 9.3 - - 0.6 0.7 | 0.87 3
- 3
0.09 3 |
| Channel Stability or Habitat Metric
Biological or Other
I. Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
Diffle BF Width (ft)
BF Weah Depth (ft)
BF Max Depth (ft) | ntrell, M. Clerr | Regional Curve Interval ^{1,2}
NC Mtn./NC Pied. Rural
9.8 5.5 -
 | Min 3.7 7.7
 | Bankfull R | Med Max SD - 5.3 - - 48.0 - | n Min
2 0.1
- 15.0 | A Conference Proceeding Reference Mor Mean Med

 | gs, D.L. Kane, editor. American Water
ce Reach Data
gan Creek
Max SD n
0.1
19.0 | Min Mea
- 8.0

 | Desig | es in Extreme Énvironme
 | n Min Mea
- 8.1 8.8
- >15 | n Med Ma
8.2 10.
0
0.8 0.9
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- >1 | In Med Ma 0 7.8 8. 0 - - ' 0.7 0. 0 1.1 1.
 | 0.76 3

0.05 3
0.06 3 | 7.2 8
- >1
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1.1 1 | ean Med
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50 - | Max SI
9.2 0.8 | 85 3
- 3
11 3
03 3 | 7.3 8.1
- >150 | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 | 0.87 3 |
| Channel Stability or Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clanton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft)
Width/Depth Ratio | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 7.7 1.05 1.7 5.56 2.4
 | Bankfull R | Med Max SD - 5.3 - - 48.0 - - 1.57 - - 2.0 - - 5.93 - - 5.93 - - 5.93 - | n Min
2 0.1
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3 | A Conference Proceeding Reference Mor Mean Med

 | gg D.I. Kane, editor. American Water
cc Reach Data
gan Creek
Max SD n
0.1
19.0
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1.4 | Min Mea - 8.0 - - - 0.8 1.0 -
 | Desig
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- | Max SD

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- 8.1 8.8
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- 1.1 1.2
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- 9.1 11.0 | n Med Ma 8.2 10. 0 - - 0.8 0.9 1.1 1.4 6.5 7 5 10.3
 | 1 0.91 3 - - - 9 0.10 3 4 0.13 3 3 0.43 3 5 2.75 3 | 7.0 7. - >1. 0.6 0. 0.9 1. 4.8 5. 10.2 11 | m Med Max 0 7.8 8. 0 - - 1 0.7 0. 1 1.1 1. 1 5.3 5. 8 10.6 14
 | 0.76 3 - - 1 0.05 3 0.06 3 4 0.41 3 5 1.97 3 | 7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 | ean Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 2.8 10.6 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 | 85 3 - 3 11 3 03 3 45 3 75 3 | $\begin{array}{c cccc} 7.3 & 8.1 \\ \hline & > 150 \\ \hline 0.5 & 0.6 \\ \hline 0.9 & 1.0 \\ \hline 4.4 & 4.8 \\ \hline 10.13 & 13.9 \\ \end{array}$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 | 0.87 3
- 3
0.09 3
0.11 3
0.37 3
3.49 3 |
| Channel Stability or Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jennings, M. Paterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UTT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Max Depth (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft ²)
Width/Depth Ratio
Entrenchment Ratio | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 7.7 1.05 1.7 5.56 2.4 2.1 </td <td>Bankfull R</td> <td>Baseline State State</td> <td>n Min
2 0.1
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- 5.5</td> <td>A Conference Proceeding Reference Mor Mean Med</td> <td>gs, D.I. Kane, editor. American Water
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Max SD n
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6.5</td> <td>Min Mea - 8.0 - - - 0.8 1.0 - - 6.0</td> <td>Desig
n Med
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-
-
-</td> <td>A SD</td> <td>n Min Mea
- 8.1 8.8
- >15
- 0.7 0.8
- 1.1 1.2
- 6.3 6.7
- 9.1 11.4
- 5.4 7.8</td> <td>n Med Max 8.2 10. 0 - - 0.8 0.9 1.1 1.4 6.5 7.2 5 10.3 15 8.5 9.4</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>7.0 7. - >1. 0.6 0. 0.9 1. 4.8 5. 10.2 11 6.1 7.</td> <td>Im Med Mail 0 7.8 8. 0 - - ' 0.7 0. 1.1 1. 5.3 5 5.3 5. 8 10.6 144 ' 7.0 9.</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7</td> <td>ean Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 2.8 10.6 .5 7.0</td> <td>Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55</td> <td>85 3 - 3 11 3 03 3 45
 3 75 3 5134 3</td> <td>7.3 8.1 - >150 0.5 0.6 0.9 1.0 4.4 4.8 10.13 13.9 5.83 7.4</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42</td> <td>0.87 3 - 3 0.09 3 0.11 3 0.37 3 3.49 3 1.50076 3</td> | Bankfull R | Baseline State State | n Min
2 0.1
- 15.0
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 | gs, D.I. Kane, editor. American Water
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Max SD n
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- 6.3 6.7
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- 5.4 7.8
 | n Med Max 8.2 10. 0 - - 0.8 0.9 1.1 1.4 6.5 7.2 5 10.3 15 8.5 9.4
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.0 7. - >1. 0.6 0. 0.9 1. 4.8 5. 10.2 11 6.1 7. | Im Med Mail 0 7.8 8. 0 - - ' 0.7 0. 1.1 1. 5.3 5 5.3 5. 8 10.6 144 ' 7.0 9. | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7 | ean Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 2.8 10.6 .5 7.0
 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 | 85 3 - 3 11 3 03 3 45 3 75 3 5134 3 | 7.3 8.1 - >150 0.5 0.6 0.9 1.0 4.4 4.8 10.13 13.9 5.83 7.4 | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 | 0.87 3 - 3 0.09 3 0.11 3 0.37 3 3.49 3 1.50076 3 |
| Channel Stability or Habitat Metric
Biological or Other
I . Harman, W.A., G.D. Jemings, J.M. Patterson, D. & Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Merris, M.A Gan
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Max Depth (ft)
BF Tross-sectional Area (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft)
Bark Height Ratio
Bank Height Ratio
d50 (mm) | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 7.7 1.05 1.7 5.56 2.4 2.1 1.0 </td <td>Bankfull R</td> <td>Med Max SD - 5.3 - - 48.0 - - 1.57 - - 2.0 - - 5.93 - - 5.93 - - 5.93 -</td> <td>n Min
2 0.1
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3</td> <td>A Conference Proceeding Reference Mor Mean Med</td> <td>gs, D.I. Kane, editor. American Water
ce Reach Data
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Max SD n
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0.90
1.4
6.5</td> <td>Min Mea - 8.0 - - - 0.8 - 0.6 - 0.6 - 6.0 - 6.0 - 8.9 - 0.8</td> <td>Design Med</td> <td>Max SD

</td> <td>n <u>Min Mea</u>
- 8.1 8.8
- >15
- 0.7 0.8
- 1.1 1.2
- 6.3 6.3
- 9.1 11.0</td> <td>n Med Max 8.2 10. 0 - - 0.8 0.9 1.1 1.4 6.5 7 5 10.3 8.5 9.4 0 1.10</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>7.0 7. - >1. 0.6 0. 0.9 1. 4.8 5. 10.2 11 6.1 7. 1.10 1.2</td> <td>m Med Max 0 7.8 8. 0 - - 1 0.7 0. 1 1.1 1. 1 5.3 5. 8 10.6 14</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7</td> <td>Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 .8 10.6 .5 7.0 13
1.10</td> <td>Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 5134 3</td> <td>7.3 8.1 - >150 0.5 0.6 0.9 1.0 4.4 4.8 10.13 13.9 5.83 7.4</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18</td> <td>0.87 3 - 3 0.09 3 0.11 3 0.37 3 3.49 3 1.50076 3</td> | Bankfull R | Med Max SD - 5.3 - - 48.0 - - 1.57 - - 2.0 - - 5.93 - - 5.93 - - 5.93 - | n Min
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- 7.3 | A Conference Proceeding Reference Mor Mean Med

 | gs, D.I. Kane, editor. American Water
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 | Design Med | Max SD

 | n <u>Min Mea</u>
- 8.1 8.8
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- 0.7 0.8
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- 9.1 11.0 | n Med Max 8.2 10. 0 - - 0.8 0.9 1.1 1.4 6.5 7 5 10.3 8.5 9.4 0 1.10
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.0 7. - >1. 0.6 0. 0.9 1. 4.8 5. 10.2 11 6.1 7. 1.10 1.2 | m Med Max 0 7.8 8. 0 - - 1 0.7 0. 1 1.1 1. 1 5.3 5. 8 10.6 14
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7 | Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 .8 10.6 .5 7.0 13 1.10 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 | 85 3 - 3 11 3 03 3 45 3 75 3 5134 3 | 7.3 8.1 - >150 0.5 0.6 0.9 1.0 4.4 4.8 10.13 13.9 5.83 7.4 | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 | 0.87 3 - 3 0.09 3 0.11 3 0.37 3 3.49 3 1.50076 3 |
| Channel Stability of Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Chanco,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
Floodprome Width (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Cross-sectional Area (ft?)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (mm)
Pattern | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 7.7 1.05 1.7 5.56 2.4 2.1 1.0 </td <td>Pre
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-</td> <td>Med Max SD - 5.3 - - 48.0 - - 18.7 - - 2.0 - - 5.93 - - 5.93 - - 5.93 - - 5.1 - - 2.1 - - 2.2 - - 2.4 -</td> <td>n Min
2 0.1
- 15.0
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- 7.3</td> <td>A Conference Proceeding Reference Mor Mean Med</td> <td>gs, D.I. Kane, editor. American Water
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Max SD n
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6.5</td> <td>Min Mea - 8.0 - 0.8 1.0 - - 6.0 - 8.9 - 1.0 - 8.9 - 1.0</td> <td>Desig Desig -
 - -</td> <td>A SD</td> <td>n Min Mea - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.0 1.1 - 5.4 7.8 - 1.00 1.10 - - 31.5</td> <td>n Med Ma 8.2 10. 0 - - 0.8 0.9 1.1 14. 6.5 7 0 10.3 15. 8.5 9 0 1.10 1.2</td> <td>1 0.91 3

9 0.10 3
4 0.13 3
5 2.75 3
4 1.71 3
0 0.08 3
</td> <td>7.0 7. - >1 0.6 0. 0.9 1. 4.8 5. 10.2 11 6.1 7. 1.10 1.2</td> <td>m Med Mix 0 7.8 8. 0 - - ' 0.7 0. 1.1 1. 1. i 5.3 5. 8 10.6 14 ' 7.0 9. 0 1.20 1 4 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7 1.00 1. - 10</td> <td>Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 2.8 10.6 .5 7.0 .13 1.10 .6.4 -</td> <td>Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 5134 3 12 3</td> <td>$\begin{array}{c ccccc} 7.3 & 8.1 \\ \hline & & >150 \\ 0.5 & 0.6 \\ 0.9 & 1.0 \\ 4.4 & 4.8 \\ 10.13 & 13.9 \\ 5.83 & 7.4 \\ 1.06 & 1.14 \\ \hline & & 0.3 \end{array}$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18</td> <td>0.87 3 - 3 0.09 3 0.11 3 0.37 3 3.49 3 1.50076 3 0.05 3</td> | Pre
Mean
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- | Med Max SD - 5.3 - - 48.0 - - 18.7 - - 2.0 - - 5.93 - - 5.93 - - 5.93 - - 5.1 - - 2.1 - - 2.2 - - 2.4 - | n Min
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 | gs, D.I. Kane, editor. American Water
ce Reach Data
gan Creek
Max SD n
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6.5 | Min Mea - 8.0 - 0.8 1.0 - - 6.0 - 8.9 - 1.0 - 8.9 - 1.0
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 | n Min Mea - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.0 1.1 - 5.4 7.8 - 1.00 1.10 - - 31.5 | n Med Ma 8.2 10. 0 - - 0.8 0.9 1.1 14. 6.5 7 0 10.3 15. 8.5 9 0 1.10 1.2
 | 1 0.91 3

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 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7 1.00 1. - 10 | Med .1 7.8 50 - .7 0.7 .1 1.1 .3 5.3 2.8 10.6 .5 7.0 .13 1.10 .6.4 - | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 | 85 3 - 3 11 3 03 3 45 3 75 3 5134 3 12 3 | $\begin{array}{c ccccc} 7.3 & 8.1 \\ \hline & & >150 \\ 0.5 & 0.6 \\ 0.9 & 1.0 \\ 4.4 & 4.8 \\ 10.13 & 13.9 \\ 5.83 & 7.4 \\ 1.06 & 1.14 \\ \hline & & 0.3 \end{array}$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 | 0.87 3 - 3 0.09 3 0.11 3 0.37 3 3.49 3 1.50076 3 0.05 3 |
| Channel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jemings, J.M. Paterson, D.R. Clinton,
2 Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UTT3
Parameter
Dimension and Substrate - Riffle
BF Width (R)
BF Max Depth (R)
BF Max Depth (R)
BF Cross-sectional Area (R ²)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (R)
Radius of Curvature (R) | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 . 7.7 . . 1.05 . . 5.56 2.4 . 2.1 . . 1.0 . . 44 . .
 | Pre
Mean
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- | Baseline State State | n Min
2 0.1
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3 | A Conference Proceeding Reference Mor Mean Med

 | gs, D.I. Kane, editor. American Water
ce Reach Data
gan Creek
Max SD n
0.1
19.0
0.90
1.4
6.5 | Min Mea - 8.0 - 8.0 - 0.0 - 1.3
 | Desig Desig - | Max SD

 | n Min Mea
- 8.1
8.6
- 1.1 2.2
- 6.3 6.7
- 9.1 11.1
- 6.3 6.7
- 9.1 11.1
- 5.4
- 1.00 1.11
- 36.4 47.0
- 14.0 18.1 | n Med Ma 8.2 10. 0 - 0.8 0.1 1.1 1.4 6.5 7.2 i 10.3 15. 8.5 9.1 1.10 1.2 - 0 48.4 57.2 1 19.4 25.5
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.0 7. - >1. 0.6 0.0. 0.9 1. 4.8 5. 10.2 11 6.1 7. 1.10 1.2 - 20 36.4 47 14.0 18 | m Med Mi 0 7.8 8. 0 - - 0 - - 1 0.7 0. 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1 4 - - 0 4.8.4 57 8 19.4 25 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c c c c
c c c c c c c c c c c c c c c $ | ean Med 1.1 7.8 50 - 7 0.7 1.1 1.1 3 5.3 8.8 10.6 5 7.0 13 1.10 6.4 - 70 48.4 9.4 19.4 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - - - 25.1 3.7 | 85 3 - 3 11 3 03 3 45 3 75 3 5134 3 12 3 - - 21 7 72 7 | 7.3 8.1 - >150 0.5 0.6 0.9 1.0 4.4 4.8 10.13 13.9 5.83 7.4 1.06 1.14 - 0.3 36.4 47.0 14.0 18.8 | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - - - 48.4 57.7 19.4 25.1 | 0.87 3 - 3 0.09 3 0.11 3 0.37 3 1.50076 3 0.05 3 - - 7.21 7 3.72 7 |
| Channel Stability or Habitat Metric
Biological or Other
1 . Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clinton,
2 . Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
Diffle
BF Width (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Max Depth (R)
BF Cross-sectional Area (R ¹)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Height Ratio
d50 (mm)
Pattern | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 7.7 1.05 1.7 1.7 1.65 2.4 1.7 1.0 - - 44 11 2.5 12.5 11 12.5 11 12.5 11 12.5 11 12.5 11 12.5 11 12.5 11 12.5
 | Pre
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-
-
- | gional Curves for North Carolina Mount Existing Condition ¹ Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.5 - - 5.7 - - 5.8 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 9.1 - - - - - 9.1 - - - - - 9.1 - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 1.5
- 7.3
- 7.3

 | A Conference Proceeding Reference Mor Mean Med

 | gs, D.I. Kane, editor. American Water
ce Reach Data
gan Creek
Max SD n
0.1
19.0
0.90
1.4
6.5 | Min Measures - 8.0 - 8.0 - - - 0.8 1.0 - - 6.0 - 8.0 - 6.0 - 1.0 - - 2.5 - 1.3 - 1.8 -
 | Desig Desig - | Max SD

 | n Min Mees - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.01 1.11 - 36.4 47.0 - 36.4 47.0 - 1.6 2.1 | n Med Max 8.2 10. 0 - 0.8 00. 1.1 1.4 6.5 7 5 10.3 15. 8.5 9.1 1.10 1.2 - 1 48.4 57. 10.4 2.2 2.2
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mi 0 7.8 8. 0 - - 7 0.7 0.0 1 1.1 1. 1 5.3 5. 8 10.6 14 7 0.9 9. 0 1.20 1 4 - - 0 48.4 57 8 19.4 252 2.2 2. 2.
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.2 8 - >1 0.5 00 1.1 1 4.7 5 9.7 12 5.9 7 1.00 1.1 - 10 | Med 11 7.8 50 - 7 0.7 1.1 1.1 3 5.3 .8 10.6 .5 7.0 13 1.10 0.4 - 7.0 48.4 8.8 19.4 1.1 2.2 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 2.9 0.4 | 85 3 - 3 11 3 03 3 45 3 75 3 5134 3 12 3 - - 21 7 72 7 42 7 | $\begin{array}{c ccccc} 7.3 & 8.1 \\ \hline & > 150 \\ 0.5 & 0.6 \\ 0.9 & 1.0 \\ 4.4 & 4.8 \\ 10.13 & 13.9 \\ 5.83 & 7.4 \\ 1.06 & 1.14 \\ - & 0.3 \\ \hline & 36.4 & 47.0 \\ 14.0 & 18.8 \\ 1.6 & 2.1 \\ \end{array}$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.2 | 0.87 3 - 3 0.09 3 0.11 3 0.37 3 1.50076 3 0.05 3 0.05 3 7.21 7 3.72 7 0.42 7 |
| Channel Stability or Habitat Metric
Biological or Other
1 . Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clanton,
2 . Harman, W.A., G.D. Jenning, J.M. Patterson, D.R. Clanton,
2 . Harman, W.A., G.D. Jenning, M.A. Walker, R. Morris, M.A. Can
UTT3
Parameter
Dimension and Substrate - Riffle
BF Width (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Cross-sectional Area (R ¹)
Width/Depth Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (R)
Re-Bankfull width (ft/R)
Meander Wavelength (R)
Meander Wavelength (R) | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 . 7.7 . . 1.05 . . 5.56 2.4 . 2.1 . . 1.0 . . 44 . .
 | Pre
Mean
-
-
-
-
-
-
- | Baseline State State | n Min
2 0.1
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3 | Reference Mean Mor - -

 | gs, D.I. Kane, editor. American Water
ce Reach Data
gan Creek
Max SD n
0.1
19.0
0.90
1.4
6.5 | Min Mea - 8.0 - 8.0 - 0.0 - 1.3
 | Design n Med - - | Max SD

 | n Min Mea
- 8.1
8.4
- 8.1 8.8
- >15
- 0.7 0.8
- 1.1 12
- 6.3 6.7
- 9.1 11.1
- 5.4 7.8
- 1.00 1.11
- 36.4 47,7
- 36.4 47,7
- 14.0 18.1
- 14.0 18.1
- 14.0 18.1
- 16.5 7.45 | n Med Ma 8.2 10. 0 - 0.8 0.1 1.1 1.4 6.5 7.2 i 10.3 15. 8.5 9.1 1.10 1.2 - 0 48.4 57.2 1 19.4 25.5
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mi 0 7.8 8. 0 - - 0 - - 1 0.7 0. 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1 4 - - 0 4.8.4 57 8 19.4 25 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.2 8
 >1 0.5 0.1 1.1 1 4.7 5 9.7 12 5.9 7 1.00 1. - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | ean Med 1.1 7.8 50 - 7 0.7 1.1 1.1 3 5.3 8.8 10.6 5 7.0 13 1.10 6.4 - 70 48.4 9.4 19.4 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 112 3 12 3 - - 21 7 72 7 42 7 30 7 | 7.3 8.1 - >150 0.5 0.6 0.9 1.0 4.4 4.8 10.13 13.9 5.83 7.4 1.06 1.14 - 0.3 36.4 47.0 14.0 18.8 1.6 2.1 63.5 74.9 | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - <td< td=""><td>0.87 3 - 3 0.09 3 0.11 3 0.37 3 1.50076 3 0.05 3 - - 7.21 7 3.72 7</td></td<> | 0.87 3 - 3 0.09 3 0.11 3 0.37 3 1.50076 3 0.05 3 - - 7.21 7 3.72 7 |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
I. Harman, W.A., G.D. Jemings, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Max Depth (ft)
BF Tross-sectional Area (ft)
BF Tas Depth (ft)
BF Cross-sectional Area (ft)
Br Arban Depth (ft)
Re Bankfull width (ft/ft)
Meander Wavelength (ft)
Meander Width Ratio
Profile | ntrell, M. Clerr | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 . 7.7 1.05 1.7 . 2.4 1.0 - . 44 11 2.5 49
 | Pre
Mean
-
-
-
-
-
-
- | gional Curves for North Carolina Mountain SD Existing Condition Med Max SD - 5.3 - | n Min
2 0.1
15.0
- 15.0
- 1.0
- 1.0
- 1.0
- 1.0
- 1.0
- 1.9

