

Baseline Assessment – Stream Attributes

Revisit

**Additional field visits were attempted on 1/6/2022, however data could not be collected due to poorly defined stream channel. For those streams, professional judgment was used to assign proxy values based on comparable streams in proximity.*

Reach S-G17 (Pipeline ROW) * Ephemeral Spread I Franklin County, Virginia

Data	Included
Photos	✓*
USM Form (Virginia Only)	✓
RiverMorph Data Sheet	Proxy Stream Information Utilized; Refer to Master Stream Summary Table
FCI Calculator and HGM Form	
RBP Physical Characteristics Form	
Water Quality Data	
RBP Habitat Form	
RBP Benthic Form	
Benthic Identification Sheet	
Wolman Pebble Count	
Longitudinal Profile and Cross Sections	



Photo Type: DS COND

Location, Orientation, Photographer Initials: Downstream at ROW/LOD looking N downstream, BH



Photo Type: US VIEW

Location, Orientation, Photographer Initials: Downstream at ROW/LOD looking SE upstream, BH



Photo Type: DS VIEW

Location, Orientation, Photographer Initials: Upstream at ROW/LOD looking SW downstream, BH



Photo Type: US COND

Location, Orientation, Photographer Initials: Upstream at ROW/LOD looking NE upstream, BH

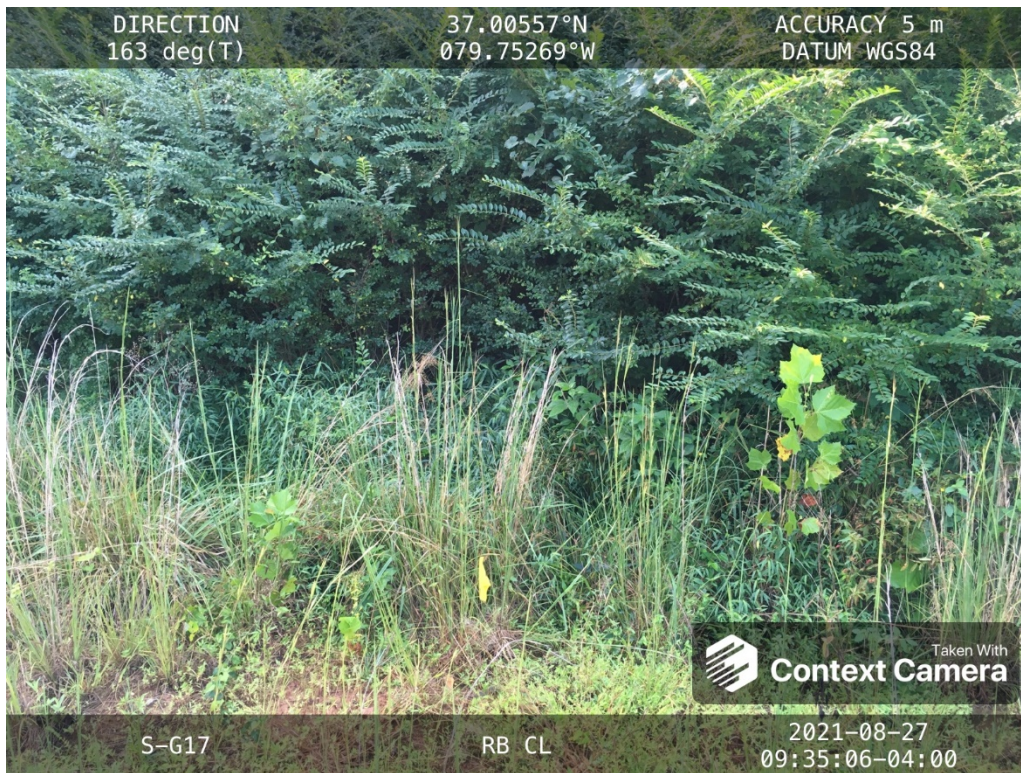


Photo Type: RB CL

Location, Orientation, Photographer Initials: On thalweg at pipe centerline looking SE at left streambank, BH



