STREAM ID S-H24	STREAM NAME UNT to Little Jacks Creek
LAT 36.978041 LONG -79.681803	DATE 04/03/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A.Stott, A.Grech, H.Heist	
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

_						
				Stream Erosion		
		Top of Bank Width: 6 ft		None Moderate	неаvy	
		Top of Ban	· ·	_	Artificial, Modified or Char	nelized
		LB <u>3.0</u>		<u>ft</u>	<u>✓</u> Yes No	
CHANNEL FE	ATURES	Water Dept	th: 3.00 in		Dam PresentYes _	∠ No
		Water Widt	h: <u>4.0 ft</u>		_ _	_
		High Water	Mark: <u>2.0 ft</u>		Sinuosity Low	Medium High
		Flow Direct	tion: Northwest		Gradient	
					Flat Moderate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry oed moist		Morphology Types Riffle 50 % Run 10	%
		Standing			Pool 40 %	
FLOW CHARACTER	ISTICS	<u>✓</u> Flowing	water		T	
		Volocity			Turbidity Clear ✓ Slightly	turbidTurbid
			VelocityFast _✓ Moderate		OpaqueStained	
		Slow			Other	
			RGANIC SUBSTRATE CON			
	(should	add up to 10		,	(does not necessarily add up to 100%)	
Substrate Type	Diame	eter % Composition in Sampling Reach		Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	10	200.100	plant materials (CPOM)	40
Cobble		m (2.5"-10")	5	Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")	5		(FPOM)	
Sand		nm (gritty)	70	NAI	and the Hotel for the same and	
Silt		0.06 mm mm (slick)	10	Marl	grey, shell fragments	
Clay	< 0.004	, ,	ent Surrounding Lan	duco	Indicate the dominant type	(Cheek ene)
Predominant Surrounding Landuse Indicate the dominant type (Check one Forest Commercial Trees Shrubs						
WATERSHED FEATURES		Field/Pa			✓ Grasses ✓ Herba	ceous
		Agricult	ural Residen	tial	Floodplain Width	
		<u>✓</u> Other:			Wide > 30ft Mode	rate 15-30ft
		Canopy CoverPartly openPartly shaded			✓ Narrow <16ft	
				aded	Wetland PresentYes	∠ No
		Shaded			Wetland ID	
40114710375	OFTATIO::		e dominant type and	d record the d	dominant species present	ing Free fleating
AQUATIC VEGETATION Rooted emergent Floating algae			Rooted subme Attached alga	ergentRooted float	ingrree floating	

	Perennial
	Other: power line corridor
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction East

Date: 04/03/2015

Comments: 2015 stream identification.



Photograph Direction West

Date: 11/13/2019

STREAM ID S-H23	STREAM NAME UNT to Little Jacks Creek
LAT 36.976388 LONG -79.677544	DATE 04/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A.Stott, A.Grech, H.Heist	
FLOW REGIME Perennial — Intermittent— Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

•						
Estimate Measureme Top of Bank Width: 5				Stream ErosionNoneModerate	<u>✓</u> Heavy	
		Top of Bank Height: LB <u>3.0 in</u> RB <u>3.0 ft</u>			Artificial, Modified or Char	nelized
CHANNEL FE	ATURES	-	Water Depth: 0.00 in Water Width: 0.0 ft		Dam PresentYes	_No
		High Water Mark: 3.0 in			Sinuosity 🔽 Low	Medium High
		Flow Direct	ion: Southwest		Gradient	
					Flat	Severe (10 ft/100 ft)
Water Present ✓ No water, stream bed dry Stream bed moist Standing water — Standing water			Proportion of Reach Representations of Reach R	sented by Stream		
CHARACTERI	ISTICS	Flowing water Velocity Fast Moderate Slow			Turbidity ClearSlightly turbidTurbid OpaqueStainedOther	
INOR	INORGANIC SUBSTRATE COMPONENTS (should add up to 100%) ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)					
Substrate Type	Diame	% Composition i		Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		20111100	plant materials (CPOM)	20
Cobble Gravel		m (2.5"-10")		Muck-Mud	black, very fine organic (FPOM)	
Sand		n (0.1"-2.5") nm (gritty)	45		(11 OW)	
Silt		0.06 mm	10	Marl	grey, shell fragments	
Clay		mm (slick)	45		3 1,7,1 1 13 1 1	
WATERSHED FEATURES		Predominant Surrounding Landuse _ Forest			s ceous rate 15-30ft	
AQUATIC VEC	GETATION	Indicate the dominant type and record the dominant species present Rooted emergentRooted submergentRooted floatingFree floating algae Attached algae			ingFree floating	
In power line corridor						

	In power line corridor
MACROINVERTEBRATES OR OTHER	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed
WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	



Photograph Direction NE

Date: 04/02/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/14/2019

STREAM ID S-HH1	STREAM NAME UNT to Turkey Creek			
LAT 36.973967 LONG -79.674604	DATE 08/06/2015			
CLIENT MVP	PROJECT NAME MVP			
INVESTIGATORS S Ryan, D McCullough, S Therkildson				
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW NRPW			

Estimate Measurements Top of Bank Width: 5 ft Top of Bank Height:		k Width: 5 ft		Stream ErosionNone ✓ Moderate Artificial, Modified or Char	·	
		LB 4.0	ft RB 3.0	<u>'t</u>	Yes ✓ No	
CHANNEL FEATURES		Water Depth: 0.00 ft Water Width: 0.0 ft		Dam Present Yes	<u>~</u> No	
		High Water	Mark: 0.0 ft		Sinuosity Low	Medium High
		-	ion: Southwest		Cradiant	
		1 1011 1011			Gradient Flat _✓ Moderate	Severe
						(10 ft/100 ft)
FLOW CHARACTER	ISTICS	Water Present ✓ No water, stream bed dry Stream bed moist Standing water Flowing water Velocity Fast Slow Moderate			Proportion of Reach Representations of Reach R	% turbidTurbid
INORGANIC SUBSTRATE COMPONENTS ORGANIC SUBSTRATE COMPONENTS						
		add up to 100			does not necessarily add u	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detilitus	plant materials (CPOM)	
Cobble	64-256 m	m (2.5"-10")		- Muck-Mud	black, very fine organic	
Gravel	2-64 mm	า (0.1"-2.5")		WIGGK-WIGG	(FPOM)	
Sand	0.06-2r	nm (gritty)	30			
Silt	0.004-	0.06 mm	30	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40			
WATERSHED FEATURES		Predominant Surrounding Landuse ✓ Forest Commercial Field/Pasture Industrial Agricultural Residential Other: Canopy Cover ✓ Partly open Partly shaded Indicate the dominant type (Check one) ✓ Trees Shrubs Grasses Herbaceous Floodplain Width Wide > 30ft Narrow <16ft			ceous	
<u>✓</u> Partly openShaded		Open		Wetland PresentYes Wetland ID	<u>✓</u> No	
AQUATIC VE	GETATION	Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Free fl			ingFree floating	
		T				
		Shifted con	torling			

MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVATIONS AND NOTES

Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed.