- | Reference Mean Mor - -

 | g, D.L. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 19.0 19.0 19.0 14.4 6.5 11.7 6.5 11.7 1.3 | Min Measures - 8.0 - 8.0 - - - 0.8 1.0 - - 6.0 - 8.0 - 6.0 - 1.0 - - 1.0 - - 2.5 1.3 - 1.8 -
 | Design n Med - - | Max SD

 | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 3.6.4 47.1 - 1.4.0 18.8 - 1.6 2.1 - 6.3.5 7.4 - 7.2 8.5 | n Med Mrz
8.2 10.0
0
0.8 0.0
1.1 1 1.
6.5 7.
1.0 10.3 15
8.5 9.
1.1.0 1.2

0 48.4 57.
1. 19.4 25
2.2 2.
2.2 2.
71.7 94
8.1 10.
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
 | 7.2 8 - >1 0.5 00 1.1 1 4.7 55 9.7 1.00 1. - 36.4 4' 1.6 2 63.5 7'' 7.2 8 | Med 1. 7.8 50 - 7 0.7 1.1 1.1 3 5.3 8.8 10.6 5.5 7.0 13 1.10 5.4 - 7.0 48.4 1.8 19.4 1.1 2.2 1.9 71.7 5 8.1 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - - - 57.7 7.2 25.1 3.7 2.9 0.4 94.2 10.7 10.7 1.1 | 85 3 - 3 11 3 03 3 45 3 75 3 3134 3 12 3 - - 21 7 72 7 42 7 30 7 17 7 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
1. Harman, W.A., G.D. Jenning, J.M. Paterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Cross-sectional Area (R ¹)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (R)
Meander Wavelength (R)
Meander Wavelength (R)
Meander Width Ratio
Profile
Riffle Length (R)
Riffle Length (R) | USGS
Gauge | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 . 7.7 1.05 1.7 . 2.4 1.0 - . 44 11 2.5 49
 | Pre
Mean
-
-
-
-
-
-
- | gional Curves for North Carolina Mountain SD Existing Condition Med Max SD - 5.3 - | n Min
2 0.1
15.0
- 15.0
- 1.0
- 1.0
- 1.0
- 1.0
- 1.0
- 1.9

- | Reference Mean Mor - -

 | g, D.L. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 19.0 19.0 19.0 14.4 6.5 11.7 6.5 11.7 1.3 | Min Measures - 8.0 - 8.0 - - - 0.8 1.0 - - 6.0 - 8.0 - 6.0 - 1.0 - - 1.0 - - 2.5 1.3 - 1.8 -
 | Design n Med - - | Max SD

 | n Min Measure - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 3.6.4 47.0 - 1.4.0 18.3 - 1.6.6 2.1 - 3.6.4 47.0 - 1.4.0 18.3 - 1.6.5 7.4 - 7.2 8.5 - - 1.3.1 2.1 - 0.0 0.0 0.0 | n Med Mr 8.2 10.0 - 0.8 00 - 0.8 00 - 0.8 00 1.1 1.4 6.5 7.7 - - 1.0.3 15. 8.5 9.2 1.1.10 1.2 - - 0 48.4 57. 19.4 25. 1.9.4 2.5 1.9.4 2.5 1.7.7 9.4 8.1 10.0 20.6 2.8. 0.0 0.0
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 2 2.2 2. 9 7.1.7 9 7.1.7 9 7.1.7 9 2.2. 9 7.1.7 9 2.1.0 63 2.1.0 63 2.1.0
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccc} 7.2 & 8 & 8 \\ \hline & & & >1 \\ 0.5 & 0 \\ 1.1 & 1 \\ 4.7 & 5 \\ 9.7 & 12 \\ 5.9 & 7 \\ 1.00 & 1 \\ \hline & & & 10 \\ \hline & & & & 10 \\ \hline & & & & & \\ 36.4 & 4' \\ 14.0 & 18 \\ \hline & & & & & \\ 1.6 & 2 \\ 63.5 & 7 \\ \hline & & & & \\ 7.2 & 63.5 \\ \hline & & & & \\ 11.4 & 2'' \\ 0.0069 & 0.0 \\ \hline \end{array}$ | Med 1.1 7.8 50 - 7.7 0.7 1.1 1.1 3.3 5.3 8.8 10.6 5.5 7.0 13 1.10 14.4 - 15.5 7.0 13 1.10 14.4 - 10.48.4 - 11.1 2.2 19.7 71.7 5.5 8.1 2.2 26.7 2.12 0.0170 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 | 85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 42 7 30 7 17 7 8. 18 18 18 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
I. Harman, W.A., G.D. Jemings, M. Raterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
Dimension and Substrate - Riffle
BF Width (ft)
BF Max Depth (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (rmn)
Pattern
Channel Beltwidth (ft)
ReaBankfull width (ft, ft)
Meander Wavelength (ft)
Riffle Length (ft)
Riffle Length (ft)
Riffle Length (ft) | USGS
Gauge | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 7.7 7.7 1.05 5.56 2.4 2.1 1.0 1.0 - - 44 11 - 1.0 - - 0.0052 - 2.5
 | Pre
Mean
-
-
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-
-
-
- | gional Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 2.0 - - 5.93 - - 5.93 - - 5.93 - - 2.4 - - 9.1 - - 2.4 - - - - - 9.4 - - - - - 7.2 - - 7.2 - - 12.8 - - 0.0305 - - 6.5 - | n Min
2 0.1
15.0
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3

- | Reference Mean Med - -

 | g, D.I. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 19.0 19.0 19.0 19.0 14.4 6.5 11.7 14.4 1.7 1.3 | Min Mea - 8.0 - 8.0 - 0.8 1.0 - - 6.0 - 8.9 - 1.0 - 6.0 - 8.9 - 1.0 - 1.10
 | Design n Med - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | Max SD - - 3 - 84 - - - - - - - - - - - - - - - - - <td>n Min Mea - 8.1 8.8 - >>15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 36.4 4.7 - 1.60 1.1 - 36.4 47.0 - 14.0 18 - 1.6 2.5 - 1.2 8.5 - 1.3 2.1 - 13.1 21: - 0.0 0.0 - 18.4 26.6</td> <td>n Med Mr 8.2 10.0 - 0.8 00.1 - 0.8 00.1 1.1 1.4 1.6 5.7 1.0.3 15 1.3 1.0.3 15 2.2 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 2.2 2.2 2.4 8.1 10.0 2.0.6 2.8 3.3</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med Mi 0 -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7 1.00 1 - 16 2 63.5 7.2 8 1.6 2 63.5 72 11.4 22 0.0069 0.0 13.5 22</td> <td>an Med 1.1 7.8 50 - 7 0.7 1.1 1.1 3 5.3 8.8 10.6 5.5 7.0 13 1.10 1.6 5 7.0 4 7.0 4.8.4 1.1 2.2 1.1 1.10 1.3 1.10 1.4 - 7.0 4.8.4 1.1 2.2 1.1 2.2 1.1 2.6.7 2.2 2.6.7 2.12 0.0170 8.8 23.5</td> <td>Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 9.4.2 10. 10.7 1.1 64.5 11. 0.0702 0.01 34.4 6.5</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 112 3 - - 21 7 72 7 42 7
 30 7 17 7 .8 18 145 18 2 17</td> <td>$\begin{array}{c ccccc} 7.3 & 8.1 \\ - & > 150 \\ 0.5 & 0.6 \\ 0.9 & 1.0 \\ 4.4 & 4.8 \\ 10.13 & 13.9 \\ 5.83 & 7.4 \\ 1.06 & 1.14 \\ - & 0.3 \\ 36.4 & 47.0 \\ 14.0 & 18.8 \\ 1.6 & 2.1 \\ 1.6 & 2.1 \\ 1.6 & 2.5 \\ 9.7.2 & 8.5 \\ \hline 10.3 & 25.9 \\ 0.000 & 0.018 \\ 7.6 & 28.5 \\ \end{array}$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0503 28.8 60.5</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | n Min Mea - 8.1 8.8 - >>15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 36.4 4.7 - 1.60 1.1 - 36.4 47.0 - 14.0 18 - 1.6 2.5 - 1.2 8.5 - 1.3 2.1 - 13.1 21: - 0.0 0.0 - 18.4 26.6 | n Med Mr 8.2 10.0 - 0.8 00.1 - 0.8 00.1 1.1 1.4 1.6 5.7 1.0.3 15 1.3 1.0.3 15 2.2 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 1.1.10 1.2 - 2.2 2.2 2.4 8.1 10.0 2.0.6 2.8 3.3
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mi 0 -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7.2 8 - >1 0.5 0 1.1 1 4.7 5 9.7 12 5.9 7 1.00 1 - 16 2 63.5 7.2 8 1.6 2 63.5 72 11.4 22 0.0069 0.0 13.5 22 | an Med 1.1 7.8 50 - 7 0.7 1.1 1.1 3 5.3 8.8 10.6 5.5 7.0 13 1.10 1.6 5 7.0 4 7.0 4.8.4 1.1 2.2 1.1 1.10 1.3 1.10 1.4 - 7.0 4.8.4 1.1 2.2 1.1 2.2 1.1 2.6.7 2.2 2.6.7 2.12 0.0170 8.8 23.5 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 9.4.2 10. 10.7 1.1 64.5 11. 0.0702 0.01 34.4 6.5 | 85 3 - 3 11 3 03 3 45 3 75 3 112 3 - - 21 7 72 7 42 7 30 7 17 7 .8 18 145 18 2 17 | $\begin{array}{c ccccc} 7.3 & 8.1 \\ - & > 150 \\ 0.5 & 0.6 \\ 0.9 & 1.0 \\ 4.4 & 4.8 \\ 10.13 & 13.9 \\ 5.83 & 7.4 \\ 1.06 & 1.14 \\ - & 0.3 \\ 36.4 & 47.0 \\ 14.0 & 18.8 \\ 1.6 & 2.1 \\ 1.6 & 2.1 \\ 1.6 & 2.5 \\ 9.7.2 & 8.5 \\ \hline 10.3 & 25.9 \\ 0.000 & 0.018 \\ 7.6 & 28.5 \\ \end{array}$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0503 28.8 60.5 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
1. Harman, W.A., G.D. Jeming, J.M. Paterson, D. & Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Gan
UT3
Parameter
Dimension and Substrate - Riffle
Diffle Mean Depth (fl)
BF Mean Depth (fl)
BF Axa Depth (fl)
BF Cross-sectional Area (fl [*])
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (fl/fl)
Meander Wavelength (fl)
Meander Wavelength (fl)
Riffle Length (fl)
Riffle Length (fl)
Riffle Length (fl) | USGS
Gauge | Regional Curve Interval ¹² R Curve Interval ¹² NC Min /NC Pied. Rural 9.8 5.5 - - - - - 0.6 0.8 - - - - - - -
 | Min 3.7 3.7 7.7 1.05 1.7 1.05 2.4 1.10 - 44 1.1 1.2.5 49 40 - - - - - - - - - - - 0.0052 -
 | Pre
Mean
-
-
-
-
-
-
- | Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.93 - - 5.93 - - 5 - - 9.1 - - 9.2 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 7.2 - - 12.8 - - 12.8 - - 0.0305 - | n Min
2 01
- 15.0
- 15.0
- 1.0
- 5.5
- 7.3

 | A Conference Proceedin Mor Mor<

 | g, D.I. Kane, editor. American Water | Min Mea - 8.0 - 8.0 - 0.10 - - - 0.0 - - - 0.0 - - - - 1.0 - -
 | Design n Med - - | Max SD

 | n Min Measure - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 3.6.4 47.0 - 1.4.0 18.3 - 1.6.6 2.1 - 3.6.4 47.0 - 1.4.0 18.3 - 1.6.5 7.4 - 7.2 8.5 - - 1.3.1 2.1 - 0.0 0.0 0.0 | n Med Mr 8.2 10. - 0.8 00 - - 0.8 00 1.1 1. 6.5 7. - - 1.0.3 15. 8.5 9.9 1 1.10 1.2 - 1 4.8.4 57. 19.4 25. 2.2 2.2 2.2 2.2 2.2 7.1.7 94. 20.6 28. 0.0 0.0 20.6 28. 0.0 0.0 0.0 1.2 2.5.8 33.4 47.7 60.
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
 | $\begin{array}{c ccccc} 7.2 & 8 & 8 \\ \hline & & >1 \\ 0.5 & 0 \\ 1.1 & 1 \\ 4.7 & 5 \\ 9.7 & 1.5 \\ 9.7 & 1.5 \\ 9.7 & 1.0 \\ 1.0 & 1 \\ - & 10 \\ \hline \\ \hline & & & & & \\ 36.4 & 4^{\prime} \\ 14.0 & 18 \\ 1.6 & 2 \\ 63.5 & 7.2 & 8 \\ \hline \\ \hline & & & & \\ 11.4 & 22 \\ 0.0069 & 0.0 \\ 13.5 & 22.6 & 5 \\ \hline \end{array}$ | Med 1.1 7.8 50 - 7.7 0.7 1.1 1.1 3.3 5.3 8.8 10.6 5.5 7.0 13 1.10 14.4 - 15.5 7.0 13 1.10 14.4 - 10.48.4 - 11.1 2.2 19.7 71.7 5.5 8.1 2.2 26.7 2.12 0.0170 | Max SI 9.2 0.8 9.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 2.9 0.4 94.2 10. 10.7 1.1 64.5 11. 0.0702 0.01 34.4 6.2 94.5 15. | 85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 742 7 300 7 117 7 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 2.8 10.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jeming, J.M. Paterson, B.R. Clinton,
2 Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
Diffle Mean Depth (fl)
BF Mean Depth (fl)
BF Mean Depth (fl)
BF Cross-sectional Area (ff)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Height Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (fl/fl)
Meander Wavelength (fl)
Meander Width Ratio
Frofile
Riffle Length (fl)
Pool Spacing (fl)
Pool Spacing (fl) | USGS
Gauge | Action Jummers Description Jummers Description Jummers
 | Min 3.7 7.7 1.05 1.7 5.56 2.4 1.0 - - 44 11 2.5 - 40 - - <td>Pre
Mean
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-
-
-
-
-
-</td> <td>gional Curves for North Carolina Mount Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.93 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 1.2.8 - - 12.8 - - 12.8 - - 0.0305 - - 6.5 - - 1440 -</td> <td>n Min
2 01
- 15.0
- 0.70
- 1.0
- 1.0
- 1.0
- 1.0
- 7.3

-</td> <td>A Conference Proceedin Mor Mor<</td> <td>g, D.I. Kane, editor. American Water Max SD n 0.1 0.1 - 19.0 - - 0.90 1.4 - 6.5 - 11.7 - 3 - - -</td> <td>Min Mea - 8.0 - 8.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - - 1.0 - -</td> <td>Design n Med - -</td> <td>Max SD

</td> <td>n Min Measurement - 8.1 8.8 - >15 >17 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 14.0 18.1 - 63.5 74.4 - 7.2 8.5 - 13.1 21.1 - 0.0 0.0 -
 13.4 20.1 - 0.0 0.0</td> <td>n Med Mr 8.2 10 - 0.8 00 - 0.8 01 1.1 1. 6.5 7. 1.0.3 15. 8.8 9.9 1.1.1 1.0 1.1 1.0.3 15. 8.85 9.1 1.1.10 1.2 - 1 4.8.4 \$57. 1.9.4 25. 2.2 2.2 2. 2. 1.7.7 2.0.6 2.8. 0.0 0.0 2.2.6 2.8. 3.0.0 0.0 1.2.5.8 3.3.4 4.7.7 60.</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccc} 7.2 & 8 & 8 \\ \hline & & >1 \\ 0.5 & 0 \\ 1.1 & 1 \\ 4.7 & 5 \\ 9.7 & 1.5 \\ 9.7 & 1.5 \\ 9.7 & 1.0 \\ 1.0 & 1 \\ - & 10 \\ \hline \\ \hline & & & & & \\ 36.4 & 4^{\prime} \\ 14.0 & 18 \\ 1.6 & 2 \\ 63.5 & 7.2 & 8 \\ \hline \\ \hline & & & & \\ 11.4 & 22 \\ 0.0069 & 0.0 \\ 13.5 & 22.6 & 5 \\ \hline \end{array}$</td> <td>an Med 1 7.8 50 - 7 0.7 1.1 1.1 3.3 5.3 8.10.6 5 5.3 7.0 13 1.10 14.4 - 7.0 48.4 1.8 19.4 1.10 - 7.0 48.4 1.8 19.4 1.2 2.1 9.9 71.7 5 8.1 7.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5</td> <td>Max SI 9.2 0.8 9.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 2.9 0.4 94.2 10. 10.7 1.1 64.5 11. 0.0702 0.01 34.4 6.2 94.5 15.</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 742 7 300 7 117 7 </td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 2.8 10.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | Pre
Mean
-
-
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- | gional Curves for North Carolina Mount Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.93 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 1.2.8 - - 12.8 - - 12.8 - - 0.0305 - - 6.5 - - 1440 - | n Min
2 01
- 15.0
- 0.70
- 1.0
- 1.0
- 1.0
- 1.0
- 7.3

- | A Conference Proceedin Mor Mor<
 | g, D.I. Kane, editor. American Water Max SD n 0.1 0.1 - 19.0 - - 0.90 1.4 - 6.5 - 11.7 - 3 - - -
 | Min Mea - 8.0 - 8.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - - 1.0 - -
 | Design n Med - - | Max SD

 | n Min Measurement - 8.1 8.8 - >15 >17 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 14.0 18.1 - 63.5 74.4 - 7.2 8.5 - 13.1 21.1 - 0.0 0.0 - 13.4 20.1 - 0.0 0.0
 | n Med Mr 8.2 10 - 0.8 00 - 0.8 01 1.1 1. 6.5 7. 1.0.3 15. 8.8 9.9 1.1.1 1.0 1.1 1.0.3 15. 8.85 9.1 1.1.10 1.2 - 1 4.8.4 \$57. 1.9.4 25. 2.2 2.2 2. 2. 1.7.7 2.0.6 2.8. 0.0 0.0 2.2.6 2.8. 3.0.0 0.0 1.2.5.8 3.3.4 4.7.7 60.
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccc} 7.2 & 8 & 8 \\ \hline & & >1 \\ 0.5 & 0 \\ 1.1 & 1 \\ 4.7 & 5 \\ 9.7 & 1.5 \\ 9.7 & 1.5 \\ 9.7 & 1.0 \\ 1.0 & 1 \\ - & 10 \\ \hline \\ \hline & & & & & \\ 36.4 & 4^{\prime} \\ 14.0 & 18 \\ 1.6 & 2 \\ 63.5 & 7.2 & 8 \\ \hline \\ \hline & & & & \\ 11.4 & 22 \\ 0.0069 & 0.0 \\ 13.5 & 22.6 & 5 \\ \hline \end{array}$ | an Med 1 7.8 50 - 7 0.7 1.1 1.1 3.3 5.3 8.10.6 5 5.3 7.0 13 1.10 14.4 - 7.0 48.4 1.8 19.4 1.10 - 7.0 48.4 1.8 19.4 1.2 2.1 9.9 71.7 5 8.1 7.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5
 | Max SI 9.2 0.8 9.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 2.9 0.4 94.2 10. 10.7 1.1 64.5 11. 0.0702 0.01 34.4 6.2 94.5 15. | 85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 742 7 300 7 117 7 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 2.8 10.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
Biological or Other
Linnan, W.A., O.D. Jenning, J.M. Paterson, D.R. Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Cross-sectional Area (ft [*])
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bankfull width (ftf)
Meander Wavelength (ft)
Profile
Riffle Length (ft)
Pool Volume (ft ³)
Substrate and Transport Parameters | USGS
Gauge | Action Jummers Description Jummers Description Jummers
 | Min
 | Pre
Mean
-
-
-
-
-
-
- | gional Curves for North Carolina Mount Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.93 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 1.2.8 - - 12.8 - - 12.8 - - 0.0305 - - 6.5 - - 1440 - | n Min
2 0.1
15.0
- 15.0
- 0.70
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- 1.9