Photo Type: LB CL

Location, Orientation, Photographer Initials: On thalweg at pipe centerline looking NW at right streambank, BH



Photo Type: DS VIEW

Location, Orientation, Photographer Initials: Downstream view of ROW looking W/SW, KB



Photo Type: US VIEW

Location, Orientation, Photographer Initials: Upstream view of ROW looking E/SE, KB



Photo Type: LB CL

Location, Orientation, Photographer Initials: Standing on LB looking at RB along pipe centerline looking N, KB



Photo Type: RB CL

Location, Orientation, Photographer Initials: Standing on RB looking at LB along pipe centerline looking S, KB



Photo Type: DS COND

Location, Orientation, Photographer Initials: Downstream conditions outside of LOC looking NW, KB

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Ephemeral Stream Assessment Form (Form 1a)

Unified Stream Methodology for use in Virginia

For use in ephemeral streams

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	SAR #	Impact length	Impact Factor
22865.06	Mountain Valley Pipeline (Mountain Valley Pipeline, LLC)	Franklin County	R6	03010101	8/27/2021	S-G17	20	1
Name(s) of Evaluator(s)		Stream Name and Information					SAR Length	
CB, BH		S-G17; Spread I; Franklin County					0	

2. RIPARIAN BUFFERS: Assess both bank's 100 foot riparian areas along the entire SAR. (rough measurements of length & width may be acceptable)

Conditional Category								Stream was not found in the field; however, riparian buffer scores were assigned based on best professional judgement.			
Optimal	Suboptimal		Marginal		Poor						
Riparian Buffers	Tree stratum (dbh > 3 inches) present, with > 60% tree canopy cover and a non-maintained understory. Wetlands areas.	High Suboptimal: Riparian areas with tree stratum (dbh > 3 inches) present, with 30% to 60% tree canopy cover and containing both herbaceous and shrub layers or a non-maintained understory.	Low Suboptimal: Riparian areas with tree stratum (dbh > 3 inches) present, with >30% tree canopy cover and a maintained understory. Recent cutover (dense vegetation).	High Marginal: Non-maintained, dense herbaceous vegetation with either a shrub layer or a tree layer (dbh > 3 inches) present, with <30% tree canopy cover.	Low Marginal: Non-maintained, dense herbaceous vegetation, riparian areas lacking shrub and tree stratum, hay production, ponds, open water. If present, tree stratum (dbh > 3 inches) present, with <30% tree canopy cover with maintained understory.	High Poor: Lawns, mowed, and maintained areas, nurseries; no-till cropland; actively grazed pasture, sparsely vegetated non-maintained area, recently seeded and stabilized, or other comparable condition.	Low Poor: Impervious surfaces, mine spoil lands, denuded surfaces, row crops, active feed lots, trails, or other comparable conditions.				
		High	Low	High	Low	High	Low				
Condition Scores	1.5	1.2	1.1	0.85	0.75	0.6	0.5				
1. Delineate riparian areas along each stream bank into Condition Categories and Condition Scores using the descriptors. 2. Determine square footage for each by measuring or estimating length and width. Calculators are provided for you below. 3. Enter the % Riparian Area and Score for each riparian category in the blocks below.								Ensure the sums of % Riparian Blocks equal 100			
Right Bank	% Riparian Area >	40%	60%					100%			
	Score >	0.6	0.5								
Left Bank	% Riparian Area >	70%	30%					100%	Rt Bank CI >	0.54	CI
	Score >	0.85	0.5						Lt Bank CI >	0.75	0.65
REACH CONDITION INDEX and STREAM CONDITION UNITS FOR THIS REACH											
NOTE: The CIs and RCI should be rounded to 2 decimal places. The CR should be rounded to a whole number.											
THE REACH CONDITION INDEX (RCI) >>										0.33	
RCI = (Riparian CI)/2											
COMPENSATION REQUIREMENT (CR) >>										7	
CR = RCI X LF X IF											

INSERT PHOTOS:

