Baseline Assessment – Stream Attributes

Reach S-K77 (2) (Pipeline ROW) Intermittent Spread A Doddridge County, West Virginia

Data	Included
Photos	✓
SWVM Form	✓
FCI Calculator and HGM Form	N/A – not shadeable, slope <4%
RBP Physical Characteristics Form	✓
Water Quality Data	✓
RBP Habitat Form	✓
RBP Benthic Form	✓
Benthic Identification Sheet	N/A – Low flow
Wolman Pebble Count	✓
Reference Reach Software Pebble Count Data	✓
Longitudinal Profile and Cross Sections	✓



Photo Type: DS, US View Location, Orientation, Photographer Initials: Downstream Edge of ROW, Upstream View, JM/CC Lat: 39.228942 Long: -80.552437

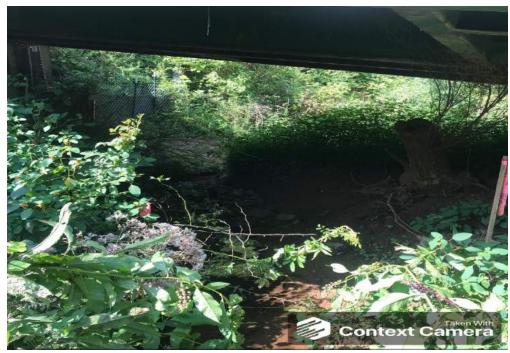


Photo Type: DS, DS View Location, Orientation, Photographer Initials: Downstream Edge of ROW, Downstream View, JM/CC Lat: 39.228942 Long: -80.552437



Photo Type: US View at Center Location, Orientation, Photographer Initials: Center ROW, Upstream View, JM/CC Lat: 39.228942 Long: -80.552437



Photo Type: DS View at Center Location, Orientation, Photographer Initials: ROW Center, Downstream View, JM/CC Lat: 39.228942 Long: -80.552437



Photo Type: US, US View Location, Orientation, Photographer Initials: Upstream Edge of ROW, Upstream View, JM/CC Lat: 39.228942 Long: -80.552437



Photo Type: US, DS View Location, Orientation, Photographer Initials: Upstream Edge of ROW, Downstream View, JM/CC Lat: 39.228942 Long: -80.552437



Photo Type: Riffle, DS View Location, Orientation, Photographer Initials: Upstream of Riffle, Downstream View, JM/CC Lat: 39.228942 Long: -80.552437



Location, Orientation, Photographer Initials: Downstream of Riffle, Upstream View, JM/CC Lat: 39.228942 Long: -80.552437



Photo Type: Pool, US View Location, Orientation, Photographer Initials: Downstream of Pool, Upstream View, JM/CC Lat: 39.228942 Long: -80.552437

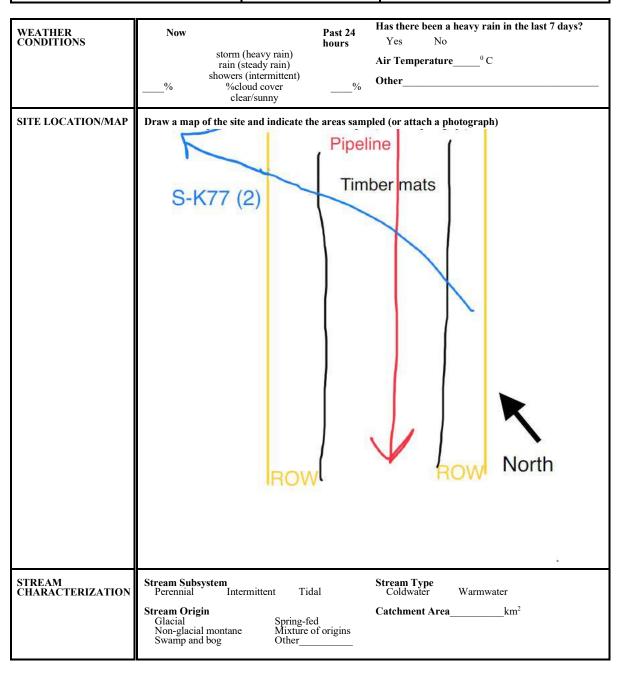


Photo Type: Pool, DS View Location, Orientation, Photographer Initials: Upstream of Pool, Downstream View, JM/CC Lat: 39.228942 Long: -80.552437

