Upper Silver Creek Restoration Project Year 2 Monitoring Report

Burke County, North Carolina NCDMS Project ID Number – 94645 Catawba River Basin: 03050101-050050



Project Info:	Monitoring Year: 2 of 5 Year of Data Collection: 2016 Year of Completed Construction: 2015 Submission Date: December 2016
Submitted To:	NCDEQ – Division of Mitigation Services 5 Ravenscroft Drive, Suite 102 Asheville, NC 28801 NCDEQ Contract ID No. 003270

Upper Silver Creek Restoration Project Year 2 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

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	1
2.0	METHODOLOGY	2
2.1	Vegetation Assessment	3
2.2 2	Stream Assessment	
2	2.2.2 Hydrology	4
2.3	Wetland Assessment	
3.0	REFERENCES	5

APPENDICES

Appendix	Α	General	Figur	res and Plan Views
II I		Figure	1	Project Vicinity Map and Directions
		Figure	2	Current Condition Plan View (CCPV) – Overview Map
		8		Figure 2A CCPV North half of Project
				Figure 2B CCPV South half of Project
				rigue 2D Cer + South hair of Project
Appendix	В	General	Proje	ect Tables
		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
Appendix	С	Vegetatio	on As.	sessment Data
		Table	5	Vegetation Plot Mitigation Success Summary
		Table	6	Vegetation Metadata
		Table	7	Stem Count Arranged by Plot and Species
		Figure	4	Upper Silver Creek – Vegetation Plot Photos
Appendix	D	Stream A	ssess	ment Data
		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 2 Stream Summary
14010		

Table11Morphology and Hydraulic Monitoring Summary

Appendix E Hydrologic Data

- Figure 9 Observed Rainfall vs. Historical Average
- Figure 10 Wetland Gauge Graphs
- Table12Wetland Gauge Attainment Data
- Table12aWetland Restoration Area Well Success
- Figure 11 U. Silver Creek Wetland Photo Log

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, Baker 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 I-40 and to the north 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 the winter of 2015/2016, there were a number of high flow events. At least one of those inundated the floodplain, depositing woody debris and other flotsam in wrack lines well away from the top of bank. This flooding caused a number of channel and structure issues that are presented in the CCPV, tables and photos included with the e-file. These were all repaired in March of 2016 and functioned well through the summer with no further problems. Year 2 (MY2) monitoring indicated that the planted acreage was functioning well with no bank, bench or flood plain areas having bare areas of a significant size. The only invasive vegetation with significant coverage was Chinese privet, which was located in the existing forested area on the right bank

of Silver Creek, downstream of the confluence with UT2. We will continue to treat privet within this area with herbicide to minimize the population. We continue to have a minor issue with mowing encroachments. Most of the sites where mowing encroachments occurred last year were avoided this year; however, we still have some mowing affecting the easement and will mark these areas to limit mowing access. We have established and are monitoring fourteen (14) vegetation plots at this site. The average density of total planted stems following the MY2 growing season is 740 stems per acre (n=14), with an additional average 43 volunteer stems per acre. Based on the average density of 740 stems per acre, the Site is on track to meet the established success criteria.

Stream geomorphological stability and performance during MY2 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 MY2. 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 and on the three UTs had stabilized at sizes similar to what was seen last year. This indicates a properly functioning system, as there were no mid-channel bars or other sediment transport issues.

Wetland monitoring during MY2 demonstrated that three of the thirteen groundwater monitoring wells located on the Site met the wetland success criteria as stated in the Site Mitigation Plan. The gauges that met success criteria (USAW5, USAW7 and USAW13) demonstrated consecutive hydroperiods of 12 percent or greater, ranging from 26.7 to 37.3 percent of the growing season. The gauges that did not meet success criteria demonstrated consecutive hydroperiods of 12 percent of fthe growing season. Rainfall near the project (Morganton, NC) was determined to be at or below the 30th percentile for six of the twelve months of the year. The last half of September, October, and November, were almost completely dry at all four monitoring sites and Burke County was classified as being in a Severe Drought throughout November (NC Drought Management Advisory Council). Therefore, 2016 is considered to be below the normal precipitation range for the growing season. The dry conditions documented in this area are likely the reason that many of our gauges failed to meet the established success criteria.

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 (NCEEP 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 2 monitoring data were collected in October and November 2016. Site photographic data was collected in August 2016.

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 2 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 2 growing season was 740 stems per acre (n=14). There were also an average of 43 volunteer stems per acre, composed of seven different tree species. With an average density of 740 stems per acre, the Site is on track to meet the minimum interim success criteria of 320 stems per acre by the end of Year 3, and the final success criteria of 260 stems per acre by the end of Year 5.

There was only one Vegetation Problem Area observed during MY2 and it is associated with the invasive species Chinese privet, *Ligustrum sinense*. Our observations indicated that the area of primary infestation by this species was the floodplain along the right bank of Silver Creek, downstream of the confluence with UT2. To control this invasive species, this area will be treated in 2017 during the appropriate treatment window. We identified four Mowing Encroachment Areas. There were two areas along the easement line where the landowner encroached into the easement while attempting to mow outside of the easement line. We think this occurred because he is mowing with a 15 foot wide bush-hog and it crosses the line in a couple of spots were trees (outside the easement) limit its movement. Encroachment in two other areas indicate that the landowner did not understand where the line was located. These areas will be pointed out to the landowner and the easement line at all encroachment areas will be better marked with witness posts before the landowner needs to mow again.

No other areas of concern regarding the existing vegetation was observed along Silver Creek or the tributaries. Year 2 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. This survey system collects point data with an accuracy of less than one tenth of a foot.

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 MY2 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 MY2 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 prevailing severe to extreme drought conditions that existed during the 4 to 5 months preceding our survey. 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 and performing at 100 percent for all parameters on all reaches. Flooding at this site during MY2, as described below, caused bank scour (8 locations) and damage to structures (5 locations) at the site. The locations, descriptions and photos of this damage are included in the Stream Problem Areas Table on the MY2 data electronic file. These sites were repaired in March 2016 and have functioned well during the rest of MY2. Overall, channel morphology is responding as designed and meeting project goals.

Pebble count data for MY2 indicates that the shift to smaller particles on Silver Creek and on the three UTs has stabilized at sizes similar to what was seen last year. This indicates that smaller native bed material is being transported into project reaches and has shifted pebble size classes away from the constructed riffle particle sizes, seen in the As-built data. This indicates a properly functioning system, as there were no mid-channel bars or other sediment transport issues.

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 15 inches and 5 inches above bankfull, respectively. Physical indicators of bankfull flows, such as wrack lines and debris on the bank, were observed throughout the reach. We present at least five possible high water events, which could have caused the high flow recorded on project site crest gauges and shown in Table 9, the bankfull verification information. The most significant flow recorded was on December 29, 2015 and this storm event most likely caused valley wide flooding and the evidence of flooding that we observed in February. 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 in order to document the hydrologic conditions during the monitoring period. The installations followed USACE protocols (USACE 1997). Groundwater data collected during Year 2 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. Success criteria for wetland hydrology will be based on standards for atypical wetland areas (USACE, 2005). 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 MY2 demonstrated that three of the thirteen groundwater monitoring wells located on the Site met the wetland success criteria as stated in the Site Mitigation Plan. The gauges that met success criteria (USAW5, USAW7 and USAW13) demonstrated consecutive hydroperiods of 12 percent or greater, these ranged from 26.7 to 37.3 percent of the growing season. The gauges that did not meet success criteria (USAW1, USAW2, USAW3, USAW4, USAW6, USAW8, USAW9, USAW10, USAW11, and USAW12) demonstrated consecutive hydroperiods of 12 percent or less, with a range from 2.4 percent to 6.5 percent of the growing season. The rain data for the region (Figure 8) shows that rainfall throughout the year was, at times, well below average. Baker will continue to monitor the groundwater hydrology of the Site during Monitoring Year 3.

To evaluate annual rainfall in the project vicinity we utilized four USGS data recording stations that are within close proximity (11.3 to 15.7 miles from the site) to the project site. The CHRONOS stations that were used in the previous report had recorded several gaps in the data, and two were offline at the time this report was developed. The data from these stations was not sufficient to use in this yearly analysis of rainfall for the county, so the USGS stations were used instead. These data indicate that 2016 was relatively dry through winter, spring and summer with the exception of April and August, which were both above normal. Many of the months, especially later in the year, were exceptionally dry and were well below the 30th percentile. Rainfall near the project (Morganton, NC) was determined to be at or below the 30th percentile for six of the twelve months of the year. The last half of September, October, and November, were almost completely dry at all four monitoring sites and the region was classified as being in an Extreme Drought. Therefore, 2016 is considered to be below the normal range for the growing season. The dry conditions documented in this area are likely the reason that many of our gauges failed to meet the established success criteria.

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.

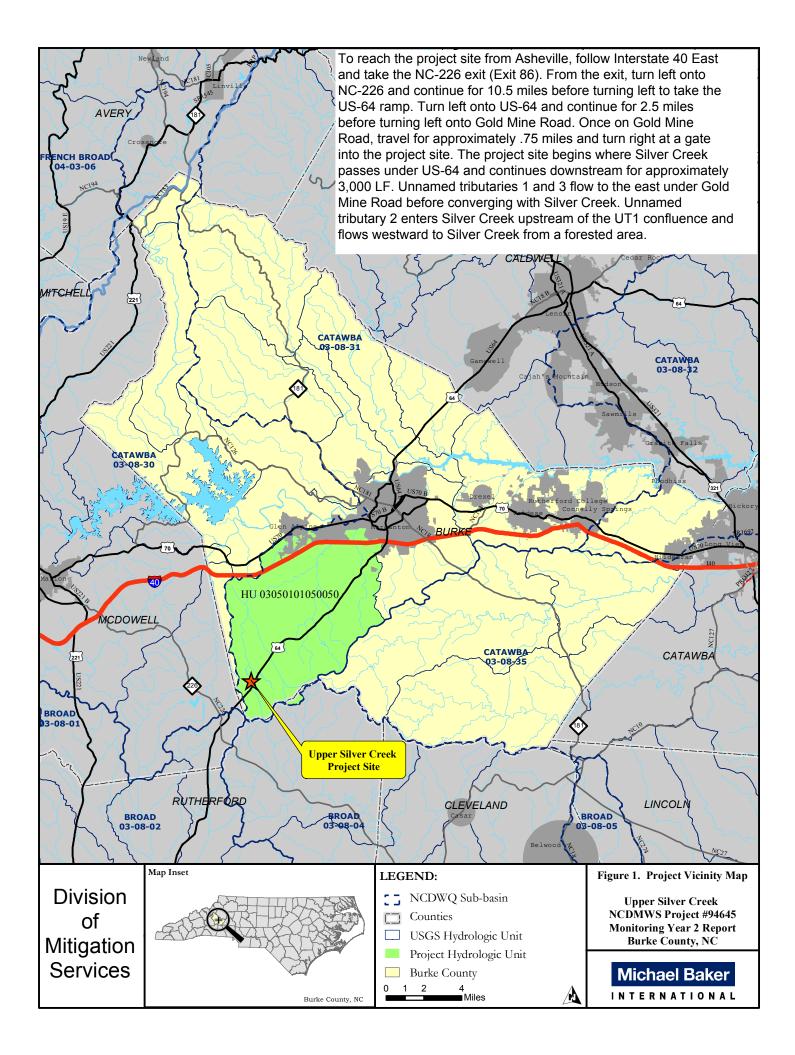
- Lee, M., Peet R., Roberts, S., Wentworth, T. 2007. CVS-NCEEP Protocol for Recording Vegetation, Version 4.1.
- North Carolina Ecosystem Enhancement Program (NCEEP). 2009. Guidance and Content Requirements for EEP Monitoring Reports Version 1.2.1. December 1, 2009.
- Rosgen, D. L. 1994. A Classification of Natural Rivers. Catena 22:169-199.
- Schafale, M. P., and A. S. Weakley. 1990. Classification of the natural communities of North Carolina, third approximation. North Carolina Natural Heritage Program. Division of Parks and Recreation, NCDENR. Raleigh, NC.
- United States Army Corps of Engineers (USACE). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. Environmental Laboratory. US Army Engineer Waterways Experiment Station. Vicksburg, MS.
- ____. 1997. Corps of Engineers Wetlands Research Program. Technical Note VN-rs-4.1. Environmental Laboratory. U.S. Army Engineer Waterways Experiment Station. Vicksburg, MS.
- _____. 2003. Stream Mitigation Guidelines, April 2003, U.S. Army Corps of Engineers. Wilmington District.
- _____. 2005. "Technical Standard for Water-Table Monitoring of Potential Wetland Sites," WRAP Technical Notes Collection (ERDC TN-WRAP-05-2), U.S. Army Engineer Research and Development Center. Vicksburg, MS.

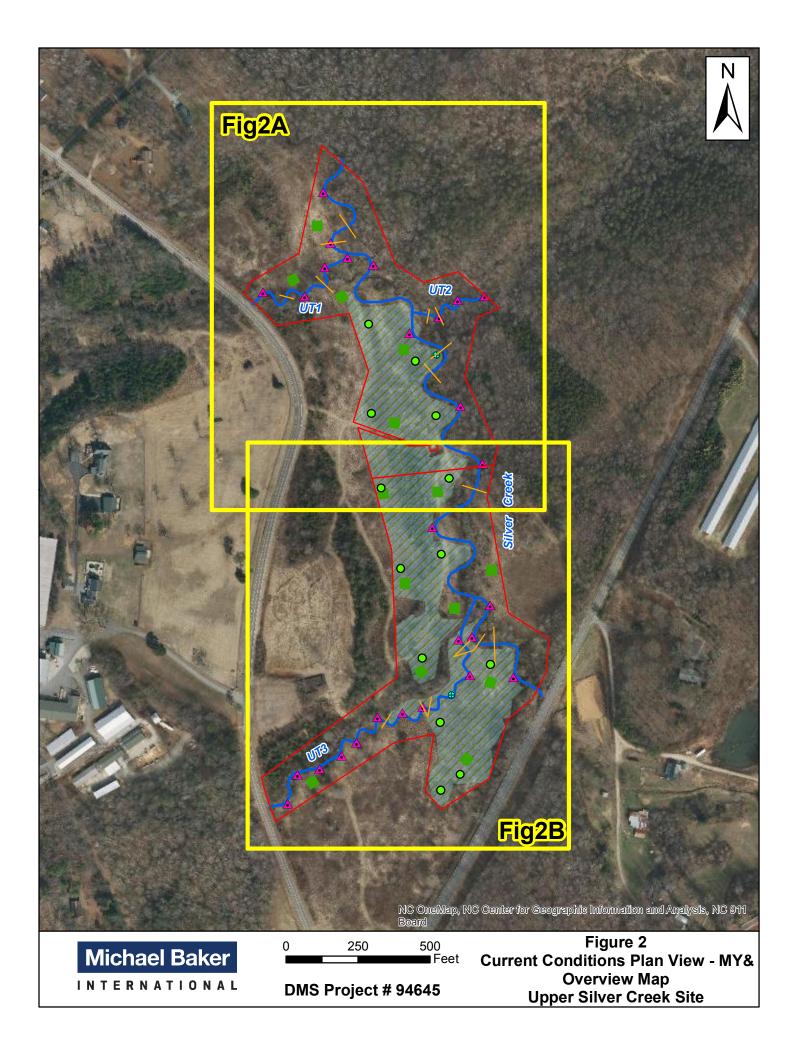
Appendix A

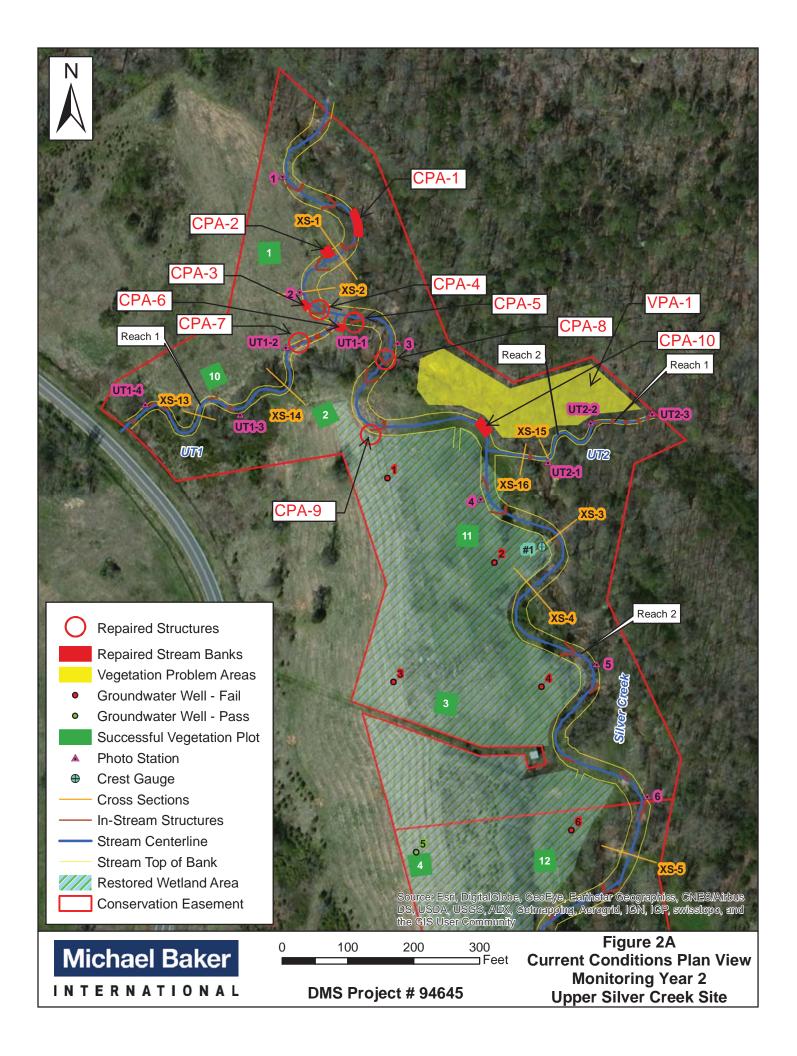
General Figures and Plan Views

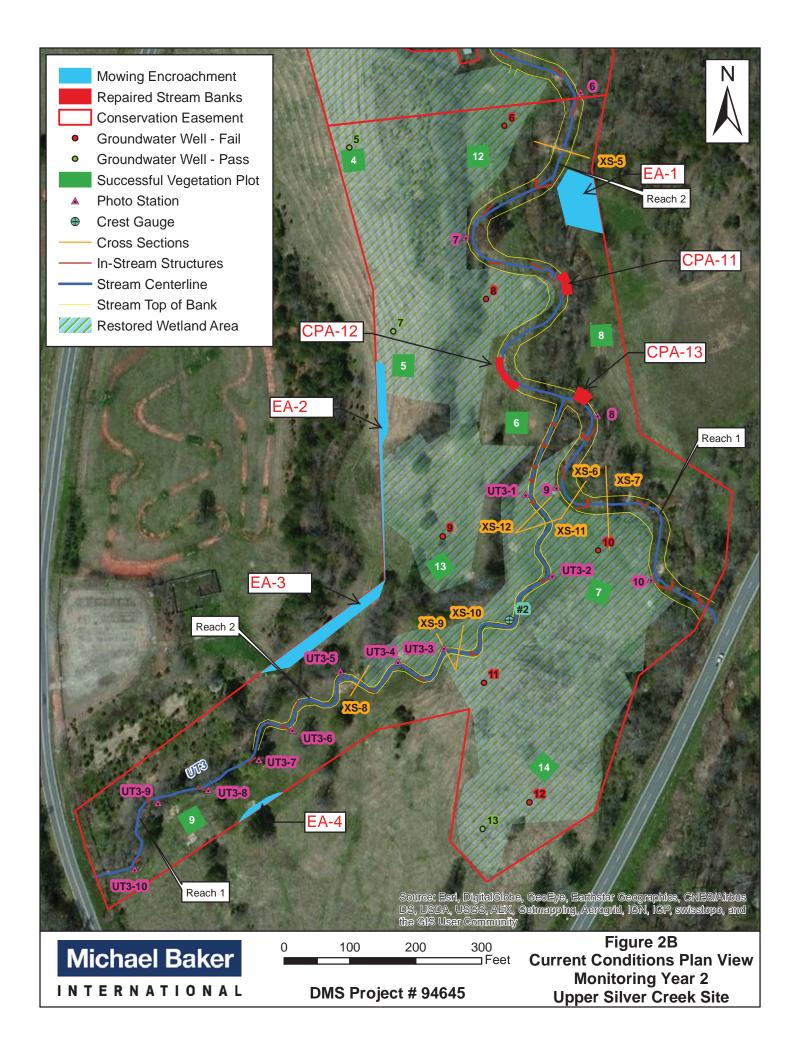
Includes:

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









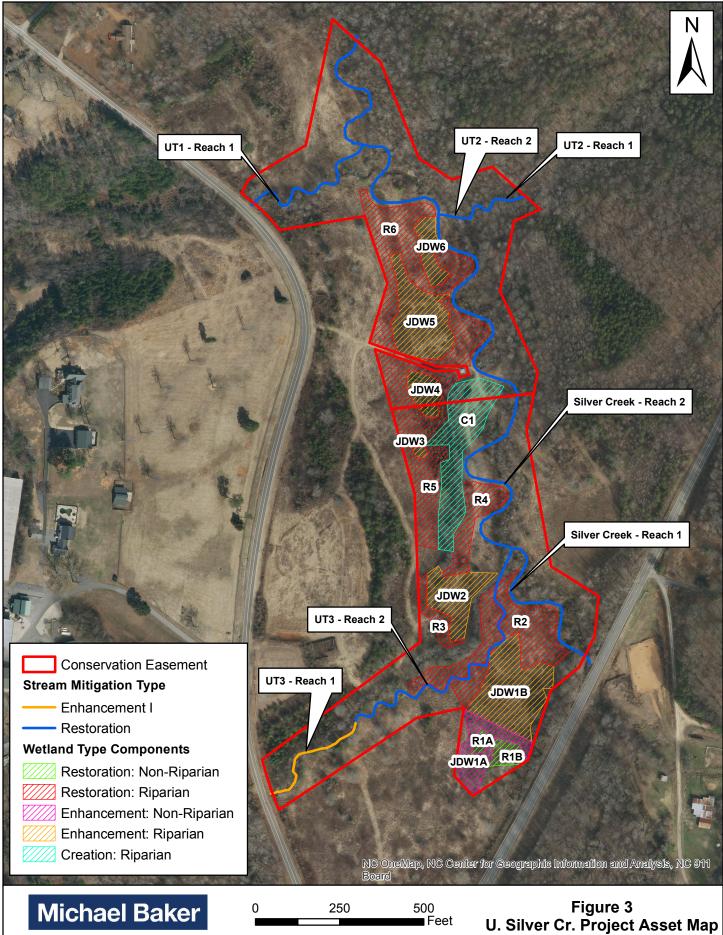
Appendix B General Project Tables

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

			1			Mitigati	on Credits		1		
Stre		eam	Riparian Wetl		and	Non-	riparian Wo	etland	Buffer	Nitrogen Nutrient Offset	Phosphorus Nutrient Offset
Type R EII R E					С	R	Е	С			
Totals	4,843 SMU	137 SMU	4.67 WMU	1.43 WMU	0.33 WMU						
						Project C	Components		1		
Project Component or Reach ID		Stat	ioning/ Loc	ation	Existing 1 Acre	-	Арри	roach	Restoration/ Restoration Equivalent	Restoration Footage or Acreage	Mitigation Rati
STREAM	S										
Silver Creek				2643	B LF						
	Reach 1		+32 to 8+7				Restora	tion - PII	838 SMU	838 LF	1:1
	Reach 2	8	+70 to 30+	48			Restora	tion - PI	2,178 SMU	2178 LF	1:1
JT1	Decek 1		107 t- 5 · 0	0	478	LF	Restora	tion D	405 0111	405 - 5	A . A
JT2	Reach 1	0	+07 to 5+0	۷	187 LF		Restora	10011 - PI	495 SMU	495 LF	1:1
<u></u>	Reach 1	0	+00 to 1+0	3	107		Restora	tion - PI	103 SMU	103 LF	1:1
	Reach 2	ach 2 1+03 to 3+10					Restora	tion - PI	207 SMU	207 LF	1:1
JT3				_	1,16	2 LF					
		+00 to 3+4 +43 to 13+6					ement I	137 SMU	343 LF	2.5:1	
	Reach z	3-	+43 10 13+1	00			Restora	1001 - P1	1,022 SMU	1,022 LF	1:1
VETLAN	IDS	Se	e plan she	ets							
JDW1a (NR)			•		0.42	AC	Enhand	cement	0.21 WMU	0.42 AC	2:1
	1b (Ri)				1.01		Enhand		0.51 WMU	1.01 AC	2:1
	/2 (Ri)				0.51		Enhand		0.25 WMU	0.51 AC	2:1
	/3 (Ri) /4 (Ri)				0.03		Enhano Enhano		0.02 WMU 0.12 WMU	0.03 AC 0.24 AC	2:1 2:1
	/5 (Ri)				0.81	-	Enhand		0.40 WMU	0.81 AC	2:1
	/6 (Ri)				0.25	AC	Enhand	cement	0.13 WMU	0.25 AC	2:1
	(NR)				0		Resto		0.06 WMU	0.06 AC	1:1
	8 (NR)				0		Resto		0.15 WMU	0.15 AC	1:1
	(Ri) (Ri)				0		Restoration Restoration		1.22 WMU 0.18 WMU	1.22 AC 0.18 AC	1:1 1:1
	(Ri)				0		Resto		0.44 WMU	0.18 AC	1:1
	(Ri)				0		Resto	ration	1.29 WMU	1.29 AC	1:1
	(Ri)				0		Resto		1.54 WMU	1.54 AC	1:1
C1	(Ri)				0		Crea	ation	0.33 WMU	0.99 AC	3:1
						Componen	t Summatio	n			
Re	estoration I	level	Strea	m (LF)	Ripari	an Wetlano	d (AC)	Non-ripa	rian Wetland (AC)	Buffer (SF)	Upland (AC)
				. 10	Riverine	Non-R	liverine		0.01		
	Restoration		4,	843	4.67	-			0.21 0.42		
	Enhancemer Enhancemen		1	43	2.85				0.42		
	Creation	. 11			0.99						
	Preservatio	n									
High	Quality Pres	ervation									
		- ·					Elements				
Element		Location	Purpose/Fu	inction		Notes					
3MP Elen	nents: BR=	Bioretention	Cell; SF= S	and Filter; S	W= Stormwa	ter Wetland	; WDP= We	t Detention	Pond; DDP= Dry Det	ention	
		S= Grassed									

