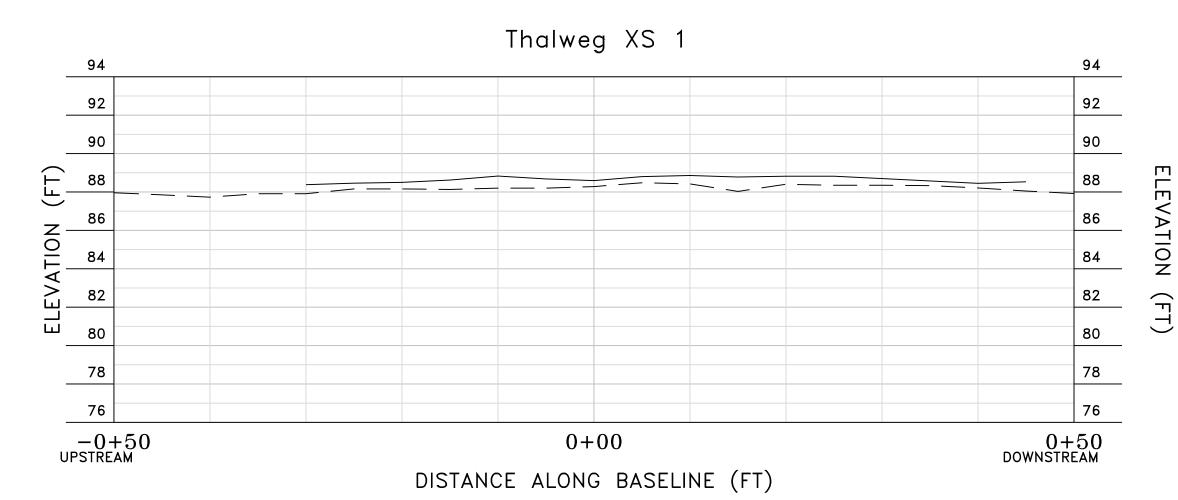
Appendix C

(Elevations given in the following plots are all taken relative to the adjacent end pin location corresponding to the subject cross section. An assumed end pin elevation of 100 ft. was used for all cross sections.)



PROFILE SCALE:

HORIZ: 1"=10'

VERT: 1"=5'

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

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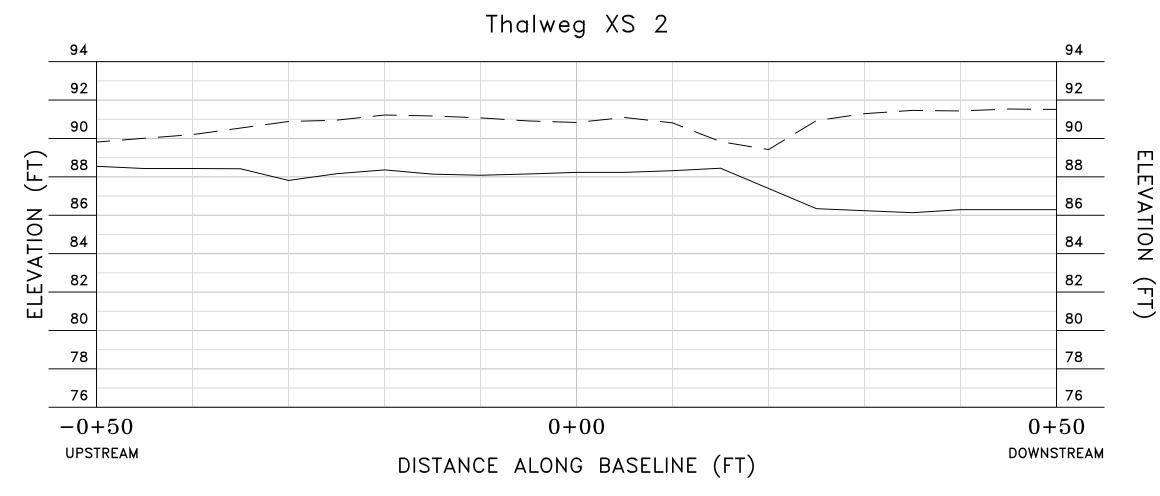
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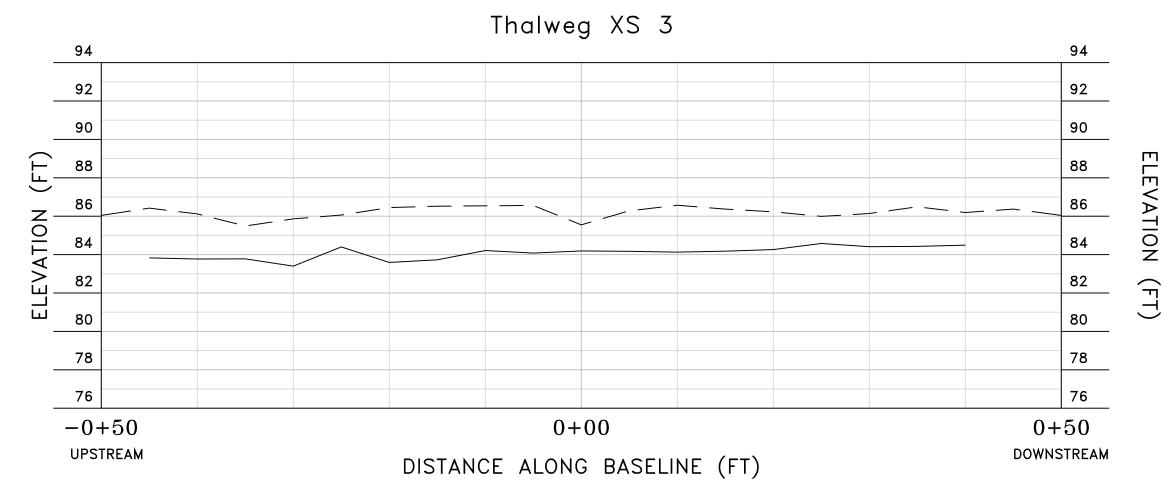
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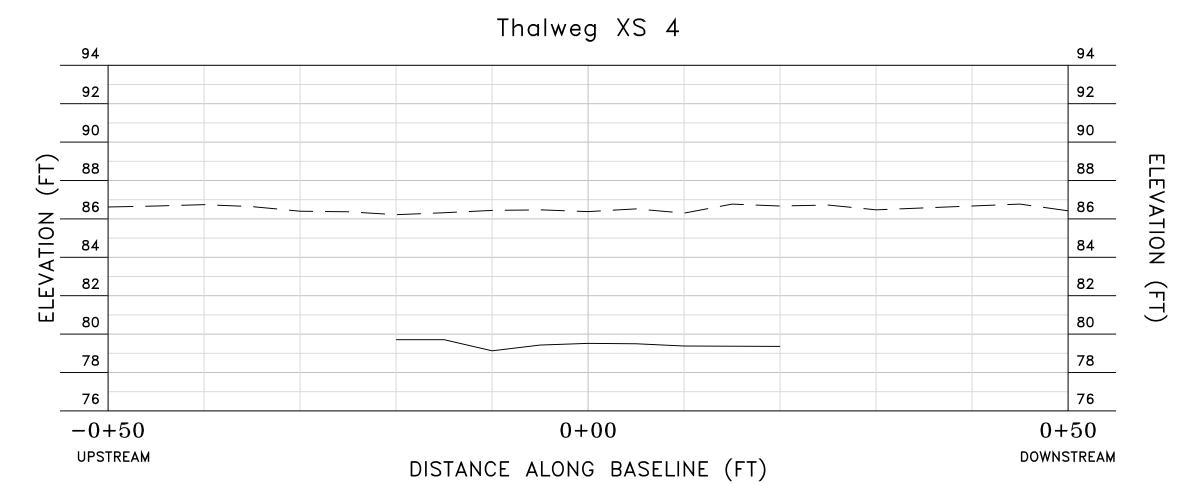
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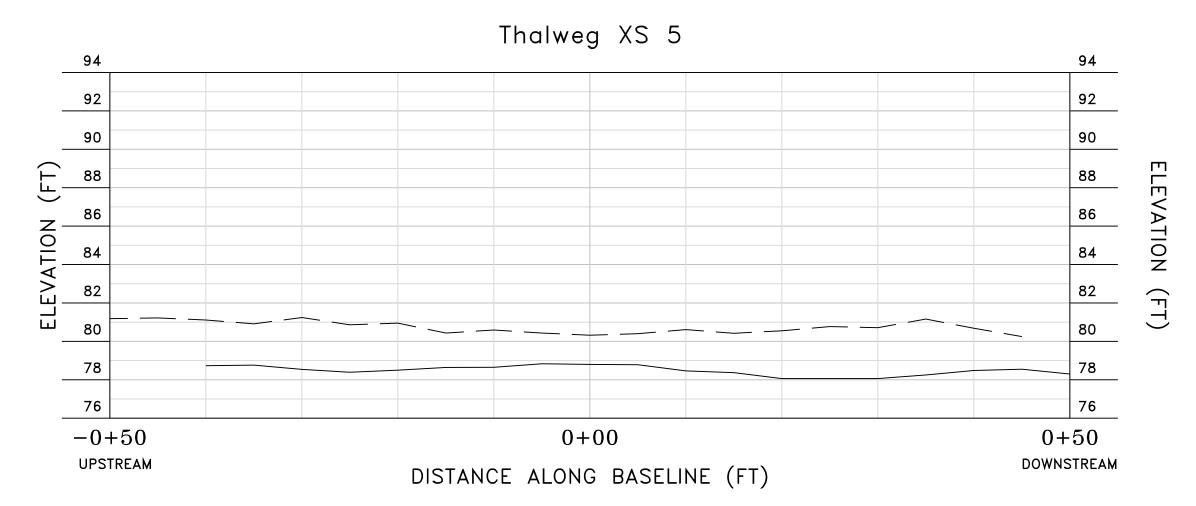
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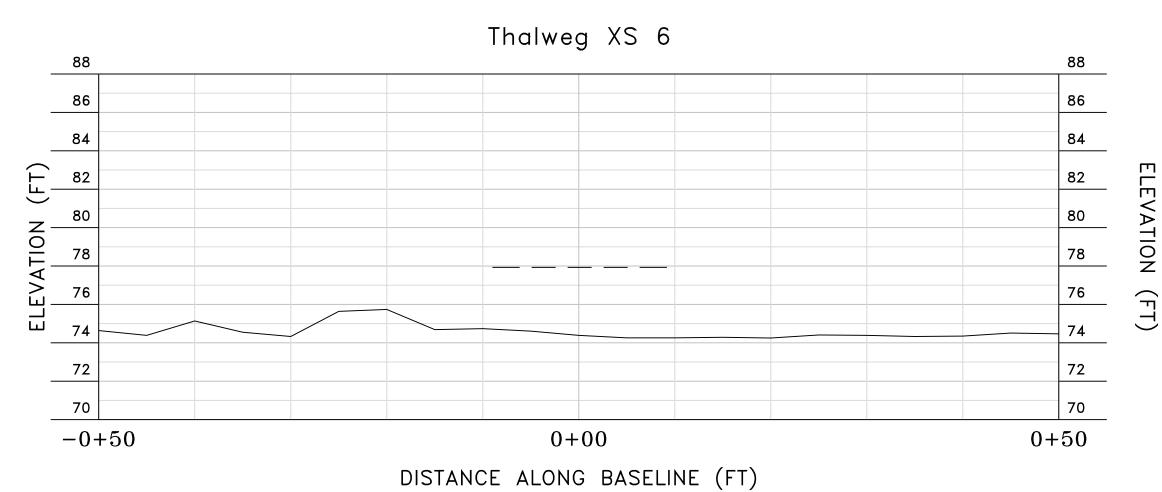


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Rocky Mount, Virginia
Year 1 - Thalweg Profile XS 5

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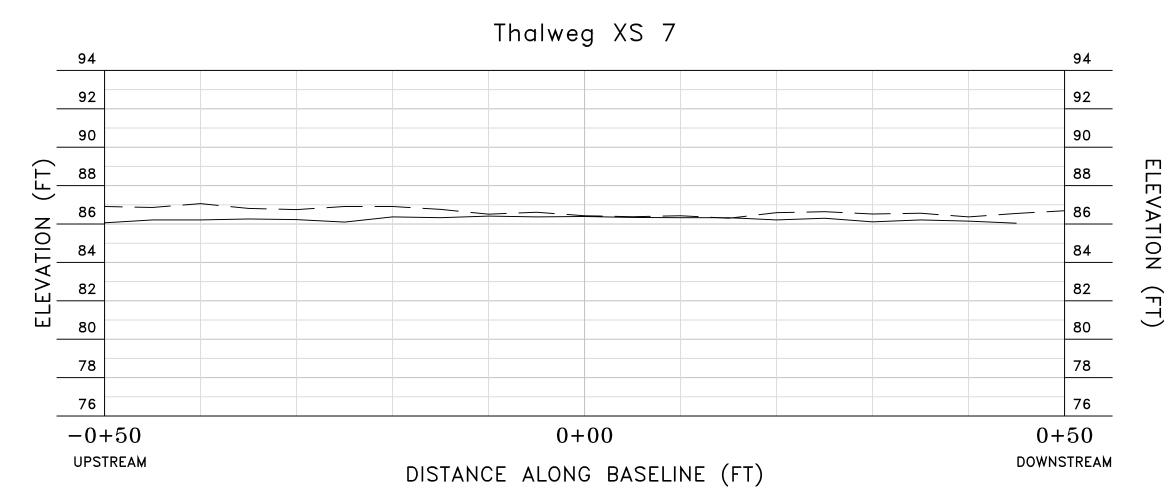


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Pigg River Dam Removal Restoration - Monitoring Rocky Mount, Virginia

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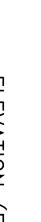


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HORIZ: 1"=10'

VERT: 1"=5'

