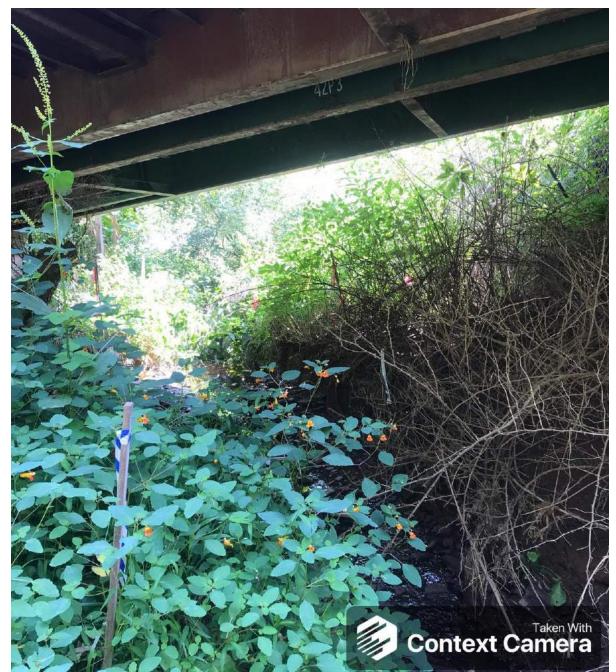
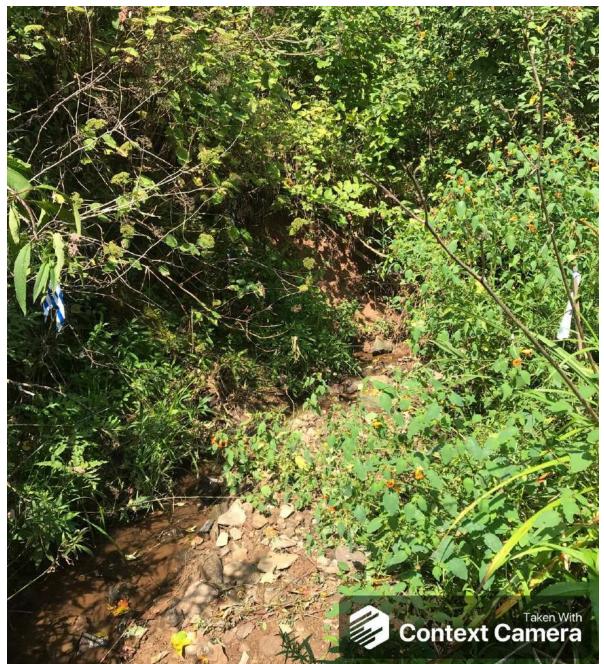
Reach S-K77 (1) (Pipeline ROW) Intermittent Spread A Doddridge County, West Virginia

Data	Included
Photos	\checkmark
SWVM Form	✓Water quality taken during benthic sample
FCI Calculator and HGM Form	NA – Slope <4%
RBP Physical Characteristics Form	\checkmark
Water Quality Data	\checkmark
RBP Habitat Form	\checkmark
RBP Benthic Form	✓Taken at a different date from stream
	assessment
Benthic Identification Sheet	\checkmark
Wolman Pebble Count	\checkmark
Reference Reach Software Pebble Count Data	\checkmark
Longitudinal Profile and Cross Sections	\checkmark



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: DS, US View Location, Orientation, Photographer Initials: Downstream Edge of ROW, Upstream View, CC Lat: 39.229029 Long: -80.552534



