

FIGURE 1. CORRECTIVE ACTION PLAN DETAILS ON 2023 AERIAL IMAGE OBTAINED FROM LOW ELEVATION DRONE FLIGHT ON APRIL 25, 2023



PROJECT NAME: Area 6 Corrective Action Plan
PROJECT LOCATION: Campbell County, Tennessee
PRINT DATE: 5/26/2023
OSM#: 3333
USACE#: LRN 2018-00397
WPT#: 2023-61



Corrective Action Plan (CAP) Credit Summary June 6, 2023

Alden Resources, LLC
Area #6 Project
Campbell County, Tennessee
LRN-2018-00397; ARAP# NR19MS.001
NPDES Permit TN0070408
SMCRA Permit 3333
WPT# 2023-61

Table 1. Impacts Summary

Name	Length (Linear Feet)	Baseline FCU	Debit (FCUs)
			(1 003)
Stream 2 Slide Area 1	40	10	10
Stream 2 Slide Area 2	136	34	34
Total	176	44	44

Table 2. Mitigation Summary

Name	Length (Linear Feet)	FCI	FCU
Stream 2 Mitigation Area	206	0.75	155
Total	206	N/A	155

Table 3. Credit and Debit Summary

Name	Length (Linear	Baseline	Mitigation
	Feet)	Impacts FCU	FCU Credit
		Debit	
Stream 2 Slide Areas	176	-44	NA
Sileani 2 Silue Aleas	170	-44	NA
Stream 2 Mitigation	206	0	+155
Area			
Total	NA	-44	+155
Net Lift	NA	NA	+111 FCUs

Ver. 10-20-17

FCI Calculator for the High-Gradient Headwater Streams in Appalachia

To ensure accurate calculations, the <u>UPPERMOST STRATUM</u> of the plant community is determined based on the calculated value for V_{CCANOPY} (≥20% cover is required for tree/sapling strata). Go to the SAR Data Entry tab and enter site characteristics and data in the yellow cells. For information on determining how to split a project into SARs, see Chapter 5 of the Operational Draft Regional Guidebook for the Functional Assessment of High-Gradient Headwater Streams and Low-Gradient Perennial Streams in Appalachia (Environmental Laboratory U.S. Army Corps of Engineers 2017).

Project Name: Area 6

Location: Stream 2 Lower

Sampling Date: 4-25-23 Project Site Before Project

Subclass for this SAR:

Intermittent Stream

Uppermost stratum present at this SAR: SAR number: 1

Shrub/Herb Strata

Functional Results Summary: Enter Re

Enter Results in Section A of the Mitigation Sufficiency Calculator

Function	Functional Capacity Index
Hydrology	0.42
Biogeochemical Cycling	0.21
Habitat	0.12

Variable Measure and Subindex Summary:

Variable	Name	Average Measure	Subindex
V _{CCANOPY}	Percent canpoy over channel.	Not Used, <20%	Not Used
V _{EMBED}	Average embeddedness of channel.	1.17	0.16
V _{SUBSTRATE}	Median stream channel substrate particle size.	0.08	0.04
V_{BERO}	Total percent of eroded stream channel bank.	83.00	0.63
V_{LWD}	Number of down woody stems per 100 feet of stream.	60.00	0.50
V_{TDBH}	Average dbh of trees.	Not Used	Not Used
V _{SNAG}	Number of snags per 100 feet of stream.	0.00	0.10
V _{SSD}	Number of saplings and shrubs per 100 feet of stream.	41.00	0.63
V _{SRICH}	Riparian vegetation species richness.	0.00	0.00
V _{DETRITUS}	Average percent cover of leaves, sticks, etc.	55.00	0.67
V_{HERB}	Average percent cover of herbaceous vegetation.	25.31	0.34
V _{WLUSE}	Weighted Average of Runoff Score for Catchment.	0.55	0.58