V5 2015

Stream ID S-HH1



Photograph Direction SW

Date: <u>08/06/2015</u>

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/14/2019

STREAM ID S-A13	STREAM NAME Turkey Creek
LAT 36.9735 LONG -79.672933	DATE 04/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A.Stott, A.Grech, H.Heist	
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

Estimate Measurements Top of Bank Width: 8 ft Top of Bank Height: LB 1.0 ft RB 1.5 ft Water Depth: 4.00 in Water Width: 6.0 ft Estimate Measurements Stream Erosion ✓ NoneModerateHeave Artificial, Modified or Channelized Yes ✓ No Dam PresentYes ✓ No	у			
Top of Bank Height: LB 1.0 ft RB 1.5 ft Yes No Water Depth: 4.00 in Water Width: 6.0 ft Water Width: 6.0 ft	у			
CHANNEL FEATURES LB 1.0 ft RB 1.5 ft Yes No Water Depth: 4.00 in Water Width: 6.0 ft Water Width: 6.0 ft				
CHANNEL FEATURES Water Depth: 4.00 in Water Width: 6.0 ft Dam Present Yes V No				
Water Width: 6.0 ft				
water width: 6.0 tt				
. 0. 4 1 1 14 1				
High Water Mark: 1.0 ft Sinuosity Low Medium	<u></u> High			
Flow Direction: Southwest Gradient				
FlatModerateSevel				
Water Present (0.5/100 ft (2 ft/100 ft) (10 ft/100 ft) Water Present Proportion of Reach Represented	,			
Water Present Proportion of Reach Represented No water, stream bed dry Morphology Types	by Stream			
Stream bed moist Riffle 30 % Run 40 %				
FLOW Standing water Pool 30 %				
CHARACTERISTICS Flowing water Turbidity				
Velocity <u>✓</u> ClearSlightly turbid	Turbid			
Fast <u>✓</u> Moderate OpaqueStained				
Slow Other				
INORGANIC SUBSTRATE COMPONENTS ORGANIC SUBSTRATE COMPONENTS				
	(does not necessarily add up to 100%)			
	mposition in pling Area			
Bedrock Detritus sticks, wood, coarse				
Boulder > 256 mm (10") 5 plant materials (CPOM) 35				
Cobble 64-256 mm (2.5"-10") 40 Muck-Mud black, very fine organic				
Gravel 2-64 mm (0.1"-2.5") 30 (FPOM)				
Sand 0.06-2mm (gritty)				
Silt 0.004-0.06 mm 20 Marl grey, shell fragments				
Clay < 0.004 mm (slick) 5				
Predominant Surrounding Landuse Indicate the dominant type (Check one) ✓ Forest Commercial ✓ Trees Shrubs				
Field/Pasture Industrial Grasses Herbaceous				
Agricultural Residential				
WATERSHED Floodplain Width FEATURES Wide > 30ft Moderate 15-3	Oft			
Canony Cover Varrow <16ft				
✓ Partly open Partly shaded				
Canopy Cover —				
Partly open Partly shaded Wetland Present Yes No Wetland ID Indicate the dominant type and record the dominant species present				
Partly open Partly shaded Wetland Present Yes ✓ No Wetland ID	-ree floating			

	Perennial
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction SW

Comments: 2015 stream identification.



Photograph Direction NE

Date: 11/14/2019

STREAM ID S-A11	STREAM NAME UNT to Turkey Creek
LAT 36.973541 LONG -79.670164	DATE 04/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A.Stott, A.Grech, H.Heist	
FLOW REGIME Perennial Intermittent Ephemeral <u>~</u>	WATER TYPE TNW — RPW — NRPW ✓

		Estimate Measurements			Stream Erosion	
		Top of Bank Width: 3 ft			NoneModerate .	Heavy
		Top of Ban	J		Artificial, Modified or Chan	nelized
		LB <u>18.0</u>	in RB <u>18.0</u>	<u>in</u>	<u>✓</u> YesNo	
CHANNEL FE	ATURES	Water Dept	h: 0.00 in		Dam PresentYes	∠ No
		Water Widt	h: <u>0.0 ft</u>		Dani Flesent les	_110
		High Water	Mark: <u>6.0 in</u>		Sinuosity Low	Medium High
		Flow Direct	ion: North		Gradient	
						✓ Severe (10 ft/100 ft)
		Water Pres	ant .		(0.5/100 ft (2 ft/100 ft) Proportion of Reach Repre	•
			r, stream bed dry		Morphology Types	sented by Stream
			oed moist		Riffle % Run	%
FLOW		Standing	•		Pool %	
CHARACTER	ISTICS	Flowing	water		Turbidity	
		Velocity			Clear Slightly	turbidTurbid
		Fast Moderate			OpaqueStained	
		Slow		Other		
				DRGANIC SUBSTRATE COMPONENTS does not necessarily add up to 100%)		
Substrate Type	Diame	-	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			F 3		sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	10
Cobble	64-256 m	m (2.5"-10")	5	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	n (0.1"-2.5")	10	WIUCK-WIUU	(FPOM)	
Sand	0.06-2r	nm (gritty)	25			
Silt	0.004-0	0.06 mm	20	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40			
WATERSHED FEATURES		Predomina Forest	nnt Surrounding Lan Commer		Indicate the dominant type ✓ Trees Shrub	
		✓ Field/Pa			✓ Grasses — Gridb	
		Agricult		tial	<u> </u>	
		Other:	_		Floodplain Width Wide > 30ft Moder	rate 15-30ft
		Canony Co	over		<u>✓</u> Narrow <16ft	
		Canopy Cover ✓ Partly open Partly shaded		aded	Wattand Document - Van	4 No
		Shaded	Open		Wetland PresentYes Wetland ID	<u>v</u> NO
		Indicate th	e dominant type and	d record the o	dominant species present	
AQUATIC VEGETATION			emergent			ingFree floating
		Floating	g algae	Attached alga	e 	

	None
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction NW

Date: 04/02/2015

Comments: 2015 stream identification.



Photograph Direction NW

Date: 11/14/2019

STREAM ID S-H17	STREAM NAME Dinner Creek
LAT 36.971983 LONG -79.662988	DATE 04/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A.Stott, A.Grech, H.Heist	
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