Percent Stream Channel Slope	DATE:				
STREAM MPACT LENGTH: 93		8/27/2	8/	/27/2021	
File Add WINGT LINGTH:	Comments:	Comments:			
Column No. 1. Prepart Denting Condition Death Column No. 2. Minguish Desting Condition Death Column No. 2. Minguish Desting Condition Death Column No. 2. Minguish Desting Condition Column No. 2. Minguish Desting Column No. 2. Minguish Desting Condition Column No. 2. Minguish Desting Column No. 2. Minguish Destination No. 2. Minguish Destinati					
Column No.3. Hispace backing Constraint (Dabb) Column No.2. Hispace Constraint (Dabb) Column No.3. Hispace	Mitigation Length:	Mitigation Length:			
Common No. Proceed District Control Proced District Control Proceed District Control Proced					
Parcent first fram Channel Stope	Column No. 5- Mitigation Projected at I	lumn No. 5- Mitigation Projected at Maturity (Co	ed at Maturit	y (Credit)	
HOM Score (statch data forms): HOM Score (statch data forms):	ream Classification:	ssification: 0		0	
Average Hydrology PART I - Physical, Chemical and Biological Indicators PART I - Physical, Chemical an	Percent Stream Channel Slope	Percent Stream Channel Slope	оре	0	
Symbology Symb	HGM Score (attach data for	HGM Score (attach data forms):	ata forms):		
Page-clay-in				Avera	
Biographenical Cycling Separate Separa	drology				
PART - Physical, Chemical and Biological Indicators PART - Physical, Chemical and Biological Indicators	ogeochemical Cycling	nical Cycling		0	
Physical Nicotator (Applies to all atternes deselfactions)		ART I - Physical, Chemical and Biological Indica	Biological In	dicators	
	Paint	Points Scale Range	Points Scale 8	Range Site Sc	
	HYSICAL INDICATOR (Applies to all streams classif	NDICATOR (Applies to all streams classifications)	classifications)	,	
2 Embeddedness	SEPA RBP (High Gradient Data Sheet)				
3 Notocity Depth Regime					
4. Sediment Deposition					
5. Channel Flow Status	Sediment Deposition 0-	Depth Regime 0-20 Deposition 0-20	0-20		
6. Channel Alteration					
T. Frequency of Riffles (or bends)				0-1	
S. Bank Sability (L. B. A. B)					
10. Repartmet Veceptation Zone Width (LB & RB) 0.20 3 10. Repartmet Veceptation Zone Width (LB & RB) 0.20 10. Repartmet Zone Width (LB & RB) 0.20 10. Repartmet Zone Width (LB & RB) 0.20 10. Repartmet Zone Width (LB & RB) 0.20 10. Repartment Zone Width (LB & RB) 0.20 10					
Total REP Score					
Sub-Total				0	
WODE Water Quality Indicators (General) Specific Conductivity Spec	ib-Total	·		0	
Specific Conductivity		INDICATOR (Applies to Intermittent and Perennial Stres		Streams)	
300-390 - 70 points	VDEP Water Quality Indicators (General))		
## 300-369-70 points					
6.0-8.0 = 80 points DO DO DO DO DO DO DO DO DO D	04	0-90	0-90	1	
6.0-8.0 = 80 points DO DO DO DO DO DO DO DO DO D					
6.0-8.0 = 80 points DO DO DO DO DO DO DO DO DO D	5	5-90 0-1	5-90	0-1	
5.0 = 30 points 10-30					
Sub-Total Sub-To			_		
Sub-Total	10	10-30	10-30	1	
BIOLOGICAL INDICATOR (Applies to Intermittent and Percensial Streams) BIOLOGICAL INDICATOR (Applies to Intermittent and Percensial Streams) WY Stream Condition Index (WYSCI) O 0.100 0-1 0.100 0	ib-Total			0	
WV Stream Condition Index (WVSCI) 0		L INDICATOR (Applies to Intermittent and Perennia	ittent and Per	ennial Stream	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Stream Condition Index (WVSCI)	Condition Index (WVSCI)			
0 Sub-Total		0-100 0-1	0-100	0-1	
		1			
PART II - Index and Unit Score PART II - Index and Unit Score PART II - Index and Unit Score	ıb-Total			0	
	PART II - Index and Unit Sc	PART II - Index and Unit Score	Init Score		
Index Linear Feet Unit Score	Index Lis	Index Linear Feet	Linear Fe	eet Unit S	
0.730 93 67.89 0 0 0 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	REASON FOR SURVEY				