MICHAEL BAKER ENGINEERING, INC. YEAR 2 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT 94645



DMS Project # 94645 INTERNATIONAL

Upper Silver Creek Site

Table 2. Project Activity and Reporting History Upper Silver Creek Restoration Project: DMS Project ID 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							
Year 3 Monitoring	Dec-17	N/A	N/A							
Year 4 Monitoring	Dec-18	N/A	N/A							
Year 5 Monitoring	Dec-19	N/A	N/A							

Table 3. Project Contacts Table	
Upper Silver Creek Restoration Project: D	MS Project ID No. 94645
Designer	
Michael Baker Engineering, Inc.	797 Haywood Rd Suite 201
Michael Baker Engineering, me.	Asheville, NC 28806
	Contact:
	Micky Clemmons, Tel. 828-412-6100
Construction Contractor	
River Works, Inc.	6105 Chapel Hill Road
reiver works, me.	Raleigh, NC 27607
	Contact:
	Phillip Todd, Tel. 919-582-3575
Planting Contractor	
River Works, Inc.	6105 Chapel Hill Road
	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
Monitoring Performers	Dykes and Son (trees), 931-668-8833
Monitoring Performers	797 Haywood Rd Suite 201
Michael Baker Engineering, Inc.	Asheville, NC 28806
Stream Monitoring Point of Contact	<u>Contact:</u> 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 2 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Table 4. Project Attributes												
Upper Silver Creek Restoration Project: D		- 4 •										
Due is at Name	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 0.05, UT3 0.17											
Project Drainage Area Percentage of	<2%											
Impervious Area	~2.70											
	Deciduous Forest (64		W	oody Wetlands (1%)								
USGA Land Use Classification	Evergreen Forest (39	%)		loped, Open Space (5%)								
USOA Land Use Classification	Shrub/Scrub (5%)]	Pasture/Hay (14%)								
	Grassland/Herbaceous	(6%)		- · · · ·								
	Forest (59%)		•									
NCDMS Land Use Classification for Silver	Agriculture (23%)											
Creek Watershed	Impervious Cover (2.9%)											
	Stream Reach Summar	v Information										
Parameters	Mainstem - Reach 1		- Reach 2									
Length of Reach (LF)	838		78									
Valley Classification (Rosgen)	VIII	/	III									
Drainage Area (AC)	1,746		47									
NCDWR Stream Identification Score	49.5	/	9.5									
NCDWR Water Quality Classification	49.5 C		2									
NCDWK water Quanty Classification	E		E									
Morphological Description (Rosgen stream												
type)	Incised channel, little connection to	,										
	floodplain		lplain									
Evolutionary Trend	E→G, E→C/F	E→G, I	E→C/F									
Underlying Mapped Soils	AaA, FnA, UnB											
Drainage Class	Somewhat poorly to well drained	y to well drained										
Soil Hydric Status	Site-specific	Site-si	pecific									
Average Channel Slope (ft/ft)	0.004		004									
FEMA Classification	Zone AE		e AE									
I Elvir Classification	Piedmont/Mtn. Mixed Bottomland		Aixed Bottomland									
Native Vegetation Community	Hardwoods		woods									
Percent Composition of Exotic/Invasive Vegetation	10%	5	%									
Parameters	UT1 - Reach 1	UT2 - 1	Reach 1	UT2 - Reach 2								
Length of Reach (LF)	495	10	03	207								
Valley Classification (Rosgen)	III		II	III								
Drainage Area (AC)	177		2	32								
NCDWR Stream Identification Score	47.5		-5	45								
NCDWR Water Quality Classification	C		2	C								
	Gc	channelized B		channelized B								
Morphological Description (Rosgen stream	Incised channel, little connection to	charme										
type)	floodplain		itched channel	channelized/ditched channel								
Evolutionary Trend	Gc→F		F→C	$B \rightarrow F \rightarrow C$								
Underlying Mapped Soils	AaA, FnA	Ui	nB	UnB, FnA								
Drainage Class	Somewhat poorly to well drained	Somewhat poorl	y to well drained	Somewhat poorly to well drained								
Soil Hydric Status	Site-specific	Site-si	pecific	Site-specific								
Average Channel Slope (ft/ft)	0.016)37	0.037								
FEMA Classification	N/A		/A	N/A								
	Piedmont Dry-Mesic Oak and	11	121	11/23								
Native Vegetation Community	Hardwoods to Mixed Bottomland Hardwoods		Aixed Bottomland	Piedmont/Mtn. Mixed Bottomland Hardwoods								

MICHAEL BAKER ENGINEERING, INC. YEAR 2 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Parameters	UT3 - I	Reach 1	UT3 - 1	Reach 1		
Length of Reach (LF)	34	12	1,0	006	1	
Valley Classification (Rosgen)	Ι	II	I	II		
Drainage Area (AC)	12	23	12	23		
NCDWR Stream Identification Score	49	.75	49	.75		
NCDWR Water Quality Classification	(2	(3		
Mamphalagical Description (Descent stream	B	/E]	E		
Morphological Description (Rosgen stream	Aggrading at upp	er end then stable	Incised channel, l	ittle connection to		
type)	to incising a	at lower end	flood	lplain		
Evolutionary Trend	B/E	→G	E-	→G		
Underlying Mapped Soils	Aa	ıА	AaA	, FnA		
Drainage Class	Somewhat poorl	y to well drained	Somewhat poorl	y to well drained		
Soil Hydric Status	Site-s	pecific	Site-s	pecific		
Average Channel Slope (ft/ft)	0.0	15	0.0)15	1	
FEMA Classification	N	A	N	/A]	
Native Vegetation Community	Piedmont Dry- Hardy	Mesic Oak and		fixed Bottomland woods		
Percent Composition of Exotic/Invasive	20			%		
Vegetation						
-		land Summary I				
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
Drainage Class	Somewhat poorly to well drained	Somewhat poorly to well drained	Somewhat poorly to well drained	Somewhat poorly to well drained	Somewhat poorly to well drained	Somewhat poorly to well drained
Soil Hydric Status	Site-specific	Site-specific	Site-specific	Site-specific	Site-specific	Site-specific
Source of Hydrology	Hillslope seepage; Baseflow; Overbank Flooding	Hillslope seepage; Baseflow; Overbank Flooding	Hillslope seepage; Baseflow; Overbank Flooding	Hillslope seepage; Baseflow; Overbank Flooding	Hillslope seepage; Baseflow; Overbank Flooding	Hillslope seepage Baseflow; Overbank Flooding
Hydrologic Impairment	Partially	Yes	No	Partially	Partially	Partially
Native Vegetation Community	Piedmont/Mour	tain Mixed Bottor		Forest. 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	erations	1	1	
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		Categorica	l Exclusion
Endangered Species Act	Yes		Yes		Categorica	l Exclusion
Historic Preservation Act	Yes		Yes		Categorica	l Exclusion
Coastal Zone Management Act (CZMA)/	No		N/A		N	/A
Coastal Area Management Act (CAMA)	INU		11/21		11	/ / 1
FEMA Floodplain Compliance	Yes		Yes		Categorica	l Exclusion
Essential Fisheries Habitat	No		N/A		N	/A
Notes: 1. See Figure 2.3 of Mitigation Plan for key t 2. All wetlands had been disturbed to some d	o soil series symbols		tod. A a a14	1	. , ,.	• . • • .

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.

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

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 2 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645 4.

Appendix C Vegetation Assessment Data

Includes:

Table 5. Vegetation Plot Mitigation Success SummaryTable 6. CVS Vegetation Metadata TableTable 7. Stem Count Arranged by Plot and SpeciesFigure 4. Vegetation Monitoring Plot Photos

Table	Table 5. Vegetation Plot Mitigation													
	Succ	ess Summar	'V											
		(per acre)	-											
	Stream/ Succe													
	Wetland			Criteria										
Plot #	Stems ²	Volunteers ³	Total ⁴	Met?										
1	1214	0	1214	Yes										
2	1174	81	1255	Yes										
3	567	0	567	Yes										
4	809	0	809	Yes										
5	850	0	850	Yes										
6	647	40	687	Yes										
7	607	0	607	Yes										
8	526	40	566	Yes										
9	486	0	486	Yes										
10	769	81	850	Yes										
11	728	283	1011	Yes										
12	769	81	850	Yes										
13	647	0	647	Yes										
14	567	0	567	Yes										
Project Avg	740	43	783											

Stem Class characteristics

¹Buffer Stems Native planted hardwood trees. Does NOT include shrubs. No pines. No vines.

²Stream/ Native planted woody stems. Includes shrubs, does NOT include live stakes. No Wetland Stems vines

³Volunteers Native woody stems. Not planted. No vines.

⁴Total Planted + volunteer native woody stems. Includes live stakes. Excl. exotics. Excl. vines.

Exceeds requirements by 10%

Table 6.	Vegetation Metadata
	and Wetland Restoration - Project 94645
Report Prepared By	Russell Myers
Date Prepared	11/17/2016 14:25
	MY2_94645_UpperSilver_cvs-eep-entrytool-
database name	v2.3.1.mdb
	L:\projects\120598-Upr-Silver-FD\Monitoring\YR2 Monitoring\2.0 - Monitoring Data\App C -
database location	Vegetation Data\E-File
computer name	ASHELCTOMSIC
file size	63246336
	05240550
DESCRIPTION OF WORKSHEETS IN THIS D	OCUMENT
	Description of database file the report workshoots
Metadata	Description of database file, the report worksheets, and a summary of project(s) and project data.
metauata	Each project is listed with its PLANTED stems per
Proj, planted	acre, for each year. This excludes live stakes.
	Each project is listed with its TOTAL stems per acre,
	for each year. This includes live stakes, all planted
Proj, total stems	stems, and all natural/volunteer stems.
-,,	List of plots surveyed with location and summary
Plots	data (live stems, dead stems, missing, etc.).
	Frequency distribution of vigor classes for stems for
Vigor	all plots.
0	Frequency distribution of vigor classes listed by
Vigor by Spp	species.
	List of most frequent damage classes with number
	of occurrences and percent of total stems impacted
Damage	by each.
Damage by Spp	Damage values tallied by type for each species.
Damage by Plot	Damage values tallied by type for each plot.
	A matrix of the count of PLANTED living stems of
	each species for each plot; dead and missing stems
Planted Stems by Plot and Spp	are excluded.
	A matrix of the count of total living stems of each
	species (planted and natural volunteers combined)
ALL Stems by Plot and spp	for each plot; dead and missing stems are excluded.
PROJECT SUMMARY	
Project Solwinary Project Code	
project Code	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 feet
area (sq m)	62,321 sq. m.
Required Plots (calculated)	14
Sampled Plots	14

			Current Plot Data (MY2 2016)																				
			94	4645-01-00	01	94	4645-01-00	02	94	4645-01-00	03	9	4645-01-00	04	94	4645-01-00	05	9	4645-01-00	06	94	4645-01-00	07
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
cer rubrum	red maple	Tree	1		1	6		6				1		1									1
Inus serrulata	hazel alder	Shrub																					
etula nigra	river birch	Tree							2		2	1		1				1		1	3		3
Carpinus caroliniana	American hornbeam	Tree	1		1	3		3				1		1	1		1				1		1
Cornus amomum	silky dogwood	Shrub							1		1	3		3	6		6	4		4	2		2
Corylus cornuta	beaked hazelnut	Shrub Tree																1		1			
Diospyros virginiana	common persimmon	Tree	1		1							1		1									
raxinus pennsylvanica	green ash	Tree							2		2				8		8	1	1	2	1		1
iriodendron tulipifera	tuliptree	Tree	1		1	2		2				1		1									
Platanus occidentalis	American sycamore	Tree	9		9	4	2	6	5		5	7		7	4		4	3		3	4		4
Quercus	oak	Tree																					
Quercus lyrata	overcup oak	Tree																					
Quercus michauxii	swamp chestnut oak	Tree				6		6	1		1	2		2	2		2	3		3	4		4
Quercus nigra	water oak	Tree							3		3												
Quercus phellos	willow oak	Tree	2		2	3		3				3		3				3		3			
Jnknown		Shrub or Tree				1		1															
/accinium corymbosum	highbush blueberry	Shrub				1		1															
/iburnum dentatum	southern arrowwood	Shrub	15		15	3		3															
		Stem count	30	0	30	29	2	31	14	0	14	20	0	20	21	0	21	16	1	17	15	0	15
		size (ares)		1			1			1			1			1			1			1	
		size (ACRES)		0.02			0.02			0.02			0.02			0.02			0.02			0.02	
		Species count	7	0	7	9	1	9	6	0	6	9	0	9	5	0	5	7	1	7	6	0	6
		Stems per ACRE		0	1214	1174	81	1255	567	0	567	809	0	809	850	0	850	647	40	688	607	0	607

			1									Current F	lot Data (N	/IY2 2016)									
			94645-01-0008			94645-01-0009			94645-01-0010			94645-01-0011			94645-01-0012			94645-01-0013			94645-01-0014		
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
Acer rubrum	ed maple	Tree	3		3								1	1	2		2						
Alnus serrulata	nazel alder	Shrub														1	1					ı	
Betula nigra	river birch	Tree										3		3	6		6	2		2	1	í J	1
Carpinus caroliniana	American hornbeam	Tree				1		1	1		1				2	1	3					í J	
Cornus amomum	silky dogwood	Shrub										10	5	15	3		3	3		3		í J	
Corylus cornuta	beaked hazelnut	Shrub Tree	1																			í I	
Diospyros virginiana	common persimmon	Tree	1		1																	1	
raxinus pennsylvanica	green ash	Tree													2		2				4	1	4
iriodendron tulipifera	uliptree	Tree	1		1				2	1	3											1	
Platanus occidentalis	American sycamore	Tree	4	1	5	2		2	4	1	5	1	1	2	2		2	2		2	3	1	3
Quercus	bak	Tree																			1	1	1
Quercus lyrata	overcup oak	Tree													1		1					1	
Quercus michauxii	swamp chestnut oak	Tree	2		2				1		1	1		1				8		8	2	1	2
Quercus nigra	water oak	Tree																				ı	
Quercus phellos	willow oak	Tree				5		5	11		11	2		2	1		1				2	í J	2
Jnknown		Shrub or Tree				3		3				1		1				1		1	1	í J	1
/accinium corymbosum	0	Shrub																				ı	ı
/iburnum dentatum	southern arrowwood	Shrub	2		2	1		1														ı	. <u> </u>
		Stem count	13	1	14	12	0	12	19	2	21	18	7	25	19	2	21	16	0	16	14	0	14
	size (ares) size (ACRES)			1			1			1			1			1			1	•		1	
						0.02			0.02			0.02		0.02			0.02			0.02			
		Species count		1	6	5	0	5	5	2	5	6	3	7	8	2	9	5	0	5	7	0	7
		-	526	40	567	486	÷	486	769	81	850	728	283	1012	769	81	850	647	Ť	647	567	0	567

T = Total

Indicates that the stems per Acre exceeds requirements, but by less than 10%

											Annua	l Means							
Scientific Name		Species Type	MY0 (2015)*			MY1 (2015)			MY2 (2016)				MY3 (2017)	MY4 (2018)			MY5 (2019)		
	Common Name		Р	V	т	Р	V	Т	Р	v	Т	Р	V T	Р	v	Т	Р	V	Т
cer rubrum	red maple	Tree	12		12	14		14	13	1	14								
Inus serrulata	hazel alder	Shrub	1		1	1		1		1	1								
etula nigra	river birch	Tree	8		8	21		21	19		19								
Carpinus caroliniana	American hornbeam	Tree	9		9	11		11	11	1	12								
Cornus amomum	silky dogwood	Shrub	16		16	32		32	32	5	37								
Corylus cornuta	beaked hazelnut	Shrub Tree	1		1	1		1	1		1								
Diospyros virginiana	common persimmon	Tree	3		3	3		3	3		3								
raxinus pennsylvanica	green ash	Tree	12		12	19		19	18	1	19								
iriodendron tulipifera	tuliptree	Tree	10		10	12		12	7	1	8								
Platanus occidentalis	American sycamore	Tree	47		47	60		60	54	5	59								
Quercus	oak	Tree				2		2	1		1								
Quercus lyrata	overcup oak	Tree				1		1	1		1								
Quercus michauxii	swamp chestnut oak	Tree	19		19	33		33	32		32								
Quercus nigra	water oak	Tree	4		4	4		4	3		3								
Quercus phellos	willow oak	Tree	17		17	32		32	32		32								
Jnknown		Shrub or Tree	6		6	10		10	7		7								
accinium corymbosum	highbush blueberry	Shrub	1		1	1		1	1		1								
/iburnum dentatum	southern arrowwood	Shrub	21		21	21		21	21		21								
		Stem count	187	0	187	278	0	278	256	15	271	0	0	0		0	0		0
	size (ares)			9		14			14			14		14			14		
size (ACRES)			0.22		0.35			0.35				0.35	0.35			0.35			
		Species count	16	0	16	18	0	18	17	7	18	0	0	0		0	0		0
		Stems per ACRE	841	0	841	804	0	804	740	43	783	0	0	0		0	0		0

P = Planted V = Volunteer

This color indicates that the number includes volunteer stems.

 V = Volunteer
 Indicates that the stems per Acre exceeds requirements by 10%

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

 * MY0 included 9 vegetation plots. However upon review it was discovered that we needed to have 14 vegetation plots to meet guidelines. Five additional plots were added in the fall of 2015 and the MY1 and later means inlcude these additional plots.

Figure 3. Upper Silver Creek - Vegetation Plot Photos, DMS Project #94645





Photo 1. Vegetation Plot 1 – Tree photo (November 1, 2016). Photo 2. Vegetation Plot 1 – Herbaceous photo (November 1, 2016).

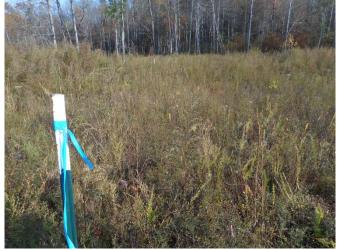


Photo 3. Vegetation Plot 2 – Tree photo (November 1, 2016). Photo 4. Vegetation Plot 2 – Herbaceous photo (November 1,



2016).

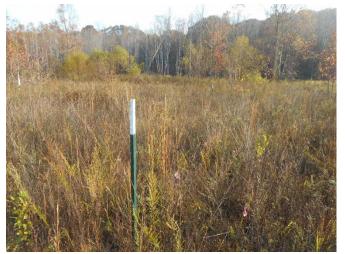


Photo 5. Vegetation Plot 3 – Tree photo (November 1, 2016). Photo 6. Vegetation Plot 3 – Herbaceous photo (November 1,



2016).





Photo 7. Vegetation Plot 4 – Tree photo (November 1, 2016). Photo 8. Vegetation Plot 4 – Herbaceous photo (November 1, 2016).



Photo 9. Vegetation Plot 5 – Tree photo (November 1, 2016).



Photo Point 10, Vegetation Plot 5 – Herbaceous photo (November 1, 2016).



Photo 11. Vegetation Plot 6 – Tree photo (November 1, 2016).



Photo 12. Vegetation Plot 6 - Herbaceous photo (November 1, 2016).



Photo 13. Vegetation Plot 7 – Tree photo (November 1, 2016).



Photo 14. Vegetation Plot 7 – Herbaceous photo (November 1, 2016).



Photo 15. Vegetation Plot 8 – Tree photo (November 1, 2016).



Photo 17. Vegetation Plot 9 – Tree photo (November 1, 2016).



Photo 16. Vegetation Plot 8 – Herbaceous photo (November 1, 2016).



Photo 18. Vegetation Plot 9 – Herbaceous photo (November 1, 2016).



Photo 19. Vegetation Plot 10 – Tree photo (November 1, 2016).



Photo 20. Vegetation Plot 10 – Herbaceous photo (November 1, 2016).



Photo 21. Vegetation Plot 11 – Tree photo (November 1, 2016).



Photo 22. Vegetation Plot 11 – Herbaceous photo (November 1, 2016).



Photo 23. Vegetation Plot 12 – Tree photo (November 1, 2016).



Photo 24. Vegetation Plot 12 – Herbaceous photo (November 1, 2016).



Photo 25. Vegetation Plot 13 – Tree photo (November 1, 2016).



Photo 26. Vegetation Plot 13 – Herbaceous photo (November 1, 2016).



Photo 27. Vegetation Plot 14 – Tree photo (November 1, 2016).



Photo 28. Vegetation Plot 14 – Herbaceous photo (November 1, 2016).

Appendix D Stream Assessment Data

Includes:

Stream Photos by Channel and Station
Visual Morphological Stability Assessment
Verification of Bankfull or Greater than Bankfull Events
Cross-Sections with Annual Overlays
Longitudinal Profiles with Annual Overlays
Pebble Count Plots with Annual Overlays
Monitoring Year 2 Stream Summary

Table 11. Morphology and Hydraulic Monitoring Summary

Figure 5. Upper Silver Creek Stream Photos by Channel and Station – MY2 (2016)



Photo 1. Mainstem Photo Point 1 – Station 29+26 (August 30, 2016) downstream view from left bank.



Photo 3. Mainstem Photo Point 2 – Station 26+44 (August 30, 2016) downstream view from left bank.



Photo 2. Mainstem Photo Point 1 – Station 29+26 (August 30, 2016) upstream view from left bank.



Photo 4. Mainstem Photo Point 2 – Station 26+44 (August 30, 2016) upstream from left bank.



Photo 5. Mainstem Photo Point 3 – Station 24+70 (August 30, 2016) upstream from right bank.



Photo 6. Mainstem Photo Point 3 – Station 24+70 (August 30, 2016) downstream from right bank.



Photo 7. Mainstem Photo Point 4 (PP4) – Station 20+30 (August 30, 2016) downstream from left bank.



Photo 8. Mainstem Photo Point 4 (PP4) – Station 20+30 (August 30, 2016) upstream from left bank.



Photo 9. Mainstem Photo Point 5 – Station 16+03 (August 30, 2016) upstream from right bank.



Photo 10, Mainstem Photo Point 5 – Station 16+03 (August 30, 2016) downstream from right bank.



Photo 11. Mainstem Photo Point 6 – Station 13+03 (August 30, 2016) upstream from right bank.



Photo 12. Mainstem Photo Point 5 – Station 13+03 (August 30, 2016) downstream from right bank.



Photo 13. Mainstem Photo Point 7 – Station 10+11 (August 30, 2016) downstream from left bank.



Photo 14. Mainstem Photo Point 7 – Station 10+11 (August 30, 2016) upstream from left bank.



Photo 15. Mainstem Photo Point 8 – Station 5+06 (August 30, 2016) upstream from right bank.



Photo 16. Mainstem Photo Point 8 – Station 5+06 (August 30, 2016) downstream from right bank.



Photo 17. Mainstem Photo Point 9 – Station 3+87 (August 30, 2016) downstream from left bank.



Photo 18. Mainstem Photo Point 9 – Station 3+87 (August 30, 2016) upstream from left bank.



Photo 19. Mainstem Photo Point 10 – Stat. 1+22 (August 30, 2016) downstream from left bank.



Photo 20. Mainstem Photo Point 10 – Stat. 1+22 (August 30, 2016) upstream from left bank.



Unnamed Tributary 1 Photos - Monitoring Year 1

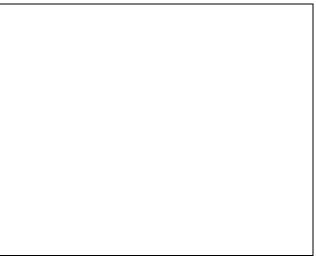


Photo 21. UT1 Photo Point 1 – Station 4+82 (August 30, 2016) upstream from left bank.



Photo 22. UT1 Photo Point 2 – Station 4+07 (August 30, 2016) downstream from left bank.

Intentionally Left Blank



Photo 23. UT1 Photo Point 2 – Station 4+07 (August 30, 2016) upstream from left bank.



Photo 24. UT1 Photo Point 3 – Station 2+55 (August 30, 2016) upstream from right bank.



Photo 25. UT1 Photo Point 3 – Station 2+55 (August 30, 2016) downstream from right bank.



Photo 26. UT1 Photo Point 4 – Station 0+55 (August 30, 2016) downstream from left bank.



Photo 27. UT1 Photo Point 4 – Station 0+55 (August 30, 2016) upstream from left bank.