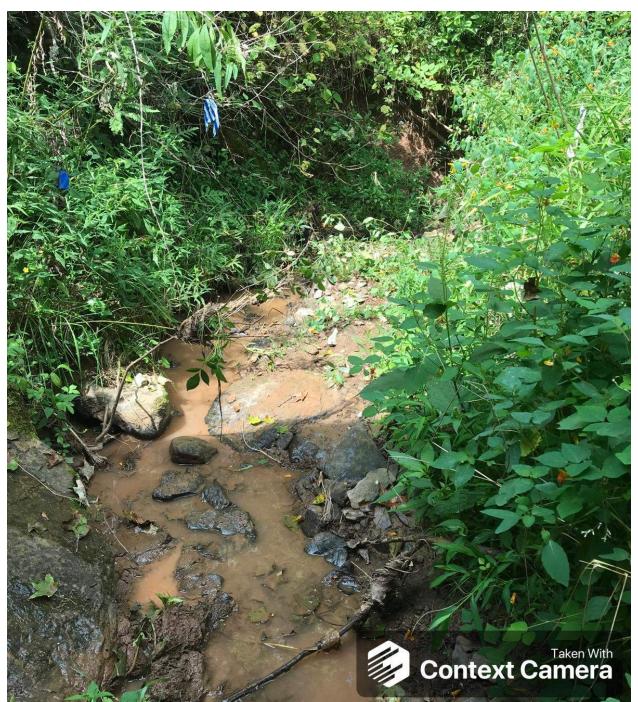
Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: DS, DS View Location, Orientation, Photographer Initials: Downstream Edge of ROW, Downstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: US View at Center Location, Orientation, Photographer Initials: Center ROW, Upstream View, CC Lat: 39.229029 Long: -80.552534



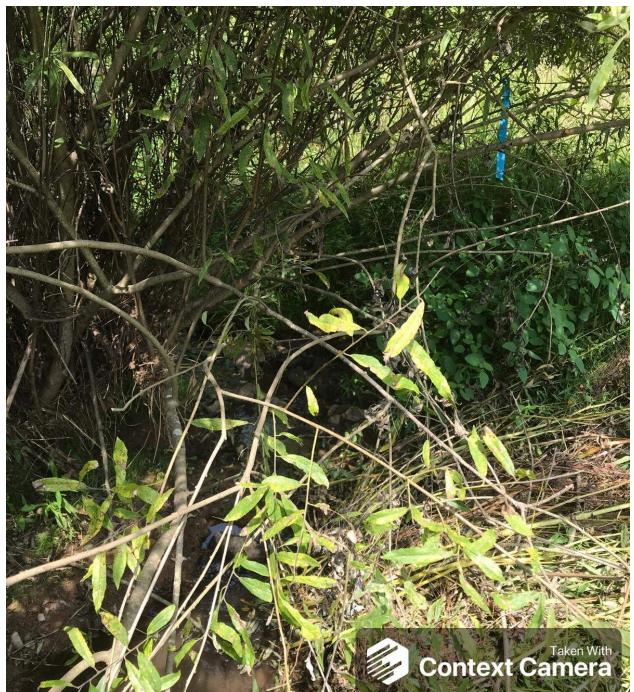
Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: DS View at Center Location, Orientation, Photographer Initials: ROW Center, Downstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: US, US View Location, Orientation, Photographer Initials: Upstream Edge of ROW, Upstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: US, DS View Location, Orientation, Photographer Initials: Upstream Edge of ROW, Downstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: Riffle, DS View Location, Orientation, Photographer Initials: Upstream of Riffle, Downstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: Riffle, US View Location, Orientation, Photographer Initials: Downstream of Riffle, Upstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

Photo Type: Pool, DS View Location, Orientation, Photographer Initials: Upstream of Pool, Downstream View, CC Lat: 39.229029 Long: -80.552534