PHYSICAL CHARACTERIZATION/WATER QUALITY FIELD DATA SHEET (BACK)

WATERS FEATURI		Fores Field Agric	Pasture Industria	rcial	No evidence Sor Obvious sources Local Watershed Erosi None Moderate	ne potential sources	
RIPARIA VEGETA (18 meter	ΓION	Trees	e the dominant type and Sl ant species present	hrubs	Grasses He	brbaceous	
INSTREA FEATURI		Estimat Samplin Area in Estimat	red Stream Depthm	m m² km² m	Canopy Cover Partly open Part High Water Mark Proportion of Reach R Morphology Types Riffle Pool 9 Channelized Yes Dam Present Yes	epresented by Stream Run% No	
LARGE V DEBRIS	VOODY		m² of LWDm	1 ² /km ² (LWD / 1	reach area)		
AQUATIO VEGETA		Domina	ant species present		minant species present nt Rooted floating	Ü	
WATER ((DS, US)	QUALITY	Portion of the reach with aqua TY Temperature0 C Specific Conductance Dissolved Oxygen pH Turbidity WQ Instrument Used			Water Odors Normal/None Sewage Petroleum Fishy Water Surface Oils Slick Sheen None Other Turbidity (if not measu Clear ☐ Slightly tu Opaque Stained	Chemical Other Globs Flecks	
SEDIMENT/ SUBSTRATE Odors Normal Sewa Chemical Anaer Other Oils Absent Slight					are the undersides blac	th are not deeply embedded,	
INC	ORGANIC SUBS (should a		COMPONENTS 00%)		ORGANIC SUBSTRATE C (does not necessarily add		
Substrate Type	Diamet	er % Composition in Sampling Reach		Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse plant materials (CPOM)		
Boulder Cobble	> 256 mm (10") 64-256 mm (2.5			Muck-Mud	black your fire encessio		
Gravel	2-64 mm (0.1"-2			IVIUCK-IVIUU	black, very fine organic (FPOM)		

Sand

Silt

Clay

0.06-2mm (gritty)

< 0.004 mm (slick)

0.004-0.06 mm

grey, shell fragments

Marl

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

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

	Habitat	Condition 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 not new fall and not 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 in	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).									
ıram	SCORE	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1 0									
Pa	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									

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

	Habitat							
	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			
oling reach	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.			
samp	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 broader than sampling reach	8. Bank Stability (score each bank) Note: determine left or right side by facing downstream.	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.			
e eva	SCORE (LB)	Left Bank 10 9	8 7 6	5 4 3	2 1 0			
to be	SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0			
Parameters	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			
ĺ	SCORE (RB)	Right Bank 10 9	8 7 6	5 4 3	2 1 0			

Total	Caama	
i otai	Score	

BENTHIC MACROINVERTEBRATE FIELD DATA SHEET

STREAM NAME		LOCATION								
STATION #	_ RIVERMILE	STREAM CLASS								
LAT	LONG	RIVER BASIN								
STORET#		AGENCY	AGENCY							
INVESTIGATORS			LOT NUMBER							
FORM COMPLETED	ВҮ	DATE TIME	REASON FOR SURVEY							
HABITAT TYPES Indicate the percentage of each habitat type present Cobble % Snags % Vegetated Books % Sand %										