CHANNEL FEATURES							
Top of Bank Height: LB 6.0 in RB 6.0 in Bank Gradient Water Depth: 3.00 in Water Depth: 3.00 in Water Width: 1.5 ft High Water Mark: ft Flow Direction: South Flow Direction: South Water Present No water, Stream bed dry Stream bed moist Flowing water Flowing water Velocity Flowing water Velocity Fast Substrate Type Diametr Sampling Reach Substrate Type Diametr Sampling Reach Flow Direction: South Flowing water Velocity Flowing water Velocity Flowing water Velocity Fast Substrate Type Diametr Sampling Reach Flow Direction: South Flowing water Velocity Clear Slightly turbid Flowing Flowing water Velocity Flowing water Velocity Flowing water Velocity Flowing water Velocity Clear Slightly turbid Flowing water Velocity Flowing water Velocity Clear Slightly turbid Flowing water Velocity Clear Slightly turbid Flowing water Velocity Clear Slightly turbid Flowing water Velocity							
CHANNEL FEATURES LB 6.0 in RB 6.0 in RB 6.0 in Water Depth: 3.00 in Water Width: 1.5 ft			Top of Ban	k Width: 8 ft		None Moderate	Heavy
Water Depth: 3.00 in Water Width: 1.5 ft High Water Mark:ft Sinuosity _v _ LowMediumHigh			Top of Ban	k Height:		Artificial, Modified or Char	nelized
Water Width: 1.5 th High Water Mark:ft			LB <u>6.0</u>	<u>in</u> RB <u>6.0</u>	<u>n</u>	<u>✓</u> YesNo	
High Water Mark:ft	CHANNEL FE	ATURES	Water Dept	h: 3.00 in		Dam Procent Vos	. No
FLOW CHARACTERISTICS Water Present			Water Widt	h: <u>1.5 ft</u>		Dalli Fleselli 165 _	NO
Water Present			High Water	Mark:ft		Sinuosity <u>v</u> Low	Medium High
Water Present			Flow Direct	ion: South		Gradient	
FLOW CHARACTERISTICS							
FLOW CHARACTERISTICS			Water Pres	sent		Proportion of Reach Repre	sented by Stream
FLOW CHARACTERISTICS				•		Morphology Types	•
FLOW CHARACTERISTICS Velocity							%
Velocity						7001 70	
Fast Moderate Opaque Stained Other	CHARACTER	ISTICS	<u>v</u> riowing	water		Turbidity	,
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%) Substrate Type Diameter Sampling Reach Type Characteristic Sampling Reach Sampling Reach Type Detritus Sticks, wood, coarse plant materials (CPOM) 5 Cobble 64-256 mm (10") 10 Detritus Sticks, word, coarse plant materials (CPOM) 5 Cobble 64-256 mm (2.5"-10") 5 Muck-Mud (FPOM) 5 Gravel 2-64 mm (0.1"-2.5") Muck-Mud (FPOM) Said 0.06-2mm (gritty) 40 Silt 0.004-0.06 mm 45 Marl grey, shell fragments Clay < 0.004 mm (slick) Industrial Agricultural Residential Agricultural Residential Other:						OpaqueStained	
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%) Substrate Type Diameter Diameter Diameter Substrate Type Diameter Substrate Type Diameter Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Characteristic Substrate Type Substrate Type Characteristic Substrate Type Characteristic Substrate Type Substrate Type Characteristic Substrate S			<u> </u>				
Substrate Type			<u> — </u>				
Substrate Type Bedrock Boulder > 256 mm (10") 10 Detritus Cobble 64-256 mm (2.5"-10") 5 Muck-Mud Silt 0.004-0.06 mm 45 Clay < 0.004 mm (slick) WATERSHED FEATURES WATERSHED FEATURES Plant materials W Composition in Sampling Reach Substrate Type Characteristic % Composition in Sampling Area W Composition in Sampling Reach Type Characteristic % Composition in Sampling Area Watick, wood, coarse plant materials (CPOM) 5 Muck-Mud Detritus Sticks, wood, coarse plant materials (CPOM) 5 Muck-Mud Slack, very fine organic (FPOM) Marl Gravel 2-64 mm (0.1"-2.5") Sand 0.06-2mm (gritty) 40 Marl Gravel 3-64 mm (0.1"-2.5") Silt 0.004-0.06 mm 45 Clay < 0.004 mm (slick) Predominant Surrounding Landuse Forest Commercial Forest Shrubs Grasses Herbaceous Floodplain Width Wide > 30ft Moderate 15-30ft Watiand Present Yes No Wetland Present Yes No Wetland ID Indicate the dominant species present Rooted floating Free floating Free floating							
Bedrock Boulder > 256 mm (10") 10 Detritus sticks, wood, coarse plant materials (CPOM) 5 Cobble 64-256 mm (2.5"-10") 5 Muck-Mud black, very fine organic (FPOM) Sand 0.06-2mm (gritty) 40 Silt 0.004-0.06 mm 45 Marl grey, shell fragments Clay < 0.004 mm (slick) Predominant Surrounding Landuse Forest Commercial Trees Shrubs Field/Pasture Industrial Residential Agricultural Residential Other: Partly open Partly shaded Open		`	<u> </u>	% Composition in	Substrate	1	% Composition in
Boulder > 256 mm (10") 10 Detritus plant materials (CPOM) 5	Bedrock					sticks wood coarse	
Gravel 2-64 mm (0.1"-2.5")	Boulder	> 256	mm (10")	10	Detritus		5
Sand 0.06-2mm (gritty) 40	Cobble	64-256 m	m (2.5"-10")	5	Muck-Mud	black, very fine organic	
Silt 0.004-0.06 mm 45 Marl grey, shell fragments Clay < 0.004 mm (slick) Predominant Surrounding Landuse	Gravel	2-64 mm	า (0.1"-2.5")		WIGGK-WIGG	(FPOM)	
Clay < 0.004 mm (slick) Predominant Surrounding Landuse	Sand	0.06-2r	nm (gritty)	40			
Predominant Surrounding Landuse	Silt			45	Marl	grey, shell fragments	
WATERSHED FEATURES ForestCommercialTreesShrubsHerbaceous AgriculturalResidential Residential Wide > 30ft Moderate 15-30ft Narrow <16ft Partly openPartly shaded Open	Clay	< 0.004	. ,				
WATERSHED FEATURES WATERSHED FEATURES WATERSHED PREATURES Pother: Canopy Cover Partly open Shaded Open Partly shaded Open Wetland Present Wetland ID Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Free floating			Predominant Surrounding Landuse			Indicate the dominant type	
WATERSHED FEATURES Agricultural Residential Other:							
WATERSHED FEATURES Other:							
Canopy Cover Partly open Partly shaded Shaded Open Wetland ID Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Free floating				_		Floodplain Width Wide > 30ft Moderate 15-30ft	
AQUATIC VEGETATION Partly openPartly shadedOpen			Canony Co	war			
AQUATIC VEGETATION					aded		
AQUATIC VEGETATIONRooted emergentRooted submergentRooted floatingFree floating			-			Wetland PresentYes Wetland ID	<u>✓</u> No
Attached algae	AQUATIC VE	GETATION		· —		_	ingFree floating
	•		Floating algaeAttached alg			e	

	In cow pasture
	Seep starts in pasture
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction North

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/13/2019

STREAM ID S-A7	STREAM NAME UNT to Dinner Creek			
LAT 36.97205 LONG -79.66246	DATE 04/02/2015			
CLIENT MVP	PROJECT NAME MVP			
INVESTIGATORS S.Yarbrough, J. Heule, C.St	oliker			
FLOW REGIME Perennial — Intermittent Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —			

		Estimate Measurements			Stream Erosion	
		Top of Bank Width: 6 ft			None Moderate	Heavy
		Top of Ban			Artificial, Modified or Char	nnelized
		LB <u>18.0</u>		<u>in</u>	<u>✓</u> YesNo	
CHANNEL FE	ATURES	Water Dept	h: 3.00 in		Dam PresentYes _	∠ No
		Water Widt	h: 3.0 ft			
		High Water	Mark: <u>6.0 ft</u>		Sinuosity Low	Medium High
		Flow Direct	ion: Northwest		Gradient	
					—	Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	esented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 60 % Run 30	%
		Standing			Pool 10 %	,,
FLOW CHARACTER	ISTICS	Flowing	water			
					Turbidity Clear _✓ Slightly	turbidTurbid
		VelocityFast Moderate			OpaqueStained Other	
		<u>✓</u> Slow				
INOR	GANIC SUB	SSTRATE COMPONENTS		0	ORGANIC SUBSTRATE COMPONENTS	
	(should	add up to 100	· ·		(does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	5	Detrituo	plant materials (CPOM)	25
Cobble		ım (2.5"-10")	40	Muck-Mud	black, very fine organic	
Gravel		า (0.1"-2.5")	10		(FPOM)	
Sand		nm (gritty)	20			
Silt		0.06 mm	25	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	ant Currounding Lan	duco	Indicate the dominant type	(Charles and)
WATERSHED FEATURES		Predominant Surrounding Landuse Forest Commercial			Indicate the dominant type ✓ Trees Shrub	
		Field/Pasture Industrial				ceous
		— Agricult	ural Resident	tial	Floodplain Width	
		Other:			Wide > 30ft Mode	rate 15-30ft
		Canopy Co			✓ Narrow <16ft	
		Partly open Partly shaded		aded	Wetland Present Yes ✔ No	
_		Shaded			Wetland ID	_ _
4 OU 4 TIO VEGET 1 TO 1					dominant species present	ting Eros floation
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating algae Attached algae				yFree iloating

	None Observed.
MACROINVERTEBRATES OR OTHER	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed
WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	



Photograph Direction SSW_

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/13/2019

STREAM ID S-SS8	STREAM NAME Polecat Creek
LAT 36.970842 LONG -79.657364	DATE 09/16/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS L. Canty, E. Foster, A. Carra	ano
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