- 45
- 6.4
-
- 0.0130
- 1.74
- 1.8 | A Conference Proceedin Mor Mor<
 | g, D.I. Kane, editor. American Water Max SD n 0.1 0.1 - 19.0 - - 0.90 1.4 - 6.5 - 11.7 - 3 - -
- - - - - - - - - - - - - - - - - | Min Mea - 8.0 - 8.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - - 1.0 - -
 | Design n Med - - | Max SD

 | n Min Measurement - 8.1 8.8 - >15 >17 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 14.0 18.1 - 63.5 74.4 - 7.2 8.5 - 13.1 21.1 - 0.0 0.0 - 13.4 20.1 - 0.0 0.0
 | n Mcd Mrz 8.2 10.0 1 - 0.8 00.1 1.1 1.4 6.5 7.7 1.0 1.2 1.1 1.0 1.5 8.5 9.4 1.10 1.2 - 0 48.4 9.7 1.10 1.2 - 0 48.4 9.7 1.10 1.2 - 1.1 1.1 1.1 1.2 1.1.10 1.2 1.1.2 - 1.2 - 1.4.4 57 1.10 1.2 1.17 94 8.1 10 2.0 0.0 0.0 0.0 1.2 2.8 2.3 3.3 47.7 60 2.0 2.2
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccc} 7.2 & 8 & 8 \\ \hline & & >1 \\ 0.5 & 0 \\ 1.1 & 1 \\ 4.7 & 5 \\ 9.7 & 1.5 \\ 9.7 & 1.5 \\ 9.7 & 1.0 \\ 1.0 & 1 \\ - & 10 \\ \hline \\ \hline & & & & & \\ 36.4 & 4^{\prime} \\ 14.0 & 18 \\ 1.6 & 2 \\ 63.5 & 7.2 & 8 \\ \hline \\ \hline & & & & \\ 11.4 & 22 \\ 0.0069 & 0.0 \\ 13.5 & 22.6 & 5 \\ \hline \end{array}$ | an Med 1 7.8 50 - 7 0.7 1.1 1.1 3.3 5.3 8.10.6 5 5.3 7.0 13 1.10 14.4 - 7.0 48.4 1.8 19.4
 1.10 - 7.0 48.4 1.8 19.4 1.2 2.1 9.9 71.7 5 8.1 7.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5 | Max SI 9.2 0.8 9.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 2.9 0.4 94.2 10. 10.7 1.1 64.5 11. 0.0702 0.01 34.4 6.2 94.5 15. | 85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 742 7 300 7 117 7 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 2.8 10.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
1 Iharman, W.A., G.D. Jenning, J.M. Patreson, D.R. Clanton,
2 Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
Floodprone Width (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Cross-sectional Area (ff)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (ft)
Radius of Curvature (ft)
Reankfull width (fth)
Meander Width Ratio
Profile
Riffle Length (ft)
Riffle Length (ft)
Pool Length (ft)
Pool Spacing (ft)
Pool Max Depth (ft)
Pool Volume (ft ³)
Pool Volume (ft ³)
Pool Volume (ft ³) | USGS
Gauge | Action Jummers Description Jummers Description Jummers
 | Min 3.7 7.7 1.7 1.05 1.7 2.1 1.0 2.1 1.0 1.0 1.0 2.1 1.0 0.052 2.4 0.052 2.4 1.0 1.0 - -
 | Pre
Mean
-
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- | gional Curves for North Carolina Mountain SD Med Max SD - 5.3 - - 48.0 - - 15.7 - - 15.7 - - 2.0 - - 5 - - 9.1 - - 2.4 - - 9.1 - - 3.0 - - 7.2 - - 12.8 - - 0.0305 - - 140 - - 1.48 - - - - | n Min
2 0.1
15.0
- 15.0
- 15.0
- 1.0
- 5.5
- 7.3
- 1.9

- | Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td> <td>Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 7.0 - 7.0 - 1.0 - 7.0 - 1.1 - 1.1 - 1.1 - 1.0 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - - - - - -</td> <td>Desig</td> <td>Max SD

</td> <td>n Min Measure - 8.1 8.8 - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 1.60 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 1.6 2.1 - 1.6 2.1 - 1.3 1.2 - 0.0 0.0 - 1.84 26.0 - - - - - - - - - - - - - -</td> <td>n Med Mr 8.2 10.0 - 0.8 00 - 0.8 00 1.1 1.6 6.5 7.7 5 1.6 1.0 1.1 1.6 5.7 1.0.3 1.5 8.5 9.9 1 1.10 1.2 - 1 4.8.4 57. 1.94 22.5 1.7.7 9.4 8.1
10.0 1.0 20.6 2.8 0.0 0.0 0.0 2.0.6 2.8 3.0 47.7 60.2 2.0 2.0 2.0 2.0 2.0 - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med Mi
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0 1.20 1.
4
0 48.4 57
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2.2 2.
9 71.7 94
8.1 10
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2.61 39
2 48.6 95
1.7 1.
</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med 1 7.8 50 - 7 0.7 1.1 1.1 3.3 5.3 8.10.6 5 5.3 7.0 13 1.10 14.4 - 7.0 48.4 1.8 19.4 1.10 - 7.0 48.4 1.8 19.4 1.2 2.1 9.9 71.7 5 8.1 7.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5</td> <td>Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 9.42 10. 10.7 1.1 64.5 11. 0.0702 0.010 34.4 6.2 94.5 15. 1.7 0. - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 742 7 300 7 117 7 </td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 2.8 10.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 7.0 - 7.0 - 1.0 - 7.0 - 1.1 - 1.1 - 1.1 - 1.0 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - 1.1 - - - - - -
 | Desig | Max SD

 | n Min Measure - 8.1 8.8 - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 1.60 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 1.6 2.1 - 1.6 2.1 - 1.3 1.2 - 0.0 0.0 - 1.84 26.0 - - - - - - - - -
 - - - - - | n Med Mr 8.2 10.0 - 0.8 00 - 0.8 00 1.1 1.6 6.5 7.7 5 1.6 1.0 1.1 1.6 5.7 1.0.3 1.5 8.5 9.9 1 1.10 1.2 - 1 4.8.4 57. 1.94 22.5 1.7.7 9.4 8.1 10.0 1.0 20.6 2.8 0.0 0.0 0.0 2.0.6 2.8 3.0 47.7 60.2 2.0 2.0 2.0 2.0 2.0 - - - - -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mi
7.8 88
0
0.7 0.
1.11 1.
5.3 5.
8 10.6 144
7.0 9.
0 1.20 1.
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0 48.4 57
8 19.4 25
2.2 2.
9 71.7 94
8.1 10
3 21.0 65
2.61 39
2 48.6 95
1.7 1.
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med 1 7.8 50 - 7 0.7 1.1
 1.1 3.3 5.3 8.10.6 5 5.3 7.0 13 1.10 14.4 - 7.0 48.4 1.8 19.4 1.10 - 7.0 48.4 1.8 19.4 1.2 2.1 9.9 71.7 5 8.1 7.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5 | Max SI 9.2 0.8 - - 0.7 0.1 1.1 0.0 5.8 0.4 18.05 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 25.1 3.7 9.42 10. 10.7 1.1 64.5 11. 0.0702 0.010 34.4 6.2 94.5 15. 1.7 0. - - | 85 3 - 3 11 3 03 3 45 3 75 3 12 3 - - 21 7 72 7 742 7 300 7 117 7 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 2.8 10.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 2.8.8 60.5 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
I. Harman, W.A., G.D. Jenning, M. Paterson, D. & Clinton,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Max Depth (ft)
BF Arax Depth (ft)
BF Cross-sectional Area (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft)
BF Max Depth (ft)
BF Cross-sectional Area (ft)
BF Arax Depth (ft)
BF Cross-sectional Area (ft)
Br Arax Depth (ft)
Br Arax Depth (ft)
ReiBankfull width (ft/ft)
Meander Wavelength (ft)
ReiBankfull width (ft/ft)
Pool Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Volume (ft ¹)
Substrate and Transport Parameters
RPs/, Rw's / P% (Fd/s / S%
SC% / Sa% (Fd% / S% / Sd% / dd% / dd5 | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 12 NC Mrn /NC Pied. Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 6.4 6.3 - - 6.4 6.3 - -
 | Min 3.7 7.7 1.7 7.7 1.7 5.56 2.4 1.1 2.1 1.0 2.1 1.0 2.1 1.0 2.1 1.0 2.1 1.0 2.1 1.0 0.0052 2.2 44 1.8 - - - - -
 | Bankfall R Pree Pre P | gional Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 15.7 - - 15.7 - - 5.9.3 - - 5 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 1.2 - - 1.2 - - 1.2 - - 1.2.8 - - 1.2.8 - - 0.030 - - 1.40 - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
15.0
- 15.0
- 15.0
- 1.0
- 5.5
- 7.3
- 1.9

- | Referem Mon Mean Med - - - - -
 | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 7.0 - 7.0 - 1.0 - 7.0 - 1.3 - 1.3 - 1.3 - 1.3 - 1.3 - 1.3 - 1.8 - - - 0.0160 - 0.0160 - 0.0160 - - - 1.6 - - - - - -
 | Design n Med - - <tr tr=""> - -</tr> | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.4.0 18.1 - 6.3.5 7.4 - 1.6 2.1 - 1.3.1 21. - 0.0 0.0 - 1.8.4 26.2 - - - - - - - -
 - - - - | n Med Mrz
8.2 10.
0.8 00.
1.1 1.
6.5 7.
1.6 5.
8.5 9.
1.1.0 1.2
1.3 48.4 57.
1.1 0 1.2
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1.5 2
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mit 0 - - - 0 - - - 0 - - - 0 - 1.1 1.1 1 5.3 5.3 5.1 8 10.6 144 - 7 0 9.0 1.20 1.1 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 - - - 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 0.0 0.0 0.0 0 0 6 2.6.1 33 2 4.8.6 95 2 - - - - - <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med
1 7.8
50 -
7 0.7
1 1.1
3 5.3
8 10.6
5 7.0
13 1.10
6 5 7.0
13 1.10
14 4 -
7 0
4 8.4
1 2.2
9 71.7
5 8.1
7.2
2.2 6.7
8 1.0
7.2
2.2 6.7
1.2
2.2
0.0
7.0
1.4
2.2
0.0
7.0
1.4
1.4
-
-
-
-
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-
-
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-
-</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.17 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 2.8.8 60.5 4.8 86.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></td> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med
1 7.8
50 -
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8 10.6
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6 5 7.0
13 1.10
14 4 -
7 0
4 8.4
1 2.2
9 71.7
5 8.1
7.2
2.2 6.7
8 1.0
7.2
2.2 6.7
1.2
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0.0
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0.0
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-
-
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- | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7
 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.17 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 2.8.8 60.5 4.8 86.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
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| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
2 Harman, W.A., G.D. Jenning, J.M. Pattersm, D.R. Clanton,
2 Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (B)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Cross-sectional Area (ft?)
Width/Depth Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (ft/ft)
Meander Wavelength (ft)
Rediankfull width (ft/ft)
Meander Wavelength (ft)
Bensfull width (ft/ft)
Meander Wavelength (ft)
Pool Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Length (ft)
Substrate and Transport Parameters
Rt?6/ (Ru% / P% (G% / S% / S% | USGS
Gauge | Arrow G.D. Jerning, D.R. Clinton, J.M. Regional Curve Interval 1.3 NC Mm./NC Pied. Rural 9.8 5.5 - 9.8 5.5 - - 0.6 0.8 - - 0.6 0.8 - - 6.4 6.3 - - 6.4 6.3 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td< td=""><td>Min 3.7 7.7 1.7 1.05 1.7 2.1 1.0 2.1 1.0 1.0 1.0 2.1 1.0 0.052 2.4 0.052 2.4 1.0 1.0 - -</td><td>Bankfall R Pree Pre P</td><td>Answer Answer Answer Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.93 - - 5.93 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 1.2.8 - - 12.8 - - 12.8 - - 12.8 - - 1.8 - - 1.8 - - 1.8 - - - -</td><td>n Min
2 0.1
15.0
- 15.0
- 15.0
- 1.0
- 5.5
- 7.3
- 1.9

-</td><td>Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td><td>Min Mea - 8.0 - 8.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 1.0 - - - 1.0 - - - 1.0 - - - 1.3 - - - 1.3 - - - 1.3 - - - 1.3 - - - - - - - - - - - - - - - - - - - - - - - -</td><td>Design n Med - - <tr tr=""> - -</tr></td><td>Max SD - -</td><td>n Min Measure - 8.1 8.8 - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 1.60 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 1.6 2.1 - 1.6 2.1 - 1.3 1.2 - 0.0 0.0 - 1.84 26.0 - - - - - - - - - - - - - -</td><td>n Med Mrz
8.2 10.
0.8 00.
1.1 1.
6.5 7.
1.1 1.
6.5 7.
1.1 0.
1.2 1.
1.3 8.5 9.
1.1.10 1.2 1.
1.3 8.5 9.
1.1.10 1.2 1.
1.4 8.4 57.
1.9.4 25.
1.9.4 25.
2.2 2.
2.1.7 94
8.1 10.
2.0 6 28.
3.3 47.7 60.
2.0 2.
2.2 2.
2.1.7 94
2.5 8 33.
4.7.7 60.
2.0 2.
2.2 /td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>m Med M, M 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 4 - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 8 10.0 65 0 0.0 0. 6 2.2.1 8 1.7 1. 1. 1.7 1. 1. 1.7 1. 1. - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - -</td><td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2
 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td><td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.1.2 2.1 9.1.7 94.2 8.1 10.7 22.8.8 60.5 24.8.4 86.2 0.8 1.6 - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></td></td<> | Min 3.7 7.7 1.7 1.05 1.7 2.1 1.0 2.1 1.0 1.0 1.0 2.1 1.0 0.052 2.4 0.052 2.4 1.0 1.0 - -
 | Bankfall R Pree Pre P | Answer Answer Answer Med Max SD - 5.3 - - 48.0 - - 1.57 - - 5.93 - - 5.93 - - 5.93 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 9.1 - - 1.2.8 - - 12.8 - - 12.8 - - 12.8 - - 1.8 - - 1.8 - - 1.8 - - - - | n Min
2 0.1
15.0
- 15.0
- 15.0
- 1.0
- 5.5
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- 1.9

- | Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td> <td>Min Mea - 8.0 - 8.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 1.0 - - - 1.0 - - - 1.0 - - - 1.3 - - - 1.3 - - - 1.3 - - - 1.3 - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>Design n Med - - <tr tr=""> - -</tr></td> <td>Max SD - -</td> <td>n Min Measure - 8.1 8.8 - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 1.60 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 1.6 2.1 - 1.6 2.1 - 1.3 1.2 - 0.0 0.0 - 1.84 26.0 - - - - - - - - - - - - - -</td> <td>n Med Mrz
8.2 10.
0.8 00.
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1.1 1.
6.5 7.
1.1 0.
1.2 1.
1.3 8.5 9.
1.1.10 1.2 1.
1.3 8.5 9.
1.1.10 1.2 1.
1.4 8.4 57.
1.9.4 25.
1.9.4 25.
2.2 2.
2.1.7 94
8.1 10.
2.0 6 28.
3.3 47.7 60.
2.0 2.
2.2 2.
2.1.7 94
2.5 8 33.
4.7.7 60.
2.0 2.
2.2 /td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med M, M 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 4 - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 8 10.0 65 0 0.0 0. 6 2.2.1 8 1.7 1. 1. 1.7 1. 1. 1.7 1. 1. - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.1.2 2.1 9.1.7 94.2 8.1 10.7 22.8.8 60.5 24.8.4 86.2 0.8 1.6 - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td>
 | g, D.I. Kane, editor. American Water | Min Mea - 8.0 - 8.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 1.0 - - - 1.0 - - - 1.0 - - - 1.3 - - - 1.3 - - - 1.3 - - - 1.3 - - - - - - - - - - - - - - - - - - - - - - - -
 | Design n Med - - <tr tr=""> - -</tr> | Max SD - -
 | n Min Measure - 8.1 8.8 - 8.1 8.8 - >15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.10 - 36.4 47.0 - 1.60 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 1.6 2.1 - 1.6 2.1 - 1.3 1.2 - 0.0 0.0 - 1.84 26.0 - - - - - - - - - - - - - - | n Med Mrz
8.2 10.
0.8 00.
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1.1 1.
6.5 7.
1.1 0.
1.2 1.
1.3 8.5 9.
1.1.10 1.2 1.
1.3 8.5 9.
1.1.10 1.2 1.
1.4 8.4 57.
1.9.4 25.
1.9.4 25.
2.2 2.
2.1.7 94
8.1 10.
2.0 6 28.
3.3 47.7 60.
2.0 2.
2.2 2.
2.1.7 94
2.5 8 33.
4.7.7 60.
2.0 2.
2.2
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med M, M 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 4 - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 8 10.0 65 0 0.0 0. 6 2.2.1 8 1.7 1. 1. 1.7 1. 1. 1.7 1. 1. - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - -
 | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.1.2 2.1 9.1.7 94.2 8.1 10.7 22.8.8 60.5 24.8.4 86.2 0.8 1.6 - - - - - - - - - - - - - - | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
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| Chamel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jenning, J.M. Patteson, D.R. Clatton,
2 Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
Floodprone Width (ft)
BF Mean Depth (ft)
BF Cross-sectional Area (ft)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (rmm)
Pattern
Channel Beltwidth (ft/ft)
Realbank Height Ratio
d50 (rmm)
Pattern
Channel Beltwidth (ft/ft)
Meander Wavelength (ft)
Riffle Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Spacing (ft)
Pool Max Depth (ft)
Bubstrate and Transport Parameters
R56/ Kro% / S6% / S6%
SC% / S4% / G% / B% / B%
Reach Shear Stress (competency) bf7
Max part size (mm) mobilized at bankfull
(Rosgen Curve) | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 12 NC Mrn /NC Pied. Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 6.4 6.3 - - 6.4 6.3 - -
 | Min 3.7 3.7 7.7 1.07 5.56 2.1 1.0 1.0
 | Bankfall R Pree Pre P | American Sector American Sector Med Max SD - 5.3 - - 48.0 - - 1.57 - - 2.0 - - 5.93 - - 5.93 - - 2.4 - - 9.1 - - 2.4 - - 9.4 - - 9.4 - - 9.4 - - 9.4 - - 7.2 - - 12.8 - - 6.5 - - 14.0 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
15.0
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3
- 7.3

- | A Conference Proceedin
Mean Med
 | g, D.I. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 - 19.0 -
19.0 - 19.0 - | Min Mea - 8.0 - 8.0 - 0.8 1.0 - - 6.0 - 8.9 1.0 - - 6.0 - 8.9 - 1.0 - 1.0 - 1.0 - 1.0 - 1.1 -
 | Design n Med - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.4.0 18.1 - 6.3.5 7.4 - 1.6 2.1 - 1.3.1 21. - 0.0 0.0 - 1.8.4 26.2 - - - - - - - - - - - -
 | n Med Mrz
8.2 10.0
1
0.8 00.
1.1 1 1.
6.5 7.
10.3 15
8.5 9.
1.1.0 1.2
1
1 -
1 48.4 57
1 19.4 25
2.2 2.
19.4 25
2.2 2.
2.2 2.
2.1 9.4 25
2.2 2.
2.2 2.
2.2 2.
2.1 9.4 25
2.2 2.
2.2 2.2
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mit 0 - - - 0 - - - 0 - - - 0 - 1.1 1.1 1 5.3 5.3 5.1 8 10.6 144 - 7 0 9.0 1.20 1.1 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 - - - 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 0.0 0.0 0.0 0 0 6 2.6.1 33 2 4.8.6 95 2 - - - - - <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0503 28.8 60.5 - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c
ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0503 28.8 60.5 - - - - - - - - - - - - - - - - | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
Sological or Other
I. Harman, W.A., O.D. Jenning, J.M. Paterson, D.R. Clinton,
2. Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Cross-sectional Area (R ⁺)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Bank Bank Bank Bank Bank Bank Bank | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 12 NC Mrn /NC Pied. Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 6.4 6.3 - - 6.4 6.3 - -
 | Min 3.7 7.7 1.7 7.7 1.7 5.56 2.4 1.1 2.1 1.0 2.1 1.0 2.1 1.0 2.1 1.0 2.1 1.0 2.1 1.0 0.0052 2.2 44 1.8 - - - - -
 | Bankfall R Pree Pre P | gional Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 15.7 - - 15.7 - - 5.9.3 - - 5 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 1.2 - - 1.2 - - 1.2 - - 1.2.8 - - 1.2.8 - - 0.030 - - 1.40 - - - - - - - - - - - - - - - - - - - - | n Min
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- 15.0
- 15.0
- 1.0
- 5.5
- 7.3
- 1.9