Spread A Stream S-K77(1) (Pipeline ROW) Doddridge County

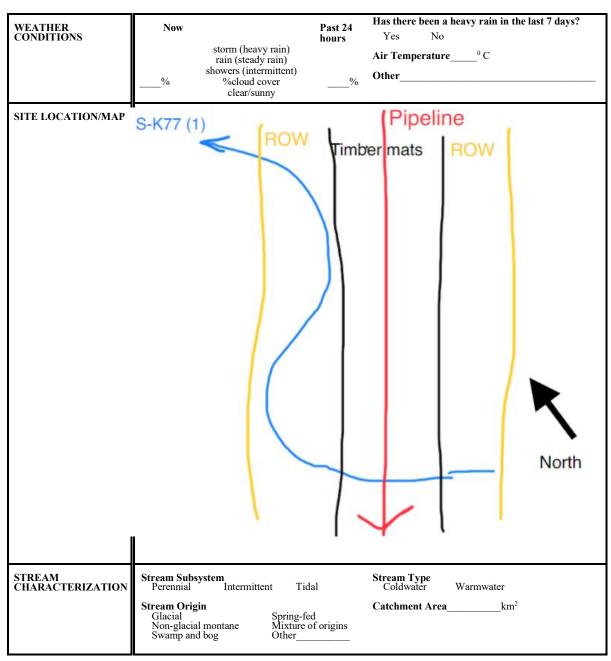
Photo Type: Pool, US View Location, Orientation, Photographer Initials: Downstream of Pool, Upstream View, CC Lat: 39.229029 Long: -80.552534

West Virginia Stream and Wetland Valuation Metric (SWVM) Version 2.1, September 2017