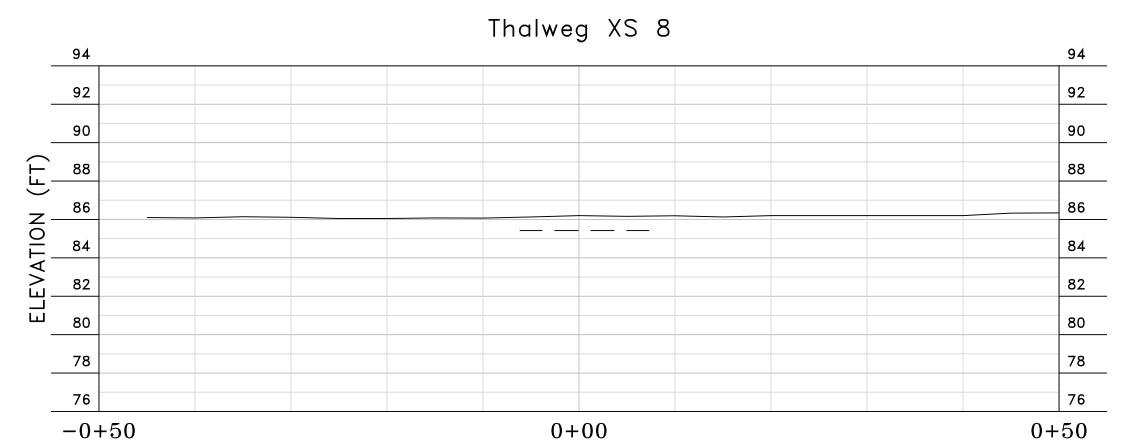
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DISTANCE ALONG BASELINE (FT)

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



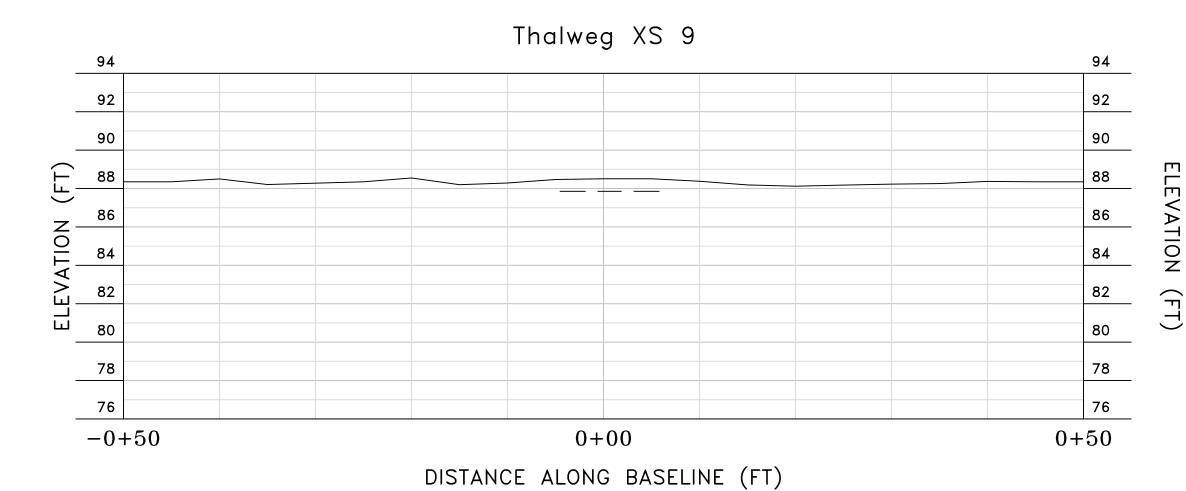
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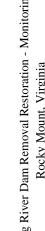


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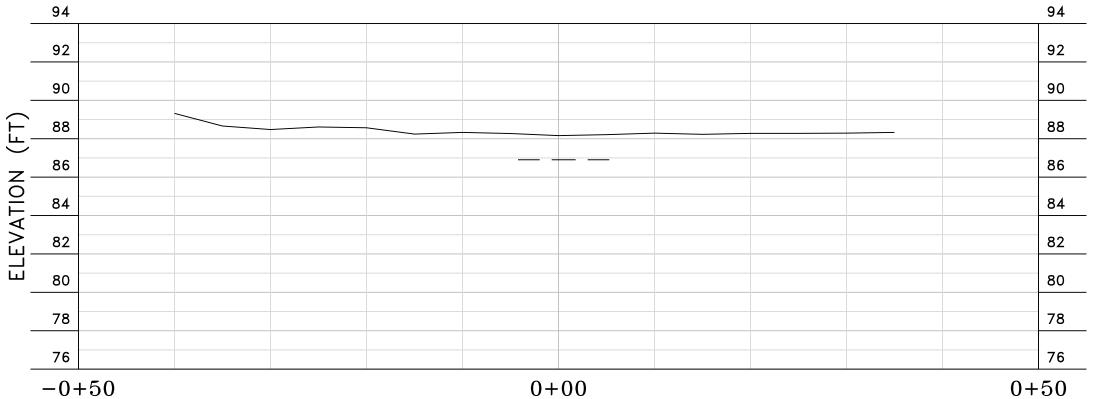
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Thalweg XS 10



DISTANCE ALONG BASELINE (FT)

PROFILE SCALE:

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



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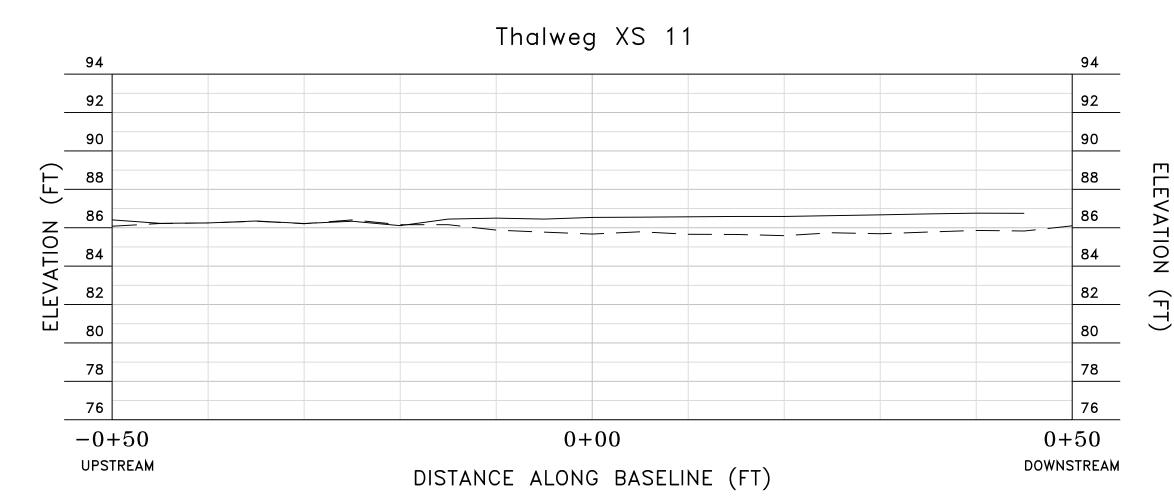
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POST-CON (2016) YEAR 1 (2017) Thalweg XS 12 94 92 90 90 ELEVATION (FT) 88 88 86 86 ELEVATION 84 84 82 82 80 80 78 78 76 76 -0+500+000+50UPSTREAM DOWNSTREAM DISTANCE ALONG BASELINE (FT) PROFILE SCALE: HORIZ: 1"=10' VERT: 1"=5' (ELEV. RELATIVE TO ASSUMED XS END PIN AT 100.)

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Appendix D

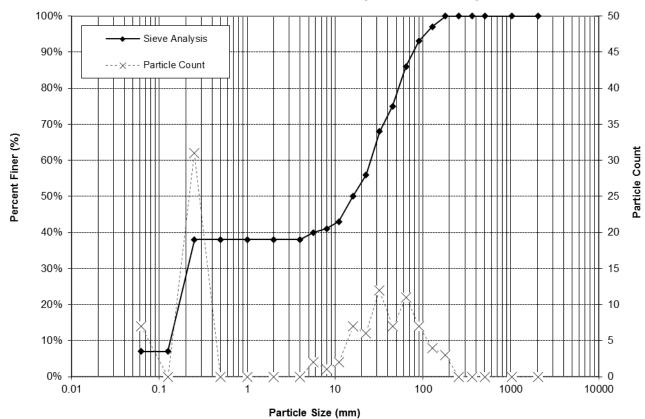
Pebble Count Data

RIFFLE CROSS SECTION PEBBLE COUNT DATA WITH PARTICLE SIZE ANALYSIS									
ect Name: Pigg	River Mon	toring (WS	SI# 22906.01)						
am ID & XS Stati	ion: XS11	(Located	250 ft. upstream in	nearest rif	fle)	Date: Oct. 2017			
uators: MTW, LL	.C, JHL					FORVA			
	Р	ebble Cou	nt Data						
Parti									
Description	Size	(mm)	Total	11 LIVI 70	GOIVI 70	Particle Size Analysis			
Silt/Clay	0	0.062	7	7%	7%	-			
Very Fine	0.062	0.125	0	0%	7%	Silt/Clay (%) 7%			
Fine	0.125	0.25	31	31%	38%	Sand (%) 31%			
Medium	0.25	0.5	0	0%	38%	Gravel (%) 48%			
Coarse	0.5	1.0	0	0%	38%	Cobble (%) 14%			
Very Coarse	1.0	2.0	0	0%	38%	Boulder (%) 0%			
Very Fine	2.0	4.0	0	0%	38%	Bedrock (%) 0%			
Fine	4.0	5.7	2	2%	40%				
Fine	5.7	8.0	1	1%	41%	D16 (mm)0.16			
Medium	8.0	11.03	2	2%	43%	D35 (mm)0.24			
Medium	11.3	16.0	7	7%	50%	D50 (mm) 16.00			
Coarse	16.0	22.6	6	6%	56%	D84 (mm) 60.55			
Coarse	22.6	32.0	12	12%	68%	D95 (mm) 109.00			
Very Coarse	32	45	7	7%	75%	D100 (mm) 180.00			
Very Coarse	45	64	11	11%	86%	, ,			
Small	64	90	7	7%	93%				
Small	90	128	4	4%	97%				
Large	128	180	3	3%	100%				
Large	180	256	0	0%	100%				
Small	256	362	0	0%	100%				
Small	362	512	0	0%	100%				
Medium	512	1024	0	0%	100%				
Large - Vry Large	1024	2048	0	0%	100%				
Bedrock	2048		0	0%	100%				
•	Parti Description Silt/Clay Very Fine Fine Medium Coarse Very Coarse	Particle	Pebble Cour	Pebble Count Data Particle Particle	Pebble Count Data	Pebble Count Data			

100

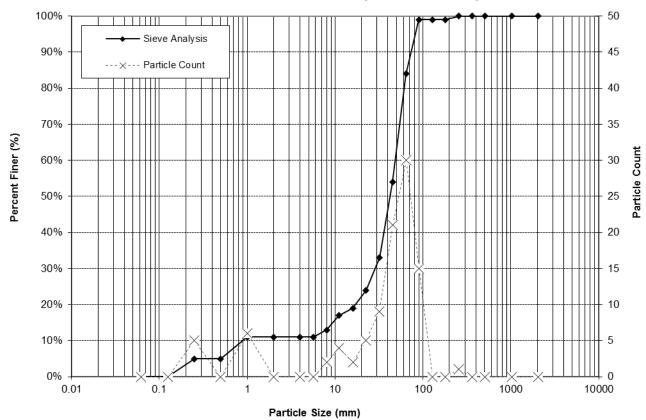
Total Particles

Cross Section 11 - Pebble County Particle Sieve Analysis



	RIFFLE	CROSS S	ECTION PI	EBBLE COUNT D	ATA WITH	PARTICLE	SIZE ANALYSIS
Pro	ject Name: Pigg	River Mon	toring (WS	SI# 22906.01)			
Stre	eam ID & XS Stat	ion: XS12	2 (Located	50 ft. downstream i	n nearest i	riffle)	Date: Oct. 2017
Eva	luators: MTW, LL	C, JHL					FORVA
		P	ebble Cou	nt Data			
	Parti	icle		Particle Count	ITEM %	CUM %	
	Description	Size (mm)		Total	III LIVI 70	COIVI 78	Particle Size Analysis
	Silt/Clay	0	0.062	0	0%	0%	
	Very Fine	0.062	0.125	0	0%	0%	Silt/Clay (%)0%
Ω	Fine	0.125	0.25	5	5%	5%	Sand (%) 11%
SAND	Medium	0.25	0.5	0	0%	5%	Gravel (%) 73%
S	Coarse	0.5	1.0	6	6%	11%	Cobble (%) 16%
	Very Coarse	1.0	2.0	0	0%	11%	Boulder (%) 0%
	Very Fine	2.0	4.0	0	0%	11%	Bedrock (%) 0%
	Fine	4.0	5.7	0	0%	11%	
	Fine	5.7	8.0	2	2%	13%	D16 (mm) 10.27
Ē	Medium	8.0	11.03	4	4%	17%	D35 (mm) 33.24
GRAVEL	Medium	11.3	16.0	2	2%	19%	D50 (mm) 42.52
GR	Coarse	16.0	22.6	5	5%	24%	D84 (mm) 64.00
	Coarse	22.6	32.0	9	9%	33%	D95 (mm) 83.07
	Very Coarse	32	45	21	21%	54%	D100 (mm) 256.00
	Very Coarse	45	64	30	30%	84%	, ,
E	Small	64	90	15	15%	99%	
BL	Small	90	128	0	0%	99%	
COBBLE	Large	128	180	0	0%	99%	
ပ	Large	180	256	1	1%	100%	
ä	Small	256	362	0	0%	100%	
BOULDER	Small	362	512	0	0%	100%	
<u></u>	Medium	512	1024	0	0%	100%	
B	Large - Vry Large	1024	2048	0	0%	100%	
	Bedrock	2048		0	0%	100%	
	-	Tota	I Particles	100			

Cross Section 12 - Pebble County Particle Sieve Analysis



Appendix E

Biological Monitoring Data

Biological stream monitoring was conducted along three biological monitoring reaches for the Pigg River Restoration at Power Dam project. The baseline conditions for this biomonitoring program were established by the Conservation Management Institute and the U.S. Geological Survey, as described in the October 27, 2009 report titled, "Biomonitoring for the Rocky Mount Power Dam Removal Project: Establishing Baseline Conditions" (Hitt, et al. 2009). Wetland Studies and Solutions, Inc. (WSSI) staff re-established the previously monitored biomonitoring reaches at the time of the 2017 field work. Once re-established, these reaches are to be monitored in post-construction Years 1 and 5. Each reach was collocated with a cross-section: Reach A is at Cross-Section 1, Reach B is at Cross Section 7, and Reach C is at Cross Section 8. The locations of these three sampling reaches relative to the 12 cross-sections are depicted in **Exhibit 1**. Benthic macroinvertebrate sampling and habitat assessment field work was conducted by WSSI staff Lauren Conner PWS, PWD, CT¹, Jamie Larkin WPIT, CT², and Marshall Willis PWS, CE³ on October 3 and 5, 2017.