- | A Conference Proceedin
Mean Med
 | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 7.0 - 7.0 - 1.0 - 7.0 - 1.3 - 1.3 - 1.3 - 1.3 - 1.3 - 1.3 - 1.8 - - - 0.0160 - 0.0160 - 0.0160 - - - 1.6 - - - - - - | Design n
 Med - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.00 1.1(- 5.4 7.8 - 1.4.0 18.1 - 6.3.5 7.4 - 1.6 2.1 - 1.3.1 21. - 0.0 0.0 - 1.8.4 26.2 - - - - - - - - - - - -
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 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mit 0 - - - 0 - - - 0 - - - 0 - 1.1 1.1 1 5.3 5.3 5.1 8 10.6 144 - 7 0 9.0 1.20 1.1 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 - - - 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 0.0 0.0 0.0 0 0 6 2.6.1 33 2 4.8.6 95 2 - - - - - <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.17 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 2.8.8 60.5 4.8 86.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></td> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 1.3 1.10 13 1.10 13 1.22 9.9 71.7 5 8.1 2 26.7 212 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.17 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 2.8.8 60.5 4.8 86.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
1 : Harman, W.A., G.D. Jennings, J.M. Patteson, D.R. Clinton,
2 : Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
BF Mean Depth (ft)
BF Cross-sectional Area (ft)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (rmn)
Pattern
Channel Beltwidth (ft/ft)
Radius of Curvature (ft)
RealBankfull width (ft/ft)
Meander Wavelength (ft)
Riffle Length (ft)
Riffle Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Max Depth (ft)
Pool Volume (ft ²)
Substrate and Transport Parameters
R4% / Re% / PS% / CS% / S%
SC% / Sa% / G% / B% / B%
Reach Shear Stress (competency) Ibf
Max part size (um) mobilized at bankfull
(Rosgen Curve) | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 12 NC Mrn /NC Pied. Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 6.4 6.3 - - 6.4 6.3 - -
 | Min 3.7 7.7 1.7 5.56 2.1 1.5 1.7 1.5 0.0052 25 1.8 - 0.055 2.5 0.14
 | Bankfull R Pre Mean - | American Sector American Sector Med Max SD - 5.3 - - 48.0 - - 1.57 - - 2.0 - - 5.93 - - 5.93 - - 2.4 - - 9.1 - - 2.4 - - 9.4 - - 9.4 - - 9.4 - - 9.4 - - 7.2 - - 12.8 - - 6.5 - - 14.0 - - - - - - - - - - - - - - - - - - - - - - | n Min
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- 0.70
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- | A Conference Proceedin
Mean Med

 | g, D.I. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 - 19.0 - | Min Mea - 8.0 - 8.0 - 8.0 - 0.8 1.0 - - 6.0 - 8.0 - 7 - - 1.0 - - - 1.0 - - - 1.10 - - </td <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Measurement - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 3.6.4 47.0 - 1.60 1.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.3 7.4 - 1.3.1 2.1: - 0.0 0.0 - 1.8.4 26.0 - - - - - - - - - - - - - -</td> <td>n Med Mr 8.2 10. - 0.8 00 - 0.8 01 1.1 1. 6.5 7. 1.1 1. 6.5 7. 1.1 1. 1.1 1.1 1. 1. 6.5 7. 1.1 1. 1.1 10.3 15. 8.5 9.1 1.10 1.2 - 1 4.8.4 57. 19.4 25. 2.2 2. 2. 2. 2. 7.1.7 94. 94. 90.0 0.0 20.6 2.8 0.0 0.0 1. 2.0 2.0 2. 2. - - - - - - - - - - - - - - - - - - - - - -<</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med Mit 0 - - - 0 - - - 0 - - - 0 - 1.1 1.1 1 5.3 5.3 5.1 8 10.6 144 - 7 0 9.0 1.20 1.1 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 - - - 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 0.0 0.0 0.0 0 0 6 2.6.1 33 2 4.8.6 95 2 - - - - - <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>an Med 1 7.8 50 - 7 0.7 1 1.1
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 | n Min Measurement - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 3.6.4 47.0 - 1.60 1.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.3 7.4 - 1.3.1 2.1: - 0.0 0.0 - 1.8.4 26.0 - - - - - - - - - - - - - - | n Med Mr 8.2 10. - 0.8 00 - 0.8 01 1.1 1. 6.5 7. 1.1 1. 6.5 7. 1.1 1. 1.1 1.1 1. 1. 6.5 7. 1.1 1. 1.1 10.3 15. 8.5 9.1 1.10 1.2 - 1 4.8.4 57. 19.4 25. 2.2 2. 2. 2. 2. 7.1.7 94. 94. 90.0 0.0 20.6 2.8 0.0 0.0 1. 2.0 2.0 2. 2. - - - - - - - - - - - - - - - - - - - - - -<
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mit 0 - - - 0 - - - 0 - - - 0 - 1.1 1.1 1 5.3 5.3 5.1 8 10.6 144 - 7 0 9.0 1.20 1.1 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 - - - 0 0.48.4 57 8 19.4 2.2 9 7.1.7 94 - - - 0 0.0 0.0 0.0 0 0 6 2.6.1 33 2 4.8.6 95 2 - - - - - <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 8 10.6 5 7.0 13 1.10 14 1.11 15 7.0 16 1.10 17 0.6 18 10.6 5 7.0 18 10.2 19 71.7 5 8.1 2 26.7 212 0.0170 1.8 23.5 0.0 48.5 4 1.4 - - - - - - - - - - - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0503 28.8 60.5 - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | i 0.76 3 - - -
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| Channel Stability or Habitat Metric
Biological or Other
1. Harman, W.A., G.D. Jenning, J.M. Paterson, D.R. Clinton,
2. Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (H)
Floodprone Width (H)
BF Mean Depth (H)
BF Mean Depth (H)
BF Cross-sectional Area (H')
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (H)
Redankfull width (th/R)
Meander Wavelength (H)
Meander Wavelength (H)
Riffle Length (H)
Pool Spacing (H)
Pool Length (H)
Pool Spacing (H)
Pool Joseing (H)
Pool Max Depth (H)
Bool Spacing (H)
Pool Volume (H ²)
Substrate and Transport Parameters
Rt ⁰ / Ru ⁶ / G%/ G%/ S%
SC%/ Sd%/ G%/ G%/ S%
SC%/ Sd%/ G%/ G%/ S%
Reach Shear Stress (competency) Ibf/
Max parts ize (mm) mobilized at bankfull
(Rosgen Curvey
Stream Power (transport Capacity) W/m ²
Additional Reach Parameters
Drainage Area (SM) | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 13 NC Mrn /NC Pied, Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 0.6 0.8 - - 6.4 6.3 - -
 | Min 3.7 1.7 7.7 7.7 1.7 5.56 2.1 1.1 1.7 1.5 2.6 2.1 1.0 1.2 1.0 2.1 1.1 2.5 2.1 1.2 0.052 2.5 1.8 0.052 2.5 1.8 - - - 0.55 - 2.5 2.5 1.8 - - - - 0.55 - - 2.5 1.4 -
 | Bankfull R - - | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 5 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 0.72 - - 72 - - 0.0305 - - 1.12.8 - - 1.40 - - 1.40 - - - - - - - - - - - - - - - - - - - - - - | n Min
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- | Reference Mean Med - - <td>g, D.I. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 - 19.0 -
19.0 - 19.0 -</td> <td>Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 8.0 - 7.0 - 7.0 - 1.0 - 7.0 - 1.1 -</td> <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.00 1.1.1 - 5.4 7.8 - 1.00 1.1.1 - 5.4 7.8 - 1.00 1.1.1 - 5.4 7.8 - 3.1.7 - - 3.6.4 47.1 - 1.6 2.1 - 6.3.5 74.4 - 1.3.1 21.1 - 0.00 0.0 - 1.7 2.0 - 1.7 2.0 - - - - - - - - - - <</td> <td>n Med Mrz
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0</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med Mi
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1.0
6 2.0 1.0
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0.0 0.0</td> <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>am Med 1 7.8 50 - 7 0.7 1 1.1 3. 5.3 5 7.0 1.1 1.1 3. 5.3 5 7.0 1.3 1.10 1.3 1.10 1.3 1.10 1.3 1.10 1.3 1.10 1.4 - 0.0 48.4 1.2 2.6.7 2.12 0.0170 2.8 23.5 0.0 48.5 4 1.4 - - - - 0.4/11.5/16. - - - - - - - - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.17 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td> | g, D.I. Kane, editor. American Water ce Reach Data gan Creek Max SD n 0.1 - 19.0 -
19.0 - 19.0 - | Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 8.0 - 7.0 - 7.0 - 1.0 - 7.0 - 1.1 -
 | Design n Med - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 9.1 11.1 - 5.4 7.8 - 1.00 1.1.1 - 5.4 7.8 - 1.00 1.1.1 - 5.4 7.8 - 1.00 1.1.1 - 5.4 7.8 - 3.1.7 - - 3.6.4 47.1 - 1.6 2.1 - 6.3.5 74.4 - 1.3.1 21.1 - 0.00 0.0 - 1.7 2.0 - 1.7 2.0 - - - - - - - - - - <
 | n Med Mrz
8.2 10.0
0
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mi
7.8 8.8
0
0.7 0.0
1.1 1.1
5.5.3 5.
8 10.6 144
7 7.0 9.
0 1.20 1.1
8 10.4 4.57
8 19.4 2.5
2 2.2 2.5
9 71.7 944
8 1.1 0.0
1.0
6 2.0 1.0
0.0 0.0
0.0 0.0 | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | am Med 1 7.8 50 - 7 0.7 1 1.1 3. 5.3 5 7.0 1.1 1.1 3. 5.3 5 7.0 1.3 1.10 1.3 1.10 1.3 1.10 1.3 1.10 1.3 1.10 1.4 - 0.0 48.4 1.2 2.6.7 2.12 0.0170 2.8 23.5 0.0 48.5 4 1.4 - - - - 0.4/11.5/16. - - - - - - - - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.31 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 9.17 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
2 Harman, W.A., G.D. Jenning, J.M. Paterson, D.R. Clanton,
2 Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT.3
Parameter
Dimension and Substrate - Riffle
BF Width (B)
BF Mean Depth (R)
BF Cross-sectional Area (RP)
Width/Depth Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Bellwidth (R)
Re-BankKiull width (RR)
Meander Wavelength (R)
Meander Wavelength (R)
Pool Length (R)
Bobstrate and Transport Parameters
RP/s (Rw's (P%) (G%) (B%)
d16 / d35 / d30 / d34 / d35
Reach Shear Stress (competency) bl/F
Max part size (mm) mobilized at bankful
(Rosgen Curve)
Stream Power (transport capacity) W/m
Additonal Reach Parameters | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 13 NC Mrn /NC Pied. Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 0.6 0.8 - - 6.4 6.3 - - -
 | Min 3.7 3.7 7.7 1.07 1.5 2.4 1.1 1.7 1.5 2.4 2.1 1.0 1.0 2.4 2.1 1.0 1.0 0.05 1.0 0.055 1.0 - 1.0 0.14 - - -
 | Bankfull R Pre Mean - | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 5 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 0.1 - - 1.2.8 - - 0.305 - - 0.305 - - 1.12.8 - - 1.40 - - 1.40 - - - - - - - - - - - - - - - - - - - < | n Min
2 0.1
15.0
- 15.0
- 0.70
- 1.0
- 5.5
- 7.3
- 7.3

- | A Conference Proceedin Mean Mor Mon Mean - - - <

 | g, D.I. Kane, editor. American Water | Min Mea - 8.0 - 8.0 - 8.0 - 0.8 1.0 - - 6.0 - 8.0 - 7 - - 1.0 - - - 1.0 - - - 1.10 - - </td <td>Design n Med - - <tr tr=""> - -</tr></td> <td>Max SD - -</td> <td>n Min Measurement - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 3.6.4 47.0 - 1.60 1.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.3 7.4 - 1.3.1 2.1: - 0.0 0.0 - 1.8.4 26.0 - - - - - - - - - - - - - -</td> <td>n Med Mr 8.2 10. 8.2 10. 9 - - - 0.8 00 1.1 1. 6.5 7. 19.3 15. 8.5 9. 1.1 1.2 1 1.10 1.2 1.2 - - - - 1 4.8.4 57. 19.4 25.4 2.1 - - - - 2.0.6 2.8 33.4 9.0 0.0 1.22.0 2.2 2.2 - - 2.0.6 2.8 33.4 9.0 0.0 0.0.0 0.0 0.0 0.0 1.2 - - 2.0 2.0 2.2 - - - - 1.2.2 17.6/31.2/57 - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med M, M 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 4 - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 8 10.4 65 0 0.0 0. 6 2.6.1 39 2 48.6 695 1 1.7 1. - - - - - - - - - - - - - - - - - -</td> <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 8 10.6 5 7.0 13 1.10 14 1.11 15 7.0 16 1.10 17 0.6 18 10.6 5 7.0 18 10.2
 19 71.7 5 8.1 2 26.7 212 0.0170 1.8 23.5 0.0 48.5 4 1.4 - - - - - - - - - - - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.3.1 18.56 6.9 9.42 1.1.7 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.0133 0.0133 0.0505 2.8.8 60.5 4.8.1 862 0.8 1.6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> | Design n Med - - <tr tr=""> - -</tr> | Max SD - -
 | n Min Measurement - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 3.6.4 47.0 - 1.60 1.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.4 47.0 - 1.6.0 2.1 - 3.6.3 7.4 - 1.3.1 2.1: - 0.0 0.0 - 1.8.4 26.0 - - - - - - - - - - - - - - | n Med Mr 8.2 10. 8.2 10. 9 - - - 0.8 00 1.1 1. 6.5 7. 19.3 15. 8.5 9. 1.1 1.2 1 1.10 1.2 1.2 - - - - 1 4.8.4 57. 19.4 25.4 2.1 - - - - 2.0.6 2.8 33.4 9.0 0.0 1.22.0 2.2 2.2 - - 2.0.6 2.8 33.4 9.0 0.0 0.0.0 0.0 0.0 0.0 1.2 - - 2.0 2.0 2.2 - - - - 1.2.2 17.6/31.2/57 - - - - - - - - - - - -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med M, M 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 4 - - 0 4.8.4 57 8 19.4 2.5 9 7.1.7 94 8 10.4 65 0 0.0 0. 6 2.6.1 39 2 48.6 695 1 1.7 1. - - - - - - - - - - - - - - - - - - | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06
3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 8 10.6 5 7.0 13 1.10 14 1.11 15 7.0 16 1.10 17 0.6 18 10.6 5 7.0 18 10.2 19 71.7 5 8.1 2 26.7 212 0.0170 1.8 23.5 0.0 48.5 4 1.4 - - - - - - - - - - - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 1.3.1 18.56 6.9 9.42 1.1.7 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.0133 0.0133 0.0505 2.8.8 60.5 4.8.1 862 0.8 1.6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
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| Chamel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jenning, J.M. Patteson, D.R. Clanton,
2 Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT.3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
Floodprone Width (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Mean Depth (ft)
BF Ana Depth (ft)
BF Cross-sectional Area (ft)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (ft/ft)
RedBankfull width (ft/ft)
Meander Wavelength (ft)
Riffle Length (ft)
Riffle Length (ft)
Pool Length (ft)
Pool Length (ft)
Pool Max Depth (ft)
Pool Max Depth (ft)
Bobstrate and Transport Parameters
Ry6/ Ry6/ 1986/ Cy6/ S%
SC%/ Sa%/ G%/ S9%/ Cy6/ S9%
SC%/ Sa%/ G%/ S9%/ Cy6/ S9%
SC%/ Sa%/ G%/ S9%/ Cy6/ S9%
Reach Shear Stress (competency) Ib/T
Max part size (mm) mobilized at bankfull
(Rosgen Curve)
Stream Power (transport equacity) W/rri
Additional Reach Parameters | USGS
Gauge | Arrow G.D. Jeming, D.R. Clinton, J.M. Regional Curve Interval 13 NC Mrn /NC Pied. Rural 9.8 9.8 5.5 - - 0.6 0.8 - - 0.6 0.8 - - 6.4 6.3 - - -
 | Min 3.7 3.7 1.7 1.7
 | Prevention 1 | gional Curves for North Carolina Mean Med Max SD - 5.3 - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
- 1.0
- 7.3
- 1.9

- | A Conference Proceedin Mean Mor Mon Mean - - - <

 | g, D.I. Kane, editor. American Water | Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 7.0 1.0 - - 7.0 - 1.0 - 7.0 - 1.0 - 7.0 - 1.1 -
 | Design n Med - - <tr td=""> <tr td=""> -</tr></tr> | Max SD - -
 | n Min Mea - 8.1 8.8 - >>15 - 0.7 0.8 - 1.1 12 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 6.3 6.7 - 1.00 1.11 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 36.4 47.7 - 1.6 2.1 - 6.3 7.43 - 6.3 7.44 - 36.3 49.0 - 1.7 2.0 - 1.84 2.64 - 3.6.3 49.0 - 1.7 2.0 - - - - 0.2 | n Med Mr 8.2 10.0 - 0.8 00.1 - 0.8 00.1 - 0.8 00.1 1.1 6.5 7. - 1.1 1.1 1.1 6.5 7. - 1.03 1.1 1.2 1.1 10.3 1.2 1.1 1.2 - 1.1 10.3 1.2 1.1 1.2 - 1.1 10.3 1.2 1.1 1.2 - 1.1 10.3 1.2 1.1 1.2 - 1.1 1.4 4.4 1.1 1.1 1.2 7.1.7 94. 8.1 0.0 0.0 0.0 1.2 2.2 1.2 1.2 2.17.6/3.1 2.45 1.2 - - - - - - <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med Mi
7.8 88
0
0.7 80
1.11 1
5.3 5.
8 10.6 14
7.0 9,
0 1.20 11.
1.20 /td> <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - -
- - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mi
7.8 88
0
0.7 80
1.11 1
5.3 5.
8 10.6 14
7.0 9,
0 1.20 11.
1.20 | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
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| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
1 Harman, W.A., O.D. Jenning, J.M. Paterson, D.R. Clanton,
2 Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (B)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Cross-sectional Area (RF)
Width/Depth Ratio
Entrenchment Ratio
ds10 (mm)
Pattern
Channel Beltwidth (R)
Meander Wavelength (R)
Realsmkfull width (Rft)
Meander Wavelength (R)
Pool Spacing (R)
Pool Spacing (R)
Pool Length (R)
Pool Length (R)
Pool Length (R)
Bobstrate and Transport Parameters
RR% (Rw% / P% (G% / S%
SC% / S&/ (G% / B8% (G% / B8%
d16 / d35 / d50 / d84 / d55
Reach Shear Stress (competency) bl/F
Max part size (mm) mobilized at bankful
(Rosgen Carve)
Stream Power (transport capacity) W/m ⁷
Additional Reach Parameters
Drainage Area (SM)
Impervious cover estimate (%)
Rosgen Carse)
BF Discharge (fs)
BF Discharge (fs)
BF Discharge (fs)
Valley Length | USGS
Gauge | Action Jumments Description Jumment Learning
 | Min 3.7 - 7.7 - 1.05 - 2.1 - 1.07 - 44 - 1.1 - 44 - 1.0 - - - 0.052 - 240 - 0.55 - - - - - - - 0.55 - 25 - 0.14 - - - 3.9 - 20 -
 | Hankfull R - | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 7.2 - - 12.8 - - 6.7 - - 12.8 - - 0.0305 - - 1.8 - - 1.8 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
- 1.0
- 7.3
- 1.9

- | Reference Mean Med - - <td>g, D.I. Kane, editor. American Water</td> <td>Min Measures - 8.00 - 8.00 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.8 - - -<td>Design n Med - -
 - - - - - - - - - - - - - -</td><td>Max SD - -</td><td>n Min Measure - 8.1 8.8 - >>15 > - 0.7 0.8 1.1 - 0.7 0.8 1.1 1.2 - 0.7 0.8 1.1 1.2 - 0.1 1.1.1 2 - 1.1 - 0.1 1.1.1 2 - 1.1 - 0.1 1.1.1 2 - 1.1.1 2 - 3.1.7 - 9.1 1.1.0 1.4 1.6 2.1 - 3.1.7 - 1.0.0 1.1 - 3.1.7 - 3.1.7 - 3.6.3 1.6 2.1 - - - - - 1.6 2.1 -</td><td>n Med Mr 8.2 10.0 - 0.8 00 - 0.8 00 1.1 1.4 6.5 7.5 1.1 1.4 6.5 7.7 1.0.3 15.7 1.10 1.2 - - 0.48.4 57. 1.9.4 2.5 1.7.7 94 8.1 10.0 20.6 2.8 30.0 0.0 2.0.6 2.8 0.0 0.0 2.0 2.0 2.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 7 2.2 2.2 9 71.7 94 - - - 0 48.4 57 8.1 10.0 6 3 21.0 65 1 1.7 1. - - - - - - - - - - - - - - - - - - - - - - - - -<!--</td--><td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 8 10.6 5 7.0 13 1.10 3.4 - 7.0 48.4 18 19.4 19 71.7 5 8.1 2.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - 0.0 48.5 - - 0.0 48.5 - - - - - - - - - - - - - - - - - - - - - - -</td><td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td><td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td></td></td>
 | g, D.I. Kane, editor. American Water | Min Measures - 8.00 - 8.00 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.8 - - - <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Measure - 8.1 8.8 - >>15 > - 0.7 0.8 1.1 - 0.7 0.8 1.1 1.2 - 0.7 0.8 1.1 1.2 - 0.1 1.1.1 2 - 1.1 - 0.1 1.1.1 2 - 1.1 - 0.1 1.1.1 2 - 1.1.1 2 - 3.1.7 - 9.1 1.1.0 1.4 1.6 2.1 - 3.1.7 - 1.0.0 1.1 - 3.1.7 - 3.1.7 - 3.6.3 1.6 2.1 - - - - - 1.6 2.1 -</td> <td>n Med Mr 8.2 10.0 - 0.8 00 - 0.8 00 1.1 1.4 6.5 7.5 1.1 1.4 6.5 7.7 1.0.3 15.7 1.10 1.2 - - 0.48.4 57. 1.9.4 2.5 1.7.7 94 8.1 10.0 20.6 2.8 30.0 0.0 2.0.6 2.8 0.0 0.0 2.0 2.0 2.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1. 7 2.2 2.2 9 71.7 94 - - - 0 48.4 57 8.1 10.0 6 3 21.0 65 1 1.7 1. - - - - - - - - - - - - - - - - - - - - - - - - -<!--</td--><td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 8 10.6 5 7.0 13 1.10 3.4 - 7.0 48.4 18 19.4 19 71.7 5 8.1 2.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - 0.0 48.5 - - 0.0 48.5 - - - - - - - - - - - - - - - - - - - - - - -</td><td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td><td>85 3 - 3 11 3 03 3 45 3
75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td></td> | Design n Med - - | Max SD - - | n Min Measure - 8.1 8.8 - >>15 > - 0.7 0.8 1.1 - 0.7 0.8 1.1 1.2 - 0.7 0.8 1.1 1.2 - 0.1 1.1.1 2
 - 1.1 - 0.1 1.1.1 2 - 1.1 - 0.1 1.1.1 2 - 1.1.1 2 - 3.1.7 - 9.1 1.1.0 1.4 1.6 2.1 - 3.1.7 - 1.0.0 1.1 - 3.1.7 - 3.1.7 - 3.6.3 1.6 2.1 - - - - - 1.6 2.1 - | n Med Mr 8.2 10.0 - 0.8 00 - 0.8 00 1.1 1.4 6.5 7.5 1.1 1.4 6.5 7.7 1.0.3 15.7 1.10 1.2 - - 0.48.4 57. 1.9.4 2.5 1.7.7 94 8.1 10.0 20.6 2.8 30.0 0.0 2.0.6 2.8 0.0 0.0 2.0 2.0 2.2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 | an Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 8 10.6 5 7.0 13 1.10 3.4 - 7.0 48.4 18 19.4 19 71.7 5 8.1 2.2 26.7 2.12 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - 0.0 48.5 - - 0.0 48.5 - - - - - - - - - - - - - - - - - - - - - - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jenning, J.M. Pattesan, D.R. Clanton,
2 Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (ft)
Floodprone Width (ft)
BF Mean Depth (ft)
BF Ana Depth (ft)
BF Cross-sectional Area (ft)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (ft/ft)
RedBankfall width (ft/ft)
RedBankfall width (ft/ft)
Meander Wavelength (ft)
Neader Wavelength (ft)
Pool Length (ft)
Pool Length (ft)
Pool Spacing (ft)
Pool Spacing (ft)
Pool Spacing (ft)
Pool Volume (ft ²)
Substrate and Transport Parameters
R5% / S5% / S5% / S5% / S5%
SC% / Sa% / S5% / S5% / S5%
Scach Shear Stress (competency) Ib/F
Max part size (mm) mobilized at bankfull
(Rosgen Curve)
Stream Power (transport equacity) W/rr
Additional Reach Parameters | USGS
Gauge | Action Jumments Description Jumment Learning
 | Min 3.7 1.7 7.7 1.7 1.7 5.56 2.4 1.1 1.0 2.1 1.1 2.1 1.0 1.2 1.0 2.1 1.1 0.052 2.5 1.4 0.052 2.5 1.8 - - - 0.055 - - 2.5 - - 0.55 - - 2.5 - - 0.14 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <
 | Prevention 1 | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 7.2 - - 12.8 - - 6.7 - - 12.8 - - 0.0305 - - 1.8 - - 1.8 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
- 1.0
- 7.3
- 1.9

- | Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td> <td>Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 7.0 1.0 - - 7.0 - 1.0 - 7.0 - 1.0 - 7.0 - 1.1 -</td> <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Mea - 8.1
 8.8 - >>15 - 0.7 0.8 - 1.1 12 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 6.3 6.7 - 1.00 1.11 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 36.4 47.7 - 1.6 2.1 - 6.3 7.43 - 6.3 7.44 - 36.3 49.0 - 1.7 2.0 - 1.84 2.64 - 3.6.3 49.0 - 1.7 2.0 - - - - 0.2</td> <td>n Med Mr 8.2 10.0 - 0.8 0.0 - 0.8 0.0 - 0.8 0.0 - 1.1 1.4 - 6.5 7.7 - 1.0 1.2 - - - - 0.0 0.0 1.0 1.2 - - 0.0 0.0 0.0 1.255.8 33.3 47.7 44.7 6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <tr< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>m Med Mit 0 - - - 0 - - - 0 - - - 0 - - - 0 1.1 1. 1. 1 5.3 5. - 0 1.20 1.1 1. 1 7.0 9. 0.0 1.20 0 1.20 1.1 1. - 0 48.4 57 8 19.4 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.0 0.0 <</td><td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td><td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td></tr<></td> | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 7.0 1.0 - - 7.0 - 1.0 - 7.0 - 1.0 - 7.0 - 1.1 -
 | Design n Med - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - 0.7 0.8 - 1.1 12 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 6.3 6.7 - 1.00 1.11 - 6.3 6.7 - 9.1 11.1 - 6.3 6.7 - 1.00 1.11 - 36.4 47.7 - 1.6 2.1 - 6.3 7.43 - 6.3 7.44 - 36.3 49.0 - 1.7 2.0 - 1.84 2.64 - 3.6.3 49.0 - 1.7 2.0 - - - - 0.2
 | n Med Mr 8.2 10.0 - 0.8 0.0 - 0.8 0.0 - 0.8 0.0 - 1.1 1.4 - 6.5 7.7 - 1.0 1.2 - - - - 0.0 0.0 1.0 1.2 - - 0.0 0.0 0.0 1.255.8 33.3 47.7 44.7 6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <tr< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>m Med Mit 0 - - - 0 - - - 0 - - - 0 - - - 0 1.1 1. 1. 1 5.3 5. - 0 1.20 1.1 1. 1 7.0 9. 0.0 1.20 0 1.20 1.1 1. - 0 48.4 57 8 19.4 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.0 0.0 <</td><td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td><td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 -
-</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td></tr<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med Mit 0 - - - 0 - - - 0 - - - 0 - - - 0 1.1 1. 1. 1 5.3 5. - 0 1.20 1.1 1. 1 7.0 9. 0.0 1.20 0 1.20 1.1 1. - 0 48.4 57 8 19.4 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.0 0.0 < | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
 | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
Biological or Other
Biological or Other
I - Harman, W.A., G.D. Jeming, M.P. Aterson, D.R. Clanon,
2. Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (P)
BF Mean Depth (R)
BF Mean Depth (R)
BF Mean Depth (R)
BF Cross-sectional Area (H')
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
Bank Bank Bank Bank Bank
(Rosegen Curve)
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(Rosegen Curve)
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Gauge | Action Jumments Description Jumment Learning
 | Min
 | Bankfull R - - - - - | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 7.2 - - 12.8 - - 6.7 - - 12.8 - - 0.0305 - - 1.8 - - 1.8 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
- 1.0
- 7.3
- 1.9

- | Reference Reference Mon
 | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 1.0 - 6.0 - 1.0 - 1.0 - 1.1 - 1.1 - - - - - 1.1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -< | Design n Med - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - - 3.1. - 1.6 2.1 - 1.6 2.1 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - 1.7 2.0 - - - - <t<< td=""><td>Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7. 1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - - - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8
10.6 14 7 7.0 9. 0 1.20 1.1. 7 0 9. 0 4.8.4 57 8 19.4 2.2 2.2 9 71.7 94 8.1 100 0. 0. 6 2.2.1.0 65 0.0 0. 6 2.0 1.7 1. 1. - - - - - 0.3 1.1.7 1. - - - - - - - - - - - - -</td><td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>an Med 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 13 1.10 13 1.10 14 1.10 15 8.1 10 48.4 12 2.2 19 71.7 5 8.1 12 2.0.0170 8.8 23.5 1.1 1.4 - - - - 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - -</td><td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td><td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td></t<<> | Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7. 1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - - - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1.1. 7 0 9. 0 4.8.4 57 8 19.4 2.2 2.2 9 71.7 94 8.1 100 0. 0. 6 2.2.1.0 65 0.0 0. 6 2.0 1.7 1. 1. - - - - - 0.3 1.1.7 1. - - - - - - - - - - - - - | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 0 0.42 7 7 - 1 1.3.70 15 - - 2 12.20 15 - - 0 1.5 2.0 15 - 0 0.15 2.0 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 13 1.10 13 1.10 14 1.10 15 8.1 10 48.4 12 2.2 19 71.7 5 8.1 12 2.0.0170 8.8 23.5 1.1 1.4 - - - - 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -
 | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Chamel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jenning, J.M. Pattesan, D.R. Clatton,
2 Harman, W.A., D.E. Wise, M.A. Waker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (B)
BF Mean Depth (R)
BF Cross-sectional Area (RF)
Width/Depth Ratio
Bank Height Ratio
d50 (mm)
Pattern
Chamel Beltwidth (f)
Radius of Curvature (R)
Radius Of Curvature (R)
Brool Length (R)
Pool Length (R)
Pool Spacing (R)
Pool Spacing (R)
Pool Spacing (R)
Pool Volume (R ²)
Substrate and Transport Parameters
R6% / Rw% (P% / P% / C% / S%
SC% / S3% (C% / B% / B%
d Ic/ d35 / 01 / d34 / d35
Reach Shear Stress (competency) blrf
Max part size (mm) mobilized at bankfull
(Rosgen Curve)
Stream Power (transport capacity) W/m
Additional Reach Parameters
Drainage Area (SM)
Impervious cover estimate (%)
RBF Discharge (cSF)
Valley Length
Channel Length (R)
BF Discharge (cSF)
Valley Length
Channel Length (R)
BF Shope (f)
BF Shope (f)
BF Shope (f)
BF Shope (f)
BF Shope (f)
BF Shope (f)
BF Shope (f) | USGS
Gauge | Action Jumments Description Jumment Learning
 | Min 3.7 3.7 7.7 1.15 1.5 2.4 1.1 1.05 1.5 2.1 1.0 1.05 1.5 2.1 1.0 1.0 1.1 0.0052 2.5 2.40 1.8 - - 0.55 - 2.5 - 0.55 - 2.5 - 0.14 - - - 0.14 - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 | Bankfull R Pree - < | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 7.2 - - 12.8 - - 6.7 - - 12.8 - - 0.0305 - - 1.8 - - 1.8 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
- 1.0
- 7.3
- 1.9

- | Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td> <td>Min Mea - 8.00 - 8.00 - - - 0.0 - - - 0.0 - 6.0 - - 1.0 - - - 1.0 - - - 1.0 - -</td> <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Measurement - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 -
6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.0 1.10 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.3.1 21.1 - 0.0 0.0 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - - - - 0.2 - - -</td> <td>Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7. 1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - - - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1.1 7 0 9. 0 1.20 1.1 7 2.2 2.2 9 71.7 94 8 19.4 2.2 9 71.7 94 8 10 0.0 0 0.0 0. 6 2.0 1.7 1.7 1. 1. - - - - - - - - - - - - - - -</td> <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 2 10.30 7 7 - 0 0.42 7 - - 2 12.20 15 - - 0 13.60 17 - - 3 13.60 17 - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>ann Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 5.4 1.10 1.4 - 7.0 48.4 8 19.4 1 2.2 1.9 71.7 5 8.1 7 2 2.6.7 212 2.0 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - - - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td> | g, D.I. Kane, editor. American Water
 | Min Mea - 8.00 - 8.00 - - - 0.0 - - - 0.0 - 6.0 - - 1.0 - - - 1.0 - - - 1.0 - -
 | Design n Med - - | Max SD - - | n Min Measurement - 8.1 8.8 - >15 - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.0 1.10 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.6 2.1 - 36.4 47.0 - 1.3.1 21.1 - 0.0 0.0 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - - - - 0.2 - - -
 | Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7. 1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - - - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1.1 7 0 9. 0 1.20 1.1 7 2.2 2.2 9 71.7 94 8 19.4 2.2 9 71.7 94 8 10 0.0 0 0.0 0. 6 2.0 1.7 1.7 1. 1. - - - - - - - - - - - - - - - | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 2 10.30 7 7 - 0 0.42 7 - - 2 12.20 15 - - 0 13.60 17 - - 3 13.60 17 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | ann Med 1 7.8 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 5.4 1.10 1.4 - 7.0 48.4 8 19.4
 1 2.2 1.9 71.7 5 8.1 7 2 2.6.7 212 2.0 0.0170 8.8 23.5 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - - - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., G.D. Jenning, J.M. Pattean, D.R. Chaton,
2 Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Width (B)
BF Mean Depth (B)
BF Cross-sectional Area (F)
Width/Depth Ratio
Entrenchment Ratio
Bank Height Ratio
d50 (mm)
Pattern
Channel Beltwidth (H)
Radhus of Curvature (B)
Radhus of Curvature (B)
Radhus of Curvature (B)
Radhus of Curvature (B)
Radhus of Curvature (B)
ReiBankfull width (HR)
Meander Wavelength (B)
Pool Length (B)
Pool Length (B)
Pool Spacing (B)
Pool Volume (B ¹)
Substrate and Transport Parameters
R&S/ R&S/ S&/ S/ S/ S/S/
SC% / S&% (G% / S% / S%
SC% / S&% (G% / S% / S% / S%
SC% / S&% / S% / S% / S% / S% / S%
SC% / S&% / S% / S% / S% / S% / S% / S% / | USGS
Gauge | Action Jumments Description Jumment Learning
 | Min 3.7 3.7 7.7 1.15 1.5 2.4 1.1 1.05 1.5 2.1 1.0 1.05 1.5 2.1 1.0 1.0 1.1 0.0052 2.5 2.40 1.8 - - 0.55 - 2.5 - 0.55 - 2.5 - 0.14 - - - 0.14 - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 | Bankfull R - - - - - | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 7.2 - - 12.8 - - 6.7 - - 12.8 - - 0.0305 - - 1.8 - - 1.8 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
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- 7.3
- 1.9

- | Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td> <td>Min Mea - 8.0 - 8.0 - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 1.0 - 6.0 - 1.0 - 1.0 - 1.1 - 1.1 - - - - - 1.1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<</td> <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - - 3.1. - 1.6 2.1 - 1.6 2.1 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - 1.7 2.0 - 1.7 2.0 -</td> <td>Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7.
1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - - - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1.1 7 0 9. 0 1.20 1.1 7 2.2 2.2 9 71.7 94 8 19.4 2.2 9 71.7 94 8 10 0.0 0 0.0 0. 6 2.0 1.7 1.7 1. 1. - - - - - - - - - - - - - - -</td> <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 2 10.30 7 7 - 0 0.42 7 - - 2 12.20 15 - - 0 13.60 17 - - 3 13.60 17 - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 13 1.10 13 1.10 14 1.10 15 8.1 10 48.4 12 2.2 19 71.7 5 8.1 12 2.0.0170 8.8 23.5 1.1 1.4 - - - - 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td> | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 1.0 - 6.0 - 1.0 - 1.0 - 1.1 - 1.1 - - - - - 1.1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -< | Design n Med - - - - - - - - - - - - - - - - - - - - -
 - - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - - 3.1. - 1.6 2.1 - 1.6 2.1 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - 1.7 2.0 - 1.7 2.0 -
 | Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7. 1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - - - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -
 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1.1 7 0 9. 0 1.20 1.1 7 2.2 2.2 9 71.7 94 8 19.4 2.2 9 71.7 94 8 10 0.0 0 0.0 0. 6 2.0 1.7 1.7 1. 1. - - - - - - - - - - - - - - - | i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 2 10.30 7 7 - 0 0.42 7 - - 2 12.20 15 - - 0 13.60 17 - - 3 13.60 17 - - - - - - - - - - - - - - - - - - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | an Med 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 13 1.10 13 1.10 14 1.10 15 8.1 10 48.4 12 2.2 19 71.7 5 8.1 12 2.0.0170 8.8 23.5 1.1 1.4 - - - - 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - - | Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01
34.4 6.7 1.7 0.7 - - - - | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.17 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 21.6 58.5 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Channel Stability or Habitat Metric
Biological or Other
1 Harman, W.A., O.D. Jenning, J.M. Patterson, B.R. Clinton,
2 Harman, W.A., O.E. Wase, M.A. Walker, R. Morris, M.A. Can
UT3
Parameter
Dimension and Substrate - Riffle
BF Witch (R)
BF Mean Deepth (R)
BF Mean Deepth (R)
BF Mean Deepth (R)
BF Mean Deepth (R)
BF Cross-sectional Area (RF)
Witch/Depth Ratio
Bank Height Ratio
Bank Bank Bank Bank Bank Bank Bank Bank | trell, M. Clent | Action Jumments Description Jumment Learning
 | Min 3.7 3.7 7.7 1.15 1.5 2.4 1.1 1.05 1.5 2.1 1.0 1.05 1.5 2.1 1.0 1.0 1.1 0.0052 2.5 2.40 1.8 - - 0.55 - 2.5 - 0.55 - 2.5 - 0.14 - - - 0.14 - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 | Bankfull R - | geoma Curves for North Carolina Mean Med Max SD - 5.3 - - 48.0 - - 1.57 - - 1.57 - - 5.93 - - 9.1 - - 2.4 - - 9.1 - - 2.4 - - 9.1 - - 7.2 - - 12.8 - - 6.7 - - 12.8 - - 0.0305 - - 1.8 - - 1.8 - - - - - - - - - - - - - - - - - - - - - - | n Min
2 0.1
- 15.0
- 0.70
- 15.0
- 0.70
- 1.0
- 7.3
- 1.9

- | Reference Mon Mon <td>g, D.I. Kane, editor. American Water</td> <td>Min Mea - 8.0 - 8.0 - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 1.0 - 6.0 - 1.0 - 1.0 - 1.1 - 1.1 - - - - - 1.1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<</td> <td>Design n Med - -</td> <td>Max SD - -</td> <td>n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - - 3.1. - 1.6 2.1 - 1.6 2.1 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - 1.7 2.0 - 1.7 2.0 -</td> <td>Ned Mrg 8.2 10. 0.8 00. 1.1 1.4 6.5 7. 1.1 1.4 6.5 7. 1.1 1.1 1.5 8.5 9.7 1.10 1.2 - 0.0 1.1 1.1 1.1 1.1 1.5 8.5 9. 1.1.10 1.2 - - -
 - 2.2 2.2 71.7 94 8.1 10 2.0 2.1 - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>m Med M, 0 - - 0 - - 0 - - 0 - - 0 - - 0 1.1 1. 1.5 5.3 5. 8 10.6 14 7 7.0 9. 0 1.20 1.1 7 0 9. 0 1.20 1.1 7 2.2 2.2 9 71.7 94 8 19.4 2.2 9 71.7 94 8 10 0.0 0 0.0 0. 6 2.0 1.7 1.7 1. 1. - - - - - - - - - - - - - - -</td> <td>i 0.76 3 - - - 0.05 3 0.06 3 0.06 3 - - 1 0.06 3 - - 1 0.162 3 - - 7 7.21 7 - - 7 7.21 7 - - 0 0.02 7 - - 1 3.72 7 - - 2 10.30 7 7 - 0 0.42 7 - - 2 12.20 15 - - 0 13.60 17 - - 3 13.60 17 - - - - - - - - - - - - - - - - - - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>an Med 50 - 7 0.7 1 1.1 3 5.3 5 7.0 1 1.1 3 5.3 5 7.0 13 1.10 13 1.10 13 1.10 14 1.10 15 8.1 10 48.4 12 2.2 19 71.7 5 8.1 12 2.0.0170 8.8 23.5 1.1 1.4 - - - - 0.0 48.5 4 1.4 - - - - - - - - - - - - - - - - - - -</td> <td>Max SI 9.2 0.8 9.7 0.1 0.7 0.1 1.1 0.0 5.8 0.4 1.805 3.7 9.6 1.55 1.30 0.1 - - 57.7 7.2 2.9 0.4 94.2 10.7 10.7 1.1 0.0702 0.01 34.4 6.7 1.7 0.7 - - - -</td> <td>85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - -</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.1 1.1 1.4 5.3 13.1 18.56 6.9 9.42 1.1 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<></td> | g, D.I. Kane, editor. American Water
 | Min Mea - 8.0 - 8.0 - 8.0 - 8.0 - 8.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 1.0 - 6.0 - 1.0 - 1.0 - 1.1 - 1.1 - - - - - 1.1 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -< | Design n Med - - -
- - - - - - - - - - - - - - - - - - - - - - - | Max SD - - | n Min Mea - 8.1 8.8 - >>15 - - 0.7 0.8 - 1.1 1.2 - 6.3 6.7 - 1.1 1.2 - 6.3 6.7 - 1.11 1.2 - 6.3 6.7 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - 5.4 7.8 - 1.00 1.11 - - 3.1. - 1.6 2.1 - 1.6 2.1 - 1.3.1 21.1 - 0.0 0.0 - 1.7 2.0 - 1.7 2.0 - 1.7 2.0 -
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 | 85 3 - 3 11 3 03 3 45 3 75 3 134 3 12 3 21 7 72 7 42 7 30 7 17 7 30 7 17 7 42 18 2 17 60 17 3 2 - - | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Med Max 7.6 9.3 - - 0.6 0.7 1.1 1.1 4.6 5.3 13.1 18.56 6.9 9.42 1.1 1.1 1.4 5.3 13.1 18.56 6.9 9.42 1.1 1.18 - - 48.4 57.7 19.4 25.1 2.2 2.9 71.7 94.2 8.1 10.7 0.0133 0.0505 28.8 60.5 - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

2. Harman, W.A., D.E. Wase, M.A. Walker, R. Morris, M.A. Cantrell, M. Clemmons, G.D. Jennings, D.R. Clinton, J.M. Patterson. 2000. Bankfull Regional Curves for North Carolina Mountain Streams. In: AWRA Conference Proceedings, D.I. Kane, editor. American Water Resources in Extreme Environments. Anchorage, Alaska.