(v2.1, Sept 2015)		/alley Pipeline	IMPACT COORDINATES: (in Decimal Degrees)	Lat.	39.229029 Li	.on.	-80.552534	WEATHER:	Sunny	DATE:	09/14/	/21
IMPACT STREAM/SITE ID AND SI (watershed size (acreage), unaltered		S-K7	7 (1)		MITIGATION STREAM CLASS./SITE ID AND SITE DESCRIPTION: (watershed size (acreage), unaltered or impairments)				Comments:	Slope <4% - need		
STREAM IMPACT LENGTH: 3	FORM OF MITIGATION:	RESTORATION (Levels I-III)	MIT COORDINATES: (in Decimal Degrees)	Lat.	L	.on.		PRECIPITATION PAST 48 HRS:		Mitigation Length:		
Column No. 1- Impact Existing Conditi	tion (Debit)	Column No. 2- Mitigation Existing Co	ndition - Baseline (Credit)		Column No. 3- Mitigation Project Post Completion (C		ars	Column No. 4- Mitigation Proje Post Completion (C		Column No. 5- Mitigation Projec	ted at Maturity (Cr	redit)
Stream Classification:	Intermittent	Stream Classification:			Stream Classification:		0	Stream Classification:	0	Stream Classification:	0	
Percent Stream Channel Slope	2.5	Percent Stream Channel Slop	be and a second s		Percent Stream Channel Slope	e	0	Percent Stream Channel Slo	ope 0	Percent Stream Channel S	Slope	0
HGM Score (attach data form	ns):	HGM Score (attach d	ata forms):		HGM Score (attach dat	ta forms):		HGM Score (attach da	ita forms):	HGM Score (attach	data forms):	
	Average		Average				Average		Average			Average
Hydrology Biogeochemical Cycling	0	Hydrology Biogeochemical Cycling	0		Hydrology Biogeochemical Cycling		0	Hydrology Biogeochemical Cycling	0	Hydrology Biogeochemical Cycling		0
Habitat PART I - Physical, Chemical and Biologic	al Indicators	Habitat PART I - Physical, Chemical and			Habitat PART I - Physical, Chemical and B	Riological India		Habitat PART I - Physical, Chemical and E	Rielegical Indicators	Habitat PART I - Physical, Chemical and	d Riological Indian	torr
		PART I - Physical, Chemical and	-			-		PART I - Physical, Chemical and E		PART I - Physical, Chemical and	-	
Point Scale	e Range Site Score		Points Scale Range Site Score		Po	oints Scale Range	Site Score		Points Scale Range Site Score		Points Scale Range	Site Score
PHYSICAL INDICATOR (Applies to all streams classifical	ations)	PHYSICAL INDICATOR (Applies to all streams cl	assifications)		PHYSICAL INDICATOR (Applies to all streams class	ssifications)		PHYSICAL INDICATOR (Applies to all streams	classifications)	PHYSICAL INDICATOR (Applies to all stream	ns classifications)	
USEPA RBP (High Gradient Data Sheet)	13	USEPA RBP (Low Gradient Data Sheet) 1. Epifaunal Substrate/Available Cover	0.20 0		USEPA RBP (High Gradient Data Sheet)	0.20		USEPA RBP (High Gradient Data Sheet)	0.20	USEPA RBP (High Gradient Data Sheet) 1. Epifaunal Substrate/Available Cover	0.20	1
2. Embeddedness 0-20	2	2. Pool Substrate Characterization	0-20 0			0-20		2. Embeddedness	0-20	2. Embeddedness	0-20	
3. Velocity/ Depth Regime 0-20	11	3. Pool Variability	0-20 0			0-20		3. Velocity/ Depth Regime	0-20	3. Velocity/ Depth Regime	0-20	
4. Sediment Deposition 0-20		4. Sediment Deposition	0-20			0-20		4. Sediment Deposition	0-20	 Sediment Deposition 	0-20	
5. Channel Flow Status 0-20		5. Channel Flow Status	0-20 0-1 0			0-20 0-1		5. Channel Flow Status	0-20 0-1	5. Channel Flow Status	0-20 0-1	
6. Channel Alteration 0-20	18	6. Channel Alteration	0-20			0-20		6. Channel Alteration	0-20	Channel Alteration	0-20	
7. Frequency of Riffles (or bends) 0-20		7. Channel Sinuosity	0-20 0		(0-20		7. Frequency of Riffles (or bends)	0-20	Frequency of Riffles (or bends)	0-20	
8. Bank Stability (LB & RB) 0-20	14	8. Bank Stability (LB & RB)	0-20 0			0-20		8. Bank Stability (LB & RB)	0-20	8. Bank Stability (LB & RB)	0-20	
9. Vegetative Protection (LB & RB) 0-20 10. Rinarian Vegetative Zone Width (LB & RB) 0-20	16	9. Vegetative Protection (LB & RB)	0-20 0			0-20		9. Vegetative Protection (LB & RB)	0-20	9. Vegetative Protection (LB & RB)	0-20	
	rginal 112	10. Riparian Vegetative Zone Width (LB & RB) Total RBP Score	0-20 0 Poor 0		10. Riparian Vegetative Zone Width (LB & RB) Total RBP Score	0-20 Poor	0	10. Riparian Vegetative Zone Width (LB & RB) Total RBP Score	0-20 Poor 0	10. Riparian Vegetative Zone Width (LB & RB) Total RBP Score	0-20 Poor	0
Sub-Total	0.56	Sub-Total	0		Sub-Total	POOL	0	Sub-Total	0	Sub-Total	12001	0
CHEMICAL INDICATOR (Applies to Intermittent and Pere		CHEMICAL INDICATOR (Applies to Intermittent a	nd Perennial Streams)		CHEMICAL INDICATOR (Applies to Intermittent and	d Perennial Strea	ims)	CHEMICAL INDICATOR (Applies to Intermittent	t and Perennial Streams)	CHEMICAL INDICATOR (Applies to Intermitte	ent and Perennial Strea	ams)
WVDEP Water Quality Indicators (General)		WVDEP Water Quality Indicators (General)			WVDEP Water Quality Indicators (General)			WVDEP Water Quality Indicators (General)		WVDEP Water Quality Indicators (General	al)	
Specific Conductivity		Specific Conductivity			Specific Conductivity			Specific Conductivity		Specific Conductivity		
200-299 - 80 points 0-90	209		0-90			0-90			0-90		0-90	
pH		оH			рН			pH		nH	-	
0-80	0-1 7.53		5-90 0-1			5-90 0-1			5-90 0-1		5-90 0-1	
6.0-8.0 = 80 points												
DO		DO			DO			DO		BO		
>5.0 = 30 points	6.47		10-30		1 I	10-30			10-30		10-30	
Sub-Total	0.95	Sub-Total	0		Sub-Total		0	Sub-Total	0	Sub-Total		0
BIOLOGICAL INDICATOR (Applies to Intermittent and Pe	Perennial Streams)	BIOLOGICAL INDICATOR (Applies to Intermitten	t and Perennial Streams)		BIOLOGICAL INDICATOR (Applies to Intermitter	nt and Perennia	I Streams)	BIOLOGICAL INDICATOR (Applies to Intermi	ittent and Perennial Streams)	BIOLOGICAL INDICATOR (Applies to Inter	mittent and Perennia	al Streams)
WV Stream Condition Index (WVSCI)		WV Stream Condition Index (WVSCI)			WV Stream Condition Index (WVSCI)			WV Stream Condition Index (WVSCI)		WV Stream Condition Index (WVSCI)		
0-100	0-1 51.42		0-100 0-1			0-100 0-1			0-100 0-1		0-100 0-1	
Sub-Total	0.4142	Sub-Total	0		Sub-Total		0	Sub-Total	0	Sub-Total		0
PART II - Index and Unit Score	70	PART II - Index and U	nit Score		PART II - Index and Un	it Score	n	PART II - Index and Ur	nit Score	PART II - Index and	Unit Score	
PACE II - INVEX and UNIT SCON		PART II - Index and U						PART II - MORX and OF		PART II - Index and	0	
Index Linea	ar Feet Unit Score	Index	Linear Feet Unit Score		Index	Linear Feet	Unit Score	Index	Linear Feet Unit Score	Index	Linear Feet	Unit Score
0.641 3	37 23.7318	0	0 0		0	0	0	0	0 0	0	0	0