		Estimate Measurements			Stream Erosion	
		Top of Bank Width: 8 ft			None Moderate	neavy
		Top of Bank		,.	Artificial, Modified or Char	nelized
		LB <u>2.0</u>	 	<u>ft</u>	Yes No	
CHANNEL FE	ATURES		h: <u>3.00 in</u>		Dam PresentYes	<u>∕</u> No
		Water Widt	Mark: 1.0 ft		Sinuosity Low	Medium ✓ High
		Flow Direct				<u> </u>
		Flow Direct	IOII		Gradient ✓ Flat Moderate _	Severe
						(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 10 % Run 25	%
		Standing			Pool 65 %	70
FLOW CHARACTER	ISTICS	Flowing				
OHARAGIER	01100				Turbidity	turbid Turbid
		Velocity			Clear Slightly turbid Turbid Opaque Stained Other	
		Fast Moderate Slow				
INORGANIC SUE		SSTRATE COMPONENTS O		PRGANIC SUBSTRATE COMPONENTS		
		add up to 100%)		_	(does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Detritus	plant materials (CPOM)	10
Cobble	64-256 m	m (2.5"-10")	50	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	n (0.1"-2.5")	25	Widok Widd	(FPOM)	
Sand	0.06-2r	nm (gritty)	10			
Silt		0.06 mm	10	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	5			
WATERSHED FEATURES		Predomina Forest	int Surrounding Lan Commer		Indicate the dominant type Trees Shrub	
		Field/Pa	astureIndustrial		Grasses Herba	
		— Agricult			_	00000
			Powerline easement		Floodplain Width Wide > 30ft Moder	rate 15-30ft
		Canopy Co			Narrow <16ft	ate to con
		Partly o		aded	_	
		Shaded Open			Wetland PresentYes Wetland ID	<u>✓</u> No
		Indicate th	e dominant type and	d record the d	dominant species present	
AQUATIC VEGETATION				Rooted submo	_	ingFree floating
		Floating	g algae	Attached alga	e	

	Herbs and sedges in stream, weedy and disturbed. Scirpus a, cattail
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed

Stream ID S-SS8



Photograph Direction _____

Date: 09/16/2015

Comments: 2015 stream identification.



Photograph Direction South

Date: 11/13/2019

STREAM ID S-CD8		STREAM NA	STREAM NAME UNT to Owens Creek				
	CLIENT MVP			PROJECT NAME MVP			
	LAT 36.970473 LONG -79.653714			DATE 04/08/2016 COUNTY Franklin			
INVESTIGATO			•				
WATER TYPE		NRPW [FLOW REG Perennial		ttent 🗾 Ephemeral 🔲		
CHANNEL FE	ATURES	Top of Bank H LB5.0fl Water Depth: Water Width:_ Ordinary High	Vidth: 6.5 ft Height: RB 3.0 1.00 in 2.5 ft Water Mark (Width): Water Mark (Height)	Gradient Flat (0.5/100 ft) RB 3.0 ft in in ft Mark (Width): 4.5 ft Mark (Height): 9.0 in Gradient Flat (0.5/100 ft) Stream Erosion —None M Artificial, Modified ✓ Yes Within Roadside Di		Moderate Severe (2 ft/100 ft) Description (20 ft/100 ft) Description (10 ft/100 ft/100 ft) Description (10 ft/100 ft/1	
FLOW CHARACTER	FLOW CHARACTERISTICS Water Present No water, stream Stream bed mois Standing water Flowing water Velocity Fast Slow			Riffle 80 % Run 20 % Pool % Turbidity Clear Others Slightly turbid		er if water present) %	
INOR	INORGANIC SUBSTRATE COMPORTS (should add up to 100%)		-		ORGANIC SUBSTRATE COM (does not necessarily add u		
Substrate Type	Dia	meter	% Composition in Sampling Reach	Substrate Type	e Characteristic	% Composition in Sampling Area	
Bedrock	. 01	(4011)		Detritus	sticks, wood, coarse		
Boulder		56 mm (10")			plant materials (CPOM)		
Cobble Gravel		mm (2.5"-10") mm (0.1"-2.5")	10	Muck-Mud	black, very fine organic (FPOM)		
Sand		-2mm (gritty)	25		(1.5)		
Silt		94-0.06 mm	65	Marl	grey, shell fragments		
Clay		04 mm (slick)		IVIGIT	grey, shell hagineme		
	Predominant Surrou ✓ Forest — Field/Pasture — Agricultural — ROW Canopy Cover — Open ✓ Shaded			use al I otric Line RO'	<u>✓</u> Narrow <15ft	ate 15-30ft	
_							
MAC	ROINVER	TEBRATES/OT	HER WILDLIFE OBS	SERVED OR	OTHER NOTES AND OBSER	RVATIONS	
MACROINVERTEBRATES/OTHER WILDLIFE OBSERVED OR OTHER NOTES AND OBSERVATIONS Starts from seeps on north side of electric transmission line access road at W-CD7							



Photograph Direction North

Comments:

STREAM ID S-AB8			STREAM NA	ME UNT to	to Owens Creek		
CLIENT MVP			PROJECT N	AME MVP			
LAT 36.970101 LONG -79.651305					COUNTY Franklin		
INVESTIGATO	ORS J. Ha	art, A. Larson, T.	Woods				
WATER TYPE	WATER TYPE FLOW REGIME						
CHANNEL FEATURES Water Depth: 3.00 Water Width: 2.5 Ordinary High Wate		Vidth:7.0 ft Height: t	ft	SinuosityLowVMediumHigh GradientFlatV ModerateSevere (0.5/100 ft) (2 ft/100 ft) Stream ErosionNoneV ModerateHeavy Artificial, Modified or ChannelizedYesV No Within Roadside DitchYesV No Culvert PresentV YesNo Culvert Material: Corrugated MetalCulvert Size: _24in Proportion of Reach Represented by Stream Morphology Types (Only enter if water present)			
FLOW CHARACTERISTICS Stream bed Standing water Flowing water Velocity		tream bed dry I moist vater	Morphology Types (Only enter if water prese Riffle 15 % Run 75 % Pool 10 % Turbidity ClearSlightly turbidTu		er if water present) %		
INOR		UBSTRATE CO ld add up to 100			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Dia	meter	% Composition in Sampling Reach	Substrat Type	te Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder		56 mm (10")	10		plant materials (CPOM)	35	
Cobble		mm (2.5"-10")	25	Muck-Muc	d black, very fine organic (FPOM)		
Gravel		nm (0.1"-2.5")	20		(I FOIVI)		
Sand Silt		-2mm (gritty)	20	Marl	grey, shell fragments		
Clay		04-0.06 mm 04 mm (slick)	10 15	IVIAII	grey, silell fragments		
Ciay	` 0.00	` ′	Surrounding Landu	180	 Floodplain Width		
WATERSHED FEATURES Watershed Feature — Commercial — Wide > 30ft — Moderate 15-30ft — Narrow <15ft — Narrow <15			te 15-30ft				
MAC	MACROINVERTEBRATES/OTHER WILDLIFE OBSERVED OR OTHER NOTES AND OBSERVATIONS						

Intermittent stream flows into and out of survey corridor. Wetlands W-AB2a-c occur at northern portion. Flowing at time of sampling but likely dries up later in season. Receives hydrologic contributions from S-AB9-11 and also likely from groundwater. Becomes NHD feature just off of corridor to south.



Photograph Direction South

Comments:

STREAM ID S-DD3	STREAM NAME Owens Creek
LAT 36.968931 LONG -79.644923	DATE 07/27/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A Lands, S Kite, L Sexton	
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW

			leasurements k Width: 15 ft		Stream ErosionNoneModerate	Heavy
		Top of Bank Height: LB _3.0 ft RB 4.0 ft		Artificial, Modified or Char	nnelized	
CHANNEL FE	ATURES	Water Dept Water Widt	h: <u>7.00 in</u> h: <u>8.0 in</u>		Dam PresentYes	<u>∕</u> No
			Mark: 2.0 ft		Sinuosity Low	Medium High
		Flow Direct	ion: Southwest		Gradient	
						Severe (10 ft/100 ft)
FLOW CHARACTERISTICS		Water Present No water, stream bed dry Stream bed moist Standing water Flowing water		Proportion of Reach Represented by Stream Morphology Types Riffle 70 % Run 20 % Pool 10 % Turbidity ✓ ClearSlightly turbidTurbid		
		VelocityFast✓ Moderate Slow		OpaqueStainedOther		
INORGANIC SUBSTRATE C (should add up to 1				ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")			plant materials (CPOM)	20
Cobble Gravel		m (2.5"-10")	40	Muck-Mud	black, very fine organic (FPOM)	
Sand		n (0.1"-2.5") nm (gritty)	20 10		(FF OW)	
Silt		0.06 mm	20	Marl	grey, shell fragments	
Clay		mm (slick)	10	· · · · · · · · · · · · · · · · · · ·	groy, enon magmente	
WATERSHED FEATURES		Predomina <u>✓</u> Forest	Industrial Grasses Herbaceous Residential Grasses Herbaceous Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <16ft Partly open Partly shaded Westland Present Voc. of No.		s ceous rate 15-30ft	
AQUATIC VEGETATIONRo			emergent	d record the or Rooted submo Attached alga		ingFree floating
Fish magrain artehrates growfish						

Fish, macroinvertebrates, crawfish
Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction SE

Date: 07/27/2015

Comments: 2015 stream identification.