Unnamed Tributary 2, Photos – Monitoring Year 1 (2016)



Photo 28. UT2 Photo Point 1 – Station 2+15 (August 30, 2016) downstream from left bank.

Photo 29. UT2 Photo Point 1 – Station 2+15 (August 30, 2016) upstream from left bank.



Photo 30. UT2 Photo Point 2 – Station 0+96 (August 30, 2016) upstream from right bank.



Photo 31. UT2 Photo Point 2 – Station 0+96 (August 30, 2016) downstream from right bank.



Photo 32. UT2 Photo Point 3 – Station 0+02 (August 30, 2016) downstream from right bank.



Photo 33. UT2 Photo Point 3 – Station 0+02 (August 30, 2016) upstream from right bank.

Unnamed Tributary 3, Photos – Monitoring Year 2 (2016)



Photo 34. UT3 Photo Point 1 – Station 12+10 (August 30, 2016) downstream from left bank.

Photo 35. UT3 Photo Point 1 – Station 12+10 (August 30, 2016) upstream from left bank.



Photo 36. UT3 Photo Point 2 – Station 10+66 (August 30, 2016) upstream from right bank.



Photo 37. UT3 Photo Point 2 – Station 10+66 (August 30, 2016) downstream from right bank.



Photo 38. UT3 Photo Point 3 – Station 8+10 (August 30, 2016) downstream from left bank.



Photo 39. UT3 Photo Point 3 – Station 8+10 (August 30, 2016) upstream from left bank.



Photo 40. UT3 Photo Point 4 – Station 7+05 (August 30, 2016) downstream from left bank.



Photo 41. UT3 Photo Point 4 – Station 7+05 (August 30, 2016) upstream from left bank.



Photo 42. UT3 Photo Point 5 – Station 5+95 (August 30, 2016) downstream from left bank.



Photo 43. UT3 Photo Point 5 – Station 5+95 (August 30, 2016) upstream from left bank.



Photo 44. UT3 Photo Point 6 – Station 4+55 (August 30, 2016) upstream from right bank.



Photo 45. UT3 Photo Point 6 – Station 4+55 (August 30, 2016) downstream from right bank.



Photo 46. UT3 Photo Point 7 – Station 3+60 (August 30, 2016) upstream to structure.



Photo 47. UT3 Photo Point 8 – Station 2+70 (August 30, 2016) upstream to structure.



Photo 48. UT3 Photo Point 9 – Station 1+90 (August 30, 2016) upstream to structure.



Photo 49. UT3 Photo Point 10 – Station 0+60 (August 30, 2016) downstream to structure.

	al Morphological Stability Assessment Creek Restoration Project: DMS Project ID No. 94645 Silver Creek, Re	each 1 (838 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?	4	4	0	100	
	2. Armor stable (e.g. no displacement)? 3. Facet grades appears stable?	4 4	4	0	100	
	4. Minimal evidence of embedding/fining?	4 4	4	0	100 100	100%
	5. Length appropriate?	4	4	0	100	100%
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	4 4	4	0	100	
	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?) 3. Length appropriate?	4	4	0	100 100	100%
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
C. Maiwey	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	4	4	0	100	
D. Wearluers	2. Of those eroding, # w/concomitant point bar formation?	4	4	0	100	
	3. Apparent Rc within spec? 4. Sufficient floodplain access and relief?	4 4	4	0	100 100	100%
						10076
E. Bed General	General channel bed aggradation areas (bar formation) Channel bed degradation - areas of increasing down-	838	838	0	100	
General	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 Structures	3. Angle and geometry appear appropriate? 4. Free of piping or other structural failures?	6	6	0	100 100	100%
		0	U	U	100	100%
G. Wads/	1. Free of scour?	4	4	0	100	4000/
Boulders	2. Footing stable? Silver Creek, Rea		4	0	100	100%
		(_,,				
		(# Stable) Number		Total Number	% Performing	Feature
Feature Category	Metric (per As-Built and reference baselines)	Performing as Intended	Total number per As-Built	/ feet in unstable state	in Stable Condition	Perfomance Mean or Total
A. Riffles	1. Present?	17	17	0	100	Wearr or Total
	2. Armor stable (e.g. no displacement)?	17	17	0	100	
	3. Facet grades appears stable? 4. Minimal evidence of embedding/fining?	17 17	17 17	0	100 100	
	5. Length appropriate?	17	17	0	100	100%
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	16	16	0	100	
	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	
	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
D. Meanders	1. Outer bend in state of limited/controlled erosion?	16	16	0	100	
	2. Of those eroding, # w/concomitant point bar formation? 3. Apparent Rc within spec?	16 16	16 16	0	100 100	
	4. Sufficient floodplain access and relief?	16	16	Ő	100	100%
E. Bed	1. General channel bed aggradation areas (bar formation)	2,178	2,178	0	100	
General	Channel bed degradation - areas of increasing down-					
	cutting or head cutting?	2,178	2,178	0	100	100%
F. Vanes,	1. Free of back or arm scour?	21	21	0	100	
Rock/Log Drop	Apple and geometry appear appropriate?	21	21 21	0	100	
Structures	4. Free of piping or other structural failures?	21	21	3	100	100%
G. Wads/	1. Free of scour?	14	14	0	100	
Boulders	2. Footing stable?	14	14	0	100	100%
	UT1 (50	02 LF)	1	[[[
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?	7	7	0	100	
	2. Armor stable (e.g. no displacement)?	7 7	7	0	100	
	3. Facet grades appears stable? 4. Minimal evidence of embedding/fining?	7	7	0	100 100	
	5. Length appropriate?	7	7	0	100	100%
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	10	10	0	100	
	Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	10	10	0	100	40001
	3. Length appropriate?	10	10	0	100	100%
C. Thalweg ¹	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
	2. Downstream of pool (structure) centering? (%)	100	100	0	100	100%
	1. Outer bend in state of limited/controlled erosion?	7	7	0	100	
D. Meanders	Of those eroding, # w/concomitant point bar formation?	7	7 7	0	100 100	
D. Meanders	3. Apparent Rc within spec?	1			100	100%
D. Meanders		7	7	0	100	
	3. Apparent Rc within spec? 4. Sufficient floodplain access and relief?	7				
D. Meanders E. Bed General	3. Apparent Rc within spec?		7 502 502	0	100 100 100	100%
E. Bed General F. Vanes,	Apparent Rc within spec? 4. Sufficient floodplain access and relief? 4. Gunticient 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?	7 502 502 11	502 502 11	0	100 100 100	
E. Bed General F. Vanes, Rock/Log	Apparent Rc within spec? A. Sufficient floodplain access and relief? Ceneral channel bed aggradation areas (bar formation) Channel bed degradation - areas of increasing down- cutting or head cutting? Free of back or arm scour? A. Height appropriate?	7 502 502 11 11	502 502 11 11	0 0 0 0	100 100 100 100	
E. Bed General F. Vanes,	Apparent Rc within spec? 4. Sufficient floodplain access and relief? 4. Gunticient 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?	7 502 502 11	502 502 11	0	100 100 100	
E. Bed General F. Vanes, Rock/Log Drop	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?	7 502 502 11 11 11	502 502 11 11 11	0 0 0 0 0	100 100 100 100 100	100%

Upper Silver 0	al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645					
	UT2, Reac	h 1 (103 LF)	ī			i.
		(# Stable) Number		Total Number	% Performing	Feature
Feature		(# Stable) Number Performing	Total number	/ feet in unstable	in Stable	Perfomance
Category	Matria (nor As Duilt and reference baselines)	as Intended	per As-Built	state	Condition	Mean or Total
	Metric (per As-Built and reference baselines)	4	4		100	Wearr of Total
A. Riffles	1. Present?	4	4	0	100	
	2. Armor stable (e.g. no displacement)?		4			
	3. Facet grades appears stable?	4	4	0	100	
	4. Minimal evidence of embedding/fining?	4	4	0	100	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	
D. F0015	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	5	5	0	100	
	3. Length appropriate?	5	5	0	100	100%
	5. Length appropriate?	5	5	0	100	100 /6
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
C. Thanweg	2. 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?	N/A	N/A	N/A	100	
D. WEarluers	2. Of those eroding, # w/concomitant point bar formation?	N/A N/A	N/A N/A	N/A N/A	100	
	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 N/A	N/A	100	100%
		IN/A	N/A	IN/A	100	100 /6
E. Bed	1. General channel bed aggradation areas (bar formation)	103	103	0	100	
General	2. Channel bed degradation - areas of increasing down-	103	103	0	100	
General	cutting or head cutting?	103	103	0	100	100%
	cutting of field cutting?	103	103	0	100	100 /6
F. Vanes,	1. Free of back or arm scour?	5	5	0	100	
Rock/Log	2. Height appropriate?	5	5	0	100	
Drop	3. Angle and geometry appear appropriate?	5	5	0	100	
	4. Free of piping or other structural failures?	5	5	0	100	100%
Structures		5	5	0	100	100 /8
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	N/A
Douiders		h 2 (207 LF)	10/7	10/1	14/7	1975
	UT2, Read	n 2 (207 LF)	1		1	1
		(# Otable) Number		Total Number	0/ Desfermine	Frature
		(# Stable) Number	-	Total Number	% Performing	Feature
Feature		Performing	Total number	/ feet in unstable	in Stable	Perfomance
Category	Metric (per As-Built and reference baselines)	as Intended	per As-Built	state	Condition	Mean or Total
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	 Present? (e.g. not subject to severe aggradation or migration?) 	3	3	0	100	
	Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	3	3	0	100	
	3. Length appropriate?	3	3	0	100	100%
C. Thalweg	1. Upstream of pool (structure) centering? (%)	100	100	0	100	
	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	Channel bed degradation - areas of increasing down-					
	cutting or head cutting?	207	207	0	100	100%
F. Vanes,	1. Free of back or arm scour?	1	1	0	100	
Deek/Lee	2. Height appropriate?	1	1	0	100	
Rock/Log	0 Analy and second to compare an ended of the O	1	1	0	100	
Drop	3. Angle and geometry appear appropriate?					
	Angle and geometry appear appropriate? A. Free of piping or other structural failures?	1	1	0	100	100%
Drop Structures	4. Free of piping or other structural failures?	1	1			100%
Drop				0 N/A N/A	100 N/A N/A	100%

Upper Silver C	al Morphological Stability Assessment - Continued Creek Restoration Project: DMS Project ID No. 94645					
	· · ·	F) (Enhancement II rea	ch)			
		(# Stable) Number		Total Number	% Performing	Feature
Feature		Performing	Total number	/ feet in unstable	in Stable	Perfomance
Category	Metric (per As-Built and reference baselines)	as Intended	per As-Built	state	Condition	Mean or Total
A. Riffles	1. Present?	N/A	N/A	N/A	N/A	
	2. Armor stable (e.g. no displacement)?	N/A	N/A	N/A	N/A	
	3. Facet grades appears stable?	N/A	N/A	N/A	N/A	
	4. Minimal evidence of embedding/fining?	N/A	N/A	N/A	N/A	
	5. Length appropriate?	N/A	N/A	N/A	N/A	N/A
B. Pools	1. Present? (e.g. not subject to severe aggradation or migration?)	N/A	N/A	N/A	N/A	
D. FUUIS	2. Sufficiently deep (Max Pool D:Mean Bkf >1.6?)	N/A N/A	N/A N/A	N/A N/A	N/A	
	3. Length appropriate?	N/A	N/A	N/A	N/A	N/A
	5. Length appropriate?	19/75	10/6	11/15	19/0	11/6
C. Thalweg	1. Upstream of pool (structure) centering? (%)	N/A	N/A	N/A	N/A	
	2. Downstream of pool (structure) centering? (%)	N/A	N/A	N/A	N/A	N/A
D. Meanders	1. Outer bend in state of limited/controlled erosion?	N/A	N/A	N/A	N/A	
	2. Of those eroding, # w/concomitant point bar formation?	N/A	N/A	N/A	N/A	
	3. Apparent Rc within spec?	N/A	N/A	N/A	N/A	
	4. Sufficient floodplain access and relief?	N/A	N/A	N/A	N/A	N/A
E. Bed	1. General channel bed aggradation areas (bar formation)	343	343	0	100	
General	Channel bed degradation - areas of increasing down-			-		
	cutting or head cutting?	343	343	0	100	100%
	1. Eree of book or orm coour?	3	3	0	100	
F. Vanes,	1. Free of back or arm scour?			0	100	
Rock/Log Drop	2. Height appropriate? 3. Angle and geometry appear appropriate?	3	3	0	100	
Structures	4. Free of piping or other structural failures?	3	3	0	100	100%
Structures		3	5	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	N/A
		ch 2 (1,022 LF)				
		(# Stable) Number		Total Number	% Performing	Feature
Feature		Performing	Total number	/ feet in unstable	in Stable	Perfomance
Category	Metric (per As-Built and reference baselines)	as Intended	per As-Built	state	Condition	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	 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%
		400	400		100	
C. Thalweg	1. Upstream of pool (structure) centering?	100	100	0	100	4000/
	2. Downstream of pool (structure) centering?	100	100	0	100	100%
D. Meanders	1. Outer hand in state of limited/controlled creation?	17	17	0	100	
D. Meanuers	Outer bend in state of limited/controlled erosion? 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%
				3	100	100 /0
E. Bed	1. General channel bed aggradation areas (bar formation)	1,022	1,022	0	100	1
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 EventsUpper Silver Creek Restoration Project: DMS Project ID No. 94645										
Date of Data Collection		Method of Data	Gauge Watermark Height (inches)*							
	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"						

* 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.

Dates of high	flows d	lurina tl	he winter	of 2015 - 2	016.
Dates of high	10000	աուց ս		012010 2	010.

Date	Discharge (cfs)	Gage Height (ft)	Mean Discharge (cfs) of daily means for 56 yrs	Mean Gage Height (ft) of daily means for 56 yrs
11/19/2015	1,170	3.18	56	0.86
12/2/2015	1,700	4.11	76	1.00
12/24/2015	1,710	2.99	99	1.20
12/29/2015	2,690	4.5	78	1.02
2/3/2016	2,470	3.14	127	1.07

Data from Cleveland Co. NC, USGS Gage 02152100 First Broad River Near Casar, NC



Photo 1. Silver Creek crest gauge staff showing cork deposition in red circle at 15.0 above the bottom of the staff, which is at the bankfull elevation.



Photo 2. UT3 crest gauge staff showing cork deposition in red circle at 5.0 ft above the bottom of the staff, which is at the bankfull elevation.



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



Photo 4. Stream bank along UT3 showing accumulated debris along wrack line in vegetation well above bankfull. Verifies crest gauge measurements.



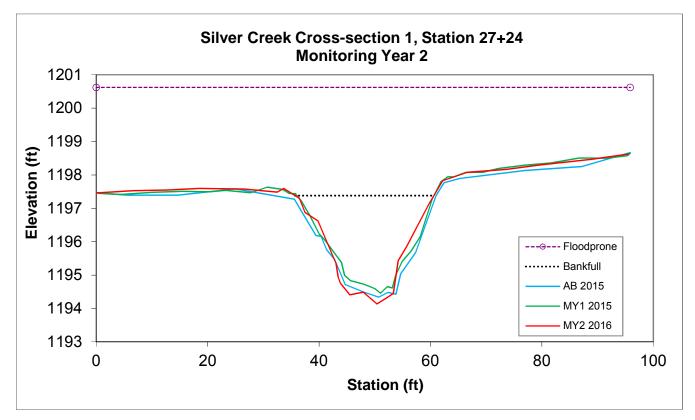
Photo 5. Floodplain along Silver Creek showing accumulated debris of wrack line indicating high flows that were out of bank and filling the valley.



Photo 6. Stream bank along Silver Creek showing accumulated debris at the top of bank where flood waters were leaving the channel.

(MY2 Data - collected November, 2016)

_	Based on fixed baseline BKF											
ſ		Stream		BKF	BKF	Max BKF						
	Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev	
	Riffle	С	45	24.91	1.81	3.24	13.77	1.1	3.8	1197.38	1197.6	



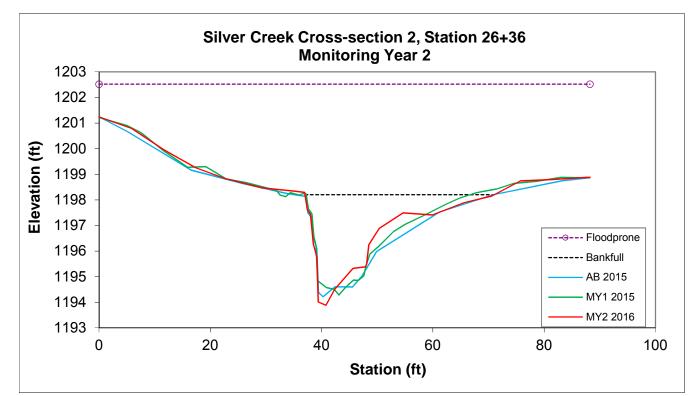


Looking at the Left Bank

Looking at the Right Bank

(MY2 Data - collected November, 2016)

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		49.6	34.01	1.46	4.32	23.3	1	2.6	1198.2	1198.29	



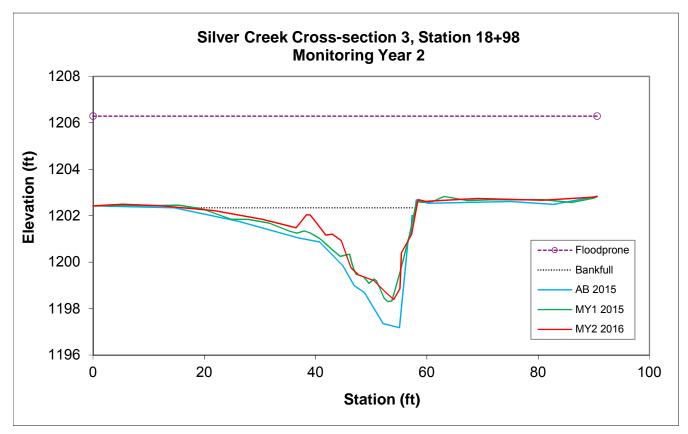


Looking at the Left Bank

Looking at the Right Bank

(MY2 Data - collected November, 2016)

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		50.2	42.01	1.19	3.95	35.15	0.9	2.2	1202.34	1202.03	





Looking at the Left Bank

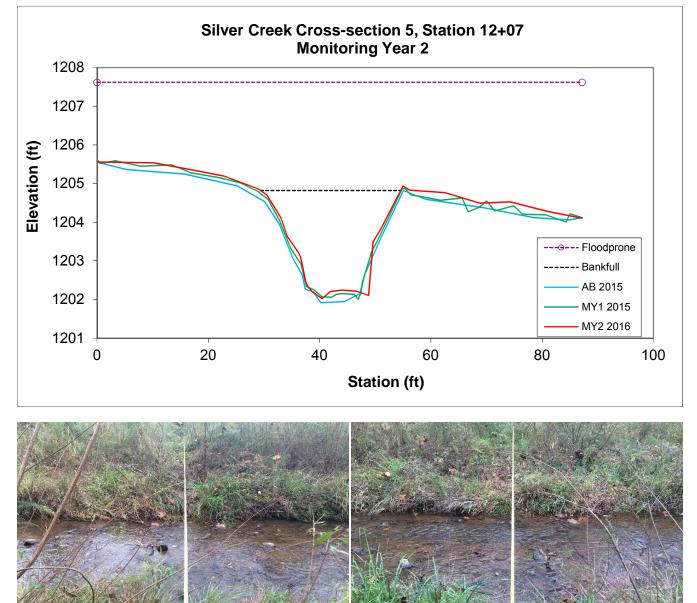
(MY2 Data -	collected	November.	2016)
(INTE Data	001100100		2010)

Based or	fixed bas	seline BK		Data - co	ollected No	vember,	2016)			
Feature	Stream Type	BKF Area	BKF Width	BKF Depth	Max BKF Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev
Riffle	C	41.1	23.52	1.75	3.08	13.46	1	3.7	1203.01	1203.09
120 120 120 120 120 120 120 120 120 119	6 5 - 4 - 3 - 2 - 1 - 0 -			Ν	Cross-se Monitorir	ng Yea	r 2			Floodprone Bankfull AB 2015 MY1 2015 MY2 2016
	0		20		40		60		80	100
					St	ation (1	ft)			

Looking at the Left Bank

(MY2 Data -	collected	November,	2016)
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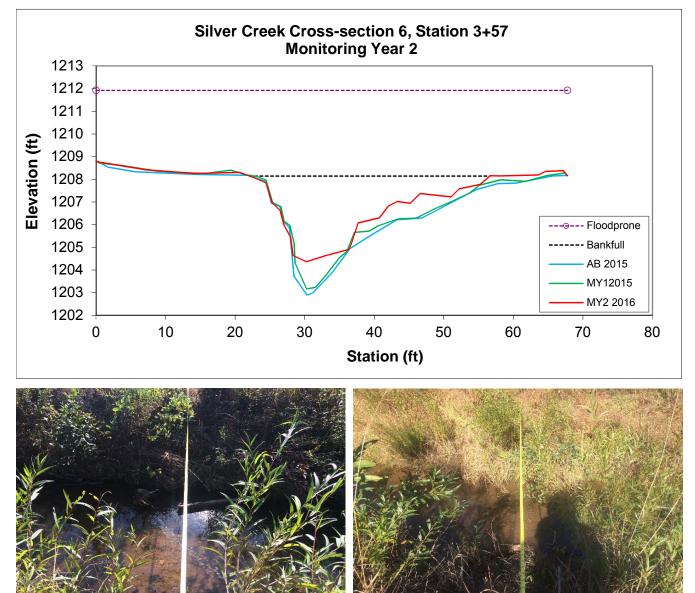
Based on fixed baseline BKF											
	Stream		BKF	BKF	Max BKF						
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev	
Riffle	С	42.3	25.21	1.68	2.8	15.04	1	3.5	1204.82	1204.7	
				•							



Looking at the Left Bank

(MY2 Data - collected November, 2016)

Based on	fixed bas	seline BK	F							
	Stream		BKF	BKF	Max BKF					
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev
Pool		58.3	34.57	1.69	3.78	20.5	1	2	1208.14	1208.15



Looking at the Left Bank

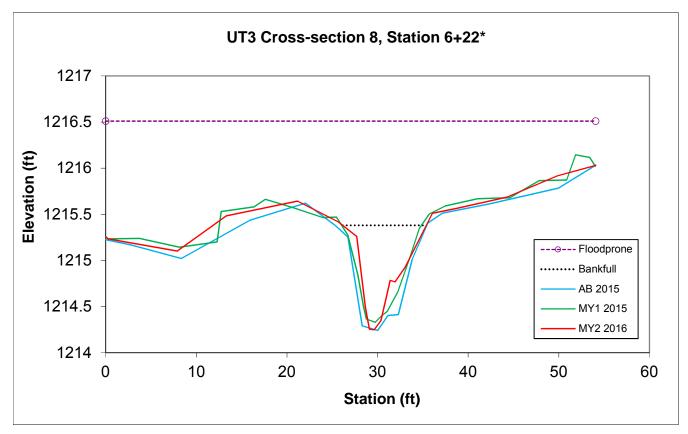
Looking at the Right Bank

(MY2 Data - collected November, 2016)

Based or	fixed bas	seline BKI	•	Dala - CC		weinder,	2010)			
E a atuma	Stream		BKF	BKF	Max BKF			50		
Feature Riffle	Type C	BKF Area 47.6	Width 25.82	Depth 1.84	Depth 2.95	W/D 14.02	BH Ratio	ER 4.9	BKF Elev 1208.23	TOB Elev 1208.36
121 121 121 120 120 120	1 - 0 - 9 -	S	ilver Cr		oss-sect nitoring	Year 2				e
a 120 120 120 120	6 - 5 -								B A M	loodprone ankfull B 2015 IY1 2015 IY2 2016
120	0	20	4	0	60	ε	30	100	120	140
					St	ation (1	ft)			
		oking at the	e Left Bar	nk			Loo	king a	the Right Ba	nk

(MY2 Data - collected November, 2016)

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	4.7	9.22	0.51	1.13	18.05	1	5.9	1215.38	1215.42		



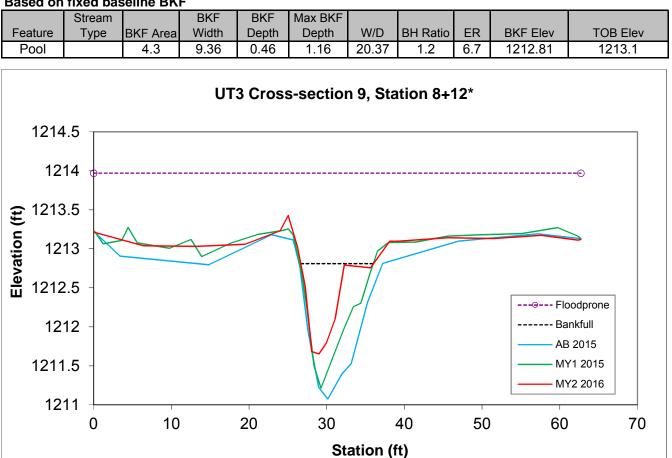


Looking at the Left Bank

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.