The stream habitat assessment was conducted using guidance established in the Department of Environmental Quality (DEQ) Standard Operating Procedures (SOPs) for stream habitat assessment (DEQ 2008) and the U.S. Environmental Protection Agency's Rapid Bioassessment Protocol for habitat (Barbour et al. 1999). Habitat conditions were assessed by qualitatively rating ten habitat parameters, including Epifaunal Substrate/Available Cover, Embeddedness, Velocity/Depth Regime, Sediment Deposition, Channel Flow Status, Channel Alteration, Frequency of Riffles, Bank Stability, Vegetative Protection, and Riparian Vegetative Zone Width. The overall habitat quality of each reach was determined by adding together the individual metric scores to provide a Total Habitat Score at each reach, with a maximum of 200 points possible. Each reach was then assigned a narrative rating according to the total habitat score, where "Optimal" is 200-160, "Sub-Optimal" is 159-107, "Marginal" is 106-54, and "Poor" is 53-0. Stream habitat data was recorded on the WSSI Benthic Macroinvertebrate and Habitat Field Data Sheets which are included in this Appendix and shown below (Table 1) and Figure 1).

Reach A is in "Poor" condition primarily due to obvious bank erosion with heavy deposits of material into the reach which increased the embeddedness and made the substrate unstable. Reach B is in "Marginal" condition with banks that are moderately unstable with a lack of vegetation protection. Sediment deposition is also present in Reach B but various velocity/depth regimes are present in this reach and the riparian zone is fairly wide. Reach C is in "Marginal" condition with moderately unstable banks and bare soil present with heavy deposits of fine material into the riverbed.

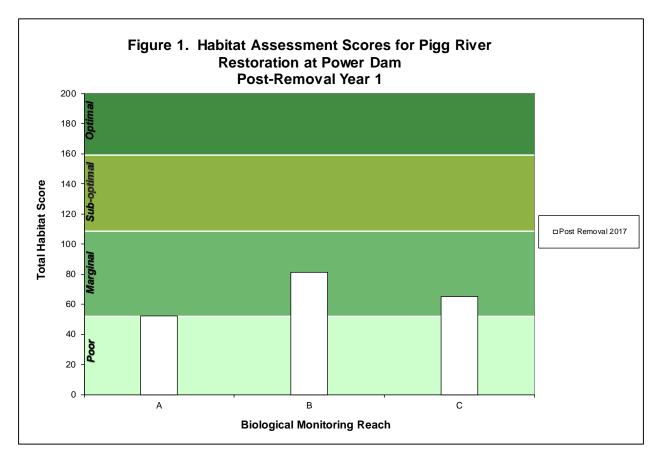
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Professional Wetland Scientist #2766, Society of Wetland Scientists Certification Program, Inc.; Virginia Certified Professional Wetland Delineator #3402-000155; Certified Level 1 Taxonomist: All Phyla, Society for Freshwater Science (SFS).

Wetland Professional in Training, Society of Wetland Scientists Certification Program, Inc.; Certified Level 1 Taxonomist: All Phyla, Society for Freshwater Science (SFS).

Professional Wetland Scientist #2796, Society of Wetland Scientists Certification Program, Inc.; Certified Ecologist, Ecological Society of America.

Table 1. 2017 Total Habitat Assessment Scores							
Biomonitoring Reach	Total Habitat Score	Narrative Rating					
Reach A	52	Poor					
Reach B	81	Marginal					
Reach C	65	Marginal					
Average	66	Marginal					



To assess benthic macroinvertebrate condition, 30 linear feet of best-available habitat was sampled in each reach using a D-Framed Net. A 300-foot linear reach was established at each Sampling Reach location, with the 150-foot marker placed at the corresponding Cross Section location. Within this 300-foot sampling reach, 10 samples were collected at different habitat types within the sampling reach. Each of the 10 samples consisted of a three-foot linear sampling area. Habitat types sampled include cobble/gravel, snags/leafpacks, under-cut banks, root-wads, and loose substrate along the stream bed. A variety of habitat types were sampled at each Sampling Reach, with cobbles and organic materials scrubbed by hand to dislodge attached macroinvertebrates. Organic materials caught in the dip-net were subsequently scrubbed and removed by hand within the sieve bucket to remove invertebrates. Benthic field data was recorded on WSSI's Benthic Macroinvertebrate and Habitat Field Data Sheets (developed from

the EPA's RBP Benthic Macroinvertebrate Field Data Sheets), which are included in this Appendix.

The benthic macroinvertebrate samples were processed and subsampled by WSSI staff using a fixed-count method, where organisms were randomly picked from a gridded (numbered) tray and the organisms were identified to the family level (if possible) using a dissecting microscope. Each individual (containing a head) found in a sample was recorded and enumerated on a WSSI Benthic Macroinvertebrate Bench Sheet which are included in this Appendix for each reach.

Benthic macroinvertebrate results show that individuals from 24⁴ taxa were collected from all three reaches collectively (<u>Table 2</u>, below) during the 2017 post-removal Year 1 benthic macroinvertebrate monitoring. Of all 24 taxa collected, non-biting midge larvae (Family Chironomidae) and flat-headed mayflies (Family Heptageniidae) comprised the majority of individuals in each reach (<u>Table 2</u>, below).

Table 2. Pigg River Restoration at Power Dam 2017 Raw Data									
		RE/	ACH						
TAXA	Reach A	Reach B	Reach C	Total					
Aeshenidae	-	-	1	1					
Ancylidae	1	-	1	2					
Baetidae	3	6	1	10					
Brachycentridae	-	ı	3	3					
Caenidae	2	1	2	5					
Capniidae	1	ı	-	1					
Chironomidae	52	36	19	107					
Corbiculidae	2	1	-	3					
Corixidae	1	-	-	1					
Elmidae	5	1	9	15					
Empididae	1	2	-	3					
Ephemerellidae	1	-	-	1					
Ephemeroptera	1	-	1	2					
Gomphidae	-	-	1	1					
Heptageniidae	11	27	40	78					
Hydropsychidae	7	21	19	47					
Isonychiidae	-	-	5	5					
Leptoceridae	2	-	-	2					
Perlodidae	-	2	1	3					
Philopotamidae	-	-	1	1					
Polycentropodidae	1	-	-	1					
Psychodidae	1	•	-	1					
Simuliidae	1	2	-	3					
Sphaeriidae	8	•	-	8					
Tipulidae	1	-	-	1					
Trichoptera	3	-	-	3					
Total	105	99	104	308					

⁴ Ephemeroptera and Trichoptera were not included in the taxa count.

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Benthic macroinvertebrate data were analyzed by calculating the Stream Condition Index for Virginia Non-coastal Streams (VA-SCI), following guidance established in "A Stream Condition Index for Virginia Non-Coastal Streams" (Tetra Tech 2003) and "Using Probabilistic Monitoring Data to Validate the Non-Coastal Virginia Stream Condition Index" (DEQ 2006). The VA-SCI is a multi-metric Index of Biotic Integrity developed for the DEQ to assess Streams of the Commonwealth. The VA-SCI uses seven biotic metrics and one biotic index including Total Taxa, EPT Taxa, Percent Ephemeroptera, Percent Plecoptera + Trichoptera (Excluding Hydropsychidae), Percent Scrapers, Percent Chironomidae, Percent Top Two Dominant Taxa, and Hilsenhoff Biotic Index.

The taxa data collected for each reach were used to calculate the biotic metrics as shown in <u>Table 3</u>, below. The VA-SCI requires that these metrics be weighted to determine the VA-SCI, as shown in <u>Table 4</u>, below.

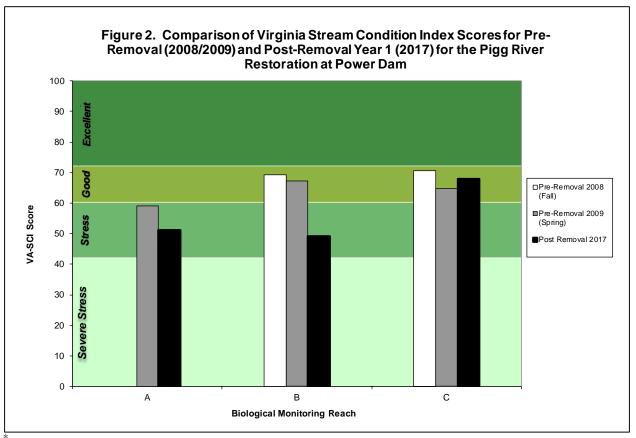
	T	able 3. I	Pigg River at Po	wer Dam 2017 Biotic	Metric Sc	ores		
Reach	Total Taxa	Total EPT Taxa	Percent Ephemeroptera	Percent Plecoptera + Trichoptera (Excluding Hydropsychidae)	Percent Scrapers	Percent Chironomidae	Percent Top Two Dominant	НВІ
Reach A	11	8	17.14	6.67	16.19	49.52	60	5.30
Reach B	10	5	34.34	1.01	28.28	36.36	64	5.02
Reach C	13	5	47.12	4.81	48.08	18.27	57	4.28

Table 4. 2017 Biotic Metric and Index Weighting and VA SCI for the Pigg River Restoration at Power Dam								
WEIGHTED METRIC	BIOLOG	GICAL MONITORING	REACH					
	Reach A	Reach B	Reach C					
Total Taxa	81.82	45.45	59.09					
EPT Taxa	72.73	45.45	72.73					
Percent Ephemeroptera	27.97	56.03	76.86					
Percent Plecoptera + Trichoptera (Excluding Hydropsychidae)	18.73	2.84	13.50					
Percent Scrapers	31.38	54.81	93.17					
Percent Chironomidae	50.48	63.64	81.73					
Percent Top Two Dominant	57.80	52.55	62.53					
HBI	69.19	73.23	84.13					
VA-SCI Numerical Score	51.26	49.25	67.97					
VA-SCI Narrative Score	Stress	Stress	Good					
Average VA-SCI Numerical Score	nerical Score 56.16							
Average VA-SCI Narrative Score	Stress							

<u>Figure 1</u> depicts the VA-SCI scores from the previous monitoring compared to the post-removal Year 1 data collected this year. Reach A experienced a drop in its VA-SCI score but stayed within the "Stress" category from this year compared to the previous monitoring efforts. Reach B also experienced a drop in its VA-SCI scores from this year to the previous monitoring

efforts but went from the "Good" category, to the "Stress" category. Reach C's VA-SCI has stayed relatively consistent in the "Good" category for each monitoring event.

Due to the natural variability of macroinvertebrate communities and the confounding issues dam placement and removal introduce, it is difficult to determine at this time if the removal of the dam has caused the community assemblages to improve or degrade. It is hoped that with subsequent reporting, trends in the health of the benthic community will be identified.



Reach A was not monitored during the Pre-Removal 2008 (Fall) fieldwork.

Literature Cited

Barbour, M. T., J. Gerritsen, B. D. Snyder, and J. B. Stribling. 1999. Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers: Periphyton, Benthic Macroinvertebrates and Fish, Second Edition. EPA 841-B-99-002. U.S. Environmental Protection Agency; Office of Water; Washington, D.C. 339 pp.

Hitt, N.P., J. Jones, and K. Convery. 2009. Biomonitoring for the Rocky Mount Power Dam Removal Project: Establishing Baseline Conditions. Conservation Management Institute and U.S. Geological Survey.

Tetra Tech, Inc. 2003. A Stream Condition Index for Virginia Non-Coastal Streams. Tetra Tech, Inc. Owings Mills, Maryland. Prepared for Virginia Department of Environmental Quality, Richmond, Virginia. 163 pp.

Virginia Department of Environmental Quality (DEQ) 2006. Using Probabilistic Monitoring Data to Validate the Non-Coastal Virginia Stream Condition Index. Division of Water Quality. Biological Monitoring Program. Richmond, Virginia. 58 pp.

DEQ. 2008. Biological Monitoring Program Quality Assurance Project Plan for Wadable Streams and Rivers. Richmond, Virginia. 43pp.

Appendix F

DEQ Wetland Hydrology Monitoring Data Sheets and Photos

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Photo 4-1
Location, Orientation: Wetland Site 4, Looking southwest
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 4, Pt 1
11/29/17, 2:55 PM
Taken by:

Description: Taken from wetland facing the main channel (XS2)

¹ All DEQ hydrology monitoring photos taken by N. Staley



Photo 4-2
Location, Orientation: Wetland Site 4, facing southeast
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 4, Pt 1
11/29/17, 2:56 PM
Description: Looking downstream through wetland area



Photo 4-3 Location, Orientation: Wetland Site 4, test pit Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 4, Pt 1 11/29/17, 3:01 PM Description: Test pit soils



Photo 4-4
Location, Orientation: Wetland Site 4, test pit
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 4, Pt 1
11/29/17, 3:01 PM
Description: Test pit soils



Photo 3-1 Location, Orientation: Wetland Site 3, Looking southwest Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 3, Pt 1 11/29/17, 3:56 PM

Description: Taken from wetland facing the main channel (XS4)



Photo 4-2
Location, Orientation: Wetland Site 4, facing east
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 3, Pt 1
11/29/17, 3:56 PM
Description: Looking downstream through wetland area



Photo 4-3 Location, Orientation: Wetland Site 4, test pit Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 4, Pt 1 11/29/17, 3:01 PM Description: Test pit soils



Photo 4-4 Location, Orientation: Wetland Site 3, test pit Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 3, Pt 1 11/29/17, 4:01 PM Description: Test pit soils



Photo 2-1 Location, Orientation: Wetland Site 2, Looking east Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 2, Pt 1 11/29/17, 1:27 PM

Description: Taken from wetland facing the main channel (pink flagging is previous wetland Well #1 location)



Photo 2-2
Location, Orientation: Wetland Site 2, facing north
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 1
11/29/17, 1:27 PM
Description: Looking downstream through wetland area



Photo 2-3 Location, Orientation: Wetland Site 2, test pit Permit Number: JPA #15-1551Wetland Data Sheet Reference: Site 2, Pt 1 11/29/17, 1:36 PM Description: Test pit soils



Photo 2-4 Location, Orientation: Wetland Site 2, test pit Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 2, Pt 1 11/29/17, 1:31 PM Description: Test pit soils



Photo 2-5
Location, Orientation: Wetland Site 2, Looking east
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 2
11/29/17, 1:51 PM
Description: Taken from wetland facing the main channel



Photo 2-6
Location, Orientation: Wetland Site 2, facing north
Permit Number: JPA #15-1551
Wetland Data Sheet Reference: Site 2, Pt 2
11/29/17, 1:50 PM
Description: Looking downstream through wetland area



Photo 2-7 Location, Orientation: Wetland Site 2, test pit Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 2, Pt 2 11/29/17, 1:54 PM Description: Test pit soils