PHYSICAL CHARACTERIZATION/WATER QUALITY FIELD DATA SHEET (FRONT)

STREAM NAME	LOCATION					
STATION # RIVERMILE	STREAM CLASS					
LAT LONG	RIVER BASIN					
STORET #	AGENCY					
INVESTIGATORS						
FORM COMPLETED BY	DATE TIME	REASON FOR SURVEY				



PHYSICAL CHARACTERIZATION/WATER QUALITY FIELD DATA SHEET (BACK)

WATERSHED FEATURES RIPARIAN VEGETATION (18 meter buffer)	Predominant Surrounding Landuse Forest Commercial Field/Pasture Industrial Agricultural Other Residential	Local Watershed NPS Pollution No evidence Some potential sources Obvious sources Local Watershed Erosion None Moderate Heavy ant species present Grasses Herbaceous
INSTREAM FEATURES	Dominant species present	Canopy Cover Partly open Partly shaded Shaded High Water Mark m Proportion of Reach Represented by Stream Morphology Types Riffle % Riffle % Pool % Channelized Yes No No
LARGE WOODY DEBRIS	LWDm ² Density of LWDm ² /km ² (LWD/ reac	h area)
AQUATIC VEGETATION	Indicate the dominant type and record the dominant record the dominant type and record the domin Rooted submergent Rooted submergent Attached Algae Dominant species present Portion of the reach with aquatic vegetation	Rooted floating Free floating
WATER QUALITY (DS, US)	Temperature0 C Specific Conductance Dissolved Oxygen pH Turbidity WQ Instrument Used	Water Odors Normal/None Sewage Petroleum Chemical Fishy Other Water Surface Oils Slick Slick Sheen Globs Flecks None Other Turbidity (if not measured) Clear Slightly turbid Clear Slightly turbid Turbid Opaque Stained Other
SEDIMENT/ SUBSTRATE	Odors Petroleum Normal Sewage Petroleum Chemical Anaerobic None Other	Deposits Paper fiber Sand Sludge Sawdust Paper fiber Sand Relict shells Other