(MY2 Data - collected November, 2016)



Based on fixed baseline BKF



Looking at the Left Bank

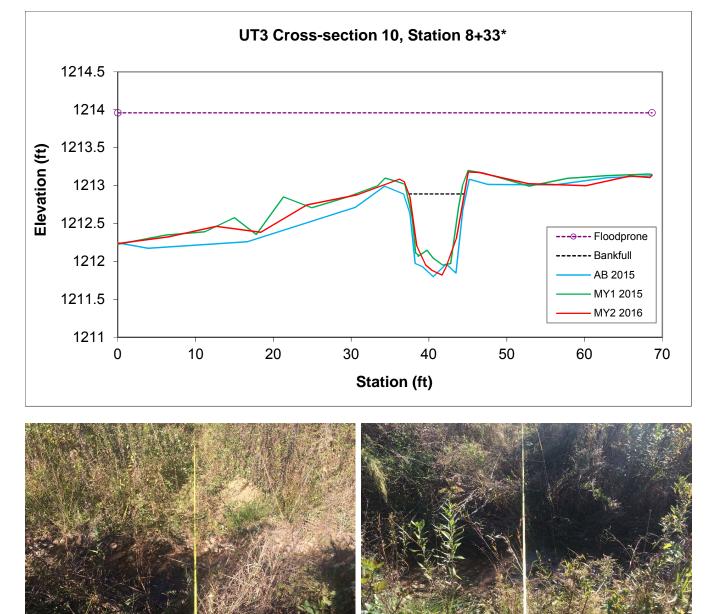
Looking at the Right Bank

* 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.

(MY2 Data - collected November, 2016)

Daseu Un	IINEU Da									
	Stream		BKF	BKF	Max BKF					
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev
Riffle	E	5.31	7.19	0.74	1.08	9.7	1.1	9.6	1212.9	1213.08
<u>.</u>										





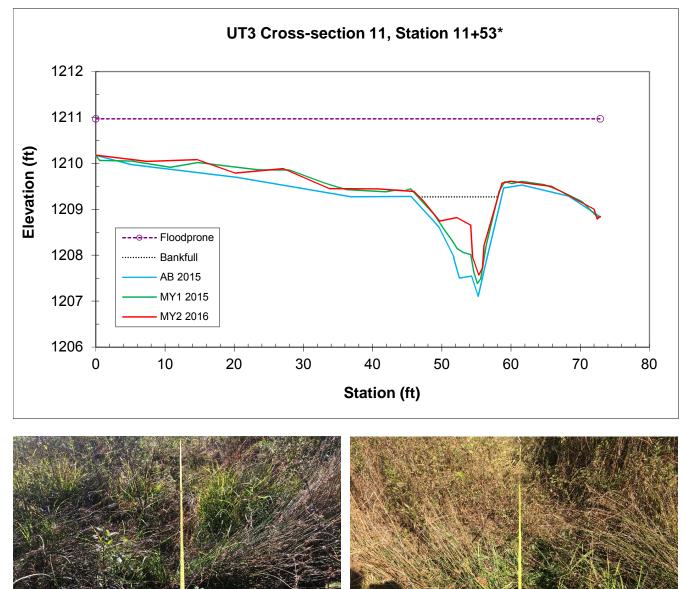
Looking at the Left Bank

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.

(MY2 Data - collected November, 2016)

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		6.9	11.35	0.61	1.7	18.73	1.1	6.4	1209.27	1209.39		



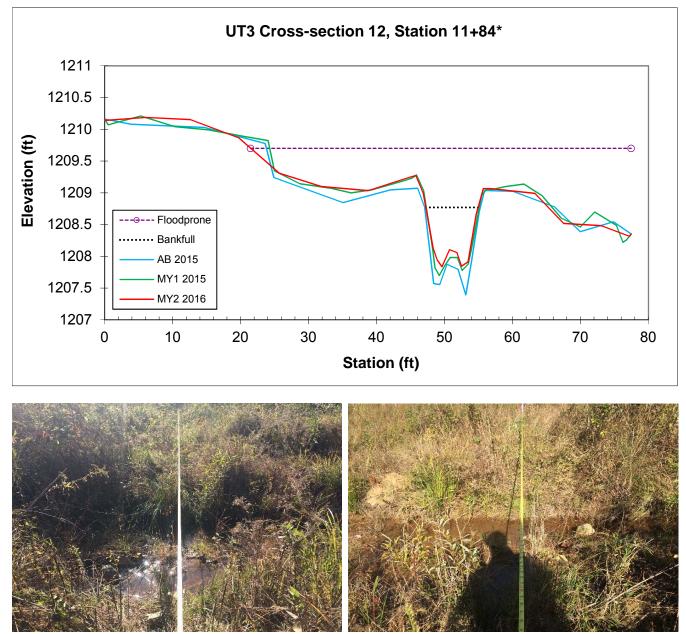
Looking at the Left Bank

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.

(MY2 Data - collected November, 2016)

Ва	Based on fixed baseline BKF												
		Stream		BKF	BKF	Max BKF							
F	eature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev		
F	Riffle	E	5	7.69	0.66	0.93	11.72	1.3	7.3	1208.77	1209.07		



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.

(MY2 Data - collected November, 2016)

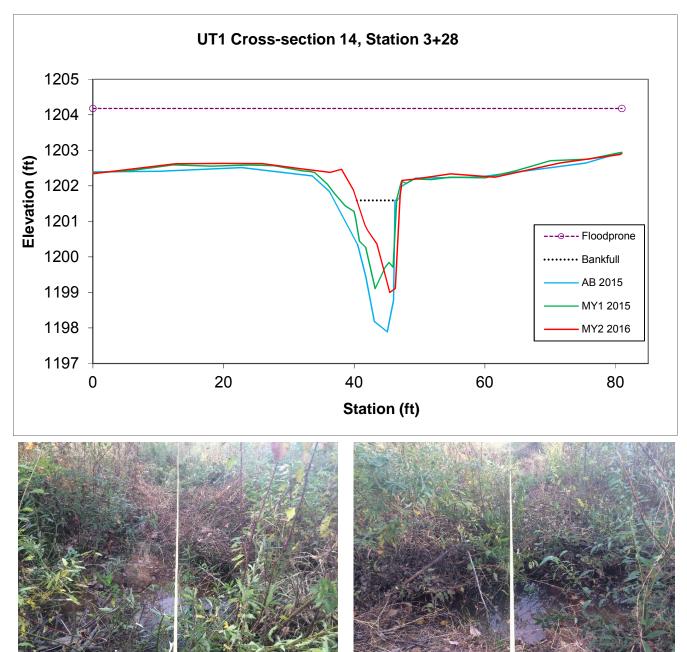
Stream BKF BKF Depth De	Based on		seline ban								
Riffle C 7 9.2 0.76 1.09 12.15 1.1 5.5 1203.99 1204.12 UT1 Cross-section 13, Station 1+57 1205.5 1205 0 <th>Feeture</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>FD</th> <th></th> <th></th>	Feeture								FD		
UT1 Cross-section 13, Station 1+57 UT1 Cross-section 13, Station 1+57 1205.5 1204 1204.5 1204 1203.5 1203 10 10 10 10 10 10 10 10 10 10						-					
1205.5 1204.5 1204.5 1204.5 1203.5 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203.5 1203 1203.5		•	1 . 1	0.2	011 0				0.0		
(U) 00 1205 1204.5 1204 1204 1203.5 1203 1203.5 1203 1203 1203 1203 1203 1203 1203 1203 1203 1203 1204 1203 10 10 10 10 10 10 10 10 10 10				UT1 Cr	oss-se	ction 13	, Statio	on 1+57			
1205 1204.5 1204 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1203 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1204 1203.5 1203 1203.5 1204 1203.5 1204 1203.5 1203 1203 1203.5 1203 10 10 10 10 10 10 10 10 10 10	120	5.5									
$1203.5 \begin{array}{c} & & & \\ 1203.5 \\ & & \\ 1203 \\ & & \\ 1202.5 \\ & & \\ 0 \end{array} \begin{array}{c} & & \\ - & $		205								<u>-</u> ⊙	
$1203.5 \begin{array}{c} & & & \\ 1203.5 \\ & & \\ 1203 \\ & & \\ 1202.5 \\ & & \\ 0 \end{array} \begin{array}{c} & & \\ - & $	1204 (I	4.5 -			\geq						
1203.5 1203 1203 1202.5 0 10 20 30 40 50 60	Eleva Eleva	204 -									
$\begin{array}{c} 1203 \\ 1202.5 \\ 0 \\ 10 \\ 20 \\ 30 \\ 40 \\ 50 \\ 60 \end{array}$	1203	3.5	······ Bankfi	ull	A		/				
1202.5 <u>10</u> 20 30 40 50 60	12	203 - -	—— MY1 2	2015	l	\checkmark					
Station (ft)	1202			I	20		30	4	.0	50	60
						St	ation (f	ft)			



Looking at the Left Bank

(MY2 Data - collected November, 2016)

Daseu u	Dased on fixed baseline ballkrull												
	Stream		BKF	BKF	Max BKF								
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev			
Pool		9	6.59	1.36	2.59	4.84	1.2	12.3	1201.59	1202.16			



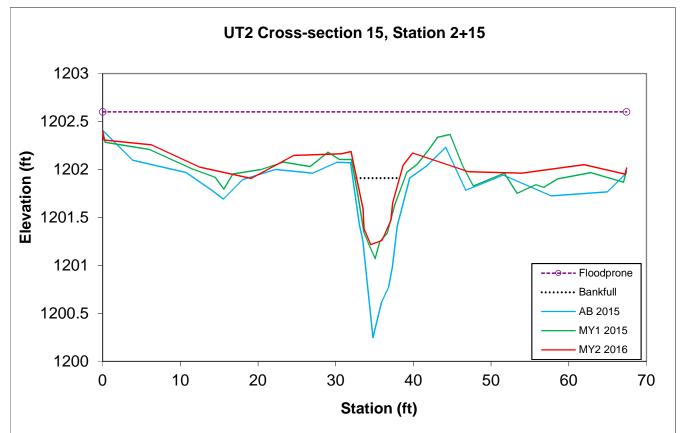
Based on fixed baseline bankfull

Looking at the Left Bank

Looking at the Right Bank

(MY2 Data - collected November, 2016)

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		2.5	5.55	0.45	0.69	12.28	1.4	12.1	1201.91	1202.17		

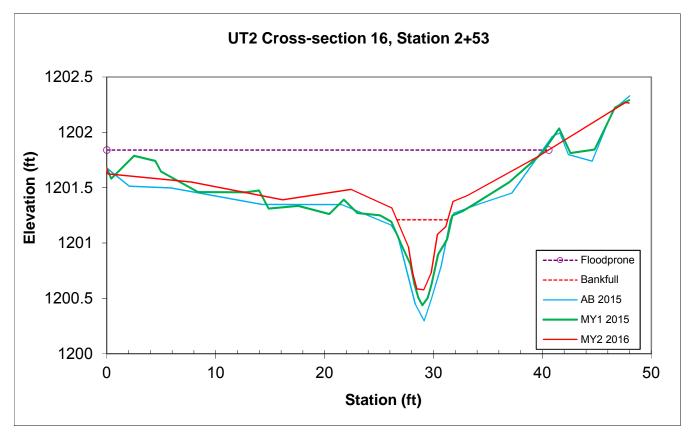




Looking at the Left Bank

(MY2 Data - collected November, 2016)

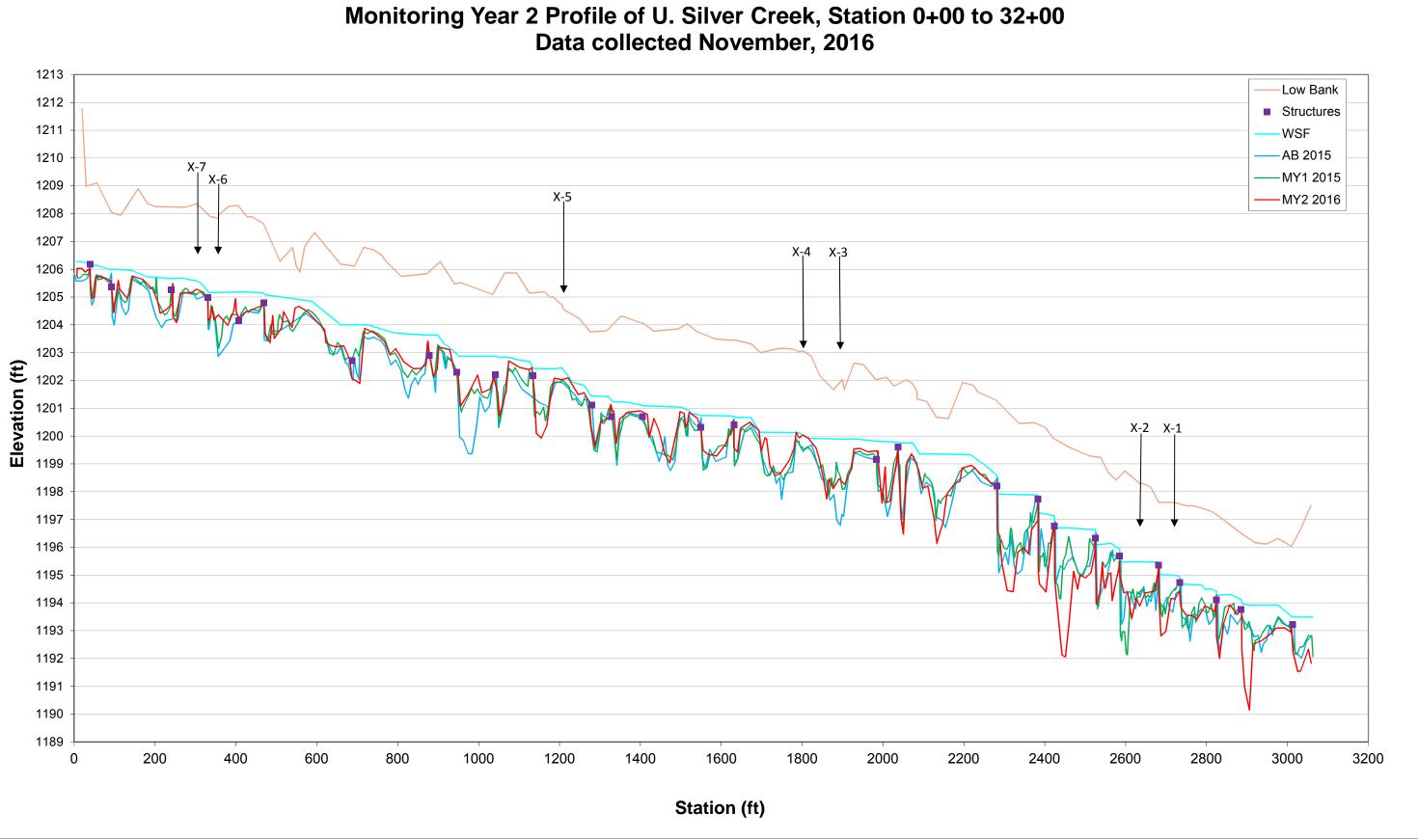
Based on	fixed bas	seline BK	F							
	Stream		BKF	BKF	Max BKF					
Feature	Туре	BKF Area	Width	Depth	Depth	W/D	BH Ratio	ER	BKF Elev	TOB Elev
Riffle	С	1.5	4.68	0.32	0.63	14.47	1.2	8.7	1201.21	1201.32

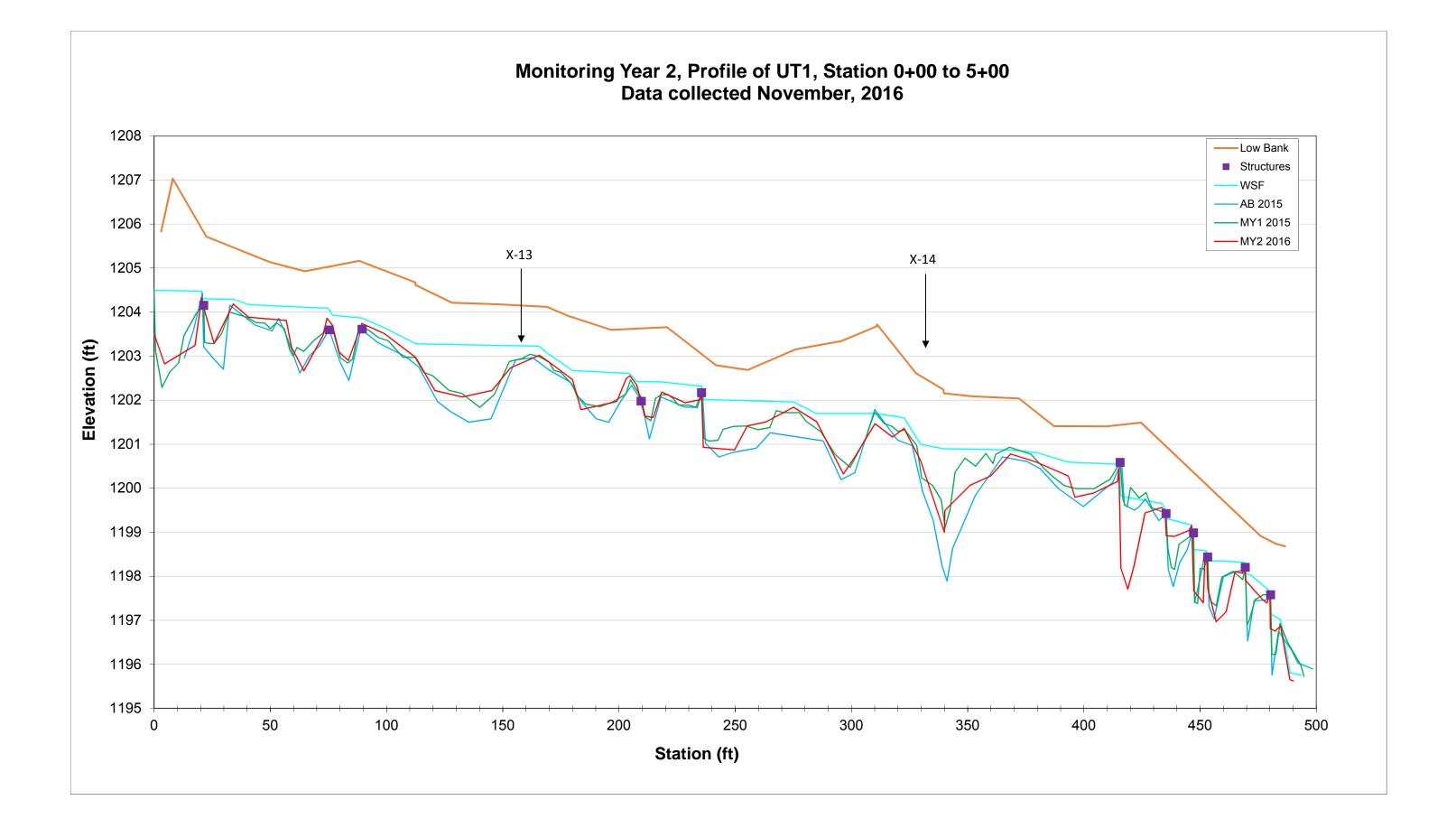


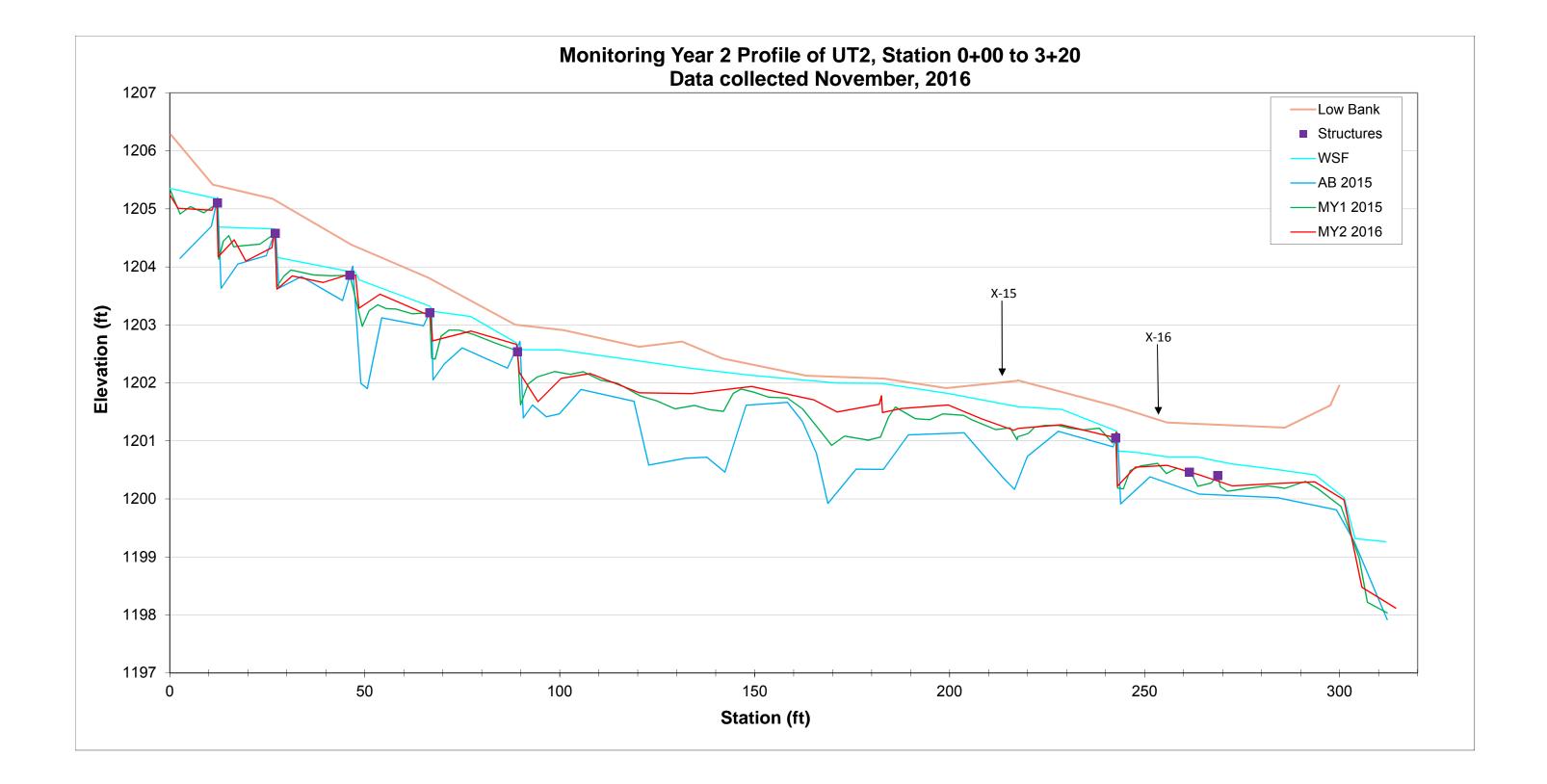


Looking at the Left Bank

Looking at the Right Bank







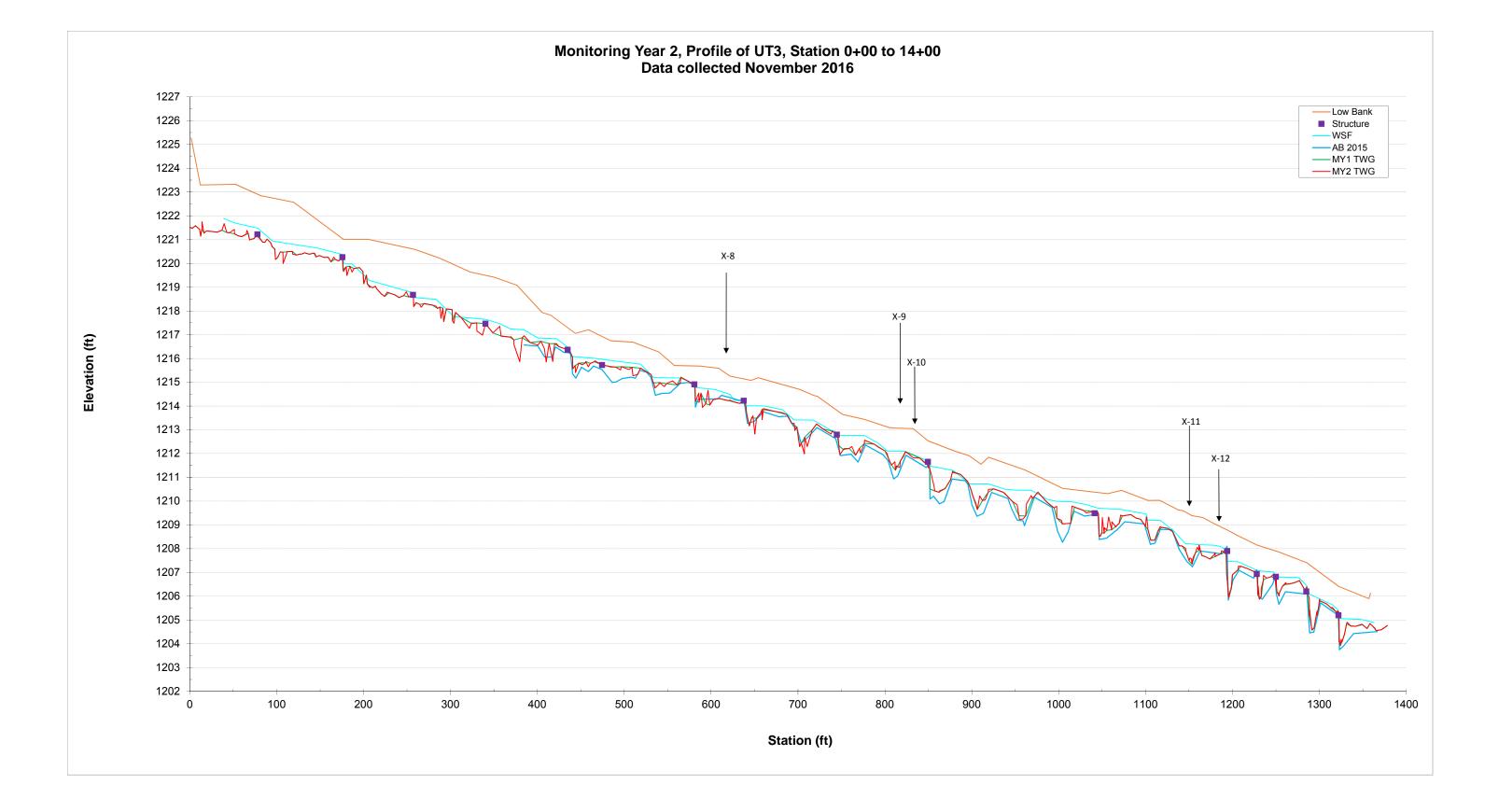


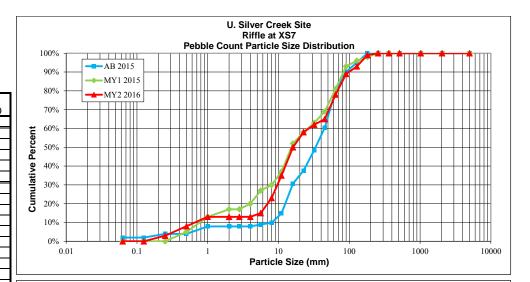
Figure 8. Pebble Count Plots with Annual Overlays