Photograph Direction SE

Date: 11/13/2019

STREAM ID S-G16	STREAM NAME Strawfield Creek		
LAT 36.968696 LONG -79.64216	DATE 04/02/2015		
CLIENT MVP	PROJECT NAME MVP		
INVESTIGATORS G. Stevens, A. Rodrian, S. F	Kelly		
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW		

			leasurements _		Stream Erosion	
		Top of Ban	k Width: 30 ft		None Moderate	Heavy
		Top of Bank Height:		Artificial, Modified or Chan	nelized	
		LB <u>4.0 ft</u> RB <u>3.5 ft</u>		YesNo		
CHANNEL FE	ATURES	Water Dept	th: 8.00 in		Dam PresentYes	∠ No
		Water Widt	h: 10.0 ft			
		High Water	Mark: 11.0 ft		Sinuosity 🔽 Low	Medium <u></u> High
		Flow Direct	tion: South		Gradient	
						Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	sented by Stream
			r, stream bed dry		Morphology Types	0/
			ped moist		Riffle 40 % Run 30 Pool 30 %	%
FLOW	ICTICC	Standing water ✓ Flowing water			70 70	
CHARACTER	151165	V I lowing water			Turbidity	
		Velocity Mederate			✓ Clear — Slightly turbid — Turbid — Opaque — Stained	
		Fast Moderate			Other	
INORGANIC SUBSTRATE			MPONENTS	ORGANIC SUBSTRATE COMPONENTS		IPONENTS
		add up to 10			does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			30	Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")	15	Detilius	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")	20	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	1 (0.1"-2.5")	30	Widok Wida	(FPOM)	
Sand		nm (gritty)	5			
Silt		0.06 mm		Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)		_		
		Predomina ✓ Forest	ant Surrounding Lan Commer	i duse rcial	Indicate the dominant type ✓ Trees Shrub:	
		Field/Pa			Grasses Herba	
MATEROUER		Agricult	ural Resident	tial	Floodplain Width	
WATERSHED FEATURES		Other:			Wide > 30ft Moder	rate 15-30ft
		Canopy Co	over		✓ Narrow <16ft	
		Partly open Partly shaded		aded	Watland Present Vos	√ No
		Shaded	Open		Wetland PresentYes Wetland ID None	<u>→</u> NO
					dominant species present	
AQUATIC VEGETATION			_	Rooted subme Attached alga	ergentRooted float	ingFree floating
		i loatii i		Attached alga		

	Fish
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction South

Comments: 2015 stream identification.



Photograph Direction South

Date: 11/13/2019

STREAM ID S-G15	STREAM NAME UNT to Parrot Branch				
LAT 36.967525 LONG -79.636469	DATE 04/02/2015				
CLIENT MVP	PROJECT NAME MVP				
INVESTIGATORS G. Stevens, A. Rodrian, S. Kelly					
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW				

i eleliliai =		пі— Ерпепі		10.77	1414 W —	
CHANNEL FEATURES			leasurements k Width: 9 ft		Stream Erosion None Moderate	Heavy
		Top of Bank Height:		Artificial, Modified or Channelized Yes No		
			h: 3.00 in	_	Dam PresentYes	<u>∕</u> No
			Mark: 2.0 ft		Sinuosity <u>v</u> Low	Medium High
		Flow Direct	ion: South		Gradient	
						Severe (10 ft/100 ft)
FLOW CHARACTERISTICS		Water Present No water, stream bed dry Stream bed moist Standing water Flowing water Velocity Fast		Proportion of Reach Represented by Stream Morphology Types Riffle 10 % Run 65 % Pool 25 % Turbidity ClearSlightly turbidTurbidOpaqueStained		
		Slow			Other	
INORGANIC SUBSTRATE CO (should add up to 10				_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	50
Boulder Cobble		mm (10") ım (2.5"-10")	4-		plant materials (CPOM)	50
Gravel		n (0.1"-2.5")	15 30	Muck-Mud	black, very fine organic (FPOM)	
Sand		nm (gritty)	30		, ,	
Silt	0.004-	0.06 mm		Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	25			
WATERSHED FEATURES		Predomina Forest Field/Pa Agricult Other: Canopy Ca Partly of Shaded	asture Industrial ural Resident over pen Partly sh	Commercial Industrial Residential Residential Floodplain Width Wide > 30ft Narrow <16ft ✓ Partly shaded ✓ Research ✓ Yes No		s ceous rate 15-30ft
AQUATIC VEGETATION			emergent	d record the or Rooted submark Attached alga	_	ingFree floating
Information listed on this form represents the data collected in 2015. The stream was revisited						

	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed
MACROINVERTEBRATES OR OTHER WILDLIFE	
OBSERVED/OTHER OBSERVATIONS AND NOTES	



Photograph Direction SSE

Comments: 2015 stream identification.



Photograph Direction NW

Date: 11/13/2019

STREAM ID S-G13	STREAM NAME Parrot Branch			
LAT 36.966989 LONG -79.630774	DATE 04/02/2015			
CLIENT MVP	PROJECT NAME MVP			
INVESTIGATORS G. Stevens, A. Rodrian, S. Kelly				
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW			

			Measurements		Stream Erosion	
		Top of Ban	k Width: 8 ft		NoneModerate	Heavy
		Top of Bank Height:		Artificial, Modified or Char	nelized	
		LB <u>6.0 ft</u> RB <u>4.0 ft</u>		Yes No		
CHANNEL FE	ATURES	Water Dept	th: 9.00 in		Dam PresentYes	No
		Water Widt	h: <u>5.0 ft</u>		_ _	_
		High Water	Mark: <u>6.0 ft</u>		Sinuosity Low	Medium High
		Flow Direct	tion: Southeast		Gradient	
					<u>✓</u> FlatModerate (2 ft/100 ft)	
		Water Pres			(0.5/100 ft (2 ft/100 ft) Proportion of Reach Repre	(10 ft/100 ft)
			r, stream bed dry		Morphology Types	sented by Stream
		Stream l	ped moist		Riffle 30 % Run 40	%
FLOW		Standing water			Pool 30 %	
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity	
		Velocity			✓ Clear — Slightly	
		Fast <u>v</u> Moderate			OpaqueStained	
Slo					Other	
INOR		-			RGANIC SUBSTRATE COMPONENTS does not necessarily add up to 100%)	
0.1.1.1	(snould	add up to 10			1	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			5	Detritus	sticks, wood, coarse	
Boulder		mm (10")	20	Dountdo	plant materials (CPOM)	15
Cobble		ım (2.5"-10")	30	Muck-Mud	black, very fine organic	
Gravel		า (0.1"-2.5")	25		(FPOM)	
Sand		nm (gritty)	15			
Silt		0.06 mm	_	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	5	4		(0)
		redomina ✓ Forest	ant Surrounding Lan Commer		Indicate the dominant type ✓ Trees Shrub	
		Field/Pa	astureIndustrial		Grasses Herba	ceous
WATERCHER.		Agricult	ural Resident	ial	—— —— Floodplain Width	
WATERSHED FEATURES		Other:			Wide > 30ft Mode	rate 15-30ft
		Canopy Co	over		✓ Narrow <16ft	
		<u>✓</u> Partly c	penPartly sh	aded	Wetland Present Vos	No
		Shaded	Open		Wetland PresentYes Wetland ID None	INO
					dominant species present	
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating				ingFree floating
		Floating	g algae	Attached alga	e	