INC	DRGANIC SUBSTRATE (should add up to		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)							
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type							
Bedrock			Detritus	sticks, wood, coarse plant						
Boulder	> 256 mm (10")			materials (CPOM)						
Cobble	64-256 mm (2.5"-10")		Muck-Mud	black, very fine organic						
Gravel	2-64 mm (0.1"-2.5")			(FPOM)						
Sand	0.06-2mm (gritty)		Marl	grey, shell fragments						
Silt	0.004-0.06 mm									
Clay	< 0.004 mm (slick)									

HABITAT ASSESSMENT FIELD DATA SHEET - HG - USE ON ALL STREAMS (FRONT)

STREAM NAME	LOCATION					
STATION # RIVERMILE	STREAM CLASS					
LAT LONG	RIVER BASIN	RIVER BASIN				
STORET #	AGENCY					
INVESTIGATORS						
FORM COMPLETED BY	DATE TIME AM PM	REASON FOR SURVEY				

	Habitat		Condition	ı Category				
	Parameter	Optimal	Suboptimal	Marginal	Poor			
	1. Epifaunal Substrate/ Available Cover	Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient).	40-70% mix of stable habitat; well-suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale).	20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking.			
	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
n sampling reach	2. Embeddedness	Gravel, cobble, and boulder particles are 0- 25% surrounded by fine sediment. Layering of cobble provides diversity of niche space.	Gravel, cobble, and boulder particles are 25- 50% surrounded by fine sediment.	Gravel, cobble, and boulder particles are 50- 75% surrounded by fine sediment.	Gravel, cobble, and boulder particles are more than 75% surrounded by fine sediment.			
ted iı	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
Parameters to be evaluated in sampling reach	3. Velocity/Depth Regime	All four velocity/depth regimes present (slow- deep, slow-shallow, fast- deep, fast-shallow). (Slow is < 0.3 m/s, deep is > 0.5 m.)	Only 3 of the 4 regimes present (if fast-shallow is missing, score lower than if missing other regimes).	Only 2 of the 4 habitat regimes present (if fast- shallow or slow-shallow are missing, score low).	Dominated by 1 velocity/ depth regime (usually slow-deep).			
Iram	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
P	4. Sediment Deposition	Little or no enlargement of islands or point bars and less than 5% of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment; 5-30% of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 30-50% of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; more than 50% of the bottom changing frequently; pools almost absent due to substantial sediment deposition.			
	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
	5. Channel Flow Status	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.	Water fills >75% of the available channel; or <25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.			
	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			

Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers: Periphyton, Benthic Macroinvertebrates, and Fish, Second Edition - Form 2

HABITAT ASSESSMENT FIELD DATA SHEET—HIGH GRADIENT STREAMS (BACK)

Habitat		Condition	ı Category				
Parameter	Optimal	Suboptimal	Marginal	Poor			
6. Channel Alteration	Channelization or dredging absent or minimal; stream with normal pattern.	Some channelization present, usually in areas of bridge abutments; evidence of past channelization, i.e., dredging, (greater than past 20 yr) may be present, but recent channelization is not present.	Channelization may be extensive; embankments or shoring structures present on both banks; and 40 to 80% of stream reach channelized and disrupted.	Banks shored with gabion or cement; over 80% of the stream reach channelized and disrupted. Instream habitat greatly altered or removed entirely.			
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
7. Frequency of Riffles (or bends)	Occurrence of riffles relatively frequent; ratio of distance between riffles divided by width of the stream <7:1 (generally 5 to 7); variety of habitat is key. In streams where riffles are continuous, placement of boulders or other large, natural obstruction is important.	Occurrence of riffles infrequent; distance between riffles divided by the width of the stream is between 7 to 15.	Occasional riffle or bend; bottom contours provide some habitat; distance between riffles divided by the width of the stream is between 15 to 25.	Generally all flat water or shallow riffles; poor habitat; distance between riffles divided by the width of the stream is a ratio of >25.			
SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0			
 SCORE 8. Bank Stability (score each bank) Note: determine left or right side by facing downstream. SCORE (LB) SCORE (RB) 9. Vegetative Protection (score each bank) 	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30- 60% of bank in reach has areas of erosion; high erosion potential during floods.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious bank sloughing; 60-100% of bank has erosional scars.			
SCORE (LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0			
SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0			
9. Vegetative Protection (score each bank)	More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally.	70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well- represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining.	50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one- half of the potential plant stubble height remaining.	Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height.			
SCORE (LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0			
SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0			
10. Riparian Vegetative Zone Width (score each bank riparian zone)	Width of riparian zone >18 meters; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, or crops) have not impacted zone.	Width of riparian zone 12-18 meters; human activities have impacted zone only minimally.	Width of riparian zone 6- 12 meters; human activities have impacted zone a great deal.	Width of riparian zone <6 meters: little or no riparian vegetation due to human activities.			
SCORE (LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0			
SCORE(RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0			