Photo 2-8 Location, Orientation: Wetland Site 2, test pit Permit Number: JPA #15-1551 Wetland Data Sheet Reference: Site 2, Pt 2 11/29/17, 1:54 PM Description: Test pit soils

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Figg River - V Applicant/Owner: FORVA	Netland Sit	e 4 city/	County: <u>Frankliv</u>	1//	Sampling Date: 11/29/201
Applicant/Owner: FoRVA				State: <i>V</i> / *	_ Sampling Point: Pt 1
Investigator(s): NAS	F.G.;	Sect	ion, Township, Range:	,	•
Landform (hillslope, terrace, etc.):	FPL	Local re	elief (concave) convex, n	one): <u>depress</u>	lon Slope (%): 0-2 %
Subregion (LRR or MLRA):	Lat		Long:		Datum:
Soil Map Unit Name:				NWI classific	ation:
Are climatic / hydrologic conditions on t	he site typical f	for this time of year?	Yes No X	(If no, explain in R	emarks.) Mod Prought
Are Vegetation, Soil, or					resent? Yes No
Are Vegetation, Soil, or				, explain any answe	
SUMMARY OF FINDINGS - A					
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area	· · ·	
Hydric Soil Present?	Yes	No	within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is	required: cher	ok all that anniv)			
			· · · · · · · · · · · · · · · · · · ·	Surface Soil	' '
Surface Water (A1)		True Aquatic Plants			etated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)			res on Living Roots (C3)		· · · · · · · · · · · · · · · · · · ·
Water Marks (B1)		Presence of Reduce		Dry-Season \	- ·
Sediment Deposits (B2)			on in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)		Thin Muck Surface (•		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Re	emarks)		ressed Plants (D1)
Iron Deposits (B5)				✓ Geomorphic	
Inundation Visible on Aerial Imag	ery (B7)			Shallow Aqui	-
Water-Stained Leaves (B9)				Microtopogra	
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
		_ Depth (inches):			
Water Table Present? Yes _	No <u>X</u>	Depth (inches):			
(includes capillary fringe)		_ Depth (inches):		Hydrology Presen	t? Yes No
Describe Recorded Data (stream gau	ge, monitoring	well, aerial photos, pr	évious inspections), if av	vailable:	
Remarks:					
Soil: even, be	own san	dy loam			
Soil: even, be Loc: 30 from	left ban	of XS pin			
	/	,			

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Pigo River - Wetland Site 3 City/County Applicant/Owner: FORVA Investigator(s): NAS Section, To Landform (hillslope, terrace, etc.): FPL Local relief (co Subregion (LRR or MLRA): Lat: Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation, Soil, or Hydrology significantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic?	State: Sampling Point: Pt 1 Downship, Range: Downship, Range: Slope (%): O Long: Datum: Datum: NVVI classification: No No No No (If no, explain in Remarks.) Mod No No (If needed, explain any answers in Remarks.)
	ng point locations, transects, important features, etc. the Sampled Area thin a Wetland? Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (Cincer of Saturation (A3) Oxidized Rhizospheres on Water Marks (B1) Presence of Reduced Iron Sediment Deposits (B2) Recent Iron Reduction in Technology (C7) Drift Deposits (B3) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Aquatic Fauna (B13)	1) Drainage Patterns (B10) Living Roots (C3) Moss Trim Lines (B16) (C4) Dry-Season Water Table (C2) Filled Soils (C6) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes NoX Depth (inches): Water Table Present? Yes NoX Depth (inches): Saturation Present? Yes NoX Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous) Remarks: 40	Wetland Hydrology Present? Yes No inspections), if available:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Pigg River Applicant/Owner: FORVA Investigator(s): NAS Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): Soil Map Unit Name: Are climatic / hydrologic conditions Are Vegetation, Soil Are Vegetation, Soil SUMMARY OF FINDINGS	Lat: on the site typical for, or Hydrology, or Hydrology	Secti Local re or this time of year? significantly distur naturally problem	on, Township, Range: ilef (concave), convex, no Long: /es NoX -bed? Are "Normatic? (If needed,	one): NWI classification (If no, explain in Remail Circumstances" preserved explain any answers in	Sampling Point: Sit Slope (%): Datum: on: earks.)	< 2: Pt1 < 1% ought o
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	_	Is the Sampled Area within a Wetland?	Yes	No	
Wetland Hydrology Present?	Yes		,			
HYDROLOGY			· · · · · · · · · · · · · · · · · · ·			
Wetland Hydrology Indicators:				Secondary Indicator	s (minimum of two req	uired)
Primary Indicators (minimum of on	e is required; check	(all that apply)		✓ Surface Soil Cra	icks (B6)	
Surface Water (A1)		True Aquatic Plants (B14)	Sparsely Vegeta	ated Concave Surface	(B8)
High Water Table (A2)		Hydrogen Sulfide Od	or (C1)	Drainage Patter	ns (B10)	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lines	s (B16)	
Water Marks (B1)		Presence of Reduced		Dry-Season Wa	ter Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burrow		
Drift Deposits (B3)		Thin Muck Surface (C			le on Aerial Imagery (0	29)
Algal Mat or Crust (B4)	-	Other (Explain in Rer	narks)	Stunted or Stres	` '	
Iron Deposits (B5)	nagon/ (D7)			Geomorphic Po		
Inundation Visible on Aerial Im Water-Stained Leaves (B9)	agery (b/)			Shallow Aquitare		
Aquatic Fauna (B13)				Microtopographi FAC-Neutral Te		
Field Observations:				TAO-Neulial Te	st (D3)	****
Surface Water Present? Yes	s No X	Depth (inches):				
The state of the s	s No_X_					
	s No _X		Motland	Hydrology Present?	Yes No	
(includes capillary fringe)			l	-	165140	
Describe Recorded Data (stream g	auge, monitoring w	ell, aerial photos, pre	vious inspections), if av	ailable:		
Remarks:				_		
~30' SW 9	awands mi	to Well#1	marine la	at-		
7	7	T. 1000. T.	perior xoc	www.		

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Piag River: We	tland Site 2 city/c	County: <u>Frankli</u>	<u>n</u> sa	ampling Date: 11/2	29/201
Applicant/Owner: J FORVA			State: VA	Sampling Point: 51+	e Z;Pt
Investigator(s): NAS	Secti	on, Township, Range:			_
Landform (hillslope, terrace, etc.): FPL					O
Subregion (LRR or MLRA):		Long:		Datum:	
Soil Map Unit Name:					\ #-t
Are climatic / hydrologic conditions on the site					,
Are Vegetation, Soil, or Hydro				ent? Yes No)
Are Vegetation, Soil, or Hydro	ology naturally problems	atic? (If needed, e	explain any answers i	n Remarks.)	
SUMMARY OF FINDINGS – Attac	h site map showing san	npling point location	ons, transects, ir	nportant features	s, etc.
	es No	Is the Sampled Area			
l e e e e e e e e e e e e e e e e e e e	es No	within a Wetland?	Yes	No	,
Wetland Hydrology Present? Ye	es No				
HYDROLOGY		····			
Wetland Hydrology Indicators:			Cocondan, Indicator	/minimum af t	- Claracia
Primary Indicators (minimum of one is requi	ired; abook all that apply?		,	s (minimum of two requ	urea)
. /	. , ,	D4.0	✓ Surface Soil Cra		
✓ Surface Water (A1)✓ High Water Table (A2)	True Aquatic Plants (ted Concave Surface	(B8)
✓ Saturation (A3)	Hydrogen Sulfide Od		Drainage Pattern		
Water Marks (B1)	Presence of Reduced	=	Moss Trim Lines Dry-Season Wat		
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Burrow		
Drift Deposits (B3)	Thin Muck Surface (C			e on Aerial Imagery (C	:9)
Algal Mat or Crust (B4)	Other (Explain in Ren		Stunted or Stres		
Iron Deposits (B5)		•		sition (D2) (toe slop	00)
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitare		-/
Water-Stained Leaves (B9)			Microtopographi		
Aquatic Fauna (B13)			FAC-Neutral Tes	st (D5)	
Field Observations:	<i>f f</i> 1	,, ,)		***************************************	
Surface Water Present? Yes	No Depth (inches): ⟨ </td <td>nearby)</td> <td></td> <td></td> <td></td>	nearby)			
Water Table Present? Yes	No Depth (inches): 5	""		,	ĺ
	No Depth (inches):	Wetland H	ydrology Present?	Yes No	
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well serial photos pro	vious inspections) if avai	ilable:		
Bessins Resoluted Bala (stream gauge, me	Autoritig well, actual priotos, pre	vious inspections), ii avai	nabic.		
Remarks:					
10 11	a 4	+ + -	L		
~10 south of	Surface walk mo	reloung show	WO X		
ľ	1	/			

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Appendix G

Groundwater Monitoring Data

Per the signed additional services proposal dated December 28, 2016, on February 02, 2017, WSSI installed three (3) groundwater monitoring wells in and adjacent to Wetland Site #2. Two (2) of the monitoring wells, Wells #1 and #2, were installed within the wetland area to monitor the area's hydroperiod following dam removal. One additional well, Well #3, was installed upslope of the wetland area in order to better understand the source and magnitude of groundwater contribution to the existing wetland area.

Methods

At Wells #1 and #2, Solinst pressure transducers were used in conjunction with an onsite barometer to collect water surface elevation data. These automated wells were programmed to take readings twice daily, recording both water depth and temperature. Manual well data collection occurred monthly, wherein transducer data from Wells #1 and #2 were downloaded and depth-to-water measurements were taken at Well #3.

Note that pressure transducers record absolute pressure (barometric pressure + water pressure). This information was then calibrated using an onsite barometer to give a water height above sensor in ft. Solinst pressure transducers also record groundwater temperature assuming the water level is above the sensor on the transducer. Once the water level falls below the transducer sensor, the water height reads 0 ft. and temperature readings become air temperature at sensor depth. Groundwater results are shown in Figures 1-6.

Daily sum accumulation information for precipitation was taken from weather station KVAROCKY5 accessible through Weather Underground. Significant rainfall event information was compared to the IFLOWS "Rocky Mount/Pigg" (referenced in the applicable permit) to assess the integrity of KVAROCY5 data. Weather station information from both stations were found to be in good agreement. Information from KVAROCKY5 was used due to completeness and better data availability. This information may be found in **Appendix H**.

Results

Automated groundwater information for Well #1 is shown in Figure 1 and Well #2 in Figure 2. Manual-read data from Well #3 is shown in Figure 3. Well #3 readings were taken using a water-level meter probe. Measurements were taken by lowering a sensor down the well and recording the depth to water level.

In Figures 4 – 6 elevations are given for groundwater levels. These figures also show daily precipitation data as a total accumulation sum in inches. Average ground elevation adjacent to the well and sensor elevation are shown in Figures 4 and 5. Figure 6 shows each of the three (3) wells including daily rainfall accumulation data.

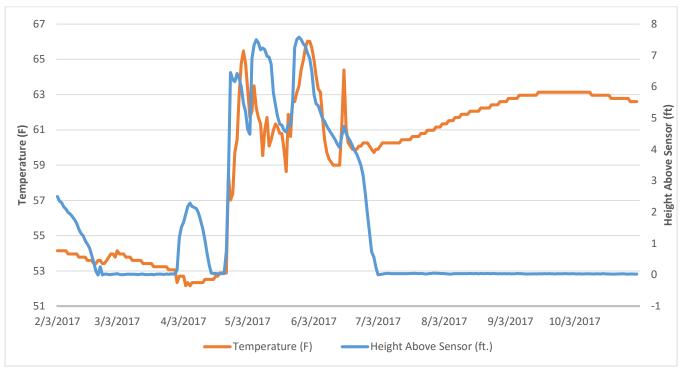


Figure 1: Well #1 - Water Temperature and Height Above Sensor

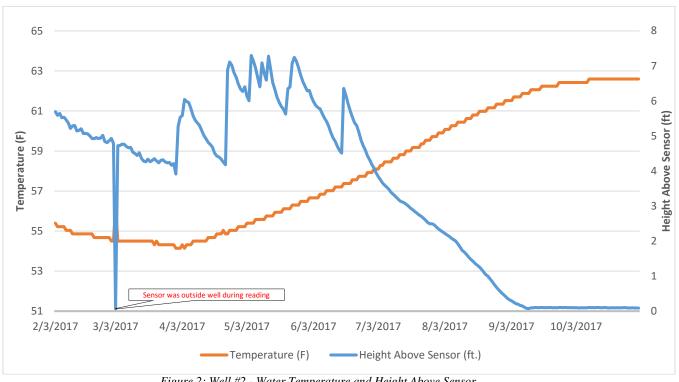


Figure 2: Well #2 - Water Temperature and Height Above Sensor



Figure 3: Well #3 - Depth to Water Level (Manual-Read)