	Fish observed
MACROINVERTEBRATES OR OTHER	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed
WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	



Photograph Direction SSW

Date: 04/02/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/13/2019

STREAM ID S-D3	STREAM NAME Jonnikin Creek
LAT 36.965587 LONG-79.605521	DATE 04/02/2015
PROJECT NAME MVP	CLIENT MVP
INVESTIGATORS A. Bensted, J. Kraus, A	A. Larson
FLOW REGIME	WATER TYPE
✔ Perennial Intermittent Ephemeral	TNW ✓ RPW NRPW

		Estimato N	Measurements		Stream Erosion	
			k Width: 10 ft		None Moderate _	Heavy
		Top of Ban	k Height:			
					Artificial, Modified or Channelized Yes No	
				<u>-</u>	Yes _ <u>✓</u> No	
CHANNEL FE	ATURES	Water Depth: 1.50 ft Water Width: 9 ft			Dam Present Yes	<u>∕</u> No
			Mark: 24 in		Sinuosity Low	Medium <u>✓</u> High
					Gradient	
					✓ Flat Moderate	Severe
					(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre Morphology Types	sented by Stream
			r, stream bed dry bed moist		Riffle 25 % Run 50	%
		— Standin			Pool 25 %	
FLOW CHARACTER	ISTICS	Flowing				
					Turbidity Clear Slightly	turbid Turbid
		Velocity Fast	✓ Moderate		✓ ClearSlightly turbidTurbit OpaqueStained	
		Slow	····ouoiuto		Other	
INORGANIC SUBSTRATE C			MPONENTS	0	RGANIC SUBSTRATE CON	IPONENTS
	(should	add up to 10	0%)	(does not necessarily add up to 100%)		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")	20	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	າ (0.1"-2.5")	30	Widok Widd	(FPOM)	
Sand		nm (gritty)	25			
Silt		0.06 mm	25	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)				
			ant Surrounding Lan Commer		Indicate the dominant type	
		Field/P	asture Industrial	Ciai	<u>✓</u> Trees Shrub Grasses Herba	
		Agricul	tural Resident			00000
WATERSHED FEATURES		Other:	<u> </u>		Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <16ft	
		Canopy Cover				
		Partly open Partly shaded Open Shaded			Wetland PresentYes No	
		Open				
		_ `	_	4	Wetland ID	
AQUATIC VE	GETATION	Indicate th	e dominant type and		dominant species present	ing Free floating
AQUATIC VE	GETATION	Indicate the	e dominant type and		dominant species present ergent Rooted float	ingFree floating

	Perennial, fish observed. Green algae in stream.
OR OTHER	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/15/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction SSE

Date: <u>04/02/2015</u>

Comments: 2015 stream identification.



Photograph Direction North

Date: 11/15/2019

STREAM ID S-D4	STREAM NAME UNT to Jonnikin Creek
LAT 36.965589 LONG -79.604917	DATE 04/02/2015
PROJECT NAME MVP	CLIENT MVP
INVESTIGATORS A. Bensted, J. Kraus, A	A. Larson
FLOW REGIME Perennial Intermittent ✓ Ephemeral	WATER TYPE TNW ✓ RPW NRPW

Estimate Measurements Top of Bank Width: 6 ft Top of Bank Height: LB 2 ft RB 2 ft Water Depth: 1.00 in Water Width: 2 ft High Water Mark: 36 in			<u>it</u>	Stream Erosion None Moderate Artificial, Modified or Char Yes No Dam Present Yes Sinuosity Low Gradient Flat Moderate (0.5/100 ft (2 ft/100 ft)	nnelized _ No Medium High _ Severe	
FLOW Standin Standin Flowing Velocity		r, stream bed dry bed moist g water		Proportion of Reach Representations of Reach R	% turbidTurbid	
INOR		STRATE CO			RGANIC SUBSTRATE CON does not necessarily add u	-
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	1	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	00
Boulder Cobble		mm (10") ım (2.5"-10")			plant materials (CPOM)	90
Gravel		n (0.1"-2.5")	15	Muck-Mud	black, very fine organic (FPOM)	
Sand		nm (gritty)	30		, ,	
Silt	0.004-	0.06 mm	55	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)				
WATERSHED FEATURES Car		✓ Forest Commercial		Indicate the dominant type ✓ Trees Shrubs _ Grasses Herbaceous Floodplain Width Wide > 30ft✓ Moderate 15-30ft Narrow <16ft Wetland Present Yes✓ No Wetland ID		
AQUATIC VEGETATION		Rooted	emergent		dominant species present ergentRooted float e	ingFree floating

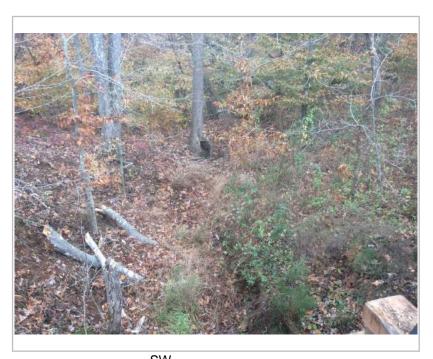
	Stream starts as ephemeral and becomes intermittent before i confluence with S-D3. Stream flows out of recent clearcut.
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/15/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction SSW

Date: <u>04/02/2015</u>

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/15/2019

STREAM NAME UNT to Jonnikin Creek
DATE 04/02/2015
CLIENT MVP
A. Larson
WATER TYPE TNW ✓ RPW NRPW

			Measurements k Width: 18 ft k Height:		Stream Erosion None Moderate Artificial, Modified or Char	
		154 # 55- #			Yes V No	menzeu
CHANNEL FE	ATURES	Water Depth: 5.00 in Water Width: 13 ft		Dam Present Yes	<u>∕</u> No	
					Sinuosity Low	Medium 🔽 High
					Gradient <u>✓</u> Flat Moderate (0.5/100 ft)	
FLOW	JETICE		r, stream bed dry bed moist g water		Proportion of Reach Representations of Reach R	•
CHARACTERISTICS		Velocity Fast Moderate Slow			Turbidity <u>✓</u> Clear Slightly turbid Turbid Opaque Stained Other	
INOR		STRATE CO			RGANIC SUBSTRATE CON does not necessarily add u	-
Substrate Type	Diame	•	% Composition in Sampling Reach	Substrate Type		% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Detitus	plant materials (CPOM)	25
Cobble		m (2.5"-10")	25	Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")	25		(FPOM)	
Sand		nm (gritty)	50	Man	anno a chall fua anno anto	
Silt Clay		0.06 mm mm (slick)		Marl	grey, shell fragments	
Clay	₹ 0.004	` ,	l ant Surrounding Lan	lduse	Indicate the dominant type	1
WATERSHED FEATURES		✓ Forest Commercial Field/Pasture Industrial Agricultural Residential Other:		rcial I	✓ Trees Shrubs Grasses Herbaceous Floodplain Width ✓ Wide > 30ft Moderate 15-30ft	
		Canopy Cover ✓ Partly open — Partly shaded — Open — Shaded		aded	─ Narrow <16ft Wetland PresentYes _ ✓ No Wetland ID	
AQUATIC VEGETATION		Rooted	emergent			ingFree floating

MACROINVERTEBRATES	Perennial. Small fish, frog, and water strider observed. Slope wetland near but not directly abutting stream (W-D3).
OR OTHER WILDLIFE OBSERVED/OTHER	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/15/2019. The presence of a stream channel and OHWM was confirmed



Photograph Direction South

Date: <u>04/02/2015</u>

Comments: 2015 stream identification.