Total Score _____

BENTHIC MACROINVERTEBRATE FIELD DATA SHEET

STREAM NAME S-K	77 (1)	LOCATION Doddridge							
STATION #	RIVERMILE	STREAM CLASS Intermitten	t						
LAT <u>39.229029</u>	LONG80.552534	RIVER BASIN	RIVER BASIN						
STORET #		AGENCY WVDEP							
INVESTIGATORS H	C MB		LOT NUMBER						
FORM COMPLETED	^{BY} HC	DATE 09-14-21 TIME 0930	REASON FOR SURVEY Baseline assessment						
		-							
HABITAT TYPES	I I Cobble 10 [°] % □Sn	licate the percentage of each habitat type present Cobble <u>10 %</u> Snags% Uvegetated Banks% Sand% Submerged Macrophytes% Other ()%							
SAMPLE COLLECTION	Gear used □D-frame [How were the samples col Indicate the number of jal ☑Cobble 4 □Sn □Submerged Macrophytes	lected? ☑ wading ☐ f ps/kicks taken in each habitat ty bags ☐ Vegetated B	anksSand						
GENERAL COMMENTS		, SPC: 197 us/cm,	DO: 6.47mg/L, pH:7.53 DO: 6.89mg/L, pH: 7.34						

QUALITATIVE LISTING OF AQUATIC BIOTA

Indicate estimated abundance: 0 = Absent/Not Observed, 1 = Rare, 2 = Common, 3= Abundant, 4 = Dominant

Periphyton	0	1	2	3	4	Slimes	0	1	2	3	4
Filamentous Algae	0	1	2	3	4	Macroinvertebrates	0	1	2	3	4
Macrophytes	0	1	2	3	4	Fish	0	1	2	3	4

FIELD OBSERVATIONS OF MACROBENTHOS

Indicate estimated abundance: 0 = Absent/Not Observed, 1 = Rare (1-3 organisms), 2 = Common (3-9 organisms), 3= Abundant (>10 organisms), 4 = Dominant (>50 organisms)

Porifera	0	1	2	3	4	Anisoptera	0	1	2	3	4	Chironomidae	0	1	2	3	4
Hydrozoa	0	1	2	3	4	Zygoptera	0	1	2	3	4	Ephemeroptera	0	1	2	3	4
Platyhelminthes	0	1	2	3	4	Hemiptera	0	1	2	3	4	Trichoptera	0	1	2	3	4
Turbellaria	0	1	2	3	4	Coleoptera	0	1	2	3	4	Other	0	1	2	3	4
Hirudinea	0	1	2	3	4	Lepidoptera	0	1	2	3	4						
Oligochaeta	0	1	2	3	4	Sialidae	0	1	2	3	4						
Isopoda	0	1	2	3	4	Corydalidae	0	1	2	3	4						
Amphipoda	0	1	2	3	4	Tipulidae	0	1	2	3	4						
Decapoda	0	1	2	3	4	Empididae	0	1	2	3	4						
Gastropoda	0	1	2	3	4	Simuliidae	0	1	2	3	4						
Bivalvia	0	1	2	3	4	Tabinidae	0	1	2	3	4						
						Culcidae	0	1	2	3	4					-	