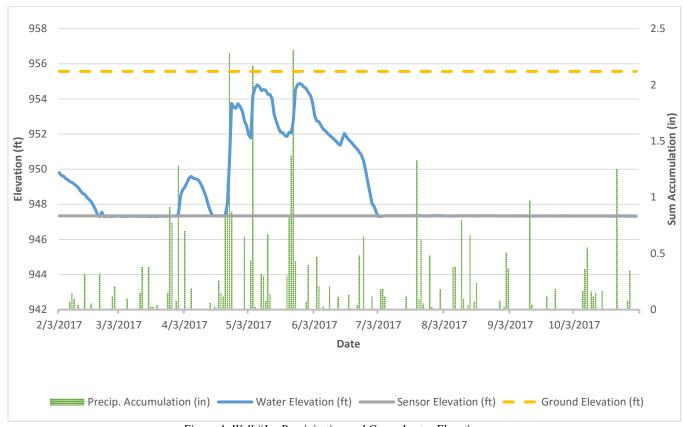


Figure 4: Well #I – Precipitation and Groundwater Elevation

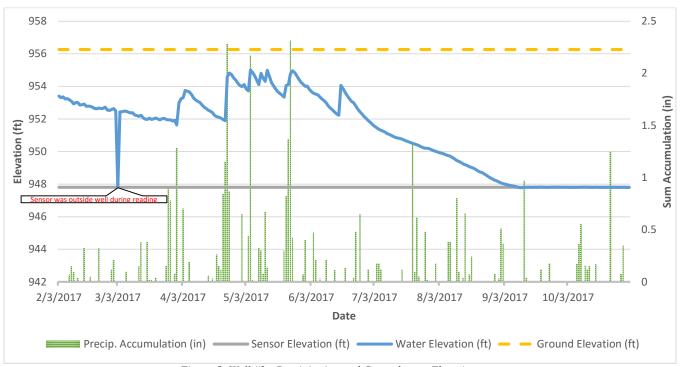


Figure 5: Well #2 - Precipitation and Groundwater Elevation

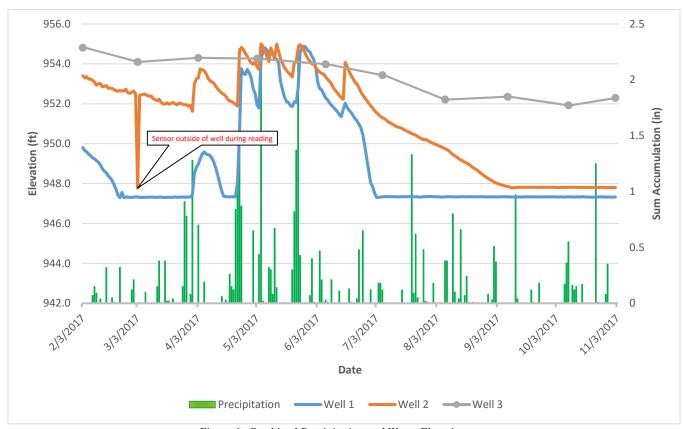
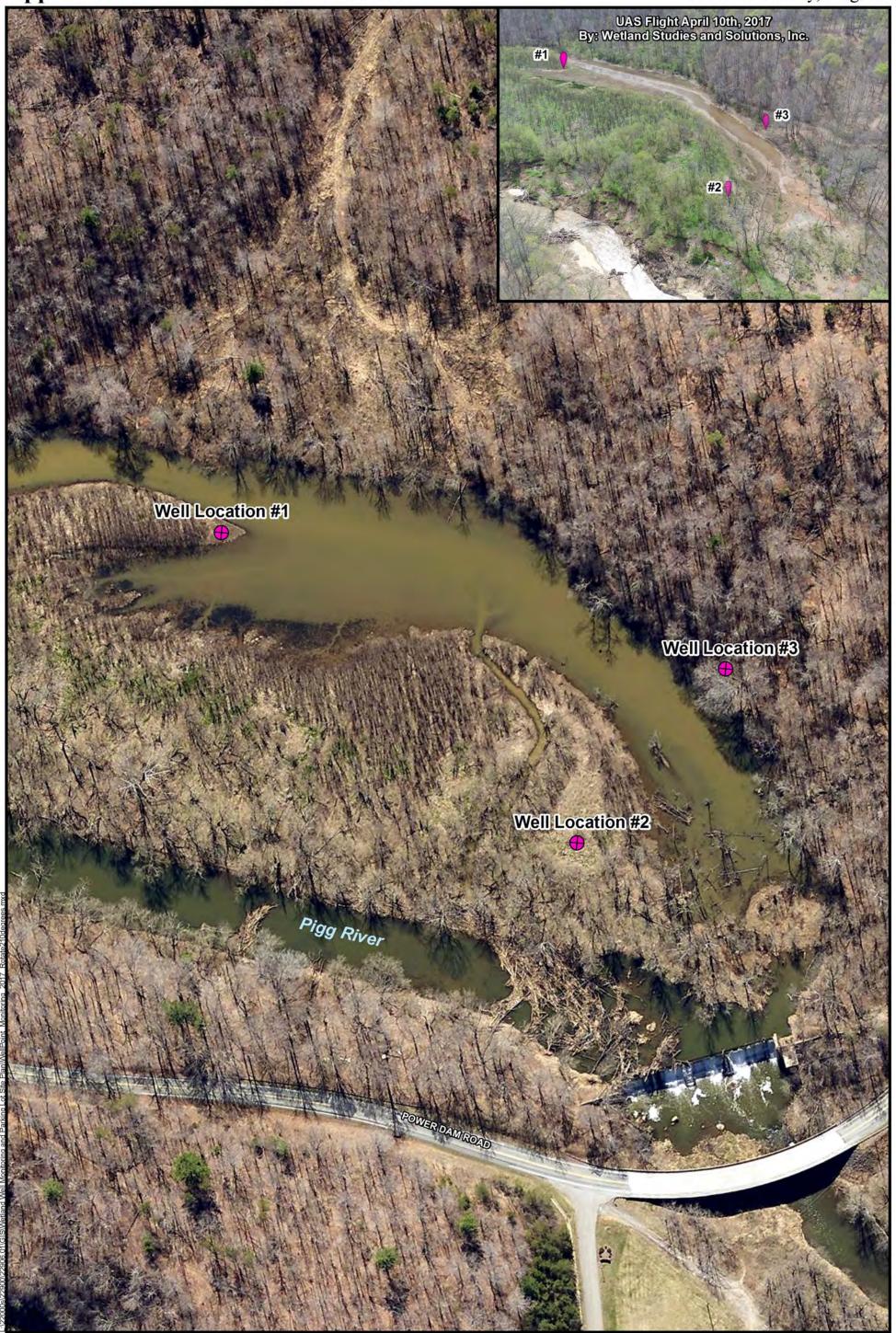


Figure 6: Combined Precipitation and Water Elevation



Pigg River Restoration at Power Dam Post Construction Monitoring Report December 2017 Appendix H

Appendix H

(Daily weather data taken from station KVAROCKY5, available online through Weather Underground.)

		(Y5)						
		(36.971, -	79.846)								Elevation	ı: 1099 ft.			
	Te	mperatur	e		Dew Point			Humidity			Speed			Pressure		Precipitation
Date	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum Accumulation (in)
2/1/2017	54.9 F	45.8 F	36.7 F	36.5 F	28.9 F	23.3 F	66%	52%	37%	6 mph	0 mph	6 mph	28.74 in	28.69 in	28.64 in	0
2/2/2017	63.5 F	49.9 F	36.5 F	35.2 °F	28.6 °F	17 °F	82%	53%	28%	9 mph	2 mph	9 mph	28.88 in	28.81 in	28.74 in	0
2/3/2017	43.7 F	34.3 F	25 F	22.7 °F	15.6 °F	7.2 °F	55%	44%	30%	9 mph	2 mph	9 mph	29.02 in	28.92 in	28.81 in	0
2/4/2017	48 F	32.9 F	17.8 F	12.8 °F	7.4 °F	3.3 °F	66%	39%	19%	9 mph	2 mph	9 mph	29.2 in	29.06 in	28.92 in	0
2/5/2017	63.9 F	46.2 F	28.8 F	35.3 °F	23.9 °F	8.3 °F	78%	47%	30%	12 mph	3 mph	12 mph	28.92 in	28.78 in	28.64 in	0
2/6/2017	75.6 F	55 F	36.1 F	40.5 °F	34.8 °F	28.7 °F	92%	52%	21%	12 mph	3 mph	12 mph	28.86 in	28.78 in	28.69 in	0
2/7/2017	74.5 F	62.8 F	51.1 F	53.3 °F	47.5 °F	37.1 °F	76%	62%	47%	18 mph	6 mph	18 mph	28.69 in	28.53 in	28.38 in	0
2/8/2017	79.7 F	62.5 F	45.5 F	53.8 °F	48 °F	43.6 °F	99%	66%	32%	9 mph	2 mph	9 mph	28.44 in	28.36 in	28.28 in	0.07
2/9/2017	51.6 F	38.2 F	24.8 F	50.8 °F	24.9 °F	6.8 °F	99%	58%	33%	16 mph	6 mph	16 mph	28.93 in	28.57 in	28.2 in	0.15
2/10/2017	44.8 F	31.9 F	19.4 F	21.6 °F	11.6 °F	6.1 °F	66%	41%	25%	10 mph	3 mph	10 mph	29.09 in	28.9 in	28.71 in	0.09
2/11/2017	70.2 F	54.3 F	38.7 F	53.5 °F	37.9 °F	11 °F	83%	54%	18%	10 mph	3 mph	10 mph	28.73 in	28.69 in	28.65 in	0
2/12/2017	86 F	67.9 F	50.2 F	61.3 °F	53 °F	31.8 °F	96%	68%	40%	17 mph	5 mph	17 mph	28.7 in	28.56 in	28.42 in	0.04
2/13/2017	66.9 F	47.8 F	28.9 F	31.9 °F	16.9 °F	9.6 °F	54%	32%	15%	12 mph	3 mph	12 mph	28.79 in	28.7 in	28.61 in	0
2/14/2017	57.6 F	42.4 F	28 F	37.4 °F	22.1 °F	14.1 °F	79%	45%	24%	8 mph	1 mph	8 mph	28.77 in	28.58 in	28.39 in	0
2/15/2017	58.8 F	45.9 F	33.8 F	41.9 °F	30.4 °F	14.4 °F	99%	64%	27%	14 mph	3 mph	14 mph	28.42 in	28.31 in	28.21 in	0.32
2/16/2017	55.9 F	43.2 F	30.4 F	21 °F	16.1 °F	10 °F	59%	39%	19%	13 mph	4 mph	13 mph	28.62 in	28.51 in	28.4 in	0
2/17/2017	76.3 F	52.9 F	29.8 F	35.2 °F	27.1 °F	16.5 °F	78%	41%	20%	14 mph	3 mph	14 mph	28.65 in	28.56 in	28.48 in	0
2/18/2017	84.6 F	62.9 F	41.2 F	39.5 °F	32.7 °F	26.1 °F	63%	39%	19%	12 mph	2 mph	12 mph	28.62 in	28.56 in	28.5 in	0.05
2/19/2017	71.8 F	58.1 F	44.8 F	47.1 °F	41.3 °F	34.1 °F	83%	58%	40%	14 mph	2 mph	14 mph	28.79 in	28.67 in	28.54 in	0.01
2/20/2017	81.7 F	58.7 F	36.1 F	47 °F	38.7 °F	31.7 °F	99%	59%	23%	7 mph	1 mph	7 mph	28.92 in	28.85 in	28.79 in	0
2/21/2017	66.6 F	53.4 F	40.8 F	41.7 °F	38.9 °F	35.8 °F	84%	65%	38%	10 mph	2 mph	10 mph	28.96 in	28.86 in	28.77 in	0
2/22/2017	55.2 F	48.3 F	41.5 F	53.8 °F	47.2 °F	38 °F	99%	94%	82%	6 mph	0 mph	6 mph	28.77 in	28.68 in	28.59 in	0.32
2/23/2017	78.8 F	60.3 F	43.3 F	60 °F	52.1 °F	43 °F	99%	80%	47%	13 mph	2 mph	13 mph	28.63 in	28.57 in	28.51 in	0
2/24/2017	81.9 F	64.8 F	47.8 F	59.1 °F	53 °F	47.5 °F	99%	72%	43%	12 mph	2 mph	12 mph	28.62 in	28.53 in	28.45 in	0
2/25/2017	76.8 F	56.8 F	37 F	59.7 °F	44.7 °F	18.7 °F	91%	61%	31%	15 mph	5 mph	15 mph	28.6 in	28.44 in	28.29 in	0
2/26/2017	61.3 F	43.3 F	25.3 F	23.8 °F	19.5 °F	16.1 °F	76%	45%	19%	14 mph	3 mph	14 mph	29.2 in	28.9 in	28.6 in	0
2/27/2017	63.3 F	44.9 F	26.8 F	33.2 °F	26.7 °F	17.4 °F	86%	53%	26%	12 mph	2 mph	12 mph	29.08 in	29.01 in	28.95 in	0
2/28/2017	75 F	54.5 F	34.2 F	56.3 °F	44.4 °F	30.8 °F	99%	70%	36%	15 mph	2 mph	15 mph	29 in	28.86 in	28.73 in	0.12
3/1/2017	76.5 F	65.6 F	55.2 F	61.9 °F	56.4 °F	47.7 °F	99%	88%	56%	18 mph	5 mph	18 mph	28.73 in	28.56 in	28.38 in	0.21
3/2/2017	65.5 F	50.3 F	35.8 F	47.6 °F	25.9 °F	17.7 °F	74%	42%	23%	16 mph	5 mph	16 mph	28.93 in	28.7 in	28.47 in	0
3/3/2017	53.6 F	38 F	22.8 F	26.7 °F	18.4 °F	9.7 °F	80%	49%	22%	16 mph	3 mph	16 mph	29.19 in	29.05 in	28.91 in	0
3/4/2017	61.2 F	41.4 F	21.6 F	25.6 °F	17.5 °F	11.3 °F	72%	45%	17%	10 mph	2 mph	10 mph	29.27 in	29.19 in	29.12 in	0
3/5/2017	54.9 F	38.8 F	22.6 F	23.1 °F	19.8 °F	15.2 °F	81%	51%	27%	9 mph	2 mph	9 mph	29.31 in	29.22 in	29.13 in	0
3/6/2017	66.9 F	46.6 F	26.2 F	46.9 °F	35.8 °F	21.3 °F	91%	68%	37%	12 mph	2 mph	12 mph	29.16 in	29.08 in	29 in	0
3/7/2017	67.5 F	58.9 F	50.7 F	55.4 °F	50.8 °F	45.1 °F	97%	78%	58%	16 mph	5 mph	16 mph	29.01 in	28.89 in	28.77 in	0.1
3/8/2017	74.8 F	60.6 F	46.4 F	54.5 °F	31.3 °F	19.9 °F	90%	41%	14%	13 mph	4 mph	13 mph	28.91 in	28.82 in	28.73 in	0
3/9/2017	82.8 F	63.2 F	43.9 F	29.9 °F	24.5 °F	-17.3 °F	41 %	26%	12%	14 mph	3 mph	14 mph	28.92 in	28.77 in	28.63 in	0
3/10/2017	69.8 F	51.6 F	34.3 F	47.1 °F	28.5 °F	13.9 °F	71%	42%	29%	19 mph	5 mph	19 mph	28.82 in	28.65 in	28.47 in	0
3/11/2017	59.2 F	43 F	27.3 F	16.5 °F	8 °F	-0.6 °F	57 %	29%	11%	9 mph	3 mph	9 mph	28.96 in	28.88 in	28.81 in	0