Photograph Direction North

Date: 11/15/2019

STREAM ID S-D7	STREAM NAME UNT to Jonnikin Creek
LAT 36.964732 LONG -79.617036	DATE 04/02/2015
PROJECT NAME MVP	CLIENT MVP
INVESTIGATORS A. Bensted, J. Kraus, A	A. Larson
FLOW REGIME	WATER TYPE
Perennial Intermittent 🗸 Ephemeral	TNW ✔ RPW NRPW

To To To LB CHANNEL FEATURES Wa Wa		Top of Ban Top of Ban LB 3 Water Dept	Measurements k Width: 8 ft k Height: ft RB 3 ft th: 1.00 in h:1 ft Mark: 1 ft	<u>ft</u>	Stream Erosion None Moderate Artificial, Modified or Char Yes No Dam Present Yes Sinuosity Low Gradient Flat Moderate (2 ft/100 ft)	nelized No Medium High Severe
FLOW Standing CHARACTERISTICS		Stream I Standing Flowing	r, stream bed dry bed moist g water		Proportion of Reach Representations of Reach	sented by Stream % turbidTurbid
INOR		STRATE CO			RGANIC SUBSTRATE CON	
Substrate Type	Diame		% Composition in Sampling Reach	Substrate Type	1	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	15
Boulder Cobble		mm (10") m (2.5"-10")			plant materials (CPOM)	15
Gravel		n (0.1"-2.5")	20	Muck-Mud	black, very fine organic (FPOM)	
Sand		nm (gritty)	20 10		(* * 5)	
Silt		0.06 mm	10	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	40		3 1,7 1 13 13	
WATERSHED FEATURES — Forest ✓ Field/F Agricu Other: Canopy C Partly		Predomina Forest Field/Pa	ant Surrounding Landuse Commercial asture Industrial tural Residential over open Partly shaded		Indicate the dominant type Trees Shrubs Grasses Herbaceous Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <16ft Wetland Present Yes No Wetland ID	
AQUATIC VEGETATION Rooted		emergent		dominant species present ergent Rooted float	ingFree floating	

	Intermittent flow. Small area with Lonicera japonica (FAC) and hydric soil near headwaters, but within ordinary high so not
	frigure 3011 rical ricadwaters, but within ordinary riight 30 riot
MACROINVERTEBRATES OR OTHER	mapped. Stream heavily trampled by cattle.
WILDLIFE OBSERVED/OTHER OBSERVATIONS AND	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/13/2019. The presence of a stream channel and OHWM was confirmed.



Photograph Direction North

Date: <u>04/02/2015</u>

Comments: 2015 stream identification.



Photograph Direction North

Date: 11/13/2019

STREAM ID S-D1 EPH	STREAM NAME UNT to Jonnikin Creek
LAT 36.964405 LONG-79.595782	DATE 04/02/2015
PROJECT NAME MVP	CLIENT MVP
INVESTIGATORS A. Bensted, J. Kraus, A	A. Larson
FLOW REGIME	WATER TYPE
Perennial Intermittent 🗸 Ephemeral	TNW RPW ✔ NRPW

		Estimate N	/leasurements		Stream Erosion	
CHANNEL FEATURES		Top of Bank Width: 10 ft			NoneModerate <u></u> ✓ Heavy	
		Top of Bank Height:			Artificial, Modified or Channelized	
		LB <u>7</u>	ft RB <u>7</u> f	<u>'t</u>	Yes _ <u>✓</u> No	
		Water Depth: 1.00 in			Dom Drocont Voc	. No
		Water Width: 1 ft_			Dam Present Yes	<u> </u>
		High Water	Mark: <u>24 in</u>		Sinuosity Low	Medium High
					Gradient	
					Flat Moderate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	. ,
		No wate	r, stream bed dry		Morphology Types	•
			bed moist		Riffle 20 % Run Pool 20 %	%
FLOW CHARACTER	ISTICS	Standing Flowing			70 20 70	
CHARACTER	131103	r lowing water			Turbidity ClearSlightly	turbid Turbid
		Velocity Fast Moderate			Opaque Stained	
		Slow	Woderate		Other	
INOR		STRATE CO		_	RGANIC SUBSTRATE CON	
	(should	add up to 10	· '	(does not necessarily add up to 100%)		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")			plant materials (CPOM)	50
Cobble		m (2.5"-10")	5	Muck-Mud	black, very fine organic (FPOM)	
Gravel Sand		n (0.1"-2.5") nm (gritty)	45		(I I ONI)	
Silt		10 77	45	Marl	grev shell fragments	
Silt Clav	0.004-	0.06 mm	40	Marl	grey, shell fragments	
Silt Clay	0.004-	0.06 mm mm (slick)				
	0.004-	0.06 mm mm (slick) Predomina Forest	40 10 ant Surrounding Lan Commer	iduse cial	Indicate the dominant type ✓ Trees Shrub	S
	0.004-	0.06 mm mm (slick) Predomina Forest Field/Pa	40 10 ant Surrounding Lan Commer asture Industrial	iduse cial	Indicate the dominant type	S
Clay	0.004- < 0.004	0.06 mm mm (slick) Predomina Forest Field/Pa Agricult	40 10 ant Surrounding Lan Commer asture Industrial	iduse cial	Indicate the dominant type Trees Shrub Grasses Herba Floodplain Width	s ceous
Clay	0.004- < 0.004	D.06 mm mm (slick) Predomina Forest Field/Pa Agricult Other:	40 10 ant Surrounding Lan Commer asture Industrial tural Resident	iduse cial	Indicate the dominant type V Trees Shrub V Grasses Herba Floodplain Width Wide > 30ft Mode	S
Clay	0.004- < 0.004	D.06 mm mm (slick) Predomina Forest Field/P Agricult Other: Canopy Co	40 10 ant Surrounding Lan Commer asture Industrial tural Resident	duse cial	Indicate the dominant type Trees Shrub Grasses Herba Floodplain Width	s ceous
Clay	0.004- < 0.004	D.06 mm mm (slick) Predomina Forest Field/Pa Agricult Other:	40 10 ant Surrounding Lan Commer asture Industrial tural Resident	duse cial	Indicate the dominant type V Trees Shrub V Grasses Herba Floodplain Width Wide > 30ft Mode	s ceous rate 15-30ft
Clay WATERSHED FEATURES	0.004- < 0.004	D.06 mm mm (slick) Predomina Forest Field/Pa Agricult Other: Canopy Co Partly co Open Indicate the	40 10 ant Surrounding Lan Commer asture Industrial tural Resident over open Partly sha Shaded ae dominant type and	duse cial tial aded	Indicate the dominant type V Trees Shrub V Grasses Herba Floodplain Width Wide > 30ft V Narrow <16ft Wetland Present Wetland ID Idominant species present	s ceous rate 15-30ft <u>V</u> No
Clay	0.004- < 0.004	D.06 mm mm (slick) Predomina Forest Field/Pa Agricult Other: Canopy Co Partly Co Open Indicate the	40 10 ant Surrounding Lan Commer asture Industrial tural Resident over open Partly sha Shaded e dominant type and e emergent	duse cial tial	Indicate the dominant type In	s ceous rate 15-30ft

Stream is ephemeral then turns intermittent at location of groundwater inout. A few small pools of standing water are in ephemeral reach, intermittent flow starts downstream of centerline.

| MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES | Information listed on the content of the content of

Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed

Stream Photograph Page

Stream ID S-D1 EPI



Photograph Direction ENE

Date: <u>04/02/2015</u>

Comments: 2015 stream identification.