MICHAEL BAKER ENGINEERING, INC. MONITORING YEAR 3 REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Table 11. Morphology and Hydraulic Monitoring Summary

Upper Silver Creek Restoration Project: DMS Project ID No. 94645

Silver Creek (3,016 LF)								-																				
			Cross-section	-		,					,	n 2636.7 (Pool	/					X-3, Station		<i>.</i>					,	1793.8 (Riff	/	
Dimension and substrate	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation																												
BF Width (ft)	29.1	24.6	24.9	24.9				35.7	29.5	34.0	34.5				43.5	39.5	42.0	39.8				23.8	23.5	23.5	24.0			
BF Mean Depth (ft)	1.7	1.8	1.8	1.7				1.6	1.8	1.5	1.5				1.7	1.5	1.2	1.2				2.0	1.9	1.8	1.8			
Width/Depth Ratio	17.2	13.9	13.8	14.8				21.8	16.8	23.3	22.9				25.2	27.3	35.2	34.1				11.8	12.4	13.5	13.7			
BF Cross-sectional Area (ft ²)	49.2	43.4	45.0	41.9				58.3	51.9	49.6	52.0				74.9	57.3	50.2	46.8				48.0	44.2	41.1	41.9			
BF Max Depth (ft)	3.0	2.9	3.2	3.1				4.0	3.9	4.3	4.5				5.2	4.0	4.0	3.8				3.3	3.2	3.1	3.1			
Width of Floodprone Area (ft)	>300	>300	>300	>300				>300	>300	>300	>300				>300	>300	>300	>300				>300	>300	>300	>300			
Entrenchment Ratio	3.3	3.9	3.8	3.9				2.5	3.0	2.6	2.6				2.1	2.3	2.2	2.3				3.7	3.7	3.7	3.6			
Bank Height Ratio	1.10	1.00	1.10	1.06				1.00	1.00	1.00	1.00				0.70	0.70	0.90	1.07				1.00	1.00	1.00	1.02			
Wetted Perimeter (ft)	32.4	28.1	28.5	28.3				38.9	33.0	36.9	37.6				46.9	42.4	44.4	42.2				27.8	27.3	27.0	27.5			
Hydraulic Radius (ft)	1.5	1.5	1.6	1.5				1.5	1.6	1.3	1.4				1.6	1.4	1.1	1.1				1.7	1.6	1.5	1.5			
Fixed baseline bankfull elevation	1197.4	1197.4	1197.4	1197.4				1198.2	1198.2	1198.2	1198.2				1202.3	1202.3	1202.3	1202.3				1203.0	1203.0	1203.0	1203.0			
Based on current/developing bankfull feature																							-	-				
BF Width (ft)	29.1	26.2	26.2	-				35.7	29.5	35.3	-				43.5	42.6	42.0	-				23.8	23.5	23.5	-			
BF Mean Depth (ft)	1.7	1.7	1.8	-				1.6	1.8	1.5	-				1.7	1.5	1.2	-				2.0	1.9	1.8	-			
Width/Depth Ratio	17.2	15.2	14.4	-				21.8	16.8	23.5	-				25.2	29.3	35.2	-				11.8	12.4	13.5	-			
BF Cross-sectional Area (ft ²)	49.2	45.1	47.6	-				58.3	51.9	53.1	-				74.9	61.8	50.2	-				48.0	44.2	41.1	-			
BF Max Depth (ft)	3.0	3.0	3.3	-				4.0	3.9	4.4	-				5.2	4.2	4.0	-				3.3	3.2	3.1	-			
Width of Floodprone Area (ft)	>300	>300	>300	-				>300	>300	>300	-				>300	>300	>300	-				>300	87.3	>300	-			
Entrenchment Ratio	3.3	3.7	>3.7	-				2.5	3.0	>2.5	-				2.1	2.1	2.2	-				3.7	3.7	3.7	-			
Bank Height Ratio	1.10	1.00	1.00	-				1.00	1.00	1.00	-				0.70	0.70	0.90	-				1.00	1.00	1.00	-			
Wetted Perimeter (ft)	32.4	29.7	29.8	-				38.9	33.0	38.3	-				46.9	45.5	44.4	-				27.8	27.3	27.0	-			
Hydraulic Radius (ft)	1.5	1.5	1.6	-				1.5	1.6	1.4	-				1.6	1.4	1.1	-				1.7	1.6	1.5	-			
Cross Sectional Area between end pins (ft ²)	-	-	-	-				-	-	-	-				-	-	-	-				-	-	-	-			
d50 (mm)	-	-	-	-				-	-	-	-				-	-	-	-				36.6	41.3	25.1	-			
* Corrected from baseline report.																												
					10000				~		** / 0 1						~ ·											
			Cross-section	,		/					,	n 357.2 (Pool)			5			n 7, Station 3							1979	No.4		
Dimension and substrate	Base	MY1	Cross-section MY2	X-5, Station MY3	n 1206.9 (Rif MY4	fle) MY5	MY+	Base	C MY1	ross-section MY2	n X-6, Statio MY3	n 357.2 (Pool) MY4		MY+	Base	MY1	Cross-section MY2	n 7, Station 3 MY3	02.5 (Riffle) MY4) MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation		MY1	MY2	MY3		/	MY+		MY1	MY2	MY3			MY+		MY1	MY2	MY3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft)	28.4	MY1 26.1	MY2	MY3 25.0		/	MY+	43.5	MY1 41.9	MY2 34.6	MY3 36.0			MY+	26.6	MY1 25.9	MY2 25.8	MY3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft)	28.4 1.7	MY1 26.1 1.7	MY2 25.2 1.7	MY3 25.0 1.7		/	MY+	43.5 1.8	MY1 41.9 1.8	MY2 34.6 1.7	MY3 36.0 1.6			MY+	26.6 2.1	MY1 25.9 2.0	MY2 25.8 1.8	MY3 25.8 1.8			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	28.4 1.7 17.3	MY1 26.1 1.7 15.7	MY2 25.2 1.7 15.0	MY3 25.0 1.7 15.1		/	MY+	43.5 1.8 23.6	MY1 41.9 1.8 23.9	MY2 34.6 1.7 20.5	MY3 36.0 1.6 22.6			MY+	26.6 2.1 13.0	MY1 25.9 2.0 13.3	MY2 25.8 1.8 14.0	MY3 25.8 1.8 14.3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²)	28.4 1.7 17.3 46.9	MY1 26.1 1.7 15.7 43.4	MY2 25.2 1.7 15.0 42.3	MY3 25.0 1.7 15.1 41.6		/	MY+	43.5 1.8 23.6 80.1	MY1 41.9 1.8 23.9 73.5	MY2 34.6 1.7 20.5 58.3	MY3 36.0 1.6 22.6 57.2			MY+	26.6 2.1 13.0 54.5	MY1 25.9 2.0 13.3 50.6	MY2 25.8 1.8 14.0 47.6	MY3 25.8 1.8 14.3 46.2			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft)	28.4 1.7 17.3 46.9 2.9	MY1 26.1 1.7 15.7 43.4 2.8	MY2 25.2 1.7 15.0 42.3 2.8	MY3 25.0 1.7 15.1 41.6 2.8		/	MY+	43.5 1.8 23.6 80.1 5.3	MY1 41.9 1.8 23.9 73.5 5.0	MY2 34.6 1.7 20.5 58.3 3.8	MY3 36.0 1.6 22.6 57.2 4.6			MY+	26.6 2.1 13.0 54.5 3.3	MY1 25.9 2.0 13.3 50.6 3.2	MY2 25.8 1.8 14.0 47.6 3.0	MY3 25.8 1.8 14.3 46.2 3.2			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft)	28.4 1.7 17.3 46.9 2.9 >300	MY1 26.1 1.7 15.7 43.4 2.8 >300	MY2 25.2 1.7 15.0 42.3 2.8 >300	MY3 25.0 1.7 15.1 41.6 2.8 >300		/	MY+	43.5 1.8 23.6 80.1 5.3 >300	MY1 41.9 1.8 23.9 73.5 5.0 >300	MY2 34.6 1.7 20.5 58.3 3.8 >300	MY3 36.0 1.6 22.6 57.2 4.6 >300			MY+	26.6 2.1 13.0 54.5 3.3 >300	MY1 25.9 2.0 13.3 50.6 3.2 >300	MY2 25.8 1.8 14.0 47.6 3.0 >300	MY3 25.8 1.8 14.3 46.2 3.2 >300			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio	$ \begin{array}{r} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ \end{array} $	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5		/	MY+	$ \begin{array}{r} 43.5 \\ 1.8 \\ 23.6 \\ 80.1 \\ 5.3 \\ >300 \\ 1.6 \\ \end{array} $	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio	$ \begin{array}{r} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ \end{array} $	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	28.4 1.7 17.3 46.9 2.9 >300 3.1 1.00 31.7	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	28.4 1.7 17.3 46.9 2.9 >300 3.1 1.00 31.7 1.5	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2 1.7	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7 1.8	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	28.4 1.7 17.3 46.9 2.9 >300 3.1 1.00 31.7	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature	28.4 1.7 17.3 46.9 2.9 >300 3.1 1.00 31.7 1.5 1208.8	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2 1.7 1208.1	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7 1.8 1208.2	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft)	28.4 1.7 17.3 46.9 2.9 >300 3.1 1.00 31.7 1.5 1208.8 28.4	MY1 26.1 1.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2 1.7 1208.1 43.5	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1			MY+	$\begin{array}{r} 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ 1208.2\\ \hline \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Width (ft)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 -		/	MY+	$\begin{array}{r} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 1.5 1208.1 34.6 1.7	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 -			MY+	$\begin{array}{r} 26.6 \\ 2.1 \\ 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.00 \\ 30.7 \\ 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Dept Ratio	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ > 300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2 1.7 1208.1 43.5 1.8 23.6	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - -			MY+	$\begin{array}{r} 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ 1208.2\\ \hline \\ 26.6\\ 2.1\\ 13.0\\ \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8 14.1	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7 43.4	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - -		/	MY+	$\begin{array}{r} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9 73.5	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - -			MY+	$ \begin{array}{r} 26.6 \\ 2.1 \\ 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.00 \\ 30.7 \\ 1.8 \\ 1208.2 \\ \hline 26.6 \\ 2.1 \\ \end{array} $	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3 50.6	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8 14.1 51.0	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Wean Depth (ft) BF Mean Depth (ft) BF Mean Depth (ft) BF Mean Depth (ft) BF Mean Depth (ft) BF Cross-sectional Area (ft²) BF Max Depth (ft)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ \hline \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7	MY2 25.2 1.7 15.0 42.3 2.8 >300 28.6 1.5 1208.8 25.8 1.7 15.3 43.3 2.8	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	43.5 1.8 23.6 80.1 5.3 >300 1.6 1.00 47.2 1.7 1208.1 43.5 1.8 23.6 80.1	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 3.8 3.8 3.8 3.8 3.8 3.8	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - - - -			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7 1.8 1208.2 26.6 2.1 13.0 54.5	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3 50.6 3.2	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8 14.1 51.0 3.1	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - -		/	MY+	$\begin{array}{r} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.900 45.4 1.7 1208.1 41.9 1.8 23.9 73.5 5.0	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - -			MY+	$\begin{array}{r} 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ 1208.2\\ \hline \\ 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ \hline \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3 50.6	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8 14.1 51.0	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Mean Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7 15.7 43.4 2.8 >300 29.4 1.5 1208.8 26.1 26.1 26.1 27.5 1.5 1.5 1.5 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3 2.8 >300 >3.4	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	$\begin{array}{c} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9 73.5 5.0 >300	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.5 1208.1 34.6 1.7 20.5 3.8 >300 38.0 30.0 38.0 30.0 38.0 38.0 38.0 30.0 38.0 38.0 38.0 38.0 30.0 3	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - - - - -			MY+	$\begin{array}{c} 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ 1208.2\\ \hline \\ 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3 50.6 3.2 >300	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8 14.1 51.0 3.1 >300	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 1.5 1.5 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3 2.8 >300 >3.4 1.00	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	$\begin{array}{c} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ \hline \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9 73.5 5.0 >300 1.6 >300 1.7 1.7 1.7 1.7 1.7 1.8 2.3 9 7.5 5.0 >300 1.6 -300 1.7 1.7 1.7 1.8 2.3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 1.5 1208.1 34.6 1.7 20.5 58.3 34.6 1.7 20.5 58.3 3.8 >300 2.0	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - - - - - - - -			MY+	$\begin{array}{c} 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ 1208.2\\ \hline \\ 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.0 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 25.9 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.0 1.3.3 50.6 3.2 2.3 2.0 1.3.3 50.6 3.2 2.3 2.0 1.3.3 50.6 3.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 1.8 14.1 51.0 3.1 >300 >4.7	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Cross-sectional Area (ft²) BF Cross-sectional Area (ft²) BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) BF Max Depth (ft)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 3.3 1.00 29.4	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3 2.8 >300 >3.4 1.00 29.1	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	$\begin{array}{c} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ \hline \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 10 10 10 10 10 10 10 10 10 1	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.5 1208.1 20.5 58.3 3.8 >3.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 2.0 1.5 1208.1 20.5 58.3 3.8 2.0 1.5 1208.1 2.0 1.5 1208.1 2.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - - - - - - - -			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7 1.8 1208.2 26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 54.5 3.3 >300 4.8 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 3.3 3.3 3.0 3.0 3.3 3.3 3.0 3.0	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.7 1208.2 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.0 25.9 2.0 1.0 2.0 2.0 1.0 2.0 2.0 1.0 2.0 2.0 1.3 3.0 2.0 2.0 1.3 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 2.0 1.0 2.0 1.0 2.0 2.0 1.0 2.0 2.0 1.0 2.0 2.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 14.1 51.0 3.1 >300 >4.7 1.00 30.5	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) Br Max Depth (ft) Width of Floodprone Area (ft²) Bask deprimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Max Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bask Height Ratio BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) Br Max Depth (ft) Width of Floodprone Area (ft) Br Max Depth (ft) Width of Floodprone Area (ft) Br Max Depth (ft)	$\begin{array}{c} 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.00 \\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >20.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3 2.8 >300 >3.4 1.00 29.1 1.5	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	$\begin{array}{c} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ \hline \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 1.7 1.7 1.208.1 1.7 1.8 1.8 2.3.9 1.7 1.208.1 1.8 2.3.9 7.3.5 5.0 1.6 0.90 1.6 0.90 1.7 1.208.1 1.8 2.3.9 7.3.5 5.0 1.6 0.90 1.6 0.90 1.6 0.90 1.6 0.90 1.6 0.90 1.6 0.90 1.6 0.90 0.5 0.0 1.6 0.90 0.0 0.0 0.0 0.0 0.0 0.0 0.	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.5 1208.1 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - - - - - - - - - - - - -			MY+	$\begin{array}{c} 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ 1208.2\\ \hline \\ 26.6\\ 2.1\\ 13.0\\ 54.5\\ 3.3\\ >300\\ 4.8\\ 1.00\\ 30.7\\ 1.8\\ \hline \end{array}$	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 1.7 1208.2 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.7 1208.2 >300 4.9 1.7 1208.2 >300 4.9 1.7 1208.2 >300 4.9 1.7 1208.2 >300 4.9 1.7 1208.2 >300 1.3 	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 14.1 51.0 3.1 >300 >4.7 1.00 30.5 1.7	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) BF Max Depth (ft) BF Max Depth (ft) BF Max Depth (ft) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) Bank Height Ratio Bank Height Ratio	$\begin{array}{c} 28.4\\ 1.7\\ 17.3\\ 46.9\\ 2.9\\ >300\\ 3.1\\ 1.00\\ 31.7\\ 1.5\\ 1208.8\\ \hline \\ 28.4\\ 1.7\\ 17.3\\ 46.9\\ 2.9\\ >300\\ 3.1\\ 1.00\\ 31.7\\ 1.5\\ \end{array}$	MY1 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.00 3.3 1.00 29.4	MY2 25.2 1.7 15.0 42.3 2.8 >300 3.5 1.00 28.6 1.5 1208.8 25.8 1.7 15.3 43.3 2.8 >300 >3.4 1.00 29.1	MY3 25.0 1.7 15.1 41.6 2.8 >300 3.5 1.01 28.3 1.5 1208.8 - - - - - - - - -		/	MY+	$\begin{array}{c} 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.00\\ 47.2\\ 1.7\\ \hline \end{array}$	MY1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 41.9 1.8 23.9 73.5 5.0 >300 1.6 0.90 45.4 1.7 1208.1 10 10 10 10 10 10 10 10 10 1	MY2 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.00 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.5 1208.1 20.5 58.3 3.8 >3.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 20.0 1.5 1208.1 20.5 58.3 3.8 2.0 1.5 1208.1 20.5 58.3 3.8 2.0 1.5 1208.1 2.0 1.5 1208.1 2.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	MY3 36.0 1.6 22.6 57.2 4.6 >300 1.9 1.01 39.1 1.5 1208.1 - - - - - - - - - - - - -			MY+	26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 30.7 1.8 1208.2 26.6 2.1 13.0 54.5 3.3 >300 4.8 1.00 54.5 3.3 >300 4.8 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 30.7 1.8 1208.2 26.6 2.1 1.00 3.3 3.3 3.0 3.0 3.3 3.3 3.0 3.0	MY1 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.00 29.8 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.7 1208.2 25.9 2.0 13.3 50.6 3.2 >300 4.9 1.0 25.9 2.0 1.0 2.0 2.0 1.0 2.0 2.0 1.0 2.0 2.0 1.3 3.0 2.0 2.0 1.3 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 2.0 1.0 2.0 1.0 2.0 2.0 1.0 2.0 2.0 1.0 2.0 2.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	MY2 25.8 1.8 14.0 47.6 3.0 >300 4.9 1.00 29.5 1.6 1208.2 26.8 14.1 51.0 3.1 >300 >4.7 1.00 30.5	MY3 25.8 1.8 14.3 46.2 3.2 >300 4.9 1.04 29.4 1.6 1208.2 - - - - - - - - -			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+