HABITAT TYPES	Indicate the percentage of each habitat type present Cobble% Snags% Vegetated Banks% Sand% Submerged Macrophytes% Other ()%
SAMPLE COLLECTION	Gear used D-frame kick-net Other
	How were the samples collected? wading from bank from boat
	Indicate the number of jabs/kicks taken in each habitat type. Cobble Snags Vegetated Banks Sand Submerged Macrophytes Other ()
GENERAL COMMENTS	

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

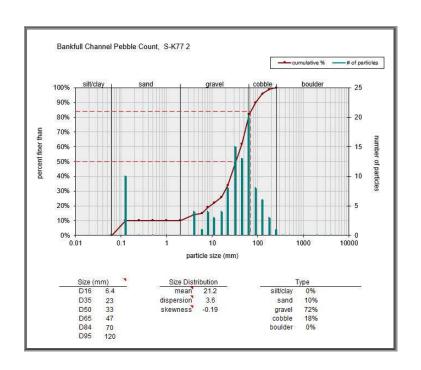
County: Doddridge Stream ID: S-K77 (2)

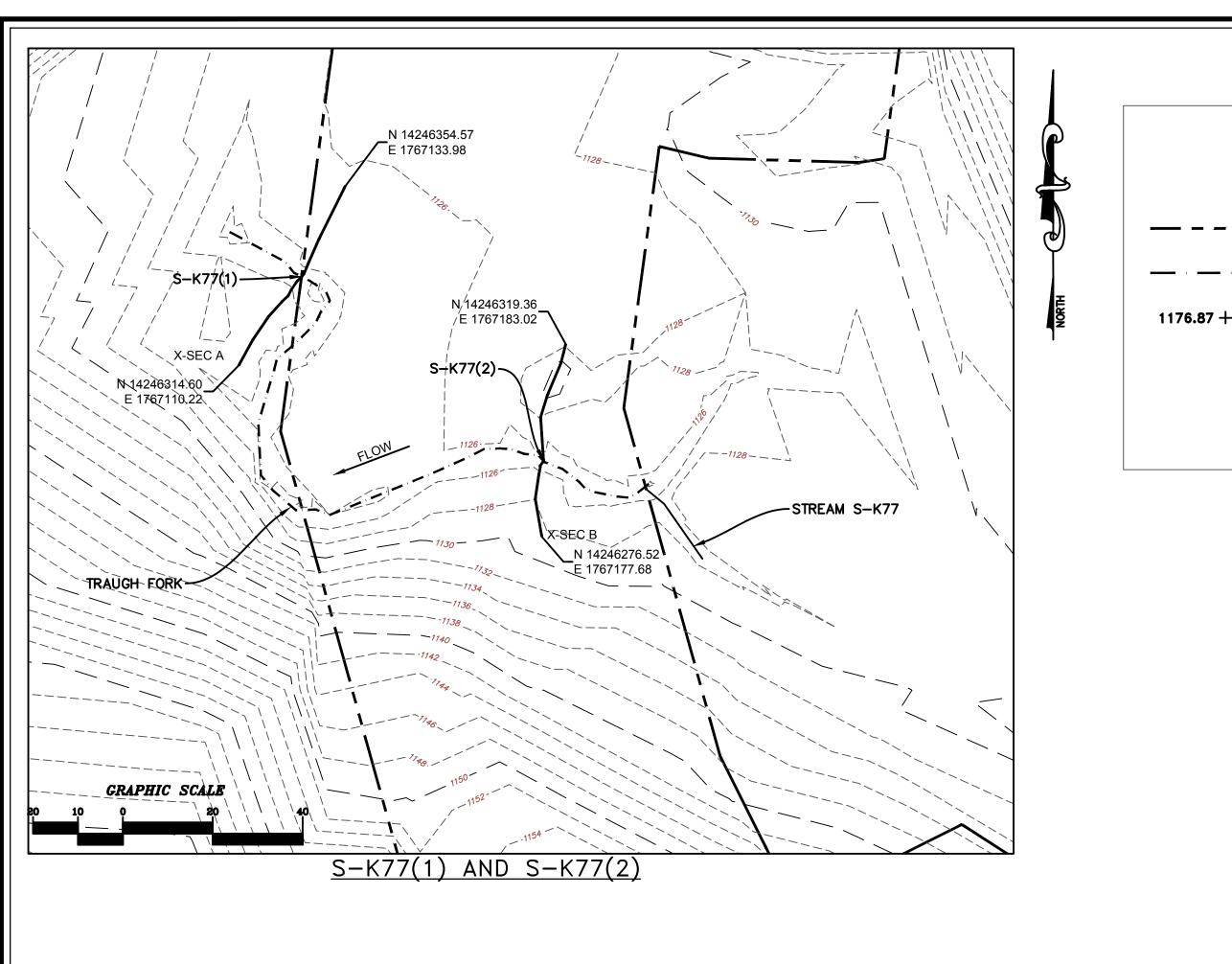
Stream Name: Traugh Fork (2)