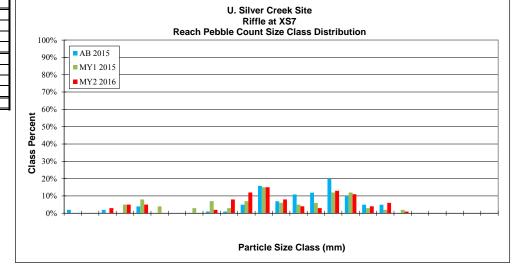
Cross-Section Pebble Count; Monitoring Year 2 U. Silver Creek Site Mainstem at XS4 **Pebble Count Particle Size Distribution** 100% SITE OR PROJECT: U. Silver Cr REACH/LOCATION: Riffle at XS4 AB 2015 90% Riffle FEATURE: MY1 2015 2-Nov-16 80% ▲ MY2 2016 MY2 2016 Distribution MATERIAL PARTICLE SIZE (mm) Total Class % % Cum Plot Size (mm) 70% Silt/Clay Silt / Clay < 063 0% 0.063 60% **Cumulative Percent** Very Fine .063 - .125 0% 0.125 Fine .125 - .25 0% 0.25 50% Sand Medium .25 - .50 7 7% 7% 0.50 .50 - 1.0 1 1% 8% 1.0 Coarse 40% Very Coarse 10-20 8% 2.0 30% Very Fine 2.0 - 2.8 8% 2.8 2.8 - 4.04.0 Very Fine 8% 20% 4.0 - 5.6 5.6 1% 9% Fine 1 5.6 - 8.0 5 5% 14% 8.0 Fine 10% Medium 8.0 - 11.0 4 4% 18% 11.0 Gravel Medium 17 17% 35% 16.0 0% 11.0 - 16.0 0.1 100 1000 10000 Coarse 16 - 22.6 12 12% 47% 22.6 0.01 10 Particle Size (mm) 22.6 - 32 10 10% 57% 32 Coarse 32 - 45 73% 45 Very Coarse 16 16% Very Coarse 45 - 64 16 16% 89% 64 U. Silver Creek Site Small 64 - 90 6 6% 95% 90 Mainstem at XS4 90 - 128 4 4% 99% 128 Small Cobble **Reach Pebble Count Size Class Distribution** 128 - 180 1 1% 100% Large 180 100% 180 - 256 100% 256 Large AB 2015 Small 256 - 362 100% 362 90% MY1 2015 Small 362 - 512 100% 512 Boulder 80% Medium 512 - 1024 100% 1024 MY2 2016 1024 - 2048 2048 Large-Very Larg 100% 70% Bedrock Bedrock > 2048 100% 5000 Total % of whole count 100 100% 60% Percent Largest particle= 130 50% Summary Data Channel materials 40% 30% D16 = 9.4 D84 = 57.3 D35 = 16.0 D95 = 90.0 D50 = 25.1 D100 = 128 - 180 20% 10% 0% Particle Size Class (mm)

U. Silver Creek Mitigation Project, DMS# 94645

DATE:

SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOC.	ATION:	Riffle at XS7	7			
FEATURE:		Riffle				
DATE:		2-Nov-16				
				MY2 2016		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	3	3%	3%	0.25
Sand	Medium	.2550	5	5%	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			13%	4.0
	Fine	4.0 - 5.6	2	2%	15%	5.6
	Fine	5.6 - 8.0	8	8%	23%	8.0
Gravel	Medium	8.0 - 11.0	12	12%	35%	11.0
Glaver	Medium	11.0 - 16.0	15	15%	50%	16.0
	Coarse	16 - 22.6	8	8%	58%	22.6
	Coarse	22.6 - 32	4	4%	62%	32
	Very Coarse	32 - 45	3	3%	65%	45
	Very Coarse	45 - 64	13	13%	78%	64
	Small	64 - 90	11	11%	89%	90
Cobble	Small	90 - 128	4	4%	93%	128
Cobbie	Large	128 - 180	6	6%	99%	180
	Large	180 - 256	1	1%	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		100	100%		-



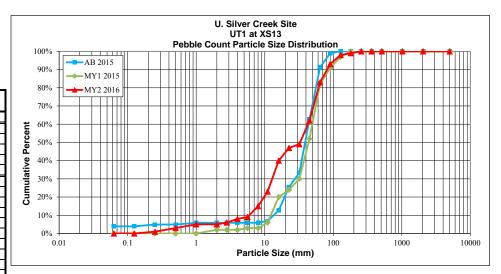


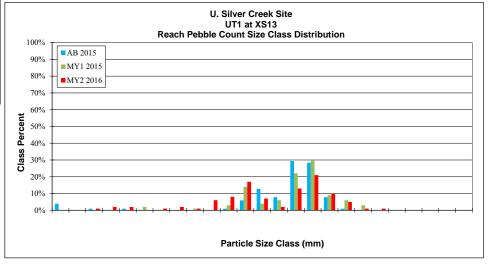
Largest particle= 160

Summary Data						
Channel materials						
D16 =	5.9	D84 =	77.1			
D35 =	11.0	D95 =	143.4			
D50 =	16.0	D100 =	180 - 256			

SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOCA	ATION:	UT1 XS13				
FEATURE:		Riffle				
DATE:		2-Nov-16				
				MY2 2016		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	2	2%	3%	0.50
	Coarse	.50 - 1.0	2	2%	5%	1.0
	Very Coarse	1.0 - 2.0			5%	2.0
	Very Fine	2.0 - 2.8	1	1%	6%	2.8
	Very Fine	2.8 - 4.0	2	2%	8%	4.0
	Fine	4.0 - 5.6	1	1%	9%	5.6
	Fine	5.6 - 8.0	6	6%	15%	8.0
Gravel	Medium	8.0 - 11.0	8	8%	23%	11.0
Gravei	Medium	11.0 - 16.0	17	17%	40%	16.0
	Coarse	16 - 22.6	7	7%	47%	22.6
	Coarse	22.6 - 32	2	2%	49%	32
	Very Coarse	32 - 45	13	13%	62%	45
	Very Coarse	45 - 64	21	21%	83%	64
	Small	64 - 90	10	10%	93%	90
Cobble	Small	90 - 128	5	5%	98%	128
Conne	Large	128 - 180	1	1%	99%	180
	Large	180 - 256	1	1%	100%	256
Boulder	Small	256 - 362			100%	362
	Small	362 - 512			100%	512
	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total % o	of whole count		100	100%		
	Largest particle=	210				

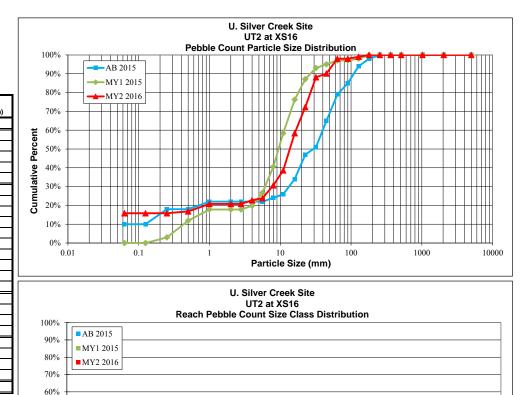
 $\begin{tabular}{|c|c|c|c|c|c|} \hline Summary Data \\ \hline Channel materials \\ \hline \hline D16 = 8.3 & D84 = 66.2 \\ \hline D35 = 14.3 & D95 = 103.6 \\ \hline D50 = 32.9 & D100 = 180 - 256 \\ \hline \end{tabular}$

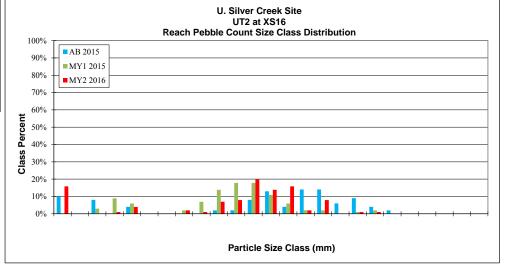




SITE OR PRO	JECT:	U. Silver Cr				
REACH/LOC	ATION:	UT2 XS16				
FEATURE:		Riffle				
DATE:		2-Nov-16				
				MY2 2016		Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063	16	16%	16%	0.063
	Very Fine	.063125			16%	0.125
	Fine	.12525			16%	0.25
Sand	Medium	.2550	1	1%	17%	0.50
	Coarse	.50 - 1.0	4	4%	21%	1.0
	Very Coarse	1.0 - 2.0			21%	2.0
	Very Fine	2.0 - 2.8			21%	2.8
	Very Fine	2.8 - 4.0	2	2%	23%	4.0
	Fine	4.0 - 5.6	1	1%	24%	5.6
	Fine	5.6 - 8.0	7	7%	31%	8.0
Gravel	Medium	8.0 - 11.0	8	8%	39%	11.0
Giavei	Medium	11.0 - 16.0	20	20%	58%	16.0
	Coarse	16 - 22.6	14	14%	72%	22.6
	Coarse	22.6 - 32	16	16%	88%	32
	Very Coarse	32 - 45	2	2%	90%	45
	Very Coarse	45 - 64	8	8%	98%	64
	Small	64 - 90			98%	90
Cobble	Small	90 - 128	1	1%	99%	128
Cobble	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 %	of whole count		101	100%		
	Largest particle=	165				-

Summary Data						
Channel materials						
D16 =	0.3	D84 =	29.2			
D35 =	9.5	D95 =	56.0			
D50 =	13.6	D100 =	128 - 180			

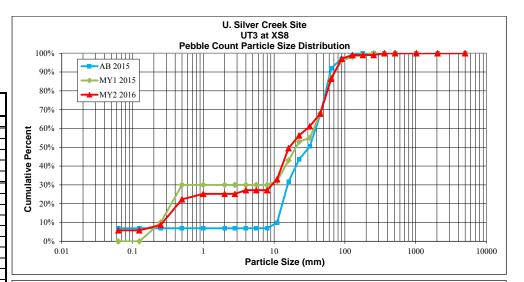




SITE OR PRO	JECT [.]	U. Silver Cr				
REACH/LOCA		UT3 XS8				
FEATURE:		Riffle				
DATE:		2-Nov-16				
		MY2 2016				Distribution
MATERIAL	PARTICLE	SIZE (mm)	Total	Class %	% Cum	Plot Size (mm)
Silt/Clay	Silt / Clay	< .063	6	6%	6%	0.063
	Very Fine	.063125			6%	0.125
	Fine	.12525	3	3%	9%	0.25
Sand	Medium	.2550	14	14%	22%	0.50
	Coarse	.50 - 1.0	3	3%	25%	1.0
	Very Coarse	1.0 - 2.0			25%	2.0
	Very Fine	2.0 - 2.8			25%	2.8
	Very Fine	2.8 - 4.0	2	2%	27%	4.0
	Fine	4.0 - 5.6			27%	5.6
	Fine	5.6 - 8.0			27%	8.0
Gravel	Medium	8.0 - 11.0	6	6%	33%	11.0
Graver	Medium	11.0 - 16.0	17	17%	50%	16.0
	Coarse	16 - 22.6	7	7%	56%	22.6
	Coarse	22.6 - 32	5	5%	61%	32
	Very Coarse	32 - 45	7	7%	68%	45
	Very Coarse	45 - 64	19	18%	86%	64
	Small	64 - 90	11	11%	97%	90
Cobble	Small	90 - 128	2	2%	99%	128
Conne	Large	128 - 180			99%	180
	Large	180 - 256			99%	256
Boulder	Small	256 - 362	1	1%	100%	362
	Small	362 - 512			100%	512
Boulder	Medium	512 - 1024			100%	1024
	Large-Very Large	1024 - 2048			100%	2048
Bedrock	Bedrock	> 2048			100%	5000
Total % c	of whole count		103	100%		

Largest particle= 320

Summary Data						
Channel materials						
D16 =	0.4	D84 =	61.1			
D35 =	11.5	D95 =	84.2			
D50 =	16.4	D100 =	256 - 362			



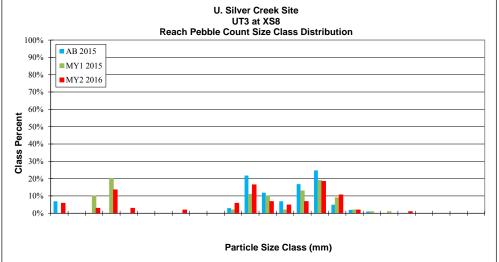


Table 10. Monitoring Year 2 Stream Summary

Upper Silver Creek Restoration Project: DMS Project ID No. 94645 ilver Creek Mainstem **Reference Reach Data** eter Pre-Existing Condition¹ Mean Med Max
 Regional Curve Interval ^{1.2}

 NC Mtn./NC Pied. Rural

 29.0
 19.0
 Morgan Creek Gauge
 Min
 Mean
 Med
 Max
 SD
 n

 23.8
 27.0
 27.5
 29.1
 2.0
 4

 >300
 n Mean 5 25.0 >300 7 1.8 to Diff. Min Min Min Mean Med 26.0 -Med Max n n BF Width Floodprone Width BF Mean Depth BF Max Depth 21.2 453.0 18.5 397.0 453.0 1.6 2.1 2.2 -1.7 2.9 1.9 2.1 0.18 1.9 2.93 3.9 55.2 8.8 24 2.4 2.9 79.8 4 2.29 3.3
 2.9
 3.1
 3.2
 3.3
 0.2
 4

 46.9
 49.7
 48.6
 54.5
 2.9
 4

 11.8
 14.8
 15.1
 17.3
 2.4
 4

 3.1
 3.7
 3.5
 4.8
 0.7
 4

 2.8
 3.0

 43.4
 45.4

 12.4
 13.8

 3.3
 4.0

 1.0
 1.0
 46.0 45.0 BF Cross-sectional Area (Width/Depth Ra 46.3 7.4 19.6 56.0 14.7 2.6 15.3 17.4 Entrenchment F Bank Height Rat 1.07 1.5 1.0 1.0 1 1.1 1.0 1.03 1.00 1.1 0.0 4 d50 (
 99.0
 133.3
 137.7
 157.9
 19.24
 13

 52.6
 57.2
 55.0
 67.9
 5.03
 8

 1.95
 2.12
 2.04
 2.51
 0.19
 8

 172.0
 225.4
 20.7
 310.0
 49.3
 8

 6.4
 8.3
 7.5
 11.5
 1.8
 8

 99.0
 133.3

 52.6
 57.2

 1.95
 2.12
 Channel Beltwidth (Radius of Curvature (Rc:Bankfull width (ft/ 45 16 106 62 3.1 139 5.4 104 47 208 73 2.8 312 12.0 1.8 59 Meander Wavelength 172.0 225.4 6.4 8.3 2.3 Meander Width R
 36.7
 50.3
 44.7
 89.4
 15.1
 10.0

 0.0013
 0.0078
 0.0067
 0.0152
 0.0041
 10.0

 50.4
 97.1
 94.0
 136.6
 20.4
 16.0

 113.7
 145.8
 140.1
 210.4
 29.6
 15

 4.0
 4.8
 5.2
 5.3
 0.58
 3

 12.1
 50.0

 0.0000
 0.0076

 42.7
 80.3

 42.8
 115.2

 3.9
 4.3
 Riffle Length 0.108 135 162 4.08 Riffle Slope (ft/ Pool Length (f Pool Spacing (f Pool Max Depth (f 0.001 0.014 0.024 0.005 0.008 40 3.97 Pool Volume (ers Ri% / Ru% / P% / G% / 1 SC% / Sa% / G% / B% / B d16 / d35 / d50 / d84 / d -- - -- --- - --. . . . -1.0 / 8.4 / 17 / 43 / 57 mean 6.4 / mean 11.2 / 21.8 / 35.0 / 66.6 /126.9 Reach Shear Stress (competency) lb Max part size (mm) mobilized at bankfull (Rosgen Cur 0.035 1.13 0.5 29 40 34 Stream Power (transport capacity) W 2.73 - <5% E <5% C 4.21 229.3 3.35 8.4 2.73 3.35 Drainage Area 3.0 3.35 2.73 2.73 <5% <5% Impervious cover estimate (Rosgen Classificati 4.20 230.0 1947.0 BF Velocity (ft 2.8 4.9 4.27 524 BF Discharge (o 232.0 196.0 213.2 180 240 1947 1947.0 Valley Leng 1947.0 Channel length (ft Sinuosi 3016 1.55 0.0043 0.004 5.2 3179 1.63 0.0040 3068 1.58 3016 -1.55 0.0043 0.004 Simuosi Water Surface Slope (Channel) (ft/J BF slope (ft/f Bankfull Floodplain Area (acre BEHI VL% / L% / M% / H% / VH% / E% Channel Stability or Habitat Met Biological or Oth 0.0070 0.003 0.008 2.1 5.2 5.2 Biological or O 1999. Bozeman, MT. Harman, W.A., G.D. Jennings, J.M. Patterson, D.R. Clinton, L.O. Slate, Harman, W.A., D.E. Wise, M.A. Walker, R. Morris, MA Cantrell, M. Ch USGS Reference Reach Dat meter Regional Curve Interval 1,2 Pre-Existing Condition¹ Design As-built Gauge UT3 upstream of Gold Mine Roa
 Mean

 9.3

 >150

 0.8

 1.1

 7.0

 12.3

 5.2
 NC Mtn./NC Pied. Rural Mean Med Max sion and Substrate - Riffle Min Min Mean Min Mean Med Max Mean Med Max Min BF Width Floodprone Width 11.9 6.9 6.1 10.9 9.3 60.5 6.3 7.9 9.5 9.6 >150 4 60.5 19 10.9 BF Mean Depth (BF Max Depth (ss-sectional Area (Width/Depth Rat Entrenchment Ra 0.7 1.0 0.9 1.3 8.9 0.95 1.50 2.07 0.9 2.07 9.07 9.6 10 9.1 9.0 6.5 9.0 10.3 5.2 1.00 43.6 Bank Height R d50 (n 3.0 1.0 1.0 1.00 38.8 1.0 18.0 3.0
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 21.4
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 2.23
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 Channel Beltwidth (Radius of Curvature () Rc:Bankfull width (ft/ Meander Wavelength (Meander Width Rat
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 0.0185
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 35.1
 41.7
 6.6
 5

 9.9
 18.5
 18.1
 30.5
 6.3

 0.0098
 0.0207
 0.0200
 0.0387
 0.0107

 8.6
 26.9
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 40.6
 10.9
 Riffle Length - 0.013 - 0.054 - 0.039 0.022 0.018 0.0165 Riffle Slope (ft/f Pool Length (f

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м	V1					м	V2		
Med	Max	SD		Min	Maria	Med	Max	SD	
			n		Mean				n
25.2	26.1	1.0	4	23.5	24.9	25.1	25.8	0.837	4
-	-	-	-	-	>300	-	-	-	-
1.8	2.0	0.11	4	1.7	1.8	1.8	1.8	0.061	4
3.0	3.2	0.2	4	2.8	3.0	3.0	3.2	0.162	4
43.8	50.6	3.0	4	41.1	44.0	43.7	47.6	2.513	4
13.6	15.7	1.2	4	13.5	14.1	13.9	15.0	0.593	4
3.8	4.9	0.6	4	3.5	4.0	3.8	4.9	0.545	4
1.0	1.0	0.00	4	0.0	0.8	1.0	1.0	0.433	4
-	-	-	-	-	-	-	-	-	-
137.7	157.9	19.24	13	99.0	133.3	137.7	157.9	19.24	13
55.0	67.9	5.03	8	52.6	57.2	55.0	67.9	5.03	8
2.04	2.51	0.19	8	1.95	2.12	2.04	2.51	0.19	8
201.7	310.0	49.3	8	172.0	225.4	201.7	310.0	49.3	8
7.5	11.5	1.8	8	6.4	8.3	7.5	11.5	1.8	8
1.2	11.2	1.0	0	0.7	0.5	1.2	11.2	1.0	0
47.6	83.8	17.0	16	27.3	56.3	57.2	86.5	16.7	15
0.0055	0.0231	0.0073	16	0.0013	0.0058	0.0049	0.0130	0.0036	15
87.7	116.8	22.6	16	16.7	80.0	83.7	126.0	26.7	15
120.5	191.4	36.6	19	48.1	113.6	116.6	202.2	42.0	20
4.0	5.0	0.48	3	3.8	4.0	4.0	4.3		3
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8.8 / 28.3 /	66.9/107.5		2		mean 77/	13.5 / 20.6 /			2
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Med	Max	SD	n	Min	Mean	Med	Max	SD	n
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44.6	70.1	13.08	5	33.3	49.6	44.6	70.1	13.08	5

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19.2 36.2 36.8 56.1 2.6

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8.3/ 14.3 / 32.9 / 66.2 / 103.6

3.35

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<5% C 3.48 24.4 367.0 495 1.36 0.0162 0.0161 5.2

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 10.8
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Table 10. Monitoring Year 2 Stream Summary Upper Silver Creek Restoration Project: DMS Project ID No. 94645

UT2 Reference Reach Data USCS Pre-Existing Condition¹ Design As-built Regional Curve Interval 1,2
 Min
 Mean

 5.8

 >100

 0.4

 0.8

 2.2

 15.7

 7.1
 NC Mtn./NC Pied. Rural 6.0 3.1 -Mean 6.6 >100 0.4 Min 3.1 5.1 Mean Med Max Min Mean 6.0 Med Max Med Max sion and Substrate - Riffle Min Mean Min BF Width (; Floodprone Width (; BF Mean Depth (f BF Max Depth (f oss-sectional Area (ff Width/Depth Ratis Entrenchment Ratis Bank Height Ratis d50 (nm) n - 120.0 60 0.4 0.6 1.4 2.9 4.0 1.9 1.1 2.8 3.5 0.6 0.9 2.7 2.6 2.6 BF Cro 16.0 7.0 12.0 3.0 10 20 1.9 1.6 1.0 2.2 2.4 1.1 1.2 1 d50 (m 18.00 9.5 3.0 29.3 Channel Beltwidth (Radius of Curvature (Rc:Bankfull width (ft/ 30 18 3.0
 30.4
 32.6
 32.2
 35.3
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 3

 14.3
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 14.4
 17.7
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 3

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 14.3
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 52.1
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 7.9
 8.3
 22 2.68 feander Wavelength Meander Width Ra 8.7 14.5 0.0000 0.0130 Riffle Length (f Riffle Slope (ft/f Pool Length (f Pool Spacing (f Pool Max Depth (f 0.057 0.013 -0.054 0.033 0.014 0.014 26.03 2.9 11.9 14.8 32.9 62.3 39.9 1.8 0.8 1.4 1.7 Pool Volume (Ri% / Ru% / P% / G% / SC% / Sa% / G% / B% / B% d16 / d35 / d50 / d84 / d9 Reach Shear Stress (competency) lb/ 5.6 / 13 / 18 / 43 / 60 0.2 / 16.4 / 29.3 / 85.0 / 139 0.2 0.6 0.3 Max part size (mm) mobilized at bankfull (Rosgen Cur Stream Power (transport capacity) W 6.5 28.5 33 45 nal Reach Parameters 0.05 Drainage Area (0.05 0.12 0.05 2.73 3.35 2 73 <5% <5% Impervious cover estimate Rosgen Classificati BF Velocity (fp G/B³ E/Bc Cb, C 3.50 C 2.92 C 2.98 BF Discharge (cl Valley Lengt 18 11 8.0 248.0 6.4 248.0 9.5 9 10.0 248.0 194 209 1.08 134.5 1.05 0.0197 310 1.2 0.0241 0.0203 5.2 Channel length (f Sinuosi 333 310 Simuosi Water Surface Slope (Channel) (ft/l BF slope (ft/l Bankfull Floodplain Area (acre BEHI VL% / L% / M% / H% / VH% / E Channel Stability or Habitat Metr Bibliotical or Oth 0.0101 0.0198 0.0077 0.0175 5.2 0.0295 0.0272 0.024 Biological Iarman, W.A., G.D. Jennings, J.M. Patterson, D.R. Clinton, L.O. Slate, a arman, W.A., D.E. Wise, M.A. Walker, R. Morris, MA Cantrell, M. Cle . D.R. Clinton, J.M. Pa erson. 2000. Bankfull Re reams. In: AWR/ 28. D.L. Kane, editor, American Water its. Anchorage, Alaska. Reference Reach Data USGS Regional Curve Interval 1,2 Pre-Existing Condition¹ ameter As-built Design Gauge Morgan Creek NC Mtn./NC Pied. Rural nsion and Substrate - Riffle Min Mean Med Max SD Min Mean Max Min Mean Med Max
 Min
 Mean
 Med
 Max
 SD