3/12/2017	59.9 F	44 F	28 F	16.2 °F	11.1 °F	7.2 °F	48%	33%	15%	10 mph	2 mph	10 mph	29.05 in	28.97 in	28.88 in	0
3/13/2017	49.5 F	36.2 F	23.5 F	33.7 °F	23 °F	10.7 °F	99%	68%	37%	10 mph	3 mph	10 mph	29.07 in	28.84 in	28.61 in	0.15
3/14/2017	52.2 F	37.7 F	23.7 F	40.5 °F	27.5 °F	8.3 °F	99%	74%	42%	18 mph	4 mph	18 mph	28.76 in	28.55 in	28.34 in	0.38
3/15/2017	43.3 F	29.5 F	16.2 F	13 °F	6.4 °F	1.3 °F	67%	40%	23%	15 mph	6 mph	15 mph	28.85 in	28.73 in	28.61 in	0
3/16/2017	53.1 F	37.4 F	21.7 F	16.2 °F	11.2 °F	6.2 °F	58%	39%	20%	12 mph	3 mph	12 mph	28.97 in	28.91 in	28.85 in	0
3/17/2017	62.4 F	42 F	22.3 F	37.9 °F	18.3 °F	11.3 °F	99%	48%	18%	12 mph	2 mph	12 mph	29.06 in	28.95 in	28.84 in	0.38
3/18/2017	78.1 F	57.4 F	37.2 F	52.2 °F	42 °F	31.4 °F	99%	72%	24%	14 mph	3 mph	14 mph	28.87 in	28.71 in	28.54 in	0.02
3/19/2017	63.3 F	48.5 F	34.5 F	34.2 °F	30.7 °F	28.3 °F	80%	48%	30%	15 mph	3 mph	15 mph	28.94 in	28.83 in	28.73 in	0.02
3/20/2017	78.1 F	51.7 F	26.2 F	44.5 °F	32.5 °F	25.2 °F	98%	58%	20%	10 mph	2 mph	10 mph	28.94 in	28.8 in	28.66 in	0
3/21/2017	81.5 F	62.3 F	43.2 F	54.5 °F	48.7 °F	38.7 °F	99%	68%	38%	12 mph	2 mph	12 mph	28.69 in	28.64 in	28.59 in	0.04
3/22/2017	64.6 F	49.9 F	35.8 F	40 °F	26.2 °F	13.4 °F	80%	40%	18%	14 mph	3 mph	14 mph	29.09 in	28.87 in	28.65 in	0
3/23/2017	58.5 F	41 F	24.1 F	22 °F	17.2 °F	11.4 °F	68%	40%	20%	10 mph	3 mph	10 mph	29.26 in	29.17 in	29.09 in	0
3/24/2017	74.5 F	53.8 F	33.8 F	48.7 °F	36.8 °F	19.9 °F	68%	54%	37%	15 mph	4 mph	15 mph	29.15 in	29.04 in	28.93 in	0
3/25/2017	82.2 F	67.6 F	53.1 F	54 °F	50.1 °F	46.9 °F	81%	59%	37%	13 mph	3 mph	13 mph	28.96 in	28.9 in	28.83 in	0
3/26/2017	71.4 F	62.4 F	53.4 F	61.3 °F	54.5 °F	48.6 °F	99%	82%	58%	10 mph	2 mph	10 mph	28.91 in	28.85 in	28.8 in	0.15
3/27/2017	78.3 F	66.9 F	55.6 F	63.1 °F	58.7 °F	55.3 °F	99%	79%	54%	13 mph	3 mph	13 mph	28.81 in	28.71 in	28.61 in	0.91
3/28/2017	81 F	68.7 F	56.3 F	64.2 °F	57.1 °F	51.8 °F	99%	80%	41%	11 mph	3 mph	11 mph	28.68 in	28.61 in	28.55 in	0.78
3/29/2017	78.6 F	55.3 F	32 F	99.9 °F	52.3 °F	48.3 °F	99%	62%	42%	9 mph	3 mph	9 mph	28.79 in	28.72 in	28.64 in	0
3/30/2017	61 F	55.2 F	49.5 F	53.1 °F	49.4 °F	46.1 °F	99%	83%	67%	9 mph	4 mph	9 mph	28.84 in	28.74 in	28.63 in	0.08
3/31/2017	71.8 F	59.4 F	47.7 F	62.3 °F	50.5 °F	44.8 °F	99%	88%	44%	13 mph	2 mph	13 mph	28.63 in	28.46 in	28.29 in	1.28
4/1/2017	77.4 F	61.7 F	46.2 F	50.8 °F	45.6 °F	39.9 °F	83%	63%	37%	13 mph	4 mph	13 mph	28.81 in	28.63 in	28.45 in	0
4/2/2017	69.3 F	52.1 F	36 F	46 °F	41 °F	35.7 °F	99%	68%	40%	9 mph	2 mph	9 mph	28.91 in	28.85 in	28.78 in	0
4/3/2017	57.6 F	49.3 F	41 F	54.6 °F	48.7 °F	39.9 °F	99%	93%	78%	9 mph	1 mph	9 mph	28.97 in	28.67 in	28.37 in	0.7
4/4/2017	88.5 F	71.8 F	55.2 F	61.3 °F	53.8 °F	46.6 °F	99%	66%	28%	15 mph	4 mph	15 mph	28.52 in	28.42 in	28.32 in	0
4/5/2017	74.7 F	61.1 F	47.7 F	56.9 °F	51.2 °F	44.9 °F	92%	68%	42%	14 mph	3 mph	14 mph	28.62 in	28.5 in	28.37 in	0
4/6/2017	72.7 F	58.8 F	45 F	60.5 °F	46.6 °F	33 °F	99%	70%	35%	23 mph	6 mph	23 mph	28.37 in	28.23 in	28.09 in	0.19
4/7/2017	56.7 F	47 F	37.9 F	34.6 °F	30.9 °F	27.1 °F	82%	56%	41%	17 mph	6 mph	17 mph	28.62 in	28.46 in	28.3 in	0
4/8/2017	78.1 F	59.1 F	40.1 F	36.2 °F	29 °F	23.6 °F	62%	39%	17%	11 mph	2 mph	11 mph	28.92 in	28.74 in	28.56 in	0
4/9/2017	81.3 F	56.3 F	32.4 F	40.1 °F	32 °F	27.7 °F	89%	45%	17%	12 mph	2 mph	12 mph	28.91 in	28.83 in	28.76 in	0
4/10/2017	87.3 F	69.4 F	51.4 F	49.4 °F	43.4 °F	32.6 °F	63%	42%	24%	13 mph	4 mph	13 mph	28.94 in	28.89 in	28.84 in	0
4/11/2017	92.8 F	71.4 F	50.4 F	57.3 °F	51.4 °F	46.8 °F	90%	53%	29%	13 mph	3 mph	13 mph	28.93 in	28.86 in	28.8 in	0
4/12/2017	89.2 F	73.2 F	57.7 F	59.4 °F	52 °F	41.1 °F	87%	55%	30%	7 mph	2 mph	7 mph	28.97 in	28.9 in	28.83 in	0
4/13/2017	81.9 F	68.8 F	55.8 F	50.9 °F	44.1 °F	37.2 °F	59%	44%	26%	11 mph	3 mph	11 mph	29.04 in	28.97 in	28.89 in	0
4/14/2017	81.5 F	68.6 F	55.6 F	57.1 °F	50.5 °F	45.7 °F	78%	60%	34%	10 mph	3 mph	10 mph	29.03 in	28.96 in	28.89 in	0
4/15/2017	89.1 F	69.7 F	51.1 F	66.3 °F	57.5 °F	50.8 °F	99%	75%	41%	9 mph	1 mph	9 mph	29 in	28.94 in	28.87 in	0.06
4/16/2017	90 F	73.4 F	57.7 F	62.2 °F	56.5 °F	52.7 °F	85%	59%	35%	13 mph	3 mph	13 mph	28.89 in	28.81 in	28.73 in	0
4/17/2017	93.4 F	74.8 F	56.3 F	63 °F	58.4 °F	55.2 °F	99%	75%	32%	9 mph	1 mph	9 mph	28.82 in	28.76 in	28.71 in	0.03
4/18/2017	79 F	66.8 F	55.9 F	59.2 °F	51.4 °F	43.2 °F	99%	66%	35%	12 mph	3 mph	12 mph	29.03 in	28.92 in	28.82 in	0.01
4/19/2017	56.8 F	52.9 F	49.1 F	54.8 °F	50.8 °F	42.9 °F	99%	92%	68%	9 mph	1 mph	9 mph	29.08 in	29 in	28.92 in	0.26
4/20/2017	91.6 F	59.8 F	28.4 F	69.8 °F	61.3 °F	21.2 °F	99%	85%	44%	9 mph	1 mph	9 mph	28.92 in	28.8 in	28.68 in	0.15
4/21/2017	92.7 F	74.9 F	57.7 F	68.1 °F	62.7 °F	57.4 °F	99%	78%	42%	10 mph	2 mph	10 mph	31.78 in	30.15 in	28.52 in	0.12
4/22/2017	77.4 F	63.8 F	50.9 F	68.8 °F	60.8 °F	50.6 °F	99%	96%	75%	9 mph	2 mph	9 mph	28.7 in	28.6 in	28.5 in	0.84
4/23/2017	51.1 F	48.8 F	46.4 F	50.8 °F	47.2 °F	46.1 °F	99%	98%	91%	11 mph	4 mph	11 mph	28.76 in	28.71 in	28.66 in	1.15
4/24/2017	51.4 F	48.9 F	46.4 F	51.1 °F	48.6 °F	46.1 °F	99%	99%	99%	12 mph	5 mph	12 mph	28.71 in	28.61 in	28.51 in	2.28

4/25/2017	63 F	56.1 F	49.6 F	60.7 °F	54.9 °F	49.3 °F	99%	98%	89%	13 mph	4 mph	13 mph	28.51 in	28.44 in	28.38 in	0.87
4/26/2017	87.3 F	68.7 F	50 F	66.3 °F	59.4 °F	49.7 °F	99%	79%	45%	12 mph	2 mph	12 mph	28.5 in	28.46 in	28.42 in	0
4/27/2017	82.8 F	69.1 F	55.6 F	65 °F	60 °F	55.3 °F	99%	80%	48%	12 mph	2 mph	12 mph	28.59 in	28.53 in	28.48 in	0
4/28/2017	87.3 F	71 F	54.7 F	69.1 °F	62.9 °F	54.4 °F	99%	77%	47%	14 mph	3 mph	14 mph	28.74 in	28.66 in	28.58 in	0
4/29/2017	91.6 F	77.7 F	63.9 F	73.9 °F	69.4 °F	63.5 °F	99%	78%	54%	13 mph	3 mph	13 mph	28.85 in	28.79 in	28.73 in	0
4/30/2017	87.8 F	77.4 F	67.1 F	70.2 °F	67.2 °F	63.5 °F	99%	78%	50%	12 mph	4 mph	12 mph	28.84 in	28.78 in	28.72 in	0
5/1/2017	77.5 F	69.9 F	62.4 F	72.6 °F	67.1 °F	61.2 °F	99%	93%	83%	15 mph	6 mph	15 mph	28.72 in	28.55 in	28.38 in	0.65
5/2/2017	85.5 F	68.9 F	53.6 F	61 °F	48 °F	41.4 °F	99%	57%	24%	13 mph	3 mph	13 mph	28.69 in	28.56 in	28.42 in	0
5/3/2017	85.1 F	66.8 F	48.9 F	49.6 °F	44.1 °F	33.3 °F	81%	51%	21%	10 mph	2 mph	10 mph	28.81 in	28.7 in	28.6 in	0
5/4/2017	67.8 F	57.7 F	47.7 F	62.7 °F	51.3 °F	36.3 °F	99%	79%	62%	12 mph	4 mph	12 mph	28.85 in	28.62 in	28.4 in	0.44
5/5/2017	77 F	64.9 F	53.4 F	67.9 °F	57.2 °F	45.2 °F	99%	79%	46%	21 mph	5 mph	21 mph	28.4 in	28.25 in	28.1 in	2.17
5/6/2017	68.2 F	56.5 F	45 F	51.3 °F	44.1 °F	37.7 °F	95%	71%	36%	15 mph	3 mph	15 mph	28.42 in	28.26 in	28.1 in	0.02
5/7/2017	76.3 F	58.3 F	40.3 F	49.1 °F	39.7 °F	30.3 °F	99%	62%	24%	9 mph	2 mph	9 mph	28.6 in	28.51 in	28.41 in	0
5/8/2017	77.7 F	58.9 F	40.3 F	39.5 °F	33.1 °F	25.2 °F	92%	49%	17%	10 mph	2 mph	10 mph	28.71 in	28.64 in	28.57 in	0
5/9/2017	64.8 F	50.9 F	37.6 F	56.1 °F	47.3 °F	31.9 °F	99%	85%	68%	10 mph	0 mph	10 mph	28.72 in	28.67 in	28.62 in	0.32
5/10/2017	84 F	69.4 F	55.2 F	71.2 °F	63.6 °F	54.9 °F	99%	88%	65%	9 mph	2 mph	9 mph	28.67 in	28.61 in	28.56 in	0.3
5/11/2017	93.6 F	74.7 F	55.8 F	71.1 °F	64.2 °F	55.5 °F	99%	86%	41%	10 mph	2 mph	10 mph	28.62 in	28.53 in	28.44 in	0.08
5/12/2017	55.8 F	52.8 F	49.8 F	55.5 °F	51.3 °F	49.5 °F	99%	99%	99%	10 mph	3 mph	10 mph	28.66 in	28.6 in	28.54 in	0.67
5/13/2017	80.6 F	63.2 F	47.7 F	62.5 °F	52 °F	46.9 °F	99%	82%	43%	7 mph	1 mph	7 mph	28.57 in	28.51 in	28.44 in	0.14
5/14/2017	91.4 F	67.8 F	44.2 F	60.7 °F	53.4 °F	43.9 °F	99%	66%	33%	10 mph	2 mph	10 mph	28.58 in	28.54 in	28.5 in	0
5/15/2017	91.8 F	74.2 F	57 F	65.1 °F	56.1 °F	47.7 °F	95%	62%	30%	9 mph	2 mph	9 mph	28.72 in	28.63 in	28.54 in	0
5/16/2017	87.3 F	67.7 F	48.7 F	62.6 °F	55 °F	47.6 °F	99%	66%	31%	9 mph	2 mph	9 mph	28.81 in	28.72 in	28.64 in	0
5/17/2017	97.7 F	77.8 F	57.9 F	71.6 °F	62.7 °F	57.6 °F	99%	67%	34%	12 mph	2 mph	12 mph	28.92 in	28.81 in	28.7 in	0
5/18/2017	92.1 F	77.2 F	62.4 F	72.3 °F	65.1 °F	58.2 °F	89%	72%	48%	9 mph	2 mph	9 mph	28.8 in	28.75 in	28.7 in	0
5/19/2017	99.3 F	81.2 F	63.9 F	74.8 °F	66.8 °F	62.2 °F	99%	78%	43%	9 mph	1 mph	9 mph	28.78 in	28.74 in	28.69 in	0
5/20/2017	95.7 F	78.4 F	62.4 F	74.2 °F	66.9 °F	61.8 °F	99%	77%	41%	9 mph	2 mph	9 mph	28.92 in	28.83 in	28.73 in	0
5/21/2017	68.5 F	63.4 F	58.3 F	65.1 °F	59.2 °F	56.1 °F	99%	93%	83%	9 mph	2 mph	9 mph	28.94 in	28.88 in	28.82 in	0.3
5/22/2017	88.7 F	73.6 F	58.8 F	73.1 °F	62.4 °F	58.2 °F	99%	85%	46%	6 mph	1 mph	6 mph	28.83 in	28.74 in	28.64 in	0.82
5/23/2017	60.8 F	59.1 F	57.4 F	60.5 °F	58.3 °F	57.1 °F	99%	99%	94%	6 mph	1 mph	6 mph	28.65 in	28.52 in	28.4 in	1.37
5/24/2017	63.3 F	60.2 F	57.2 F	62.8 °F	59 °F	56.9 °F	99%	99%	99%	8 mph	3 mph	8 mph	28.41 in	28.3 in	28.19 in	2.31
5/25/2017	80.4 F	68.2 F	56.1 F	65.9 °F	57.1 °F	50.4 °F	99%	83%	45%	9 mph	2 mph	9 mph	28.37 in	28.25 in	28.13 in	0.43
5/26/2017	88.3 F	72.9 F	57.7 F	59.9 °F	56.3 °F	51.8 °F	92%	64%	36%	13 mph	3 mph	13 mph	28.82 in	28.6 in	28.37 in	0
5/27/2017	98.6 F	76.8 F	55.4 F	73.2 °F	64.6 °F	54.8 °F	99%	73%	40%	7 mph	1 mph	7 mph	28.65 in	28.59 in	28.53 in	0
5/28/2017	82.9 F	72.6 F	62.2 F	72.5 °F	66.6 °F	60.9 °F	99%	86%	64%	12 mph	2 mph	12 mph	28.58 in	28.53 in	28.49 in	0
5/29/2017	95.4 F	77 F	59.2 F	69.1 °F	63.9 °F	58.9 °F	99%	73%	36%	7 mph	1 mph	7 mph	28.73 in	28.63 in	28.53 in	0
5/30/2017	93.6 F	77.1 F	60.8 F	70.5 °F	64.9 °F	60.5 °F	99%	78%	40%	7 mph	1 mph	7 mph	28.75 in	28.71 in	28.67 in	0.07
5/31/2017	95 F	76.3 F	58.1 F	68.4 °F	61.7 °F	54.8 °F	99%	80%	30%	7 mph	1 mph	7 mph	29.01 in	28.85 in	28.69 in	0.4
6/1/2017	94.8 F	76.2 F	57.7 F	68.3 °F	59.2 °F	51.6 °F	99%	65%	30%	9 mph	1 mph	9 mph	28.77 in	28.72 in	28.67 in	0.01
6/2/2017	94.5 F	75.6 F	56.7 F	62 °F	54.3 °F	48.2 °F	90%	57%	25%	7 mph	1 mph	7 mph	28.78 in	28.74 in	28.69 in	0
6/3/2017	99.9 F	74.8 F	50 F	62.2 °F	54.1 °F	48.5 °F	99%	60%	20%	6 mph	1 mph	6 mph	28.8 in	28.74 in	28.68 in	0
6/4/2017	94.1 F	72.8 F	52.7 F	74 °F	61.7 °F	51.2 °F	99%	76%	38%	10 mph	2 mph	10 mph	28.74 in	28.65 in	28.55 in	0.47
6/5/2017	72.1 F	66.9 F	61.7 F	70.2 °F	66.7 °F	61.2 °F	99%	96%	84%	7 mph	1 mph	7 mph	28.58 in	28.49 in	28.4 in	0.21
6/6/2017	84 F	71.2 F	59 F	67.3 °F	58.3 °F	50.2 °F	99%	70%	38%	7 mph	1 mph	7 mph	28.54 in	28.48 in	28.42 in	0.01
6/7/2017	77 F	63.4 F	50.7 F	59.3 °F	54.2 °F	49.6 °F	97%	72%	48%	10 mph	3 mph	10 mph	28.67 in	28.6 in	28.52 in	0.03