HUC Code: Basin:

Survey Date: 8/27/2021 Surveyors: CC, JM, SM Type: Bankfull Channel

			LE COUNT			T	
Inches	PARTICLE	Millimeters		Particle Count	Total #	Item %	% Cun
	Silt/Clay	< .062	S/C	A	0	0.00	0.00
	Very Fine	.062125		*	10	10.00	10.00
	Fine	.12525	1	•	0	0.00	10.00
	Medium	.255	SAND	*	0	0.00	10.00
	Coarse	.50-1.0		*	0	0.00	10.00
.0408	Very Coarse	1.0-2		*	0	0.00	10.00
.0816	Very Fine	2 -4	GRAVEL	*	4	4.00	14.00
.1622	Fine	4 -5.7		^	1	1.00	15.00
.2231	Fine	5.7 - 8		A	4	4.00	19.00
.3144	Medium	8 -11.3		A	3	3.00	22.00
.4463	Medium	11.3 - 16		A	4	4.00	26.00
.6389	Coarse	16 -22.6		^	8	8.00	34.00
.89 - 1.26	Coarse	22.6 - 32		A	15	15.00	49.00
.26 - 1.77	Vry Coarse	32 - 45		A	13	13.00	62.00
1.77 -2.5	Vry Coarse	45 - 64		A	20	20.00	82.00
2.5 - 3.5	Small	64 - 90	- COBBLE	A	8	8.00	90.00
3.5 - 5.0	Small	90 - 128		^	6	6.00	96.00
5.0 - 7.1	Large	128 - 180		A	3	3.00	99.00
7.1 - 10.1	Large	180 - 256		A	1	1.00	100.0
0.1 - 14.3	Small	256 - 362	BOULDER	A	0	0.00	100.0
14.3 - 20	Small	362 - 512		<u> </u>	0	0.00	100.0
20 - 40	Medium	512 - 1024		<u> </u>	0	0.00	100.0
40 - 80	Large	1024 -2048		<u> </u>	0	0.00	100.0
80 - 160	Vry Large	2048 -4096	1	•	0	0.00	100.0
	Bedrock		BDRK	<u> </u>	0	0.00	100.0
				Totals:	100		





AS-BUILT TABLE: S-K77(2) CROSS SECTION B

ELEV

AS-BUILT

VERT. HORZ.

DIFF. DIFF.

PRE-CROSSING

14246289.68 1767176.93 1126.13

 14246291.12
 1767177.15
 1124.49

 14246293.35
 1767178.06
 1125.04

BS-R 14246293.92 1767178.005 1124.491 TS-R 14246295.83 1767177.899 1126.483

PT. LOC. | NORTHING | EASTING

BS-L

SURVEY NOTES:

LEGEND

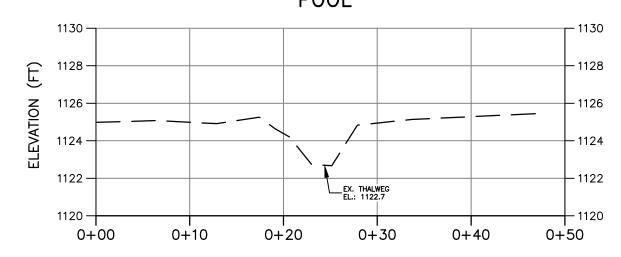
STUDY AREA (EASEMENT)