 8.1
 8.8
 8.2
 10.1
 0.91
 n Min Mean 3 7.0 7.9 n Med BF Width 9.8 5.5 8.0 Floodprone Width 48.0 BF Mean Depth 0.8 0.8 0.6 0.90 2.0 BF Max Depth 1.4 ss-sectional Area (ft Width/Depth Rat 6.4 6.3 5.93 6.5 11.7 3 6.0 BF Cross 8.9 Entrenchment Rat Bank Height Rat d50 (mm 2.4 1.0 16.00 Channel Beltwidth (Radius of Curvature (Rc:Bankfull width (ft/ Meander Wavelength (Meander Width Rat 56 21 3 84
 36.4
 47.0
 48.4
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 7

 14.0
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 25.1
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 44 11 2.5 49 94 30 6.7 72 25 75 10.9 12.8 6.4 10.5 8.5 8.1 10.7 1.17 8.5 Riffle Length (fr Riffle Slope (ft/fr Pool Length (fr 13.1 21.1 20.6 28.2 4.50 11 10.8 24.3 0.022 40 42 2.8 0.0305 65 0.054 0.0052 0.0130 17.4 0.0160 0.0 0.0 15.0 25.6 25 20 Pool Spacing (f Pool Max Depth (f 40 1.8 140 1.8 39.9 62.3 1.8 18 32.7 52.2 1.6 1.7 1.8 1.6 Pool Volume (rate and Trai Ri% / Ru% / P% / G% / S' SC% / Sa% / G% / B% / Be' d16 / d35 / d50 / d84 / d9 -----/ 17.6 / 31.2 / 57.0 / 3 1.0/8.4/1 Reach Shear Stress (competency) lh Max part size (mm) mobilized at bankfull (Rosgen Curv Stream Power (transport capacity) W/n nal Reach Parameters 0.55 0.6 0.8 0.2 0.6 - 25 - 45 Drainage Area (S 0.14 0.17 0.1 0.14 0.17 0.14 0.17 0.14 -5% E 3.17 16.8 1015 <5% <5% ious cover estimate (% Rosgen Classification BF Velocity (fp BF Discharge (cf Valley Lengt - <5% - E -E/Bc 4.9 15 26.0 24.0 Channel length (f 1210 135 1.05 1332 1348 1348 1.33 Sinuo Smuosi Water Surface Slope (Channel) (ft/f BF slope (ft/f Bankfull Floodplain Area (acre-BEHI VL% / L% / M% / H% / VM% / E Channel Stability or Habitat Metri Channel Stability or Habitat Metri 0.0150 0.012 0.2 0.0130 0.0128 0.013 0.0128
0.013 --

Biological or Other

MICHAEL BAKER ENGINEERING, INC. YEAR 2 MONITORING REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

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| - | - | - | 1 | - | 8.7 | -

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| 22.2 | 26.2 | 2.02 | 2 | 20.4 | 22.6 | 20.0

 | 26.2 | 2.02 | 2
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 | | | | | | | | | | | | | |
| 32.2
14.4 | 35.3 | 2.02 | 3 | 30.4
14.3 | 32.6 | 32.2
14.4

 | 35.3
17.7 | 2.02 | 3
 | | | | | |
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| 2.18 | 2.68 | 0.24 | 3 | 2.17 | 2.34 | 2.18

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| 54.9
8.3 | 57.6
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Table 11. Morphology and Hydraulic Monitoring Summary

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

Silver Creek (3,016 LF)																						
				n X-1, Station 2724.3 (Rift	,			Cross-section X-2, Stati	()					X-3, Station 189	()					X-4, Station 1793.	(
Dimension and substrate	Base	MY1	MY2	MY3 MY4	MY5 MY	Base	MY1	MY2 MY3	MY4 MY	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3 M	IY4 N	1Y5 MY+
Based on fixed baseline bankfull elevation																						
BF Width (ft)	29.1	24.6	24.9			35.7	29.5	34.0			43.5	39.5	42.0				23.8	23.5	23.5			
BF Mean Depth (ft)	1.7	1.8	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	13.9	13.8			21.8	16.8	23.3			25.2	27.3	35.2				11.8	12.4	13.5			
BF Cross-sectional Area (ft ²)	49.2	43.4	45.0			58.3	51.9	49.6			74.9	57.3	50.2				48.0	44.2	41.1			
BF Max Depth (ft)	3.0	2.9	3.2			4.0	3.9	4.3			5.2	4.0	4.0				3.3	3.2	3.1			
Width of Floodprone Area (ft)	>300	>300	>300			>300	>300	>300			>300	>300	>300				>300	>300	>300			
Entrenchment Ratio	3.3	3.9	3.8			2.5	3.0	2.6			2.1	2.3	2.2				3.7	3.7	3.7			
Bank Height Ratio	1.1	1.0	1.1			1.0	1.0	1.0			0.7	0.7	0.9				1.0	1.0	1.0			
Wetted Perimeter (ft)	32.4	28.1	28.5			38.9	33.0	36.9			46.9	42.4	44.4				27.8	27.3	27.0			
Hydraulic Radius (ft)	1.5	1.5	1.6			1.5	1.6	1.3			1.6	1.4	1.1				1.7	1.6	1.5			
Fixed baseline bankfull elevation	1197.4	1197.4	1197.4			1198.2	1198.2	1198.2			1202.3	1202.3	1202.3				1203.0	1203.0	1203.0			
Based on current/developing bankfull feature			1				T							· · · · ·		•		1				
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) Entrenchment Ratio	>300	>300	>300			>300	>300	>300 >2.5			>300	>300	>300				>300	87.3 3.7	>300			
Bank Height Ratio	3.3 1.1	1.0	>3./			2.5	3.0	>2.5			0.7	0.7	2.2				3.7	3.7	1.0			
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			40.9	1.4	1.1				1.7	1.6	1.5			
	1.5	1.5	1.0			1.5	1.0	1.4			1.0		1.1				1.7	1.0	1.5			
Cross Sectional Area between end pins (ff)	-	-				-	-				-	-					-	-				
d50 (mm)	-	-				-	-				-	-					36.6	41.3	25.1			
* Corrected from baseline report.			C	n X-5. Station 1206.9 (Rif	C1 - \	-		Cross-section X-6. Stat					C	on 7. Station 302.	(D:691-)							
Dimension and substrate	Base	MY1	MY2	MY3 MY4	MY5 MY	Base	MY1	MY2 MY3		MY+	Base	MY1	MY2	,	MY4 MY5	MY+	Base	MY1	MY2	MY3 M	IY4 N	IY5 MY+
Based on fixed baseline bankfull elevation	Buse					Buse					Buse						Duse					
BF Width (ft)	28.4	26.1	25.2			43.5	44.0			1		25.9	25.0	-								
BF Mean Depth (ft)	1.7		23.2				419	34.6			26.6											
Width/Depth Ratio		17	17				41.9	34.6			26.6		25.8									
BF Cross-sectional Area (ft ²)		1.7	1.7 15.0			1.8	1.8	1.7			2.1	2.0	1.8									
Dr Uross-sectional Area (II ²)	17.3	15.7	15.0			1.8 23.6	1.8 23.9	1.7 20.5			2.1 13.0	2.0 13.3	1.8 14.0									
	17.3 46.9	15.7 43.4	15.0 42.3			1.8	1.8 23.9 73.5	1.7 20.5 58.3			2.1	2.0 13.3 50.6	1.8 14.0 47.6									
BF Max Depth (ft)	17.3 46.9 2.9	15.7 43.4 2.8	15.0 42.3 2.8			1.8 23.6 80.1	1.8 23.9	1.7 20.5 58.3 3.8			2.1 13.0 54.5	2.0 13.3 50.6 3.2	1.8 14.0 47.6 3.0									
	17.3 46.9	15.7 43.4	15.0 42.3			1.8 23.6 80.1 5.3	1.8 23.9 73.5 5.0	1.7 20.5 58.3			2.1 13.0 54.5 3.3	2.0 13.3 50.6	1.8 14.0 47.6									
BF Max Depth (ft) Width of Floodprone Area (ft)	17.3 46.9 2.9 >300	15.7 43.4 2.8 >300	15.0 42.3 2.8 >300			1.8 23.6 80.1 5.3 >300	1.8 23.9 73.5 5.0 >300	1.7 20.5 58.3 3.8 >300			2.1 13.0 54.5 3.3 >300	2.0 13.3 50.6 3.2 >300	1.8 14.0 47.6 3.0 >300									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ \end{array} $	15.7 43.4 2.8 >300 3.3	15.0 42.3 2.8 >300 3.5			1.8 23.6 80.1 5.3 >300 1.6	$ \begin{array}{r} 1.8 \\ 23.9 \\ 73.5 \\ 5.0 \\ >300 \\ 1.6 \\ \end{array} $	1.7 20.5 58.3 3.8 >300 2.0			2.1 13.0 54.5 3.3 >300 4.8	2.0 13.3 50.6 3.2 >300 4.9	$ \begin{array}{r} 1.8 \\ 14.0 \\ 47.6 \\ 3.0 \\ >300 \\ 4.9 \\ \end{array} $									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ \end{array} $	$ \begin{array}{r} 15.7 \\ 43.4 \\ 2.8 \\ \hline >300 \\ 3.3 \\ 1.0 \\ \end{array} $	15.0 42.3 2.8 >300 3.5 1.0			$ \begin{array}{r} 1.8 \\ 23.6 \\ 80.1 \\ 5.3 \\ >300 \\ 1.6 \\ 1.0 \\ \end{array} $	$ \begin{array}{r} 1.8 \\ 23.9 \\ 73.5 \\ 5.0 \\ >300 \\ 1.6 \\ 0.9 \\ \end{array} $	1.7 20.5 58.3 3.8 >300 2.0 1.0			$\begin{array}{c} 2.1 \\ 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.0 \end{array}$	$ \begin{array}{r} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ \end{array} $	$ \begin{array}{r} 1.8 \\ 14.0 \\ 47.6 \\ 3.0 \\ >300 \\ 4.9 \\ 1.0 \\ \end{array} $									
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BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ \end{array} $	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5	$ \begin{array}{c} 15.0 \\ 42.3 \\ 2.8 \\ >300 \\ 3.5 \\ 1.0 \\ 28.6 \\ 1.5 \\ \end{array} $			$ \begin{array}{r} 1.8\\23.6\\80.1\\5.3\\>300\\1.6\\1.0\\47.2\\1.7\end{array} $	$ \begin{array}{c} 1.8 \\ 23.9 \\ 73.5 \\ 5.0 \\ >300 \\ 1.6 \\ 0.9 \\ 45.4 \\ 1.7 \\ \end{array} $	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5			$\begin{array}{c} 2.1 \\ 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.0 \\ 30.7 \\ 1.8 \end{array}$	2.0 13.3 50.6 3.2 >300 4.9 1.0 29.8 1.7	1.8 14.0 47.6 3.0 >300 4.9 1.0 29.5 1.6									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevation	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ \end{array} $	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5	$ \begin{array}{c} 15.0 \\ 42.3 \\ 2.8 \\ >300 \\ 3.5 \\ 1.0 \\ 28.6 \\ 1.5 \\ \end{array} $			$ \begin{array}{r} 1.8\\23.6\\80.1\\5.3\\>300\\1.6\\1.0\\47.2\\1.7\end{array} $	$ \begin{array}{c} 1.8 \\ 23.9 \\ 73.5 \\ 5.0 \\ >300 \\ 1.6 \\ 0.9 \\ 45.4 \\ 1.7 \\ \end{array} $	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5			$\begin{array}{c} 2.1 \\ 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.0 \\ 30.7 \\ 1.8 \end{array}$	2.0 13.3 50.6 3.2 >300 4.9 1.0 29.8 1.7	1.8 14.0 47.6 3.0 >300 4.9 1.0 29.5 1.6									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \end{array} $	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8	15.0 42.3 2.8 >300 3.5 1.0 28.6 1.5 1208.8			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} 1.8\\23.9\\73.5\\5.0\\>300\\1.6\\0.9\\45.4\\1.7\\1208.1\end{array} $	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1			$\begin{array}{c} 2.1 \\ 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.0 \\ 30.7 \\ 1.8 \\ 1208.2 \end{array}$	2.0 13.3 50.6 3.2 >300 4.9 1.0 29.8 1.7 1208.2	$ \begin{array}{r} 1.8\\ 14.0\\ 47.6\\ 3.0\\ >300\\ 4.9\\ 1.0\\ 29.5\\ 1.6\\ 1208.2 \end{array} $									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ 28.4 \\ \end{array} $	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$ \begin{array}{c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ 43.5\\ 1.8\\ 23.6\\ \end{array} $	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ 4.8 \\ 1.0 \\ 30.7 \\ 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ 13.0 \\ \end{array}$	2.0 13.3 50.6 3.2 >300 4.9 1.0 29.8 1.7 1208.2 25.9	$\begin{array}{c} 1.8 \\ 14.0 \\ 47.6 \\ 3.0 \\ >300 \\ 4.9 \\ 1.0 \\ 29.5 \\ 1.6 \\ 1208.2 \\ \hline \\ 26.8 \\ 1.8 \\ 14.1 \\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²)	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ 3.00 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ \end{array} $	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ 13.0 \\ 54.5 \\ \end{array}$	2.0 13.3 50.6 3.2 >300 4.9 1.0 29.8 1.7 1208.2 25.9 2.0 13.3 50.6	$\begin{array}{c} 1.8 \\ 14.0 \\ 47.6 \\ 3.0 \\ >300 \\ 4.9 \\ 1.0 \\ 29.5 \\ 1.6 \\ 1208.2 \\ \hline \\ 26.8 \\ 1.8 \\ 14.1 \\ 51.0 \\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior 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)	$ \begin{array}{r} 17.3 \\ 46.9 \\ 2.9 \\ 3.00 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ \end{array} $	15.7 43.4 2.8 >300 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8	$\begin{array}{c ccccc} 15.0 \\ 42.3 \\ 2.8 \\ >300 \\ 3.5 \\ 1.0 \\ 28.6 \\ 1.5 \\ 1208.8 \\ \hline \\ 25.8 \\ 1.7 \\ 15.3 \\ 43.3 \\ 2.8 \\ \end{array}$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ \end{array}$	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ 41.9\\ 1.8\\ 23.9\\ 73.5\\ 5.0\\ \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ >300 \\ 4.8 \\ \hline 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ \end{array}$	2.0 13.3 50.6 3.2 >300 4.9 1.0 29.8 1.7 1208.2 25.9 2.0 13.3 50.6 3.2	$\begin{array}{c} 1.8 \\ 14.0 \\ 47.6 \\ 3.0 \\ >300 \\ 4.9 \\ 1.0 \\ 29.5 \\ 1.6 \\ 1208.2 \\ \hline \\ 26.8 \\ 1.8 \\ 14.1 \\ 51.0 \\ 3.1 \\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior 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)	$\begin{array}{c} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ \end{array}$	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 28 2300	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ \end{array}$	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ 41.9\\ 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ \hline 3.3 \\ >300 \\ 4.8 \\ \hline 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ \hline 3.3 \\ >300 \\ \end{array}$	$\begin{array}{c} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ 1.7 \\ 1208.2 \\ \hline \\ 25.9 \\ 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ \end{array}$	$\begin{array}{c} 1.8\\ 14.0\\ 47.6\\ 3.0\\ >300\\ 4.9\\ 1.0\\ 29.5\\ 1.6\\ 1208.2\\ \hline \\ 26.8\\ 1.8\\ 14.1\\ 51.0\\ 3.1\\ >300\\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width leevatior 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} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ \end{array} $	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3	$\begin{array}{c ccccc} 15.0 \\ 42.3 \\ 2.8 \\ >300 \\ 3.5 \\ 1.0 \\ 28.6 \\ 1.5 \\ 1208.8 \\ \hline \\ 25.8 \\ 1.7 \\ 15.3 \\ 43.3 \\ 2.8 \\ >300 \\ >3.4 \\ \end{array}$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ \end{array}$	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ 41.9\\ 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ 4.8 \\ \hline 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ 4.8 \\ \end{array}$	$\begin{array}{c} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ 1.7 \\ 1208.2 \\ \hline \\ 25.9 \\ 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ \end{array}$	$\begin{array}{c} 1.8\\ 14.0\\ 47.6\\ 3.0\\ >300\\ 4.9\\ 1.0\\ 29.5\\ 1.6\\ 1208.2\\ \hline \\ 26.8\\ 1.8\\ 14.1\\ 51.0\\ 3.1\\ >300\\ >4.7\\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width leevatior 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	$\begin{array}{c} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ \hline \end{array}$	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ \end{array}$	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ 41.9\\ 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.10 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ \hline \end{array}$	$\begin{array}{c} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ 1.7 \\ 1208.2 \\ \hline \\ 25.9 \\ 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ \end{array}$	$\begin{array}{c} 1.8 \\ 14.0 \\ 47.6 \\ 3.0 \\ >300 \\ 4.9 \\ 1.0 \\ 29.5 \\ 1.6 \\ 1208.2 \\ \hline \\ 26.8 \\ 1.8 \\ 14.1 \\ 51.0 \\ 3.1 \\ >300 \\ >4.7 \\ 1.0 \\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft) Width of Floodprone Area (ft?) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	$\begin{array}{c} 17.3 \\ 46.9 \\ 2.9 \\ 300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ 300 \\ 3.1 \\ 1.0 \\ 31.7 \\ \end{array}$	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.0 29.4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ \end{array}$	$\begin{array}{c c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ & \\ 23.9\\ 73.5\\ 5.0\\ >300\\ >300\\ 1.6\\ 0.9\\ 45.4 \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.0 3.8 >300 2.0 1.0 38.0			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ 30.7 \\ \hline \end{array}$	$\begin{array}{c} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ 1.7 \\ 1208.2 \\ \hline \\ 25.9 \\ 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ \end{array}$	$\begin{array}{c} 1.8\\ 14.0\\ 47.6\\ 3.0\\ >300\\ 4.9\\ 1.0\\ 29.5\\ 1.6\\ 1208.2\\ \hline \\ 26.8\\ 1.8\\ 14.1\\ 51.0\\ 3.1\\ >300\\ >4.7\\ 1.0\\ 30.5\\ \hline \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior 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 Bank Height Ratio	$\begin{array}{c} 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ >300 \\ 3.1 \\ 1.0 \\ \hline \end{array}$	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ \end{array}$	$\begin{array}{c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ 41.9\\ 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.10 38.0 1.5 1208.1			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ \hline \end{array}$	$\begin{array}{c} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ 1.7 \\ 1208.2 \\ \hline \\ 25.9 \\ 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ \end{array}$	$\begin{array}{c} 1.8\\ 14.0\\ 47.6\\ 3.0\\ >300\\ 4.9\\ 1.0\\ 29.5\\ 1.6\\ 1208.2\\ \hline \\ 26.8\\ 1.8\\ 14.1\\ 51.0\\ 3.1\\ >300\\ >4.7\\ 1.0\\ \end{array}$									
BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft) Width of Floodprone Area (ft?) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft)	$\begin{array}{c} 17.3 \\ 46.9 \\ 2.9 \\ 300 \\ 3.1 \\ 1.0 \\ 31.7 \\ 1.5 \\ 1208.8 \\ \hline \\ 28.4 \\ 1.7 \\ 17.3 \\ 46.9 \\ 2.9 \\ 300 \\ 3.1 \\ 1.0 \\ 31.7 \\ \end{array}$	15.7 43.4 2.8 >300 3.3 1.0 29.4 1.5 1208.8 26.1 1.7 15.7 43.4 2.8 >300 3.3 1.0 29.4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{c c} 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ 1.7\\ 1208.1\\ \hline \\ 43.5\\ 1.8\\ 23.6\\ 80.1\\ 5.3\\ >300\\ 1.6\\ 1.0\\ 47.2\\ \end{array}$	$\begin{array}{c c} 1.8\\ 23.9\\ 73.5\\ 5.0\\ >300\\ 1.6\\ 0.9\\ 45.4\\ 1.7\\ 1208.1\\ \hline \\ & \\ 23.9\\ 73.5\\ 5.0\\ >300\\ >300\\ 1.6\\ 0.9\\ 45.4 \end{array}$	1.7 20.5 58.3 3.8 >300 2.0 1.0 38.0 1.5 1208.1 34.6 1.7 20.5 58.3 3.8 >300 2.0 1.0 3.8 >300 2.0 1.0 38.0			$\begin{array}{c c} 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ 30.7 \\ \hline 1.8 \\ 1208.2 \\ \hline \\ 26.6 \\ 2.1 \\ \hline 13.0 \\ 54.5 \\ 3.3 \\ > 300 \\ \hline 4.8 \\ 1.0 \\ 30.7 \\ \hline \end{array}$	$\begin{array}{c} 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ 1.7 \\ 1208.2 \\ \hline \\ 25.9 \\ 2.0 \\ 13.3 \\ 50.6 \\ 3.2 \\ >300 \\ 4.9 \\ 1.0 \\ 29.8 \\ \end{array}$	$\begin{array}{c} 1.8\\ 14.0\\ 47.6\\ 3.0\\ >300\\ 4.9\\ 1.0\\ 29.5\\ 1.6\\ 1208.2\\ \hline \\ 26.8\\ 1.8\\ 14.1\\ 51.0\\ 3.1\\ >300\\ >4.7\\ 1.0\\ 30.5\\ \hline \end{array}$									