Photograph Direction NW

Date: 11/14/2019

STREAM ID S-D1 INT	STREAM NAME UNT to Jonnikin Creek
LAT 36.964405 LONG-79.595782	DATE 04/02/2015
PROJECT NAME MVP	CLIENT MVP
INVESTIGATORS A. Bensted, J. Kraus, A	A. Larson
FLOW REGIME Perennial ✓ Intermittent Ephemeral	WATER TYPE TNW ✓ RPW NRPW

CHANNEL FEATURES		Top of Ban Top of Ban LB <u>7</u>	ft RB <u>7 1</u> th: <u>1.00 in</u>	í <u>t</u>	Stream Erosion None Moderate Artificial, Modified or Char Yes V No Dam Present Yes	nnelized
		High Water	Mark: <u>24 in</u>		Sinuosity Low	
FLOW CHARACTER	ISTICS	Water Present No water, stream bed dry Stream bed moist Standing water Flowing water Velocity Fast Moderate Slow			Proportion of Reach Representations of Reach R	% turbidTurbid
INOR		STRATE CO		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diame		% Composition in Sampling Reach	Substrate Type	1	% Composition in Sampling Area
Bedrock	. 050	(4011)		Detritus	sticks, wood, coarse plant materials (CPOM)	50
Boulder Cobble		mm (10") m (2.5"-10")	5		1	50
Gravel		n (0.1"-2.5")	5	Muck-Mud	black, very fine organic (FPOM)	
Sand		nm (gritty)	45			
Silt	0.004-	0.06 mm	40	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	10			
WATERSHED FEATURES WATERSHED Canopy C		Forest Field/Pa Agricult Other: Canopy Ca Partly of	Pasture Industrial ultural Residential :		Indicate the dominant type V Trees Shrubs Herbaceous Floodplain Width Wide > 30ft Narrow <16ft Wetland Present Yes No	
			e dominant type and emergent		Wetland ID dominant species present ergent Rooted float	

Stream is ephemeral then turns intermittent at location of groundwater inout. A few small pools of standing water are in ephemeral reach, intermittent flow starts downstream of centerline.

| MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES | Information listed on the content of the content of

Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed

Stream Photograph Page

Stream ID S-D1 INT



Photograph Direction ENE

Date: <u>04/02/2015</u>

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/14/2019

STREAM ID S-G11	STREAM NAME UNT to Jonnikin Creek
LAT 36.962589 LONG -79.590296	DATE 04/02/2015
PROJECT NAME MVP	CLIENT MVP
INVESTIGATORS G. Stevens, A. Rodrian, S	s. Kelly
FLOW REGIME Perennial ✓ Intermittent Ephemeral	WATER TYPE TNW ✓ RPW NRPW

		Estimate Measurements Top of Bank Width: 6 ft			Stream ErosionNone _✓ Moderate Heavy	
		Top of Bank Widan.			NoneNoderate .	<u> —</u> пеаvy
		Top of Ban	· ·	_	Artificial, Modified or Chan	nelized
		LB <u>6</u> ft RB <u>6</u> ft			Yes No	
CHANNEL FE	ATURES	Water Dept	th: 3.00 in		Dam Present Yes	No
		Water Width: 3 ft				_
		High Water	Mark: <u>48</u> in		Sinuosity <u>v</u> Low	Medium High
					Gradient	
					<u> </u>	Severe
					(0.5/100 ft (2 ft/100 ft)	,
		Water Pres	sent r, stream bed dry		Proportion of Reach Represented by Stream Morphology Types	
			ned moist		Riffle 10 % Run 70	%
E1 014		— Standing	g water		Pool 10 %	
FLOW CHARACTER	ISTICS	<u>✓</u> Flowing	water			
					Turbidity ✓ ClearSlightly t	turbidTurbid
		Velocity Fast	Moderate		<u>✓ Clear</u> Slightly turbidTurbidOpaqueStainedOther	
		✓ Slow	Moderate			
INOR	INORGANIC SUBSTRATE COMPONENTS ORGANIC SUBSTRATE COMPONENTS					PONENTS
			add up to 100%)		(does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			0	Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")	5	Detritus	plant materials (CPOM)	70
Cobble	64-256 m	m (2.5"-10")	20	Muck-Mud	black, very fine organic	0
Cobble Gravel		ım (2.5"-10") n (0.1"-2.5")	20 50	Muck-Mud	black, very fine organic (FPOM)	0
	2-64 mm		_	Muck-Mud		
Gravel	2-64 mm 0.06-2r	n (0.1"-2.5")	50	Muck-Mud Marl		0
Gravel Sand	2-64 mm 0.06-2r 0.004-	n (0.1"-2.5") mm (gritty) 0.06 mm mm (slick)	50 15 0 10	Marl	(FPOM)	
Gravel Sand Silt	2-64 mm 0.06-2r 0.004-	mm (gritty) 0.06 mm mm (slick) Predomina	50 15 0 10 ant Surrounding Lar	Marl	grey, shell fragments Indicate the dominant type	0
Gravel Sand Silt	2-64 mm 0.06-2r 0.004-	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina V Forest	50 15 0 10 ant Surrounding Lar Commer	Marl nduse	grey, shell fragments Indicate the dominant type ✓ Trees Shrub:	0 s
Gravel Sand Silt	2-64 mm 0.06-2r 0.004-	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Forest Field/Pa	50 15 0 10 ant Surrounding Lar Commer	Marl nduse rotal	grey, shell fragments Indicate the dominant type	0 s
Gravel Sand Silt Clay	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Forest Field/Pa Agricult	50 15 0 10 ant Surrounding Lar Commer	Marl nduse rotal I	grey, shell fragments Indicate the dominant type Trees Shrub: Grasses Herbai Floodplain Width	0 s ceous
Gravel Sand Silt Clay	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Forest Field/Pa	50 15 0 10 ant Surrounding Lar Commer	Marl nduse rotal I	grey, shell fragments Indicate the dominant type Trees Shrub: Grasses Herbar Floodplain Width Wide > 30ft Moder	0 s ceous
Gravel Sand Silt Clay	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Field/Pr Agricult Other: Canopy Co	50 15 0 10 ant Surrounding Lar Commer asture Industria ural Residen	Marl nduse rotal I tial	grey, shell fragments Indicate the dominant type Trees Shrub: Grasses Herbai Floodplain Width	0 s ceous
Gravel Sand Silt Clay	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina	50 15 0 10 ant Surrounding Lar Commer asture Industria Residen over open Partly sh	Marl nduse rotial I tial	grey, shell fragments Indicate the dominant type Trees Shrub: Grasses Herbar Floodplain Width Wide > 30ft Moder Narrow <16ft	0 s ceous rate 15-30ft
Gravel Sand Silt Clay	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Field/Pr Agricult Other: Canopy Co	50 15 0 10 ant Surrounding Lar Commer asture Industria Residen over open Partly sh	Marl Induse rocial Itial	grey, shell fragments Indicate the dominant type Trees Shrub: Grasses Herbar Floodplain Width Wide > 30ft Moder	0 s ceous rate 15-30ft
Gravel Sand Silt Clay WATERSHED FEATURES	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Field/Pa Agricult Other: Canopy Ca Partly Ca Shaded	50 15 0 10 ant Surrounding Lar Commer asture Industria Residen Dver open Partly sh	Marl Induse rotial Itial aded	grey, shell fragments Indicate the dominant type Indicate the dominant type Trees Shrub: Grasses Herbar Floodplain Width Wide > 30ft Moder Narrow <16ft Wetland Present Yes Wetland ID None	0 s ceous rate 15-30ft
Gravel Sand Silt Clay	2-64 mm 0.06-2r 0.004- < 0.004	n (0.1"-2.5") nm (gritty) 0.06 mm mm (slick) Predomina Forest Field/Pa Agricult Other: Canopy Ca Partly of Shaded Indicate th Rooted	50 15 0 10 ant Surrounding Lar Commer asture Industria ural Residen over open Partly sh	Marl nduse rocial I tial	grey, shell fragments Indicate the dominant type Indicat	0 s ceous rate 15-30ft

	None, has tributary SG12
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 11/14/2019. The presence of a stream channel and OHWM was confirmed

Stream Photograph Page

Stream ID S-G11



Photograph Direction North

Date: <u>04/02/20</u>15

Comments: 2015 stream identification.



Photograph Direction SW

Date: 11/14/2019