WOLMAN PEBBLE COUNT FORM

County: Doddridge

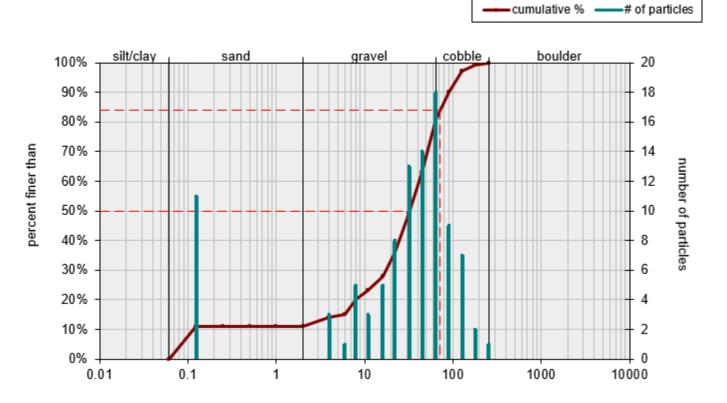
Stream ID: S-K77 (1)

Stream Name: Traugh Fork (1)

Basin:

HUC Code: Survey Date: 8/26/2021 Surveyors: SM JM CC Type: Bankfull Channel

PEBBLE COUNT Inches PARTICLE Millimeters Particle Total # Item % % Cum Count Silt/Clay < .062 S/C ٠ 0 0.00 0.00 -Very Fine .062-.125 ٠ 11.00 1111.00 • .125-.25 Fine 0 0.00 11.00 -Medium .25-.5 ٠ SAND 0 0.00 11.00 -.50-1.0 Coarse 0 0.00 11.00 -.04-.08 1.0-2 Very Coarse ٠ 0 0.00 11.00 -2 - 4 .08 -.16 Very Fine 3 3.00 14.00 -.16 - .22 Fine 4 - 5.7 ٠ 1.00 1 15.00 • .22 - .31 Fine 5.7 - 8 ٠ 5.00 20.00 5 -.31 - .44 Medium 8 -11.3 3 3.00 23.00 • .44 - .63 Medium 11.3 - 16 GRAVEL 5 5.00 28.00 -.63 - .89 Coarse 16-22.6 ٠ 8 8.00 36.00 -.89 - 1.26 22.6 - 32 Coarse ٠ 13 13.00 49.00 -1.26 - 1.77 32 - 45 Vry Coarse 14 14.00 63.00 -1.77 -2.5 Vry Coarse 45 - 64 ٠ 18 18.00 81.00 -2.5 - 3.5 Small 64 - 90 ٠ 9 9.00 90.00 -3.5 - 5.0 Small 90 - 128 7 7.00 97.00 • COBBLE 5.0 - 7.1 Large 128 - 180 ٠ 2 2.00 99.00 -Large 7.1 - 10.1 180 - 256 ٠ 1.00100.001 • 10.1 - 14.3 Small 256 - 362 ٠ 0.00 100.00 0 -14.3 - 20 362 - 512 Small ٠ 0 0.00 100.00 -20 - 40 Medium 512 - 1024 \$ BOULDER 0 0.00 100.00 40 - 80 1024 - 2048 Large 0 0.00 100.00 -2048 - 4096 80 - 160 Vry Large ٠ 100.00 0 0.00 -Bedrock BDRK \$ 0.00 100.00 0 Totals 100 Total Tally:



particle size (mm)

Size (mm)	Size Distr	ribution	т	уре
D16 6.4	mean	21.5	silt/clay	0%
D35 21	dispersion	3.7	sand	11%
D50 33	skewness	-0.18	gravel	70%
D65 47			cobble	19%
D84 72			boulder	0%
D95 120				