Table 11. Morphology and Hydraulic Monitoring Summary

Upper Silver Creek Restoration Project: DMS Project ID No. 94645

opper silver of eek itestor anon i rojee		0																									
UT1 (495 LF)			~ .			u .			~																		
			Cross-section		· · ·			-				on 3+28 (Poo	- /								_						
Dimension and substrate	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation																											
BF Width (ft)	9.6	9.3	9.2	9.0				9.3	8.6	6.6	6.4																
BF Mean Depth (ft)	0.9	0.8	0.8	0.8				2.0	1.3	1.4	1.1																
Width/Depth Ratio	10.3	12.3	12.2	11.7				4.7	6.8	4.8	5.9																
BF Cross-sectional Area (ft ²)	8.9	7.0	7.0	7.0				18.5	10.9	9.0	7.0																
BF Max Depth (ft)	1.3	1.1	1.1	1.1				3.7	2.5	2.6	1.8																
Width of Floodprone Area (ft)	>150	>150	>150	>150				>150	>150	>150	>150																
Entrenchment Ratio	5.3	5.4	5.5	5.6				8.7	9.4	12.3	12.6																
Bank Height Ratio	1.00	1.10	1.10	1.10				1.10	1.20	1.20	1.34																
Wetted Perimeter (ft)	11.5	10.8	10.7	10.6				13.3	11.1	9.3	8.6										1						
Hydraulic Radius (ft)	0.8	0.6	0.7	0.7				1.4	1.0	1.0	0.8										1						
Fixed baseline bankfull elevation	1204.0	1204.0	1204.0	1204.0				1201.6	1201.6	1201.6	1201.6										1						
Development (development backet) for the																					1						
Based on current/developing bankfull feature																											
BF Width (ft)	9.6	9.8	10.0	-	1		[9.3	11.0	8.3	-		1	1							1						
BF Mean Depth (ft)	0.9	0.8	0.82	-	1			2.0	1.4	1.6	-		1	1	1						Ī		1				
Width/Depth Ratio	10.3	12.0	12.1	-				4.7	8.0	5.3	-		1		1						1		1				
BF Cross-sectional Area (ft ²)	8.9	7.9	8.2	-				18.5	15.0	13.1	-		1		1						1		1				
BF Max Depth (ft)	1.3	1.2	1.2	-	1			3.7	2.9	3.2	-										1		1				
Width of Floodprone Area (ft)	>150	>150	>150	-	1			>150	>150	>150	-										1		1				
Entrenchment Ratio	5.3	5.2	5.1	-				8.7	7.4	9.7	-										1						
Bank Height Ratio	1.00	1.00	1.00	-				1.10	1.00	1.00	-										1						
Wetted Perimeter (ft)	11.5	11.4	11.6	-				13.3	13.7	11.5	-										1						
Hydraulic Radius (ft)	0.8	0.7	0.7	-				1.4	1.1	1.1	-										1						
	0.0	0.7	0.7										1														
Cross Sectional Area between end pins (ft ²)	-	-	-					-													1						
d50 (mm)	38.8	43.6	32.9	-	-				_	-	-									-							
		15.0	52.7	_				_	-		_																
		15.0	52.7	_					-																		
UT2 (310 LF)				V 15 Stati	on 2+15 (Poo					ross section	Y 16 Static	on 2+53 (Piff	fle)		1						<u> </u>						
UT2 (310 LF)			Cross-section		,		MV+		Cı			on 2+53 (Riff	- /	MV+	Base	MV1	MY2	MV3	MVA MV5	MV+	Base	MV1	MV2	MV3	MV4	MV5	MV+
UT2 (310 LF) Dimension and substrate	Base			n X-15, Stati MY3	on 2+15 (Poo MY4	ol) MY5	MY+	Base		ross-section MY2	X-16, Statio MY3	on 2+53 (Riff MY4	fle) MY5	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation	Base	MY1	Cross-section MY2	MY3	,		MY+	Base	Cı MY1	MY2	MY3		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft)	Base 7.3	MY1 6.4	Cross-section MY2 5.6	MY3	,		MY+	Base	C1 MY1 5.8	MY2	MY3		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft)	Base 7.3 0.8	MY1 6.4 0.5	Cross-section MY2 5.6 0.5	MY3 5.5 0.4	,		MY+	Base 6.6 0.4	Ct MY1 5.8 0.4	MY2 4.7 0.3	MY3 5.1 0.3		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	Base 7.3 0.8 8.9	MY1 6.4 0.5 13.9	Cross-section MY2 5.6 0.5 12.3	MY3 5.5 0.4 14.8	,		MY+	Base 6.6 0.4 16.0	Ct MY1 5.8 0.4 15.7	MY2 4.7 0.3 14.5	MY3 5.1 0.3 18.9		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²)	Base 7.3 0.8 8.9 6.1	MY1 6.4 0.5 13.9 3.0	Cross-section MY2 5.6 0.5 12.3 2.5	MY3 5.5 0.4 14.8 2.0	,		MY+	Base 6.6 0.4 16.0 2.7	Ct MY1 5.8 0.4 15.7 2.2	MY2 4.7 0.3 14.5 1.5	MY3 5.1 0.3 18.9 1.4		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft)	Base 7.3 0.8 8.9 6.1 1.7	MY1 6.4 0.5 13.9 3.0 0.8	Cross-section MY2 5.6 0.5 12.3 2.5 0.7	MY3 5.5 0.4 14.8 2.0 0.7	,		MY+	Base 6.6 0.4 16.0 2.7 0.9	Ct MY1 5.8 0.4 15.7 2.2 0.8	MY2 4.7 0.3 14.5 1.5 0.6	MY3 5.1 0.3 18.9 1.4 0.7		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100	MY1 6.4 0.5 13.9 3.0 0.8 >100	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100	MY3 5.5 0.4 14.8 2.0 0.7 >100	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100	Cr MY1 5.8 0.4 15.7 2.2 0.8 >100	MY2 4.7 0.3 14.5 1.5 0.6 >100	MY3 5.1 0.3 18.9 1.4 0.7 >100		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0	Ct MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20	Ct MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 7.0 7.4	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 7.0 7.4	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 ≥100 7.0 1.20 7.4 0.4 1201.2	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9 -	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9 -	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 ≥100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 16.0	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 3.3	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9 - -	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 16.0 2.7	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) BF Ma	Base 7.3 0.8 8.9 6.1 1.7 ≥100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9 - - - - -	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 ≥100 7.0 1.20 7.4 1201.2 6.6 0.4 16.0 2.7 0.9	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Width of Floodprone Area (ft ²) BF Max Depth (ft) BF	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9 - - - - - - -	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 >100 7.9 -100 7.0 1.20 7.4 1201.2 	Cr MY1 5.8 0.4 15.7 2.2 0.8 >100 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 5.8	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - - - - - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2	MY1 6.4 0.5 13.9 3.0 0.8 >100 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 0.8 >100 5 12.3 0.8 0.8	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9 - - - - - - - -	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.4 0.4 1.20 7.7 0.4 1.20 7.4 0.4 1.20 0.4 1.20 0.4 1.20 0.4 1.20 0.4 1.20 0.4 1.20 0.4 1.20 0.4 1.20 0.4 0.4 1.20 0.7 0.4 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20 0.5 1.20	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - - - - - - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio Bank Height Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1 1.10	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 10.5 11.0	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 0.4 1.20 0.9 0.4 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20 0.9 1.20	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 -7.1 1.00	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.10	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) BF Max Depth (ft) BF Max Depth (ft) BF Mean Depth (ft) BF Max De	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.2 1.10 9.2	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 >100 0.8 8.4 1.20 9.3	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 10.5 12.3 3.3 0.8 >100 10.5	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 7.4 1201.2 7.4 1201.2 7.4 1201.2 7.4 1201.2 7.0 7.0 7.4 120.2 7.4 7.4 120.2 7.4 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.10 6.2	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - - - - - - - - - - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft) BF Cross-sectional Area (ft ²) BF Max Depth (ft) BF Mean Depth (ft) Width of Floodprone Area (ft) BF Max Depth (ft) BF Max Depth (ft) Width of Floodprone Area (ft) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Bank Height Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1 1.10	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 10.5 11.0	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 >100 0.4 1201.2 0.9 1.20 1.20	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 -7.1 1.00	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.10	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - - - - - - - - - - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) Br Max Depth (ft) Width of Floodprone Area (ft²) Br Max Depth (ft) Width of Floodprone Area (ft²) Bank Height Ratio Bank Height Ratio Bank Height Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.2 1.10 9.2	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 >100 0.8 8.4 1.20 9.3	Cross-section MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.40 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 10.5 12.3 3.3 0.8 >100 10.5	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 7.4 1201.2 7.4 1201.2 7.4 1201.2 7.4 1201.2 7.0 7.0 7.4 120.2 7.4 7.4 120.2 7.4 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	C1 MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.00 6.6	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.10 6.2	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2 - - - - - - - - - - - - -		- /	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) BF Max Depth (ft) Width of Floodprone Area (ft) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.10 9.2 1.10 9.0 0.7	MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.20 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.00 >100 8.1 1.10 9.3 0.4	$\begin{array}{c} \text{Cross-section} \\ \text{MY2} \\ \hline 5.6 \\ 0.5 \\ 12.3 \\ 2.5 \\ 0.7 \\ > 100 \\ 12.1 \\ 1.40 \\ 6.5 \\ 0.4 \\ 1201.9 \\ \hline \\ 6.4 \\ 0.5 \\ 12.3 \\ 3.3 \\ 0.8 \\ > 100 \\ 10.5 \\ 1.10 \\ 7.5 \\ 0.4 \\ \hline \end{array}$	MY3 5.5 0.4 14.8 2.0 0.7 >100 12.3 1.30 6.2 0.3 1201.9	,		MY+	Base 6.6 0.4 16.0 2.7 0.9 >100 7.0 1.20 7.4 0.4 1201.2 6.6 0.4 16.0 2.7 0.9 >100 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.4 0.4	$\begin{array}{c} C1\\ MY1\\ \hline 5.8\\ 0.4\\ 15.7\\ 2.2\\ 0.8\\ >100\\ \hline 7.1\\ 1.00\\ 6.6\\ 0.3\\ 1201.2\\ \hline \\ 5.8\\ 0.4\\ 15.7\\ 2.2\\ 0.8\\ >100\\ 7.1\\ 1.00\\ 6.6\\ 0.3\\ \hline \end{array}$	MY2 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.20 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.10 6.2 0.3	MY3 5.1 0.3 18.9 1.4 0.7 >100 8.0 1.23 5.7 0.2 1201.2		- /	MY+		MY1	MY2	MY3	MY4 MY5	MY+		MY1	MY2	MY3	MY4	MY5	MY+

Upper Silver Creek Restoration Project: DMS Project ID No. 94645

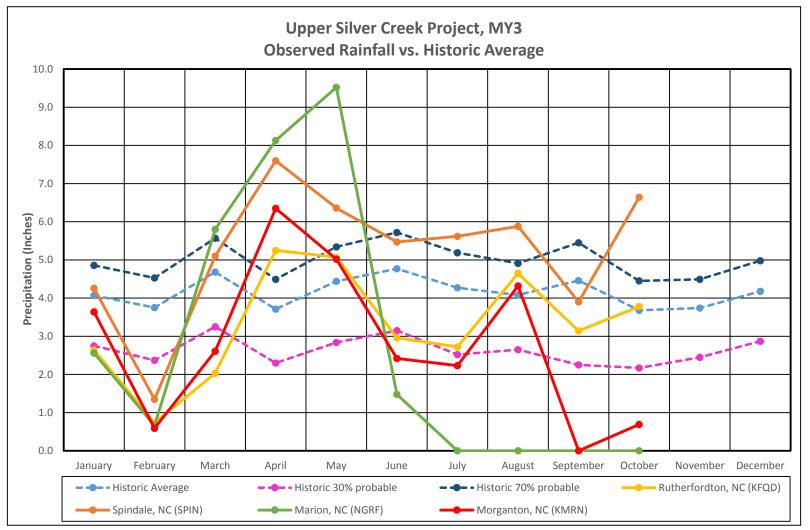
UT3 (1,348 LF)																										
			ross-section 2	,		/				Cross-sectio	,		/		-		X-10, Station 8+33	(-)					,	n 11+53 (Po	,	
Dimension and substrate	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5 MY+	Base	MY1	MY2	MY3 M	4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation							-																			
BF Width (ft)	10.1	8.8	9.2	9.3				10.7	9.5	9.4	10.6			8.1	7.0	7.2	7.3			13.0	11.5	11.4	11.4			
BF Mean Depth (ft)	0.65	0.61	0.5	0.5				1.0	0.8	0.5	0.5			0.8	0.7	0.7	0.7			1.0	0.9	0.6	0.6			
Width/Depth Ratio	15.5	14.5	18.1	18.6				10.5	11.6	20.4	21.1			10.3	10.2	9.7	10.1			12.8	13.7	18.7	18.0			
BF Cross-sectional Area (ft ²)	6.5	5.3	4.7	4.6				10.9	7.8	4.3	5.3			6.3	4.8	5.3	5.3			13.2	9.7	6.9	7.1			
BF Max Depth (ft)	1.1	1.1	1.1	1.1				1.7	1.6	1.2	1.5			1.1	0.9	1.1	1.1			2.2	1.9	1.7	1.7			
Width of Floodprone Area (ft)	>150	>150	>150	>150				>150	>150	>150	>150			>150	>150	>150	>150			>150	>150	>150	>150			
Entrenchment Ratio	5.4	6.1 1.10	5.9	5.8				5.8	6.6	6.7	5.9			8.5	9.9 1.20	9.6	9.4 1.06			5.6	6.3 1.10	6.4	6.4			
Bank Height Ratio Wetted Perimeter (ft)	1.00	10.0	1.00	1.18				1.00 12.8	11.20	1.20	1.24			1.10 9.6	8.3	1.10 8.7	8.7			1.00	1.10	1.10 12.6	1.10 12.6			
Hydraulic Radius (ft)	0.6	0.5	0.5	0.4				0.9	0.7	0.4	0.5			9.0	0.6	0.6	0.6			0.9	0.7	0.5	0.6			
Fixed baseline bankfull elevation	1215.4	1215.4	1215.4	1215.4				1212.8	1212.8	1212.8	1212.8			1212.9	1212.9	1212.9	1212.9			1209.3		1209.3	1209.3			
	1213.4	1213.4	1213.4	1213.4				1212.0	1212.0	1212.0	1212.0			1212.9	1212.9	1212.9	1212.9			1209.5	1209.5	1209.3	1209.5			1
Based on current/developing bankfull feature						-				_						-							-	-	-	-
BF Width (ft)	10.1	11.7	12.2	-				10.7	12.1	12.1	-			8.1	7.5	8.0	-			13	13.0	12.3	-			
BF Mean Depth (ft)	0.7	0.5	0.5	-	ļ		ļ	1.0	0.9	0.6	-	ļ		0.8	0.8	0.8	-		-	1.0	0.9	0.7	-			
Width/Depth Ratio	15.5	22.0	24.5	-	<u> </u>		L	10.5	13.8	19.8	-			10.3	9.8	9.9	-			12.8	14.2	18.4	-			
BF Cross-sectional Area (ft ²)	6.5	6.2	6.1	-				10.9	10.6	7.4	-			6.3	5.7	6.4	-			13.2	11.9	8.3	-			
BF Max Depth (ft) Width of Floodprone Area (ft)	1.1 >150	1.1 >150	1.3 >150	-	<u> </u>			1.7 >150	1.9 >150	1.4 >150	-			1.1 >150	1.1 >150	1.2 >150	-			2.2 >150	2.1 >150	1.8 >150	-			
I ()	5.4	×150 4.6	×150 4.4	-				5.8	>130 5.2	5.2	-			>150 8.5	>150 9.2		-			>150 5.6	>150 5.6		-			
Entrenchment Ratio Bank Height Ratio	1.00	4.6	4.4	-				1.00	5.2	1.00	-			1.10	9.2	8.6 1.00	-			1.00	5.6	5.9 1.00	-			
		12.7	13.2	-				1.00	13.8	13.3	-			9.7	9.0	9.6	-			15.0	14.9	13.7	-			
Wattad Darimatar (ft)	114			-							-			9.7	9.0	9.0	-			0.9	0.8	0.6	-			
Wetted Perimeter (ft) Hydraulic Radius (ft)	11.4							00																		
Hydraulic Radius (ff)	0.6	0.5	0.5	-				0.9	0.8	0.6	1															
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²)	0.6	0.5	0.5	-				-	-	- 0.6	-			-	-	-	-			-	-	-	-			
Hydraulic Radius (ff)	0.6	0.5	0.5								1						-						-			
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²)	0.6	0.5 - 20.4	0.5 - 16.4	-	11+84 (Rif	fle)		-	-		-			-	-	-				-		-				
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm)	0.6	0.5 - 20.4 Cro	0.5 - 16.4	- - -12, Statior	(,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate	0.6	0.5 - 20.4	0.5 - 16.4	-	n 11+84 (Rif MY4	fle) MY5	MY+	-	-		-	MY4	MY5 MY+	-	-	-		4 MY5	MY+	-		-		MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation	0.6 - 31.2 Base	0.5 - 20.4 Cro MY1	0.5 - 16.4 oss-section X MY2	- -12, Statior MY3		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft)	0.6 - 31.2 Base 8.2	0.5 - 20.4 Cro MY1 7.8	0.5 - 16.4 my2 7.7	- -12, Statior MY3 7.6		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft)	0.6 - 31.2 Base 8.2 0.9	0.5 - 20.4 Cro MY1 7.8 0.7	0.5 - 16.4 Diss-section X MY2 7.7 0.7	- 	(,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	0.6 - 31.2 Base 8.2	0.5 - 20.4 Cro MY1 7.8	0.5 - 16.4 my2 7.7	- -12, Statior MY3 7.6	(,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft)	0.6 - 31.2 Base 8.2 0.9 9.1	0.5 - 20.4 Cro MY1 7.8 0.7 10.6	0.5 - 16.4 sss-section X MY2 7.7 0.7 11.7	- -12, Station MY3 7.6 0.6 13.1		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8	0.5 - 16.4 sss-section X MY2 7.7 0.7 11.7 5.0	- -12, Statior MY3 7.6 0.6 13.1 4.4		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4	0.5 - 20.4 MY1 7.8 0.7 10.6 5.8 1.1	0.5 - 16.4 pss-section X MY2 7.7 0.7 11.7 5.0 0.9			,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150	0.5 	-12, Station MY3 7.6 0.6 13.1 4.4 0.9 >150		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0	0.5 - 16.4 bss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3	- 		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7	0.5 - 20.4 Cro MY1 - 7.8 0.7 10.6 5.8 1.1 ->150 7.0 1.30 9.3 0.6	0.5 - 16.4 bss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0	0.5 - 20.4 Cro MY1 - - - - - - - - - - - - -	0.5 - 16.4 bss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7	0.5 - 20.4 Cro MY1 - 7.8 0.7 10.6 5.8 1.1 ->150 7.0 1.30 9.3 0.6	0.5 - 16.4 bss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8	0.5 - 16.4 pss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8	-12, Station MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY-
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft)	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1	0.5 - 16.4 DSS-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9	0.5 - 20.4 Cro MY1 - - - - - - - - - - - - -	0.5 - 16.4 bss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1 0.9 10.5	0.5 - 16.4 Doss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY-
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²)	0.6 - 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 1.1 30 9.3 0.6 1208.8 9.1 0.9 10.5 8.0	0.5 - 16.4 DSS-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1 7.5	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) BF Mean Depth (ft) BF Mean Depth (ft) BF Mean Depth (ft) BF Kidth (ft) BF Kords-sectional Area (ft ²) BF Cross-sectional Area (ft ²) BF Max Depth (ft)	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1 7.3	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1 0.9 10.5	0.5 - 16.4 Doss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1	-12, Station MY3 7,6 0,6 13,1 4,4 0,9 >150 6,9 1,17 8,8 0,5 1208,8		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²)	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 - 5.8 1.1 - 5.8 1.1 - 5.0 7.0 1.30 9.3 0.6 1208.8 9.1 0.5 8.0 1.3 - - - - - - - - - - - - -	0.5 - 16.4 DSS-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2	-12, Station MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8 - - - -		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Gased on current/developing bankfull feature BF Mean Depth (ft) BF Mean Depth (ft) BF Cross-sectional Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²)	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150	0.5 - 16.4 pss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2 >150	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8 - - - - -		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY-
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150 8.5	0.5 - 16.4 pss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2 >150 8.5	-12, Statior MY3 7.6 0.6 13.1 4.4 0.9 >150 6.9 1.17 8.8 0.5 1208.8 - - - - - - - - -		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY-
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Entrenchment Ratio Bank Height Ratio	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150 8.5 1.00	0.5 - 16.4 bss-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 11.1 7.5 1.2 >150 8.5 1.00	-12, Statior MY3 7,6 0,6 13,1 4,4 0,9 >150 6,9 1,17 8,8 0,5 1208.8 - - - - - - - - - -		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+
Hydraulic Radius (ft) Cross Sectional Area between end pins (ft ²) d50 (mm) Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Dept Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft ²) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	0.6 31.2 Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.20 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.1 7.3 1.4 >150 9.4 1.20 10.0	0.5 - 20.4 Cro MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.30 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150 8.0 1.3 >150 8.0 1.3 >150 8.0 1.3 >150 1.0 1.3 - 1.0 - 1.0 - - - - - - - - - - - - -	0.5 - 16.4 DSS-section X MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.30 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2 >150 8.5 1.00 10.8	-12, Statior MY3 7,6 0,6 13,1 4,4 0,9 >150 6,9 1,17 8,8 0,5 1208,8 - - - - - - - - - - - - - - -		,	MY+	-	-	-	-	MY4	MY5 MY+	-	-	-	-	4 MY5	MY+	-	-	-	-	MY4	MY5	MY+

Appendix E Wetland Assessment Data

Includes:

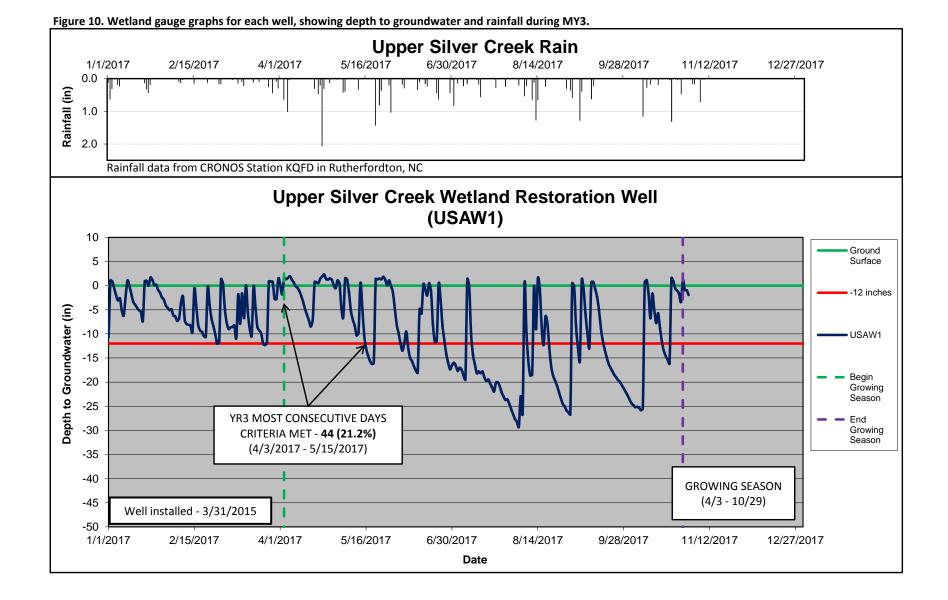
- Figure 9. Observed Rainfall vs Historical Average
- Figure 10. Wetland Gauge Graphs
- Table 12.
 Wetland Gauge Attainment data
- Figure 11. Wetland Photo Log

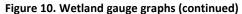


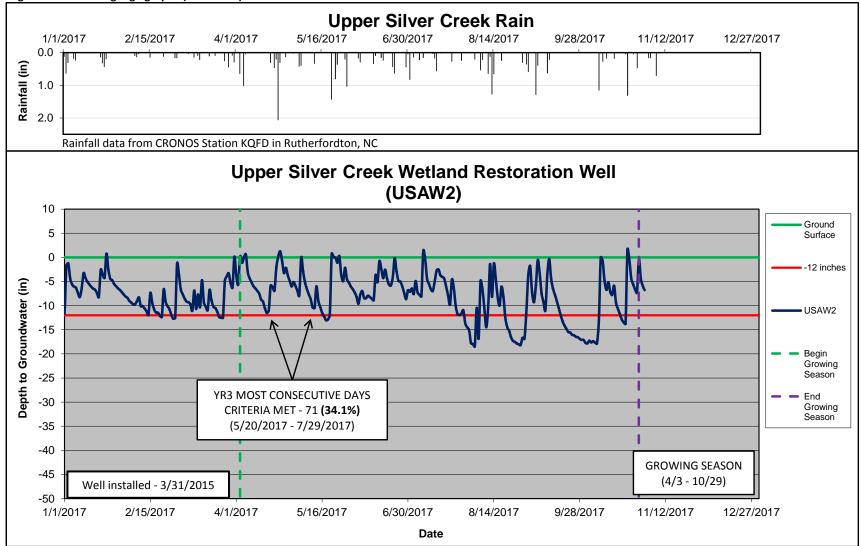


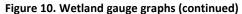
Historic rainfall data from Burke County Soil Survey, NRCS, pg. 420