68/2017 76.5 F 65.4 F 55.2 F 60.3 FF 56.8 F 48.2 FF 99% 33% 53% 9 mln b 1mph 2mb 28.8 in 28.5 in 0.01 68/2017 90 F 69.6 F 50.2 F 62.9 F 56.8 FF 49.9 FF 99% 179% 35% 9 mln b 1mph 1mph 1mph 28.3 in 28.7 in 0.02 1 67/12017 90.7 F 75.6 F 54.7 F 68.9 FF 61.1 FF 54.4 FF 99% 68% 38% 9 mln 1mph 9 mln 28.8 in 28.7 in 0.02 1 67/12017 90.4 F 79.6 F 60.6 F 72.3 FF 68.9 FF 60.6 FF 99% 68% 38% 9 mln 1mph 9 mln 28.8 in 28.8 in 0.0 67/12017 90.4 F 79.6 F 60.6 F 72.3 FF 66.9 FF 60.6 FF 99% 72% 42% 6 mln 1mph 9 mln 28.8 in 28.8 in 0.0 67/12017 90.4 F 82.8 F 60.2 F 75.5 FF 60.9 FF 60.6 FF 99% 72% 42% 6 mln 1mph 9 mln 28.8 in 28.8 in 0.0 67/12017 90.8 FF 82.5 F 60.9 FF 60.6 FF 99% 79% 72% 42% 6 mln 1mph 9 mln 30.0 in 29.9 in 0.11 67/15017 92.8 FF 82.5 F 60.9 FF 60.6 FF 99% 79% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 F 60.9 FF 60.6 FF 99% 79% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 F 60.9 FF 60.6 FF 99% 79% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 F 60.9 FF 60.6 FF 99% 99% 79% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 F 60.9 FF 60.6 FF 99% 80% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 F 60.9 FF 60.6 FF 99% 80% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 F 60.9 FF 60.6 FF 99% 80% 80% 8 mln 44% 7 mln 0 mln 28.8 FF 82.5 FF 60.9 FF 82.4 FF 63.1 FF 72.4 FF 60.8 FF 99% 80% 80% 80.0 in 0.0 i
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7/18/2017 103.3 F 84.3 F 65.3 F 75.9 °F 69.3 °F 64 °F 99% 75% 35% 6 mph 1 mph 6 mph 28.82 in 28.78 in 28.74 in 0
7/19/2017 103.3 F 82.8 F 62.6 F 72.6 °F 67.3 °F 62.1 °F 99% 67% 33% 7 mph 1 mph 7 mph 28.82 in 28.77 in 28.72 in 0

7/22/2017	105.3 F	87.4 F	70.5 F	82.3 °F	75 °F	70.2 °F	99%	78%	44%	7 mph	1 mph	7 mph	28.68 in	28.6 in	28.52 in	0.09
7/23/2017		88.1 F	71.2 F	78.1 °F	72.3 °F	67 °F	99%	71%	37%	13 mph	2 mph	13 mph	28.58 in	28.53 in	28.48 in	0.62
7/24/2017		86.9 F	68.7 F	74.6 °F	69.5 °F	62.9 °F	99%	67%	29%	8 mph	2 mph	8 mph	28.66 in	28.57 in	28.48 in	0.05
7/25/2017		84.2 F	65.3 F	71.9 °F	65.7 °F	57.6 °F	99%	60%	24%	8 mph	2 mph	8 mph	28.8 in	28.73 in	28.66 in	0
7/26/2017		81.9 F	68 F	70.6 °F	67.2 °F	61.8 °F	98%	65%	42%	9 mph	2 mph	9 mph	28.92 in	28.85 in	28.77 in	0
7/27/2017		82.8 F	65.7 F	77.2 °F	71.2 °F	65.4 °F	99%	86%	47%	8 mph	1 mph	8 mph	28.8 in	28.69 in	28.59 in	0.48
7/28/2017		79.7 F	69.6 F	78.5 °F	73.5 °F	69.3 °F	99%	90%	61%	6 mph	0 mph	6 mph	28.6 in	28.48 in	28.36 in	0.02
7/29/2017	85.3 F	73.3 F	61.7 F	70.9 °F	66.3 °F	61.2 °F	99%	81%	54%	12 mph	3 mph	12 mph	28.67 in	28.51 in	28.35 in	0.01
7/30/2017	90.9 F	73.3 F	55.9 F	62.1 °F	57.2 °F	52.4 °F	99%	66%	31%	9 mph	2 mph	9 mph	28.81 in	28.74 in	28.66 in	0
7/31/2017	95.5 F	74.4 F	54 F	64.3 °F	59.8 °F	53.7 °F	99%	67%	34%	8 mph	2 mph	8 mph	28.85 in	28.81 in	28.76 in	0
8/1/2017	88.5 F	76.7 F	65.1 F	68.4 °F	65.8 °F	62.9 °F	99%	77%	45%	7 mph	0 mph	7 mph	28.82 in	28.78 in	28.75 in	0.18
8/2/2017	99.7 F	80.9 F	62.6 F	72.7 °F	67.5 °F	62.3 °F	99%	77%	38%	6 mph	1 mph	6 mph	28.81 in	28.76 in	28.72 in	0
8/3/2017	100 F	80.3 F	60.6 F	72.6 °F	65.2 °F	60.3 °F	99%	68%	34%	9 mph	1 mph	9 mph	28.83 in	28.78 in	28.73 in	0
8/4/2017	103.3 F	82.2 F	61.9 F	70.8 °F	65.3 °F	61.6 °F	99%	65%	30%	12 mph	2 mph	12 mph	28.76 in	28.67 in	28.59 in	0
8/5/2017	93.2 F	76.6 F	60.3 F	64.9 °F	59 °F	53.3 °F	94%	59%	32%	12 mph	2 mph	12 mph	28.78 in	28.69 in	28.61 in	0
8/6/2017	99 F	75.8 F	52.7 F	65.9 °F	60.1 °F	52.4 °F	99%	66%	33%	7 mph	1 mph	7 mph	28.84 in	28.79 in	28.74 in	0
8/7/2017	90 F	77.6 F	65.1 F	75 °F	69.9 °F	63.9 °F	99%	90%	60%	8 mph	1 mph	8 mph	28.78 in	28.69 in	28.59 in	0.38
8/8/2017	90.3 F	76.4 F	62.8 F	72.3 °F	68.2 °F	62.5 °F	99%	87%	47%	8 mph	1 mph	8 mph	28.83 in	28.72 in	28.61 in	0.38
8/9/2017	93.6 F	75.8 F	57.9 F	69.6 °F	61.7 °F	57.6 °F	99%	73%	37%	6 mph	2 mph	6 mph	28.92 in	28.88 in	28.83 in	0
8/10/2017	91.8 F	73.8 F	56.3 F	69.2 °F	63.2 °F	56 °F	99%	77%	42%	7 mph	1 mph	7 mph	28.94 in	28.89 in	28.83 in	0
8/11/2017	96.3 F	79.5 F	63.5 F	74 °F	68.7 °F	63.2 °F	99%	86%	46%	8 mph	1 mph	8 mph	28.85 in	28.78 in	28.7 in	0.8
8/12/2017	98.4 F	82.9 F	68.4 F	77.4 °F	71.7 °F	23.2 °F	99%	83%	46%	7 mph	1 mph	7 mph	28.97 in	28.77 in	28.58 in	0.1
8/13/2017	93.9 F	81.3 F	68.7 F	73.6 °F	70.8 °F	68.4 °F	99%	84%	48%	8 mph	1 mph	8 mph	28.74 in	28.68 in	28.62 in	0
8/14/2017	85.3 F	76.2 F	67.6 F	73.3 °F	70.3 °F	67.3 °F	99%	90%	67%	6 mph	1 mph	6 mph	28.74 in	28.68 in	28.62 in	0.04
8/15/2017	97.3 F	82.9 F	68.7 F	80 °F	73 °F	68.4 °F	99%	89%	53%	13 mph	0 mph	13 mph	28.66 in	28.61 in	28.56 in	0.66
8/16/2017	102.6 F	84.5 F	66.4 F	77.4 °F	71.5 °F	66.1 °F	99%	76%	38%	7 mph	1 mph	7 mph	28.75 in	28.7 in	28.65 in	0
8/17/2017	105.6 F	87.1 F	69.6 F	78.6 °F	73.7 °F	69.3 °F	99%	77%	41%	8 mph	1 mph	8 mph	28.75 in	28.69 in	28.62 in	0.07
8/18/2017	105.4 F	87.7 F	70.3 F	80 °F	74.5 °F	69.9 °F	99%	81%	40%	8 mph	1 mph	8 mph	28.65 in	28.58 in	28.52 in	0.24
8/19/2017	102.4 F	83.4 F	65.1 F	74.9 °F	68.8 °F	64.8 °F	99%	74%	32%	6 mph	1 mph	6 mph	28.7 in	28.66 in	28.62 in	0.01
8/20/2017	104.2 F	83.8 F	63.3 F	73.5 °F	68.7 °F	63 °F	99%	73%	33%	8 mph	1 mph	8 mph	28.87 in	28.78 in	28.7 in	0
8/21/2017	106 F	85.5 F	65.7 F	79 °F	71.5 °F	65.4 °F	99%	80%	37%	6 mph	1 mph	6 mph	28.91 in	28.86 in	28.82 in	0.01
8/22/2017	104.7 F	84.9 F	65.8 F	77.1 °F	71.7 °F	65.5 °F	99%	73%	40%	9 mph	1 mph	9 mph	28.86 in	28.73 in	28.59 in	0
8/23/2017	100.4 F	83.7 F	67.3 F	74.7 °F	68.8 °F	59.7 °F	99%	72%	38%	8 mph	1 mph	8 mph	28.63 in	28.58 in	28.52 in	0
8/24/2017	90.9 F	75.9 F	61 F	65 °F	62 °F	59.8 °F	99%	73%	38%	7 mph	1 mph	7 mph	28.72 in	28.67 in	28.61 in	0
8/25/2017	94.1 F	74.3 F	55 F	62 °F	58.4 °F	54.7 °F	99%	71%	30%	7 mph	1 mph	7 mph	28.87 in	28.8 in	28.72 in	0
8/26/2017	92.7 F	76.4 F	60.3 F	67.5 °F	62.1 °F	58.7 °F	97%	74%	41%	7 mph	2 mph	7 mph	28.91 in	28.87 in	28.83 in	0
8/27/2017	91.6 F	76.6 F	62.1 F	66.5 °F	62.1 °F	58.7 °F	99%	75%	38%	8 mph	1 mph	8 mph	28.91 in	28.85 in	28.8 in	0
8/28/2017	82.2 F	69.7 F	57.2 F	60.8 °F	58.2 °F	54.8 °F	94%	70%	47%	11 mph	3 mph	11 mph	28.88 in	28.83 in	28.78 in	0
8/29/2017	72.3 F	64.8 F	57.6 F	64.8 °F	60.7 °F	57.3 °F	99%	91%	74%	9 mph	3 mph	9 mph	28.79 in	28.74 in	28.68 in	0.08
8/30/2017	94.3 F	75.4 F	56.8 F	69.9 °F	64.6 °F	56.5 °F	99%	80%	43%	7 mph	1 mph	7 mph	28.76 in	28.72 in	28.67 in	0
8/31/2017	91.6 F	76.9 F	62.6 F	72.8 °F	67.2 °F	-33.4 °F	99 %	86%	48%	6 mph	1 mph	6 mph	28.75 in	28.7 in	28.66 in	0.03
9/1/2017	65.5 F	59.9 F	54.3 F	65.2 °F	60.2 °F	53.8 °F	99%	99%	91%	10 mph	3 mph	10 mph	28.78 in	28.73 in	28.67 in	0.51
9/2/2017	65.7 F	58.9 F	52.2 F	62.4 °F	57.2 °F	51.9 °F	99%	97%	89%	6 mph	2 mph	6 mph	28.77 in	28.73 in	28.68 in	0.37
9/3/2017	92.5 F	72.6 F	52.9 F	66 °F	59.7 °F	52.6 °F	99%	75%	35%	13 mph	2 mph	13 mph	28.75 in	28.72 in	28.69 in	0