EXISTING SURVEY-LOCATED THALWEG

EXISTING SURVEYED GROUND SHOT ELEVATION

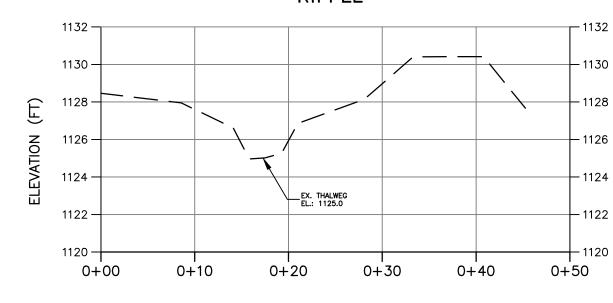
- THIS MAP HAS BEEN ORIENTED TO NAD 1983 UTM ZONE 17N, AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), USING REAL TIME DGPS. FIELD LOCATIONS WERE COMPLETED ON AUGUST 27, 2021.
- 2. EASEMENT LINES SHOWN ON PLAN VIEW WERE PROVIDED BY MOUNTAIN VALLEY PIPELINE.
- 3. SURVEY POINTS FOR CROSS SECTIONS AND THALWEG PROFILES COLLECTED IN 2021 HAVE BEEN USED IN COMBINATION WITH SURVEY POINTS COLLECTED PREVIOUSLY IN 2020 IN ORDER TO GENERATE THE PRE-CROSSING SURFACE SHOWN IN PLAN. DUE TO NATURAL EROSIONAL STREAM PROCESSES THAT CAN OCCUR OVER TIME, MINOR ADJUSTMENTS TO THE PROFILE ALIGNMENTS MAY HAVE BEEN REQUIRED IN ORDER TO GENERATE A CLEAN PRE-CROSSING SURFACE.
- 4. ALL SECTION VIEWS SHOWN LEFT TO RIGHT FACING DOWNSTREAM.
- 5. POST-CROSSING SURVEY INFORMATION SHOWN IN RED. DATA PENDING.
- 6. POST-CROSSING SURVEY POINTS FOR CROSS SECTIONS AND THALWEG ARE PROJECTED ONTO PRE-CROSSING SECTION AND PROFILE VIEWS FOR COMPARISON.

S-K77(1) BASELINE CROSS-SECTION A

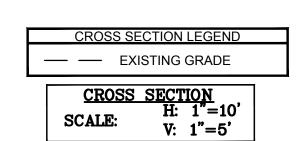


DISTANCE ALONG CROSS-SECTION (FT)

S-K77(2) BASELINE CROSS-SECTION B RIFFLE



DISTANCE ALONG CROSS-SECTION (FT)



NOTE: ALL SECTIONS VIEWS SHOWN LEFT TO RIGHT FACING DOWNSTREAM.