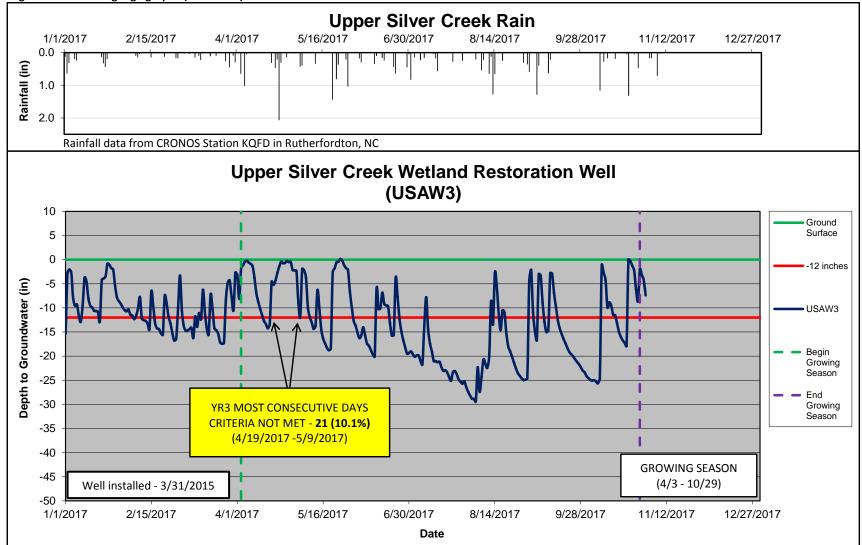
Rainfall data source for Rutherfordton, NC: http://climate.ncsu.edu/cronos?station=KFQD&temporal=hourly Rainfall data source for Spindale, NC: http://climate.ncsu.edu/cronos?station=SPIN&temporal=hourly Rainfall data source for Marion, NC: http://climate.ncsu.edu/cronos?station=NGRF&temporal=hourly Rainfall data source for Morganton, NC: http://climate.ncsu.edu/cronos?station=KMRN&temporal=hourly Rainfall data source for historic averages: Morganton, NC WETS Table (1971-2016)

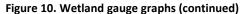


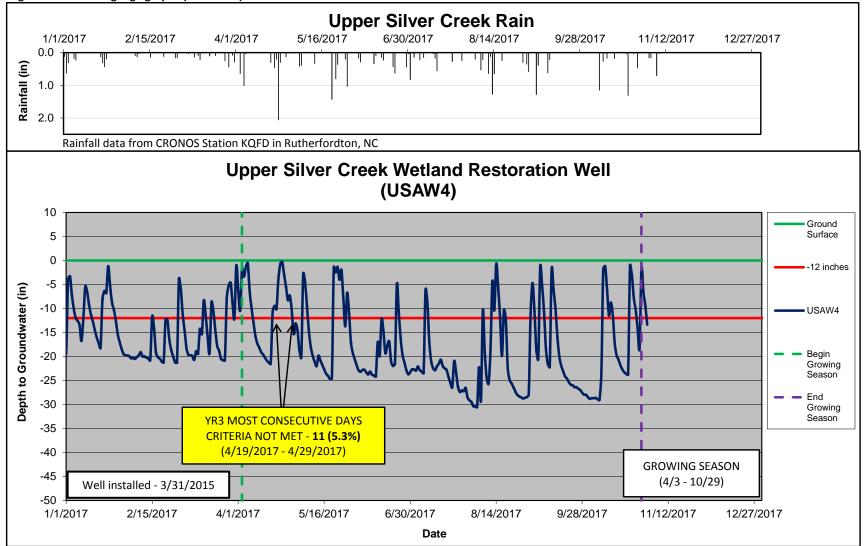


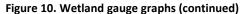


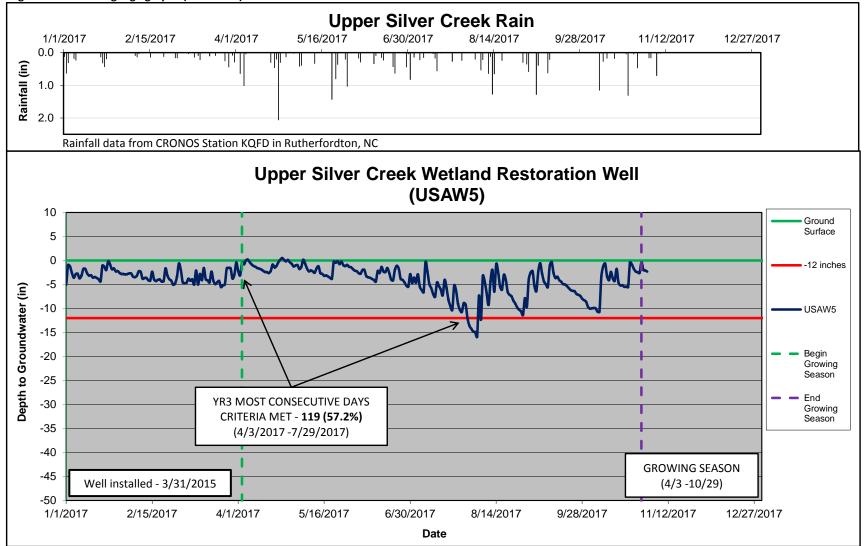


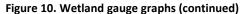


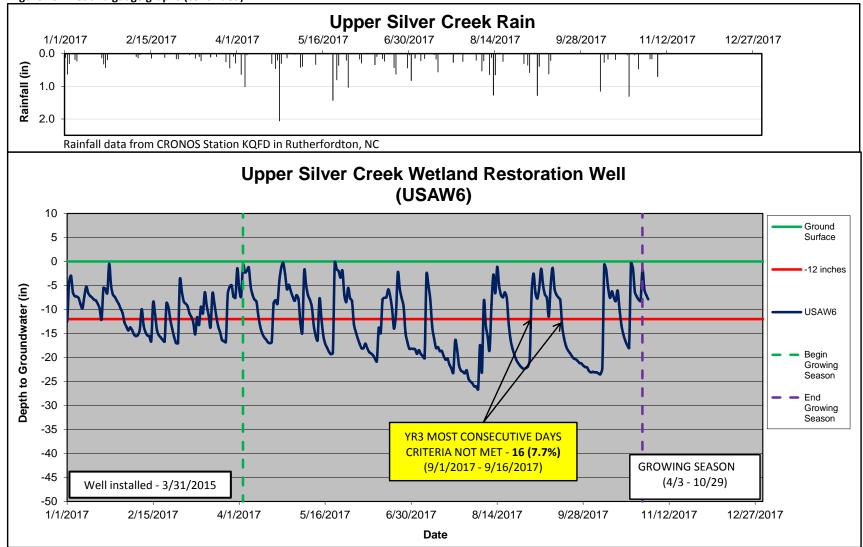


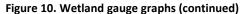


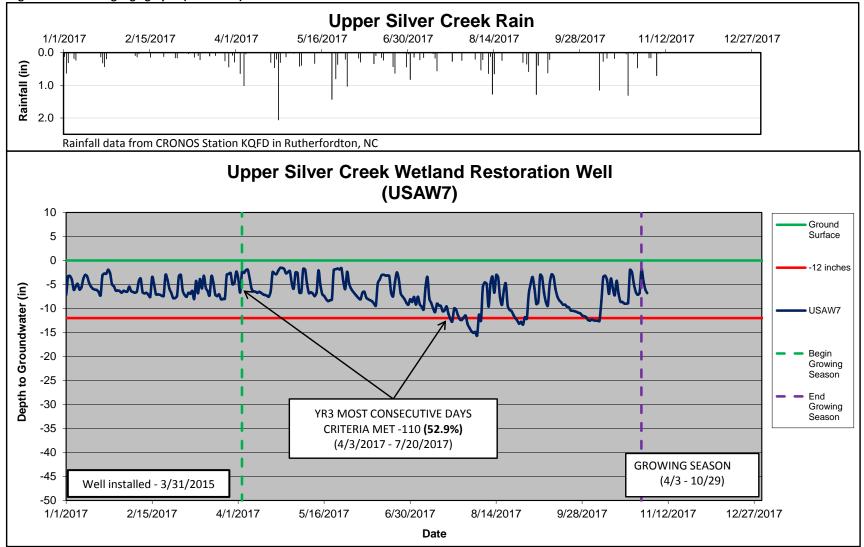


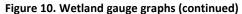


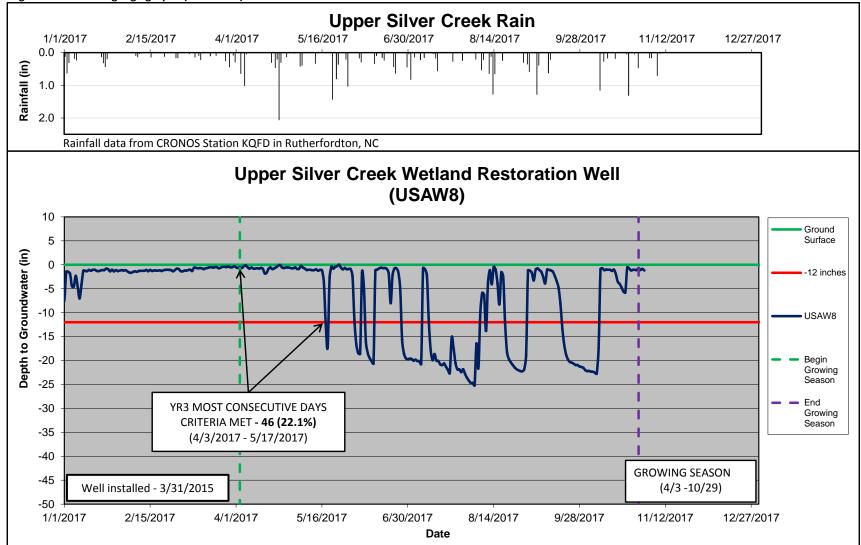


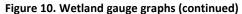


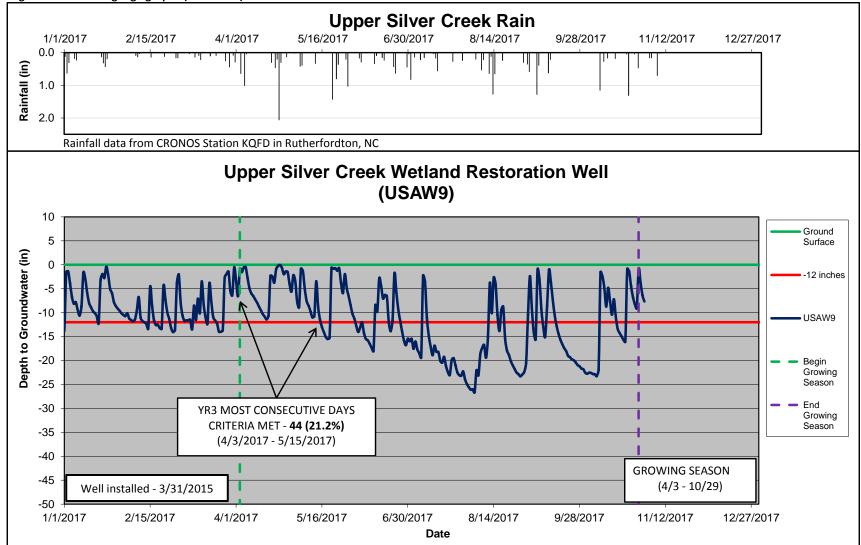


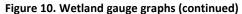


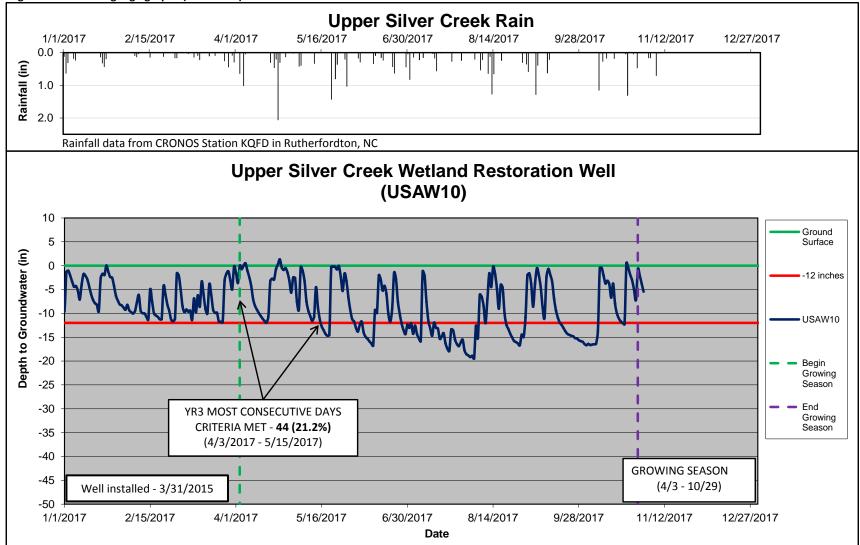


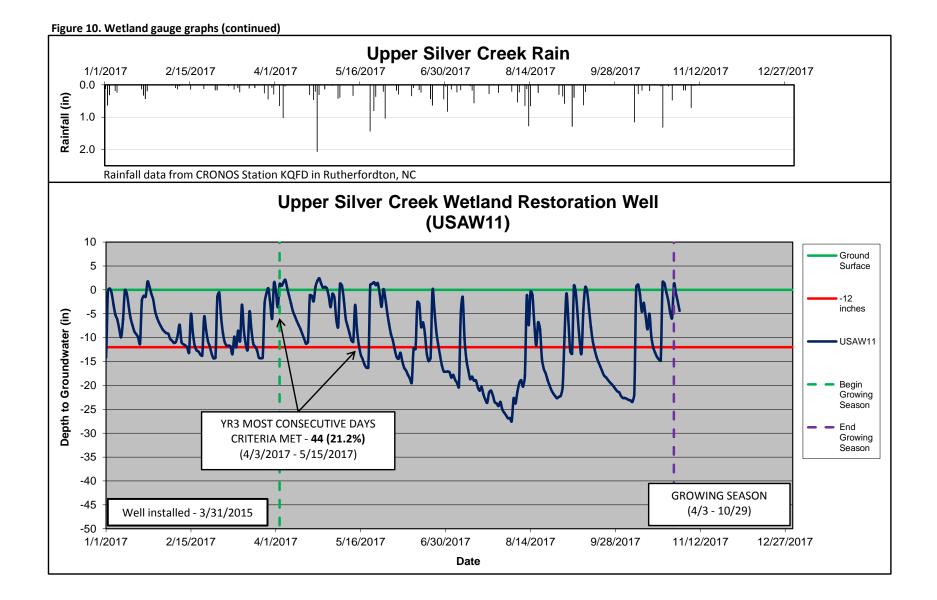


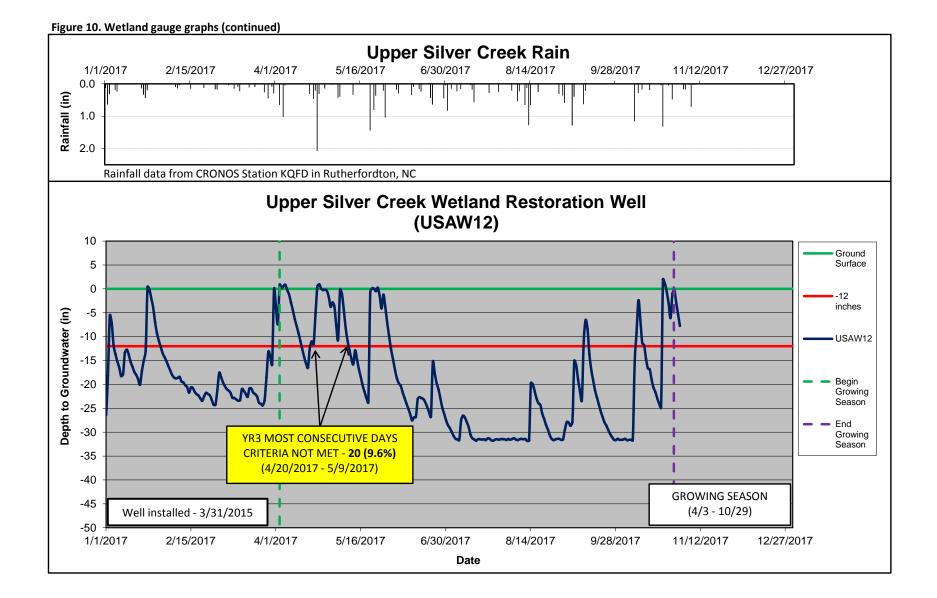












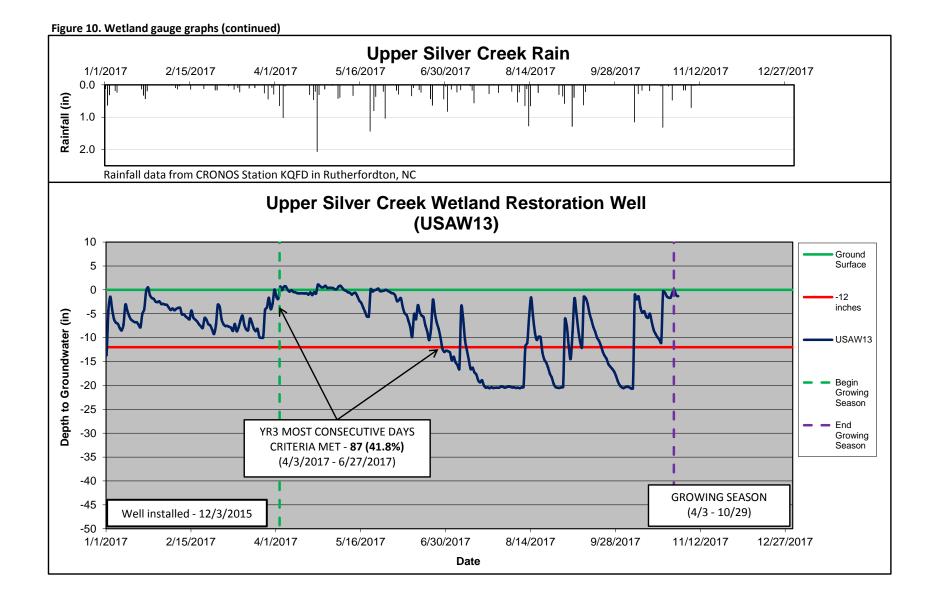


Table 12. Wetland gauge attainment data, summary of groundwater gauge results for
MY 1 through 5 at the U. Silver Creek Project Site, DMS Project #94645.

	Success Criteria Achieved/Max Consecutive Days During Growing Seaso					
Gauga	(Percentage)					
Gauge	Monitoring Year 1 (2015)	Monitoring Year 2 (2016)	Monitoring Year 3 (2017)	Monitoring Year 4 (2018)	Monitoring Year 5 (2019)	
USAW1	Yes/36.5 days (17.5 %)	No/9.5 days (4.6%)	Yes/44 days (21.2%)			
USAW2	No/21.8 days (10.5 %)	No/12.3 days (5.9%)	Yes/71 days (34.1%)			
USAW3	No/20.3 days (9.7 %)	No/7 days (3.4%)	No/21 days (10.1%)			
USAW4	No/5.5 days (2.6 %)	No/5 days (2.4%)	No/11 days (5.3%)			
USAW5	Yes/80.5 days (38.7 %)	Yes/77.5 days (37.3 %)	Yes/119 days (57.2%)			
USAW6	No/19.5 days (9.4 %)	No/7 days (3.4 %)	No/16 days (7.7 %)			
USAW7	Yes/74.5 days (35.8 %)	Yes/72.5 days (34.9 %)	Yes/110 days (52.9%)			
USAW8	No/2.5 days (1.2 %)	No/5.8 days (2.8 %)	Yes/46 days (22.1%)			
USAW9	Yes/35.5 days (17.1 %)	No/13.5 days (6.5 %)	Yes/44 days (21.2%)			
USAW10	No/19.8 days (9.5 %)	No/9.8 days (4.7 %)	Yes/44 days (21.2%)			
USAW11	No/18.5 days (8.9 %)	No/11.5 days (5.5 %)	Yes/44 days (21.2%)			
USAW12	No/17.5 days (8.4 %)	No/7.3 days (3.5 %)	No/20 days (9.6%)			
USAW13		Yes/55.5 days (26.7 %)	Yes/87 days (41.8%)			

Figure 11. U. Silver Creek Wetland Photo Log, MY3 (2017)



Photo 1. Wetland Photo Point – W1, replicates photo 50 in Baseline Report (November 1, 2017).



Photo 3. Wetland Photo Point – W3 replicates photo 52 in Baseline Report (November 1, 2017).



Photo 2. Wetland Photo Point – W2, replicates photo 51 in Baseline Report (November 1, 2017).



Photo 4. Wetland Photo Point – W4, replicates photo 53 in Baseline Report (November 1, 2017).



Photo 5. Wetland Photo Point – W5, replicates photo 54 in Baseline Report (November 1, 2017).



Photo 6. Wetland Photo Point – W6, replicates photo 55 in Baseline Report (November 1, 2017).



Photo 7. Wetland Photo Point – W7, replicates photo 56 in Baseline Report (November 1, 2017).



Photo 8. Wetland Photo Point – W8, replicates photo 57 in Baseline Report (November 1, 2017).



Photo 9. Wetland Photo Point – W9, replicates photo 58 in Baseline Report (November 1, 2017).

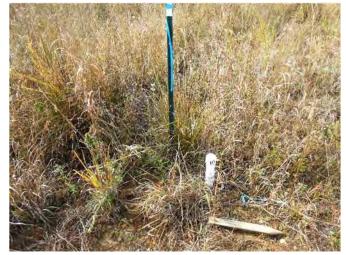


Photo 10. Wetland Photo Point – W10, replicates photo 59 in Baseline Report (November 1, 2017).

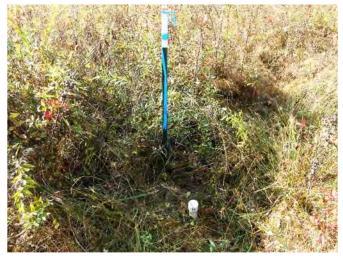


Photo 11. Wetland Photo Point – W11, replicates photo 60 in Baseline Report (November 1, 2017).



Photo 12. Wetland Photo Point – W12, replicates photo 61 in Baseline Report (November 1, 2017).



Photo 13. Wetland Photo Point – W13 added between time of baseline and MY1 survey, (April 1, 2015)