9/4/2017	61.7 F	61.7 F	61.7 F	60 °F	60 °F	60 °F	94%	94%	94%	0 mph	0 mph	0 mph	28.75 in	28.75 in	28.75 in	0
9/5/2017	61.7 F	61.7 F	61.7 F	60 °F	60 °F	60 °F	94%	94%	94%	0 mph	0 mph	0 mph	28.75 in	28.75 in	28.75 in	0
9/6/2017	61.7 F	61.7 F	61.7 F	60 °F	60 °F	60 °F	94%	94%	94%	0 mph	0 mph	0 mph	30.13 in	29.44 in	28.75 in	0
9/7/2017	61.7 F	61.7 F	61.7 F	60 °F	60 °F	60 °F	94%	94%	94%	0 mph	0 mph	0 mph	30.13 in	29.44 in	28.75 in	0
9/8/2017	61.7 F	61.7 F	61.7 F	60 °F	60 °F	60 °F	94%	94%	94%	0 mph	0 mph	0 mph	30.13 in	29.44 in	28.75 in	0
9/9/2017	61.7 F	61.7 F	61.7 F	60 °F	60 °F	60 °F	94%	94%	94%	0 mph	0 mph	0 mph	30.13 in	30.13 in	30.13 in	0
9/10/2017	75.2 F	64.4 F	53.6 F	60 °F	56.9 °F	50.5 °F	95%	85%	43%	9 mph	1 mph	9 mph	30.41 in	29.7 in	29 in	0
9/11/2017	63.9 F	57.2 F	50.5 F	57.5 °F	54.2 °F	50.2 °F	99%	90%	72%	9 mph	3 mph	9 mph	30.38 in	30.26 in	30.14 in	0
9/12/2017	65.8 F	60.9 F	55.9 F	65.5 °F	60.5 °F	55.6 °F	99%	98%	90%	9 mph	3 mph	9 mph	30.14 in	29.35 in	28.57 in	0.97
9/13/2017	90.3 F	75.8 F	62.1 F	70 °F	64.8 °F	61.8 °F	99%	82%	43%	9 mph	1 mph	9 mph	29.96 in	29.25 in	28.54 in	0.04
9/14/2017	87.6 F	73.1 F	59 F	68.3 °F	63.9 °F	58.7 °F	99%	84%	48%	6 mph	1 mph	6 mph	28.7 in	28.64 in	28.57 in	0
9/15/2017	90 F	71.6 F	56.1 F	68 °F	58.2 °F	55.6 °F	99%	97%	49%	7 mph	0 mph	7 mph	28.81 in	28.75 in	28.69 in	0
9/16/2017	95.5 F	72 F	59.4 F	68.7 °F	64.1 °F	58.3 °F	99%	93%	59%	6 mph	0 mph	6 mph	28.85 in	28.82 in	28.79 in	0
9/17/2017	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9/18/2017	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9/19/2017	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9/20/2017	97.7 F	70 F	67.3 F	70.9 °F	68.2 °F	59.8 °F	99%	98%	94%	6 mph	0 mph	6 mph	28.72 in	28.68 in	28.65 in	0.12
9/21/2017	96.3 F	78.9 F	62.2 F	71.7 °F	66.6 °F	61.9 °F	99%	79%	39%	8 mph	1 mph	8 mph	28.78 in	28.74 in	28.69 in	0.01
9/22/2017	96.8 F	79.2 F	62.1 F	73.2 °F	66.7 °F	61.8 °F	99%	79%	40%	8 mph	1 mph	8 mph	28.8 in	28.75 in	28.7 in	0
9/23/2017	95.7 F	77.2 F	58.8 F	70.9 °F	62.3 °F	56.4 °F	99%	74%	30%	7 mph	1 mph	7 mph	29.05 in	28.89 in	28.73 in	0
9/24/2017	95.9 F	76.8 F	57.7 F	68.2 °F	61.6 °F	57.4 °F	99%	72%	32%	7 mph	2 mph	7 mph	28.82 in	28.76 in	28.71 in	0.18
9/25/2017	91.2 F	75.5 F	60.3 F	69.8 °F	65.3 °F	60 °F	99%	79%	48%	9 mph	2 mph	9 mph	28.76 in	28.7 in	28.65 in	0
9/26/2017	97.2 F	80.4 F	63.9 F	70.6 °F	66.1 °F	63.2 °F	99%	75%	40%	9 mph	2 mph	9 mph	28.7 in	28.65 in	28.59 in	0
9/27/2017	97.7 F	79.8 F	62.2 F	68.9 °F	63.7 °F	57.6 °F	99%	69%	31%	9 mph	2 mph	9 mph	28.64 in	28.58 in	28.52 in	0
9/28/2017	97.7 F	78.6 F	59.7 F	70.6 °F	62.8 °F	54.7 °F	97%	68%	36%	10 mph	2 mph	10 mph	28.71 in	28.63 in	28.55 in	0
9/29/2017	88.7 F	69.2 F	50.7 F	58.6 °F	54.9 °F	50.4 °F	99%	73%	36%	8 mph	1 mph	8 mph	28.82 in	28.76 in	28.7 in	0
9/30/2017	81.5 F	64.9 F	48.4 F	53.3 °F	45.8 °F	36.3 °F	99%	62%	24%	12 mph	3 mph	12 mph	29 in	28.9 in	28.8 in	0
10/1/2017	78.3 F	59.3 F	40.6 F	47.9 °F	44.1 °F	40.2 °F	99%	69%	32%	9 mph	2 mph	9 mph	29.08 in	29.01 in	28.95 in	0
10/2/2017	84 F	61.9 F	39.9 F	56.7 °F	48.5 °F	39.6 °F	99%	77%	37%	7 mph	1 mph	7 mph	29.12 in	29.06 in	29 in	0
10/3/2017	84 F	63.6 F	43.2 F	57.8 °F	50.4 °F	42.9 °F	99%	77%	38%	8 mph	1 mph	8 mph	29.25 in	29.19 in	29.12 in	0
10/4/2017	91.4 F	66.8 F	42.8 F	60.2 °F	51.8 °F	42.5 °F	99%	75%	31%	6 mph	1 mph	6 mph	29.19 in	29.08 in	28.98 in	0
10/5/2017	95 F	69.8 F	45.1 F	62.8 °F	53.8 °F	44.8 °F	99%	73%	30%	7 mph	1 mph	7 mph	29 in	28.91 in	28.82 in	0
10/6/2017	96.3 F	72.7 F	49.5 F	62.4 °F	56 °F	49.2 °F	99%	72%	31%	7 mph	1 mph	7 mph	28.85 in	28.79 in	28.73 in	0
10/7/2017	92.7 F	72.3 F	52 F	67.9 °F	61.7 °F	51.7 °F	99%	85%	40%	8 mph	1 mph	8 mph	28.81 in	28.75 in	28.69 in	0.17
10/8/2017	84.7 F	75.8 F	66.9 F	75.6 °F	71.1 °F	66.6 °F	99%	94%	71%	9 mph	1 mph	9 mph	28.72 in	28.65 in	28.58 in	0.36
10/9/2017	94.8 F	83.2 F	71.6 F	77.3 °F	73.1 °F	71.2 °F	99%	87%	50%	16 mph	3 mph	16 mph	28.73 in	28.62 in	28.51 in	0.55
10/10/2017	88.9 F	79.2 F	70 F	74.8 °F	72 °F	69.7 °F	99%	90%	62%	6 mph	0 mph	6 mph	28.79 in	28.76 in	28.72 in	0
10/11/2017	90.7 F	78.2 F	67.3 F	78.1 °F	72.4 °F	67 °F	99%	92%	65%	5 mph	0 mph	5 mph	28.74 in	28.7 in	28.66 in	0.16
10/12/2017	72.9 F	66.8 F	61 F	70.5 °F	64.8 °F	60.7 °F	99%	96%	83%	8 mph	0 mph	8 mph	28.93 in	28.81 in	28.68 in	0.12
10/13/2017	64.6 F	61.3 F	58.1 F	62.2 °F	59.7 °F	57.8 °F	99%	98%	89%	0 mph	0 mph	0 mph	29.01 in	28.97 in	28.93 in	0.15
10/14/2017	85.5 F	71.4 F	57.7 F	67.5 °F	61.9 °F	57.4 °F	99%	88%	53%	6 mph	0 mph	6 mph	28.96 in	28.89 in	28.82 in	0
10/15/2017	93.9 F	74.1 F	55.4 F	69.5 °F	63.7 °F	55.1 °F	99%	83%	45%	7 mph	1 mph	7 mph	28.85 in	28.74 in	28.64 in	0
10/16/2017	69.3 F	55.4 F	41.5 F	67.5 °F	50.1 °F	40.1 °F	99%	75%	44%	3 mph	0 mph	3 mph	28.95 in	28.78 in	28.62 in	0.17
10/17/2017	73.8 F	55.5 F	37.8 F	51.1 °F	41 °F	37.5 °F	99%	76%	32%	0 mph	0 mph	0 mph	29.06 in	28.99 in	28.93 in	0

10/18/2017	78.3 F	56.1 F	34.2 F	48.4 °F	41.7 °F	33.9 °F	99%	76%	31%	0 mph	0 mph	0 mph	29.08 in	29.02 in	28.97 in	0
10/19/2017	86.9 F	60.8 F	35.2 F	54.7 °F	45.2 °F	34.9 °F	99%	74%	28%	0 mph	0 mph	0 mph	28.99 in	28.92 in	28.85 in	0
10/20/2017	85.8 F	65 F	44.4 F	55.4 °F	50.5 °F	44.1 °F	99%	74%	33%	1 mph	0 mph	1 mph	28.98 in	28.92 in	28.86 in	0
10/21/2017	87.1 F	65.9 F	45.1 F	58.1 °F	52.4 °F	44.8 °F	99%	78%	36%	2 mph	0 mph	2 mph	29.03 in	28.98 in	28.93 in	0
10/22/2017	85.1 F	65.6 F	46.4 F	59.7 °F	53.2 °F	46.1 °F	99%	79%	40%	5 mph	0 mph	5 mph	29.05 in	28.99 in	28.93 in	0
10/23/2017	67.3 F	59.3 F	51.3 F	66.4 °F	59.8 °F	50.8 °F	99%	98%	91%	12 mph	0 mph	12 mph	28.93 in	28.68 in	28.43 in	1.25
10/24/2017	78.6 F	61.2 F	44.2 F	58.8 °F	48.3 °F	37.4 °F	99%	73%	38%	8 mph	1 mph	8 mph	28.53 in	28.49 in	28.44 in	0.01
10/25/2017	68.7 F	53.3 F	38.5 F	44.2 °F	38 °F	34.8 °F	94%	62%	35%	9 mph	0 mph	9 mph	28.54 in	28.5 in	28.45 in	0
10/26/2017	68.5 F	51.7 F	35.4 F	43.2 °F	36.1 °F	27.7 °F	99%	70%	23%	0 mph	0 mph	0 mph	28.7 in	28.6 in	28.5 in	0
10/27/2017	79.9 F	56.8 F	34.2 F	51.4 °F	43.4 °F	33.9 °F	99%	74%	36%	7 mph	0 mph	7 mph	28.92 in	28.79 in	28.66 in	0
10/28/2017	74.5 F	60.3 F	46.2 F	58.7 °F	52.1 °F	45.2 °F	99%	80%	52%	8 mph	1 mph	8 mph	28.68 in	28.54 in	28.4 in	0.08
10/29/2017	58.5 F	49.3 F	40.1 F	58.2 °F	45.4 °F	31.4 °F	99%	87%	70%	16 mph	2 mph	16 mph	28.4 in	28.26 in	28.13 in	0.35
10/30/2017	67.3 F	51.5 F	35.6 F	38.1 °F	32.7 °F	27.1 °F	94%	61%	26%	12 mph	1 mph	12 mph	28.66 in	28.44 in	28.22 in	0
10/31/2017	72.9 F	54.7 F	36.9 F	44.7 °F	39.6 °F	35.6 °F	99%	72%	31%	8 mph	1 mph	8 mph	28.88 in	28.77 in	28.66 in	0
11/1/2017	73.4 F	55.3 F	37.6 F	52.6 °F	45.5 °F	37.3 °F	99%	80%	44%	5 mph	0 mph	5 mph	28.91 in	28.86 in	28.82 in	0
11/2/2017	84.6 F	65.7 F	47.3 F	60.1 °F	53.5 °F	47 °F	99%	79%	42%	8 mph	1 mph	8 mph	28.93 in	28.88 in	28.82 in	0
11/3/2017	89.6 F	69.2 F	48.9 F	65.5 °F	57.9 °F	48.6 °F	99%	81%	40%	10 mph	1 mph	10 mph	28.86 in	28.8 in	28.73 in	0.01
* Data station of	fline. No d	ata was co	llected fro	m the weath	ner station.		•									