PRE-CROSSING PHOTOS



PHOTO TAKEN LOOKING DOWNSTREAM FROM UPSTREAM IMPACT LIMITS



PHOTO TAKEN LOOKING UPSTREAM FROM DOWNSTREAM IMPACT LIMITS

POST-CROSSING PHOTOS

PENDING CROSSING

PHOTO TAKEN LOOKING DOWNSTREAM FROM UPSTREAM IMPACT LIMITS

PENDING CROSSING

PHOTO TAKEN LOOKING UPSTREAM FROM DOWNSTREAM IMPACT LIMITS

PRE-CROSSING

PRELIMINARY

AOUNTAIN VALLEY F

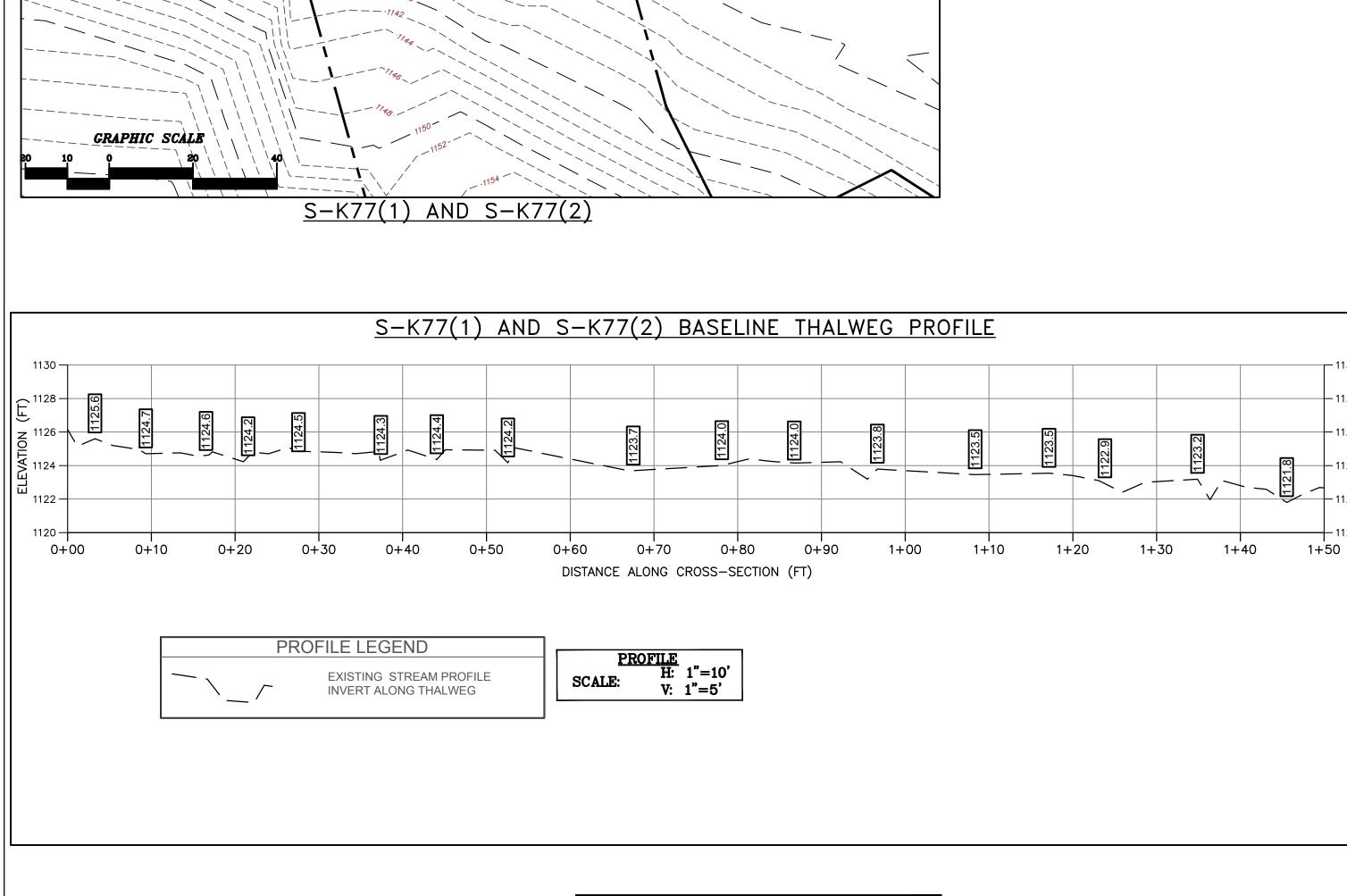
CAD File No

112IC07157 Project No.

DFILE AND CROSS—SECTIONS
BASELINE SURVEY
SING S—K77(1) AND S—K77(2)
TRAUGH FORK (MP 32.41)

1

Drawing No.



TYPICAL 5-POINT CROSS-SECTION

(FACING DOWNSTREAM)

THW

TS: TOP OF SLOPE

BS: BOTTOM OF SLOPE

THW: THALWEG (INVERT)