MICHAEL BAKER ENGINEERING, INC. MONITORING YEAR 2 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

UT1 (495 LF)																											
				n X-13, Station 1+5						Cross-section X-1																	
Dimension and substrate	Base	MY1	MY2	MY3 N	Y4	MY5	MY+	Base	MY1	MY2 I	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
Based on fixed baseline bankfull elevation			1										-		1	1	1		1	1		1		1	1	I	
BF Width (ft)	9.6	9.3	9.2					9.3	8.6	6.6			-														
BF Mean Depth (ft)	0.9	0.8	0.8					2.0	1.3	1.4			-									1					
Width/Depth Ratio BF Cross-sectional Area (ft ²)	10.3 8.9	12.3 7.0	12.2 7.0					4.7 18.5	6.8 10.9	4.8 9.0			-														
BF Cross-sectional Area (It-) BF Max Depth (ft)	1.3	1.1	1.1					3.7	2.5	2.6																	
Width of Floodprone Area (ft)	>150	>150	>150					>150	>150	>150			-														
Entrenchment Ratio	5.3	5.4	5.5					8.7	9.4	12.3																	
Bank Height Ratio	1.0	1.1	1.1					1.1	1.2	1.2												1					
Wetted Perimeter (ft)	11.5	10.8	10.7					13.3	11.1	9.3																	
Hydraulic Radius (ft)	0.8	0.6	0.7					1.4	1.0	1.0																	
Fixed baseline bankfull elevation	1204.0	1204.0	1204.0					1201.6	1201.6	1201.6																	
Based on current/developing bankfull feature																											
	1		1														1 1			1		1				F	
BF Width (ft)	9.6	9.8	10.0					9.3	11.0	8.3																	
BF Mean Depth (ft) Width/Depth Patia	0.9	0.8	0.82	+				2.0	1.4	1.6				 													
Width/Depth Ratio BF Cross-sectional Area (ft ²)	10.3 8.9	12.0 7.9	12.1 8.2	+				4.7 18.5	8.0 15.0	5.3 13.1																	
BF Cross-sectional Area (12) BF Max Depth (ft)	1.3	1.2	1.2	+				3.7	2.9	3.2																	
Width of Floodprone Area (ft)	>150	>150	>150					>150	>150	>150												<u> </u>					
Entrenchment Ratio	5.3	5.2	5.1	1 1				8.7	7.4	9.7																	
Bank Height Ratio	1.0	1.0	1.0					1.1	1.0	1.0																	
Wetted Perimeter (ft)	11.5	11.4	11.6					13.3	13.7	11.5																	
Hydraulic Radius (ft)	0.8	0.7	0.7					1.4	1.1	1.1																	
Cross Sectional Area between end pins (f_{t}^{2})	-	-						-	-																		
Cross Sectional Area between end pins (f ²) d50 (mm)	- 38.8	- 43.6	32.9					-	-																		
d50 (mm)	- 38.8		32.9					-																			
	- 38.8	43.6		n X-15. Station 2+1	(Pool)			-	-	Cross-section X-10	6. Station 2	2+53 (Riffle)															
d50 (mm) UT2 (310 LF)	- 38.8 Base	43.6		n X-15, Station 2+1 MY3 M		MY5	MY+	- - Base	-	Cross-section X-10 MY2		2+53 (Riffle) MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) UT2 (310 LF) Dimension and substrate		43.6	Cross-sectio			MY5	MY+	- - Base	-				MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) UT2 (310 LF)		43.6	Cross-sectio			MY5	MY+	- - Base 6.6	-				MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation	Base	43.6 MY1	Cross-sectio MY2			MY5	MY+		- (MY1	MY2 I			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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	43.6 MY1 6.4	Cross-sectio MY2 5.6			MY5	MY+	6.6	- MY1 5.8	MY2 1 4.7			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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	43.6 MY1 6.4 0.5 13.9 3.0	Cross-sectio MY2 5.6 0.5 12.3 2.5			MY5	MY+	6.6 0.4 16.0 2.7	- MY1 5.8 0.4 15.7 2.2	MY2 1 4.7 0.3 14.5 1.5			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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	43.6 MY1 6.4 0.5 13.9 3.0 0.8	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7			MY5	MY+	6.6 0.4 16.0 2.7 0.9	- MY1 5.8 0.4 15.7 2.2 0.8	MY2 1 4.7 0.3 14.5 1.5 0.6			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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?) BF Max Depth (ft) Width of Floodprone Area (ft)	Base 7.3 0.8 8.9 6.1 1.7 >100	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100			MY5	MY+	6.6 0.4 16.0 2.7 0.9 >100	- MY1 5.8 0.4 15.7 2.2 0.8 >100	MY2 1 4.7 0.3 14.5 1.5 0.6 >100			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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? 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	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1			MY5	MY+	6.6 0.4 16.0 2.7 0.9 >100 7.0	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 1.1	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4			MY5	MY+	6.6 0.4 16.0 2.7 0.9 >100 7.0 1.2	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 1.1 9.0	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5			MY5	MY+	6.6 0.4 16.0 2.7 0.9 >100 7.0 1.2 7.4	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 1.1 9.0 0.7	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4			MY5	MY+	$ \begin{array}{r} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ \end{array} $	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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? BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4			MY5	MY+	6.6 0.4 16.0 2.7 0.9 >100 7.0 1.2 7.4	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 1.1 9.0 0.7	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4			MY5	MY+	$ \begin{array}{r} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ \end{array} $	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 elevatior	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4			MY5	MY+	$ \begin{array}{r} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ \end{array} $	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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?) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Wath (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 elevatior 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 1.1 9.0 0.7 1201.9 7.3 0.8 8.9	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3			MY5	MY+	$\begin{array}{c} 6.6 \\ 0.4 \\ 16.0 \\ 2.7 \\ 0.9 \\ >100 \\ 7.0 \\ 1.2 \\ 7.4 \\ 0.4 \\ 1201.2 \\ \hline \\ 6.6 \\ 0.4 \\ 16.0 \\ \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 12.2 0.8 12.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 elevatior Based on current/developing bankfull feature 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 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 - 100 7.1 1.0 - - - - - - - - - - - - -	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5 2.1			MY+	Base Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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) Bank Height Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior 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)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 0.4 15.7 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 15.7 2.2 0.8 0.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.0 1.2 1.0 0.3 1.0 1.2 1.0 0.4 1.0 0.3 1.0 1.2 0.8 0.4 0.4 1.0 0.3 1.0 0.4 0.4 0.3 0.4 0.4 0.4 0.3 0.4 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.4 0.5 0.3 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.4 0.5 0.4 0.4 1.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 1201.2 5.5 0.4 14.5 2.1 0.7 0.7			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 elevatior 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)	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 0.8 0.4 15.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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?) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Mean Depth (ft) Width of Floodprone Area (ft) 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 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 10.5			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ \hline \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 0.4 15.7 1.0 0.8 0.3 1201.2 0.8 0.4 0.3 1201.2 0.8 0.4 0.3 1201.2 0.8 0.4 0.3 1201.2 0.8 0.4 0.3 1201.2 0.8 0.4 0.3 1201.2 0.8 0.4 0.3 1201.2 0.8 0.4 0.4 0.3 1201.2 0.8 0.4 0.4 0.3 1201.2 0.8 0.4 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.5 0.3 0.4 0.3 0.4 0.5 0.3 0.4 0.3 0.4 0.5 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 100			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) UT2 (310 LF) Dimension and substrate Based on fixed baseline bankfull elevation BF Mean Depth (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Mean Depth (ft) BF Cross-sectional Area (ft ²) BF Mean Depth (ft) BF Cross-sectional Area (ft ²) BF Max Depth (ft) BF Cross-sectional Area (ft ²) BF Max Depth (ft) BF Cross-sectional Area (ft ²) BF Max Depth (ft) BF Cross-sectional Area (ft ²) BF Max Depth (ft) BF Max	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 1.1 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.8 8.9 6.1 1.7 9.0 9.0 1.1 9.0 1.1 9.0 1.1 9.0 1.1 9.0 1.1 9.0 1.1 1.1 9.0 1.1 1.1 9.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1 1.1	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 0.5 1.1			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 1.0 0.8 1201.2 5.8 0.4 15.7 1.0 0.8 1201.2 5.8 0.4 15.7 1.0 0.8 1201.2 5.8 0.4 15.7 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 0.3 1.0 0.8 0.4 1.0 0.8 0.3 1.0 0.8 0.4 1.0 0.8 0.3 1.0 0.8 0.4 1.0 0.3 1.0 0.8 0.4 1.0 0.8 0.3 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 1.0 0.8 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.1			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 elevatior 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) Entrenchment Ratio Bank Height Ratio Bank Height Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 0.7 1201.9 7.3 0.8 8.9 6.1 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.9 0.8 8.9 6.1 1.1 9.0 0.8 8.9 6.1 1.7 9.0 0.8 8.9 6.1 1.7 9.0 0.8 8.9 6.1 1.7 9.0 0.8 0.8 9.2 1.1 9.0 0.8 0.8 0.9 0.1 1.7 0.8 0.9 0.7 1.0 9.2 1.1 9.0 0.8 0.8 0.9 0.1 1.1 9.0 0.8 0.8 0.9 0.1 1.1 9.0 0.8 0.8 0.9 0.2 1.1 9.0 0.0 0.8 0.9 0.2 1.1 9.0 0.0 0.0 0.0 0.8 0.8 0.0 0.0 0	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1 1.1 9.3	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 0.5 12.3 3.3 0.8 >100 0.5 12.3 12.3 3.3 0.5 12.3 12.1 1.4 1201.9			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ \hline \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.8 0.4 15.7 0.5 0.4 15.7 0.4 15.7 0.4 15.7 0.4 15.7 0.6 0.3 1201.2 0.8 0.4 15.7 0.6 0.3 100 0.5 0.6 0.3 100 0.5 0.6 0.3 100 0.5 0.6 0.6 0.3 100 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.1 6.2			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 elevatior 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) 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) Based on Current/Depth Ratio	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 0.7 1201.9 7.3 0.8 8.9 0.7 1201.9 7.3 0.8 8.9 0.7 1201.9 7.3 0.8 8.9 0.7 1201.9 7.3 0.8 8.9 0.7 1201.9 7.3 0.8 8.9 0.7 1201.9 7.3 0.8 8.9 0.7 1.1 9.0 0.7 1.1 9.0 0.7 1.1 9.0 0.7 1.2 1.1 9.0 0.7 1.2 1.1 9.0 0.7 1.2 1.1 9.0 0.7 1.2 1.1 9.0 0.7 1.2 1.1 9.0 0.7 1.2 1.9 0.8 8.9 6.1 1.7 1.7 1.7 0.8 8.9 0.1 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1 1.1 9.3 0.4	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 0.5 1.1			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ \hline \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 1201.2 5.8 0.4 15.7 1.0 0.6 0.3 1201.2 5.8 0.4 15.7 1.0 0.6 0.3 1201.2 5.8 0.4 15.7 1.0 0.5 0.3 1201.2 0.8 1.0 0.8 0.4 1.0 0.3 1.0 0.8 0.4 1.0 0.5 0.3 1.0 0.3 1.0 0.5 0.4 1.0 0.3 1.0 0.5 0.4 1.0 0.3 1.0 0.5 0.4 1.0 0.3 1.0 0.5 0.4 1.0 0.3 1.0 0.5 0.4 1.0 0.3 1.0 0.5 0.4 1.0 0.5 0.3 1.0 0.5 0.4 1.0 0.5 0.4 1.0 0.5 0.3 1.0 0.5 0.4 1.0 0.5 0.4 1.0 0.5 0.4 1.0 0.5 0.4 1.0 0.8 0.8 0.0 0.3 1.0 0.8 0.8 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.3 0.0 0.0	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.1			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+
d50 (mm) 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 elevatior 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) BF Max Depth (ft) Width of Floodprone Area (ft²) BF Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) BASE Max Depth (ft) Width of Floodprone Area (ft²) BASE Max Depth (ft) BASE Max Dep	Base 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 9.2 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 0.7 1201.9 7.3 0.8 8.9 6.1 1.7 >100 0.7 1201.9 7.3 0.8 8.9 6.1 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.1 9.0 0.7 1201.9 7.3 0.8 8.9 6.1 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.0 9.2 1.1 9.0 0.7 1.2 1.9 0.8 8.9 6.1 1.1 9.0 0.8 8.9 6.1 1.7 9.0 0.8 8.9 6.1 1.7 9.0 0.8 8.9 6.1 1.7 9.0 0.8 0.8 9.2 1.1 9.0 0.8 0.8 0.9 0.1 1.7 0.8 0.9 0.7 1.0 9.2 1.1 9.0 0.8 0.8 0.9 0.1 1.1 9.0 0.8 0.8 0.9 0.1 1.1 9.0 0.8 0.8 0.9 0.2 1.1 9.0 0.0 0.8 0.9 0.2 1.1 9.0 0.0 0.0 0.0 0.8 0.8 0.0 0.0 0	43.6 MY1 6.4 0.5 13.9 3.0 0.8 >100 10.5 1.2 7.3 0.4 1201.9 8.4 0.5 13.9 4 1.0 >100 8.1 1.1 9.3	Cross-sectio MY2 5.6 0.5 12.3 2.5 0.7 >100 12.1 1.4 6.5 0.4 1201.9 6.4 0.5 12.3 3.3 0.8 >100 0.5 12.3 3.3 0.8 >100 0.5 12.3 12.3 3.3 0.5 12.3 12.1 1.4 1201.9			MY5	MY+	$\begin{array}{c} 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ 0.4\\ 1201.2\\ \hline \\ 6.6\\ 0.4\\ 16.0\\ 2.7\\ 0.9\\ >100\\ 7.0\\ 1.2\\ 7.4\\ \hline \end{array}$	- MY1 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 2.2 0.8 >100 7.1 1.0 6.6 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 5.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.3 1201.2 0.8 0.4 15.7 0.8 0.4 15.7 0.5 0.4 15.7 0.4 15.7 0.4 15.7 0.4 15.7 0.6 0.3 1201.2 0.8 0.4 15.7 0.6 0.3 100 0.5 0.6 0.3 100 0.5 0.6 0.3 100 0.5 0.6 0.6 0.3 100 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	MY2 1 4.7 0.3 14.5 1.5 0.6 >100 8.7 1.2 5.3 0.3 1201.2 5.5 0.4 14.5 2.1 0.7 >100 8.1 1.1 6.2			MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+

MICHAEL BAKER ENGINEERING, INC.

MONITORING YEAR 2 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

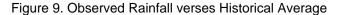
UT3 (1,348 LF)																											
			Cross-section	n X-8, Station 6+22	(Riffle))				Cross-section	NX-9, Statio	n 8+12 (Pool)			(Cross-section	X-10, Statior	n 8+33 (Riffle	:)			(Cross-section	X-11, Statio	n 11+53 (Pool)		
Dimension and substrate	Base	MY1	MY2		¥4	MY5	MY+	Base	MY1	MY2	MY3	MY4 MY5	MY+	Base	MY1	MY2	MY3	MY4	MY5	MY+	Base	MY1	MY2	MY3		MY5	MY+
Based on fixed baseline bankfull elevation				-		-					-						-		-					-		-	
BF Width (ft)	10.1	8.8	9.2					10.7	9.5	9.4				8.1	7.0	7.2					13.0	11.5	11.4			1	
BF Mean Depth (ft)	0.65	0.61	0.5					1.0	0.8	0.5				0.8	0.7	0.7					1.0	0.9	0.6				
Width/Depth Ratio	15.5	14.5	18.1					10.5	11.6	20.4				10.3	10.2	9.7					12.8	13.7	18.7				
BF Cross-sectional Area (ft ²)	6.5	5.3	4.7					10.9	7.8	4.3				6.3	4.8	5.3					13.2	9.7	6.9				
BF Max Depth (ft)	1.1	1.1	1.1					10.9	1.6	1.2				1.1	0.9	1.1					2.2	1.9	1.7				
Width of Floodprone Area (ft)	>150	>150	>150					>150	>150	>150				>150	>150	>150					>150	>150	>150				
Entrenchment Ratio	5.4	6.1	5.9					5.8	6.6	6.7				8.5	9.9	9.6	-				5.6	6.3	6.4				
Bank Height Ratio	1.0	1.1	1.0					1.0	1.2	1.2				1.1	1.2	9.0					1.0	1.1	1.1				
Wetted Perimeter (ft)	11.4	10.0	10.2					12.8	11.1	10.3				9.6	8.3	8.7					1.0	13.2	12.6				
Hydraulic Radius (ft)	0.6	0.5	0.5					0.9	0.7	0.4				0.7	0.6	0.6					0.9	0.7	0.5				
Fixed baseline bankfull elevation	1215.4	1215.4	1215.4					1212.8	1212.8	1212.8				1212.9	1212.9	1212.9					1209.3	1209.3	1209.3				
Fixed baseline bankfull elevation	1213.4	1213.4	1213.4					1212.8	1212.8	1212.8				1212.9	1212.9	1212.9					1209.5	1209.5	1209.5	I	II		
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		1			1.0	0.9	0.6				0.8	0.8	0.8					1.0	0.9	0.7				
Width/Depth Ratio	15.5	22.0	24.5		1			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)	1.1	1.1	1.3	İ				1.7	1.9	1.4				1.1	1.1	1.2					2.2	2.1	1.8				
Width of Floodprone Area (ft)	>150	>150	>150					>150	>150	>150				>150	>150	>150					>150	>150	>150				
Entrenchment Ratio	5.4	4.6	4.4	1				5.8	5.2	5.2				8.5	9.2	8.6	1				5.6	5.6	5.9	1			
Bank Height Ratio	1.0	1	1	1				1.0	1	1				1.1	1.1	1	1				1.0	1.0	1	1			
Wetted Perimeter (ft)	11.4	12.7	13.2					12.7	13.8	13.3				9.7	9.0	9.6					15.0	14.9	13.7				
Hydraulic Radius (ft)	0.6	0.5	0.5					0.9	0.8	0.6				0.7	0.6	0.7					0.9	0.8	0.6				
Cross Sectional Area between end pins (f ²)	-	-							-					-	-												
	-							-	-													-					
150 ()	21.0	20.4	16.4																								
d50 (mm)	31.2	20.4	16.4					-	-					-	-						-	-					
d50 (mm)	31.2			V 12 Station 11/9	4 (Diffle			-	-												-	-					
		(Cross-section	X-12, Station 11+8		,	MW.			MV2	10/2		MV	-	-		MV2		M3/5	MV.				MV2	MV4	MX5	M37 -
Dimension and substrate	31.2 Base			,	4 (Riffle Y4	e) MY5	MY+	- Base	- MY1	MY2	MY3	MY4 MY5	MY+			MY2	MY3	MY4	MY5	MY+	- Base	- MY1	MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation	Base	MY1	Cross-section MY2	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft)	Base	0 MY1 7.8	Cross-section MY2 7.7	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft)	Base 8.2 0.9	0.7	Cross-section MY2 7.7 0.7	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	Base 8.2 0.9 9.1	7.8 0.7 10.6	Cross-section MY2 7.7 0.7 11.7	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 8.2 0.9 9.1 7.3	7.8 0.7 10.6 5.8	Cross-section MY2 7.7 0.7 11.7 5.0	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 8.2 0.9 9.1 7.3 1.4	7.8 0.7 10.6 5.8 1.1	Cross-section MY2 7.7 0.7 11.7 5.0 0.9	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 8.2 0.9 9.1 7.3 1.4 >150	7.8 0.7 10.6 5.8 1.1 >150	7.7 0.7 11.7 5.0 0.9 >150	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4	7.8 0.7 10.6 5.8 1.1 >150 7.0	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2	7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3 1.3	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0	7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3 1.3 9.0	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7	MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6	Tross-section MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0	7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3 1.3 9.0	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7	MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6	Tross-section MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior Based on current/developing bankfull feature	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior Based on current/developing bankfull feature BF Width (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2	7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3 1.3 9.0 0.6 1208.8 9.2	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3 1.3 9.0 0.6 1208.8 9.2 0.8	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1	MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5	MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 9.2 0.8 11.1	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5 8.0	MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 9.2 0.8 11.1 7.5	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
Dimension and substrate Based on fixed baseline bankfull elevation BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft) Width of Floodprone Area (ft) Entrenchment Ratio Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior Based on current/developing bankfull feature BF Width (ft) BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft?) BF Max Depth (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3	Cross-section MY2 7.7 0.7 11.7 5.0 0.9 ≥150 7.3 1.3 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior Based on current/developing bankfull feature BF Mean Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width/Depth Ratio BF Cross-sectional Area (ft ²) BF Max Depth (ft) Width of Floodprone Area (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 1.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150	Pross-section MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2 >150	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior 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 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 1.00 0.7 1.208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 1.00 0.7 1.208.8 8.2 0.9 9.1 1.4 -1.50 9.4 1.2 1.00 0.7 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 1.208.8 8.2 0.9 9.1 7.3 1.4 -2 1.208.8 8.2 0.9 9.1 7.3 1.4 -2 1.208.8 8.2 0.9 9.1 7.3 1.4 -2 1.208.8 8.2 0.9 9.1 7.3 1.4 -2 1.208.8 8.2 0.9 9.1 7.3 1.4 -2 1.4 -2 1.4 -2 1.208.8 -2 0.9 9.1 7.3 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 1.4 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150 8.5	Pross-section MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 9.2 0.8 11.1 7.5 1.2 >150 8.5	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 Wetted Perimeter (ft) Hydraulic Radius (ft) Fixed baseline bankfull elevatior 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) Entrenchment Ratio Bank Height Ratio	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 1.2 1.2 1.2 0.9 9.1 7.3 1.4 >1.50 9.4 1.2 1.2 0.9 9.1 7.3 1.4 >1.50 9.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150 8.5 1.0	MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 11.1 7.5 0.8 11.1 7.5 1.2 >150 8.5 1.0	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior 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 Bank Height Ratio Wetted Perimeter (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8	MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 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 8.5 1.0 10.9	MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 11.1 7.5 0.2 0.8 11.1 7.5 1.2 1.3 1.3 9.0 0.6 1208.8 10.1	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior 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 Bank Height Ratio Wetted Perimeter (ft) Hydraulic Radius (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 1.2 1.2 1.2 0.9 9.1 7.3 1.4 >1.50 9.4 1.2 1.2 0.9 9.1 7.3 1.4 >1.50 9.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	C MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 9.3 0.6 1208.8 9.1 0.9 10.5 8.0 1.3 >150 8.5 1.0	MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 11.1 7.5 0.8 11.1 7.5 1.2 >150 8.5 1.0	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+
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 elevatior 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 Bank Height Ratio Wetted Perimeter (ft)	Base 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8 8.2 0.9 9.1 7.3 1.4 >150 9.4 1.2 10.0 0.7 1208.8	MY1 7.8 0.7 10.6 5.8 1.1 >150 7.0 1.3 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 8.5 1.0 10.9	MY2 7.7 0.7 11.7 5.0 0.9 >150 7.3 1.3 9.0 0.6 1208.8 11.1 7.5 1.2 0.8 11.1 7.5 1.2 >150 8.5 1.0 10.8	,		,	MY+			MY2	MY3	MY4 MY5	MY+	-	-	MY2	MY3	MY4	MY5	MY+			MY2	MY3	MY4	MY5	MY+

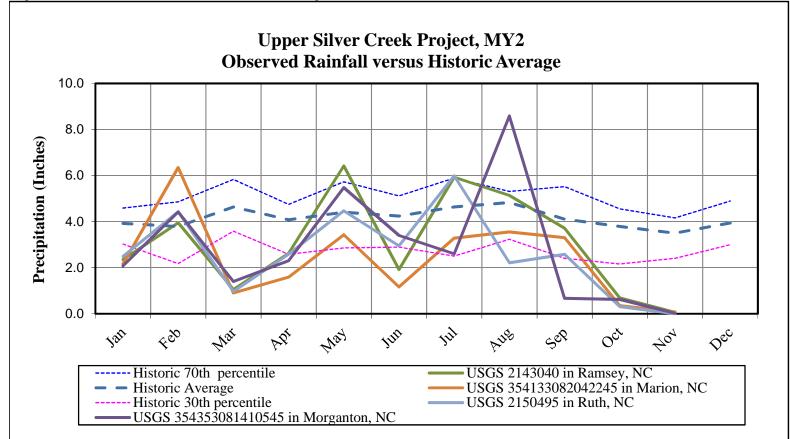
MICHAEL BAKER ENGINEERING, INC. MONITORING YEAR 2 REPORT UPPER SILVER CREEK RESTORATION PROJECT DMS PROJECT NO. 94645

Appendix E Wetland Assessment Data

Includes:

- Figure 8. Observed Rainfall verses Historical Average
- Figure 9. Wetland Gauge Graphs
- Table 12.Wetland Gauge Attainment data
- Table 12a. Wetland Area Well Success
- Figure 10. Wetland Photo Log





Note: Observed rainfall at four nearby USGS recording stations and historic average in Burke County near the U. Silver Creek project, with 30th and 70th percentiles of monthly averages from 1958 to 2012.

Rainfall data source for Ramsey, NC: http://waterdata.usgs.gov/nwis/uv?site_no=02143040 Rainfall data source for Marion, NC: http://waterdata.usgs.gov/nwis/uv?site_no=354133082042245 Rainfall data source for Ruth, NC: http://waterdata.usgs.gov/nwis/uv?site_no=02150495 Rainfall data source for Morganton, NC: http://waterdata.usgs.gov/nwis/uv?site_no=354353081410545

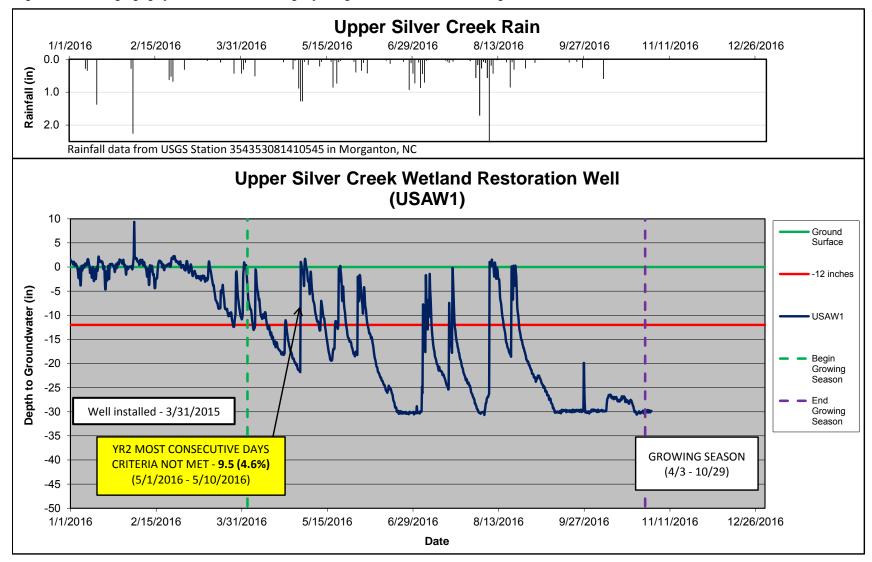
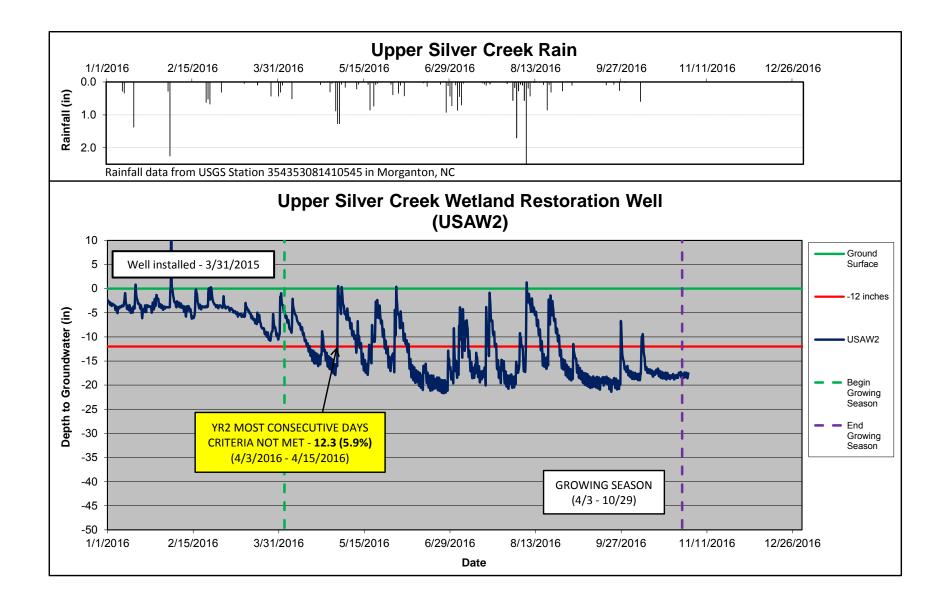
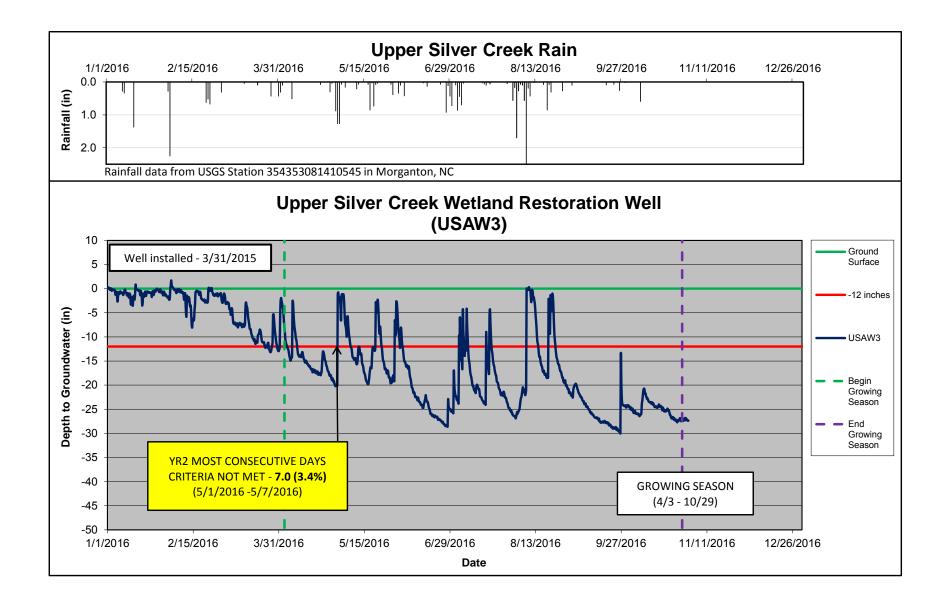
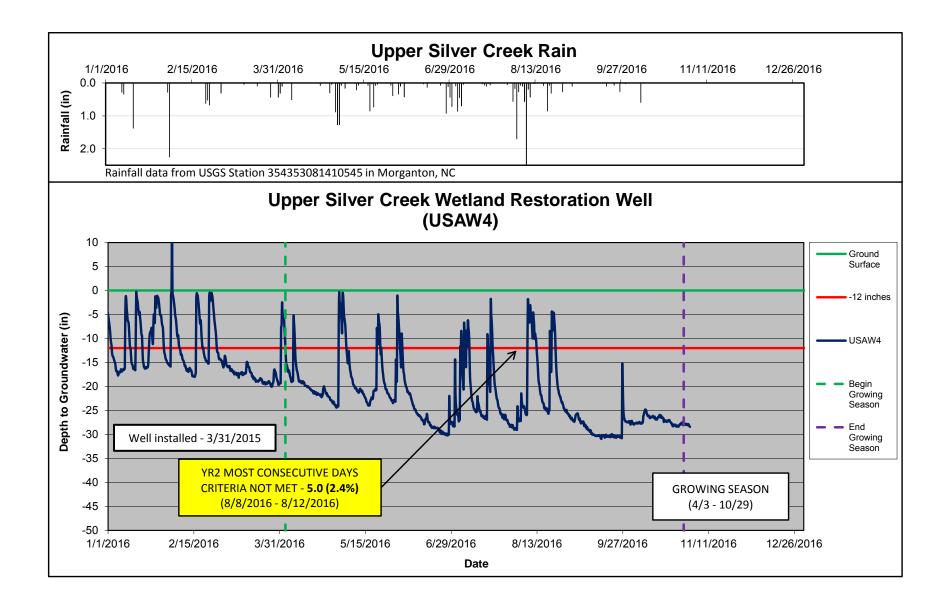
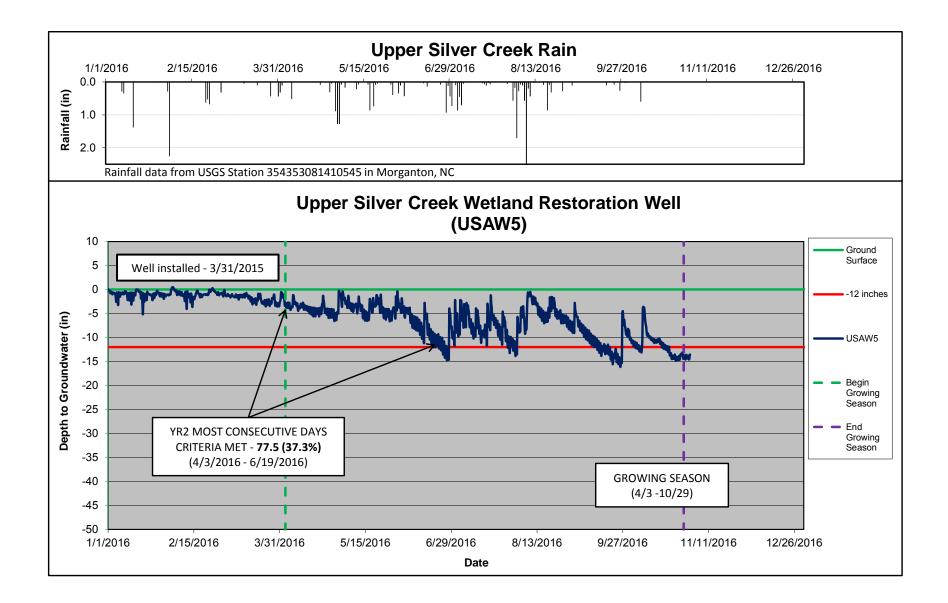


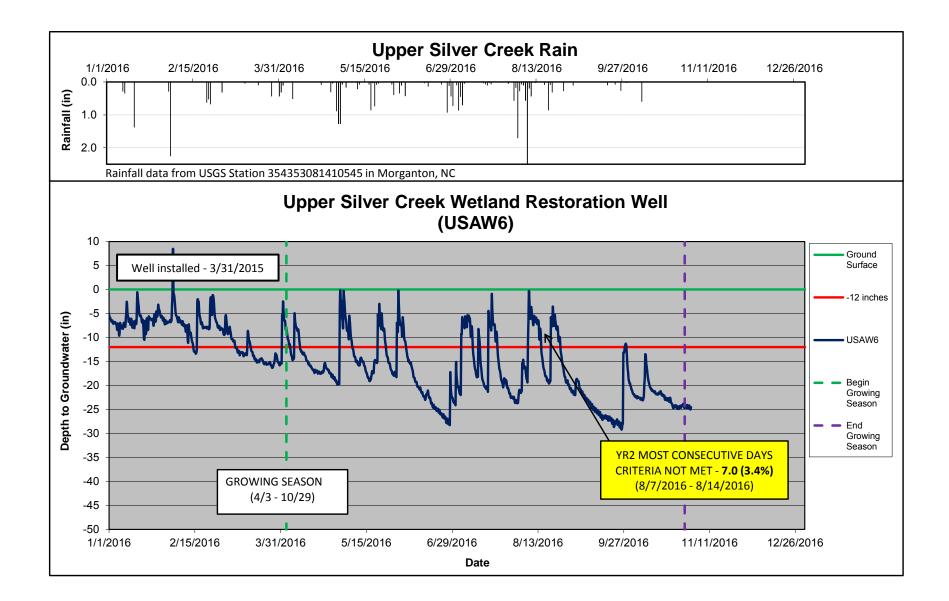
Figure 10. Wetland gauge graphs for each well, showing depth to groundwater and rainfall during MY4.

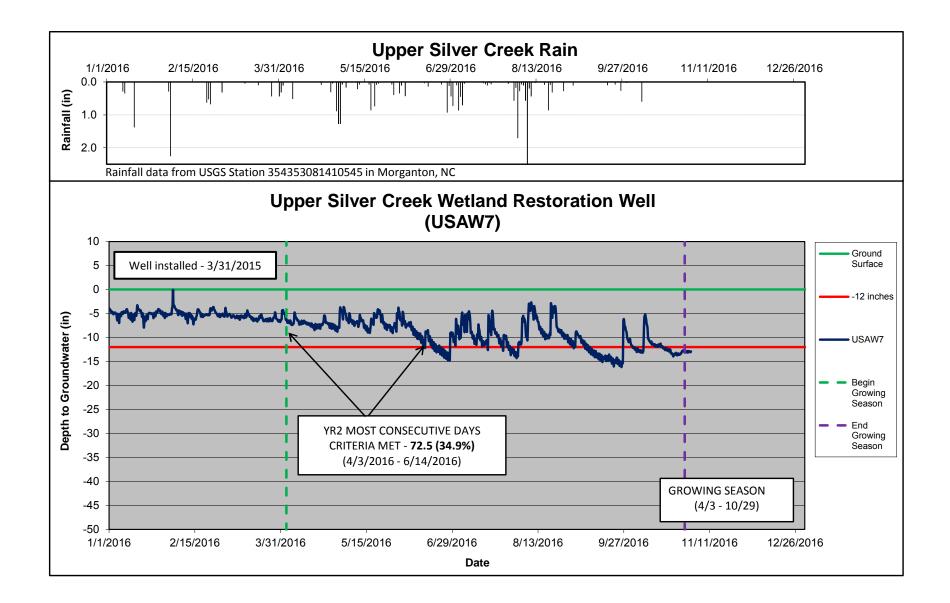


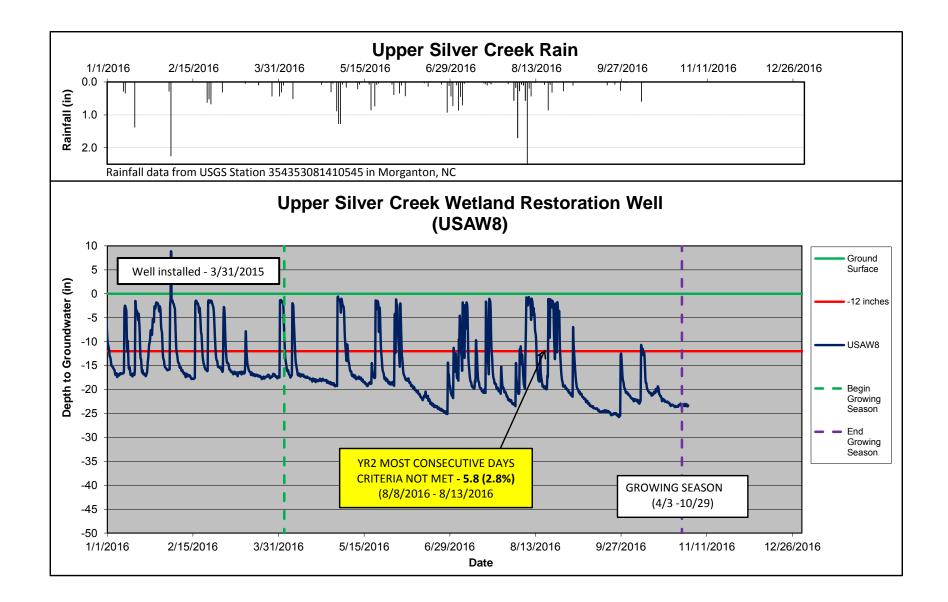


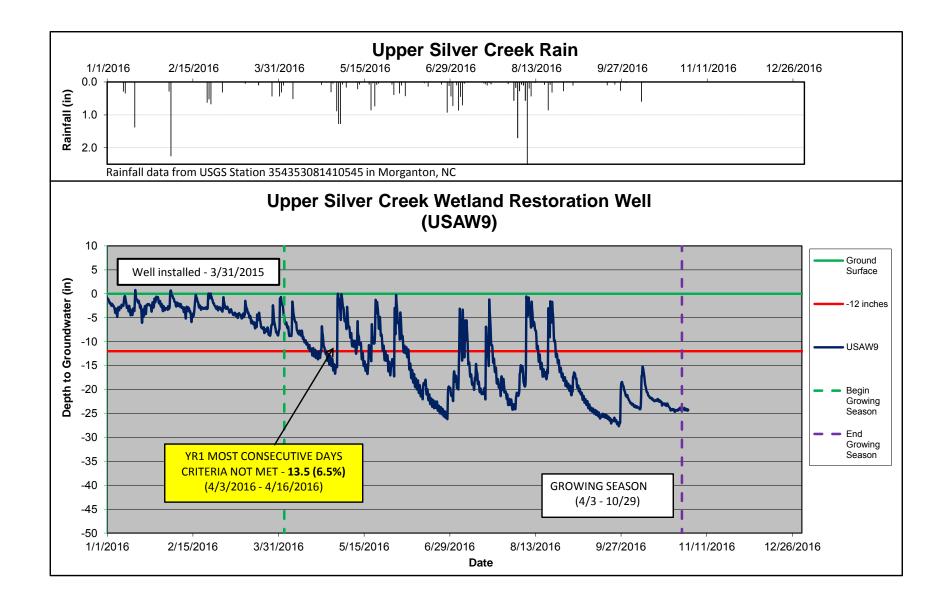


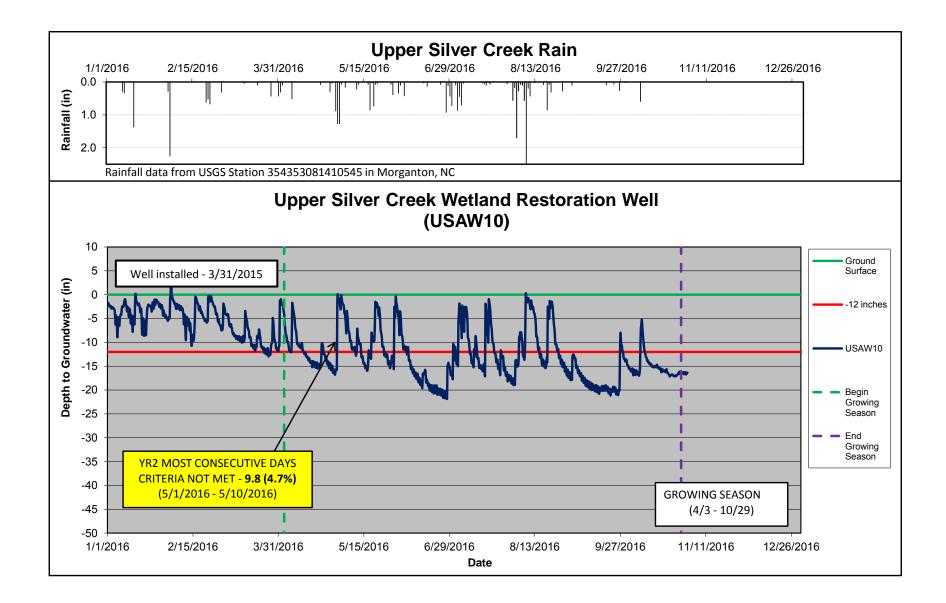


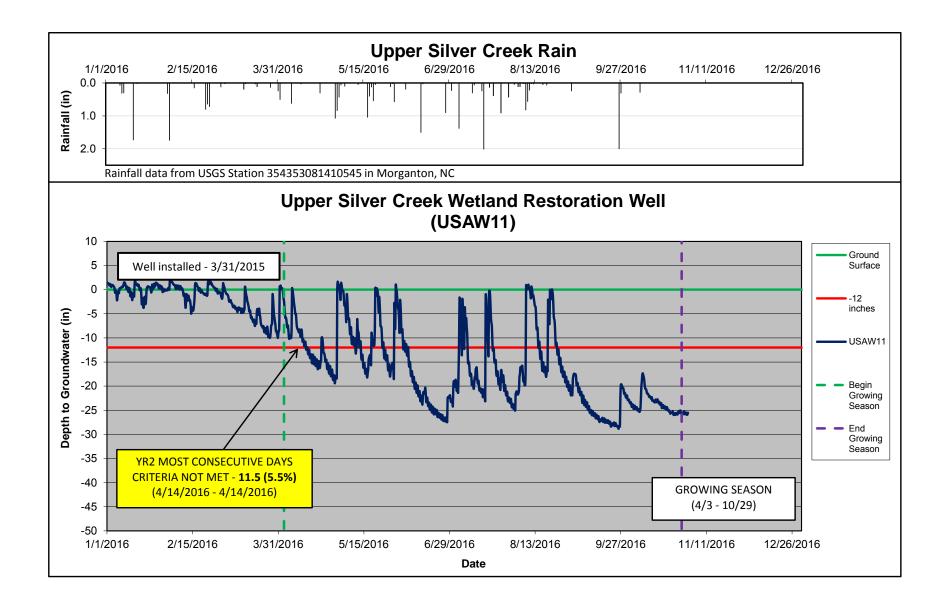


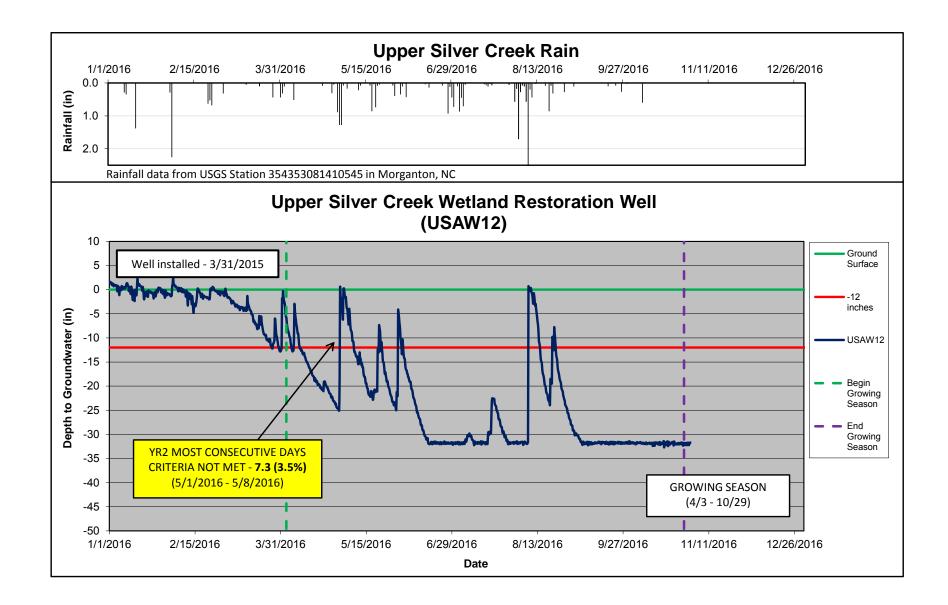


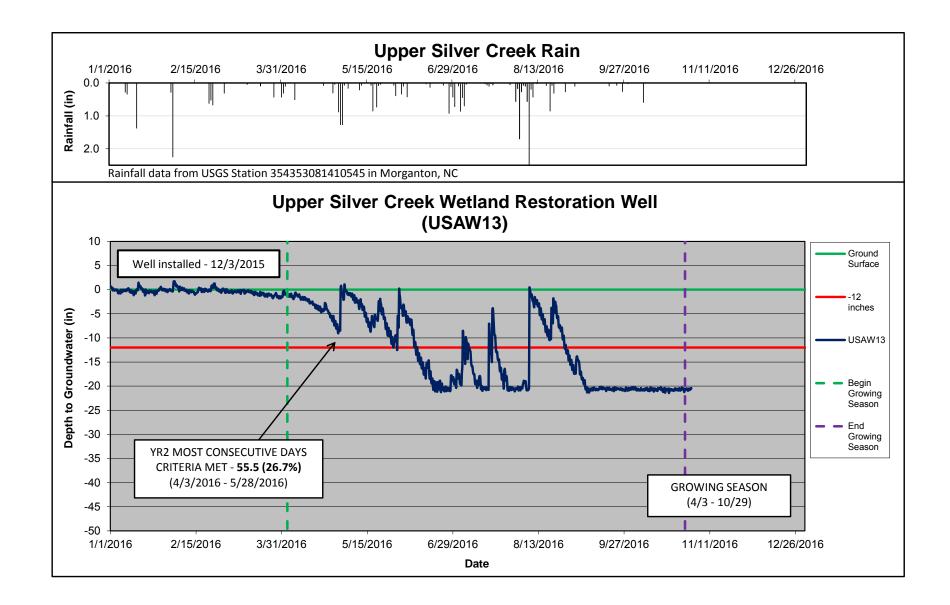












	Success Criteria	Achieved/Max	Consecutive Day	s During Growir	ng Season
Gauge			(Percentage)		
Gauge	Monitoring	Monitoring	Monitoring	Monitoring	Monitoring
	Year 1 (2015)	Year 2 (2016)	Year 3 (2017)	Year 4 (2018)	Year 5 (2019)
USAW1	Yes/36.5 days (17.5 %)	No/9.5 days (4.6%)			
USAW2	No/21.8 days (10.5 %)	No/12.3 days (5.9%)			
USAW3	No/20.3 days (9.7 %)	No/7 days (3.4%)			
USAW4	No/5.5 days (2.6 %)	No/5 days (2.4%)			
USAW5	Yes/80.5 days (38.7 %)	Yes/77.5 days (37.3 %)			
USAW6	No/19.5 days (9.4 %)	No/7 days (3.4 %)			
USAW7	Yes/74.5 days (35.8 %)	Yes/72.5 days (34.9 %)			
USAW8	No/2.5 days (1.2 %)	No/5.8 days (2.8 %)			
USAW9	Yes/35.5 days (17.1 %)	No/13.5 days (6.5 %)			
USAW10	No/19.8 days (9.5 %)	No/9.8 days (4.7 %)			
USAW11	No/18.5 days (8.9 %)	No/11.5 days (5.5 %)			
USAW12	No/17.5 days (8.4 %)	No/7.3 days (3.5 %)			
USAW13		Yes/55.5 days (26.7 %)			

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

Well ID	*Percentage of Consecutive Days <12 inches from Ground Surface ¹	Most Consecutive Days Meeting Criteria ²	*Percentage of Cumulative Days <12 inches from Ground Surface ¹	Cumulative Days Meeting Criteria ³	Number of Instances wher Water Table is 12 inches from Ground Surface ⁴
		Cross-se	ctional Well Arrays	•	
USAW1	4.6	9.5	23.1	48.0	15
USAW2	5.9	12.3	32.1	66.8	26
USAW3	3.4	7.0	15.4	32.0	9
USAW4	2.4	5.0	10.7	22.3	9
USAW5	37.3	77.5	86.9	180.8	29
USAW6	3.4	7.0	22.1	46.0	11
USAW7	34.9	72.5	76.6	159.3	17
USAW8	2.8	5.8	16.5	34.3	22
USAW9	6.5	13.5	29.1	60.5	21
USAW10	4.7	9.8	34.0	70.8	22
USAW11	5.5	11.5	27.2	56.5	20
USAW12	3.5	7.3	11.9	24.8	10
USAW13 ⁵	26.7	55.5	43.5	90.5	11
rom the soil so indicates the r oil surface. Indicates the ourface. Indicates the r urface. USAW13 was	urface. nost consecutive numbe cumulative number of da number of instances with s installed in December	er of days within the n ays within the monito hin the monitored gro of 2015.	nonitored growing season red growing season with wing season when the wa	n with a water table a water table 12 inc ater table rose to 12	a water 12 inches or less 12 inches or less from the hes or less from the soil inches or less from the soi
browing seaso	on for Burke County is fi	rom April 3 to Octobe	er 29 and is 208 days lon	g.	
3	· · · j - · · ·	1		<i>c</i>	

monitored growing season with a water 12 inches or less from the soil surface. Following Year 2 of wetland monitoring, ten of thirteen wells did not exhibit a hyrdroperiod of 12% or greater during the growing season. These wells will be observed closely throughout monitoring Year 3.

12 In-Situ groundwater monitoring dataloggers (1-12) were installed on 3/17/2015. Installation of the dataloggers was completed following construction in spring 2015 when groundwater levels are normally closer to the ground surface. USAW13 was installed in December of 2015

Figure 11. U. Silver Creek Wetland Photo Log, MY2 (2016)

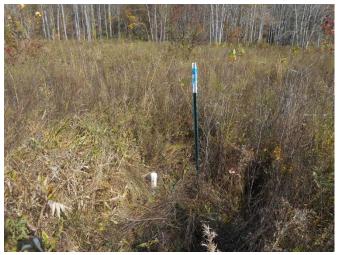


Photo 1. Wetland Photo Point – W1, replicates photo 50 in Baseline Report (November 1, 2016).



Photo 3. Wetland Photo Point – W3 replicates photo 52 in Baseline Report (November 1, 2016).



Photo 2. Wetland Photo Point – W2, replicates photo 51 in Baseline Report (November 1, 2016).



Photo 4. Wetland Photo Point – W4, replicates photo 53 in Baseline Report (November 1, 2016).



Photo 5. Wetland Photo Point – W5, replicates photo 54 in Baseline Report (November 1, 2016).



Photo 6. Wetland Photo Point – W6, replicates photo 55 in Baseline Report (November 1, 2016).



Photo 7. Wetland Photo Point - W7, replicates photo 56 in Baseline Report (November 1, 2016).



Photo 8. Wetland Photo Point - W8, replicates photo 57 in Baseline Report (November 1, 2016).



Photo 9. Wetland Photo Point - W9, replicates photo 58 in Baseline Report (November 1, 2016).



Photo 10. Wetland Photo Point - W10, replicates photo 59 in Baseline Report (November 1, 2016).



Photo 11. Wetland Photo Point – W11, replicates photo 60 in Photo 12. Wetland Photo Point – W12, replicates photo 61 in Baseline Report (November 1, 2016).



Baseline Report (November 1, 2016).



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