			High-G			ter Strea et and C			а		
	Team:	Waypoint, I	I.C.	rieia L	Jala Sile	et and C			M Northing	N36.48910	0
Pro	ject Name:								_	W84.02067	
	Location:	Stream 2 L	ower					•	npling Date:		
SA	R Number:	1	Reach	Length (ft):	100	Stream Ty	/pe: _{Inter}	mittent Strea	m		,
	Top Strata:	Sh	rub/Herb Str	ata	(determined	d from perce	ent calculate	d in V _{CCANO}	_{PY})		-
Site a	and Timing:	Project Site				•	Before Proje	ct			•
mple	Variables	1-4 in strea	m channel								
	V _{CCANOPY}	20%, enter	points along at least one	the stream value betw	. Measure een 0 and 1	nd sapling ca only if tree/s 9 to trigger	apling cove	r is at least			Not Use <20%
		cent cover r				00	40	45	45	40	1
ŀ	20	15	20	20	15	20	10	15	15	10	
2	V _{EMBED}	along the si surface and to the follow of 1. If the	tream. Sele I area surro ving table. I bed is comp	ect a particle unding the p f the bed is posed of bed	from the be particle that in an artificial strock, use a	surface, or o	noving it, de by fine sedim composed of e of 5.	termine the nent, and en f fine sedim	percentage ter the ratin ents, use a	of the g according rating score	1.2
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		Rating 5	Rating Des		overed sur	ounded, or	huried by fir	ne sediment	(or hedroal	1)	
		4				surrounded				·)	
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		<u>2</u>				d, surrounde rrounded, o				al surface)	
	List the rati	ngs at each			ooverea, ea	rroundou, o	i bunea by i	ine seamier	it (or artinoit	ar ourrace)	J
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ŀ	1	1	1	1	1	1					
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ŀ	0.08	0.08	0.08	0.08	12.00 0.10	2.00 0.20					
ŀ	0.08	0.10	0.08	0.08	8.00	0.20					
	V _{BERO}	side and the may be up	e total perce to 200%. Left Bank:	entage will b	e calculated		nks are eroo	ded, total er	osion for the	e stream	83 %
	Variables V _{LWD}	stream read	down woody	y stems (at l e number fr	east 4 inche om the entir lated.	es in diamete e 50'-wide b	er and 36 in ouffer and wi	ches in leng	th) per 100 innel, and th	feet of	60.0
6	V _{TDBH}	Average db	h of trees (r	neasure onl		downed wo			. Trees are	at least 4	
	15511	inches (10	cm) in diam	eter. Enter	tree DBHs in						Not Us
ſ		o oa carri	Left Side					Right Side			1
ľ	8.3	4	4.1	11.8	5	4.5	4	5.9	6.1	4.4	
Ī	6.2	4	5	7	5	6.2	5.8	5.2	5.7	6.1	
ļ	5.5	5.1	7.5			6.5	6.7	6.6	4.3	5.9	
ŀ						5.5	4				
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7	V _{SNAG}					per 100 feet et will be cal		Enter numb	er of snags	on each	0.0
			Left Side:				Right Side:		0		
8	V _{SSD}	tree cover i		nter number I be calculat	of saplings	and shrubs		le of the stre		asure only if e amount	41.0

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nk. The	DETRITUS	Average pelong are inc 80 50 Average pelong are inc 80 50 Average pelone include woo vegetation each subple	n at least 8 ald be place ercent cover clude. Enter Left 40 70 ercentage cody stems a percentages ot.	subplots (4 roughly of leaves, s r the percent Side 10 60 rover of herbat least 4" db	equidistant sticks, or othe t cover of the 60 70 acceous vege h and 36" ta	ly along ea er organic i e detrital la 50 50	material. Woo yer at each si Right	an/buffer z ne stream. ody debris « ubplot. Side 60	one within 4" diamete	25 feet from	
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nk. The 0 V _{DE}	DETRITUS HERB	Average per long are inc 80 50 Average per include work vegetation each subple	ricent cover clude. Enter Left 40 70 creentage cody stems a percentages ot.	of leaves, s of leaves, s of the percent Side 10 60 over of herbat t least 4" db	equidistant sticks, or othe t cover of the 60 70 acceous vege h and 36" ta	ly along ea er organic i e detrital la 50 50	material. Woo yer at each si Right	ne stream. ody debris dubplot. Side	<4" diamete		
1 V _{HE}	HERB	80 50 Average pe include woo vegetation each subple	Left 40 70 ercentage cody stems a percentagesot.	side 10 60 over of herbat t least 4" db	60 70 aceous vege	50	yer at each si Right	ubplot. Side	40	r and <36"	55.00
mple Va		80 50 Average pe include wor vegetation each subple	Left 40 70 ercentage co ody stems a percentages ot.	Side 10 60 over of herbattleast 4" db	60 70 aceous vege h and 36" ta	50 50	Right 60	Side 60			
mple Va		Average per include wood vegetation each subpleted 50	70 ercentage coody stems a percentages ot.	10 60 over of herbattleast 4" db	70 aceous vege oh and 36" ta	50	60	60			
mple Va		Average per include wood vegetation each subplete.	70 ercentage co ody stems a percentages ot.	60 over of herba t least 4" db	70 aceous vege oh and 36" ta	50					
mple Va		Average per include wood vegetation each subple	ercentage co ody stems a percentages ot.	over of herba t least 4" db	aceous vege h and 36" ta						
mple Va		vegetation each subple	ody stems a percentages ot.	t least 4" db	h and 36" ta					not	
		each subple	ot.	s up through			there may be				05.0
		50			1 200% are a	ccepted. I	Enter the perc	ent cover c	f ground ve	getation at	25 %
			Lett	0:1			D: 14	0:1		, l	
			40		50	45	Right		45	İ	
-		20	40 15	10 15	50 40	15 10	20 10	30 50	15 15		
											0.55
			Land	Use (Choos	se From Dro	p List)			Runoff Score	% in Catch- ment	Runni
				- AND AND AND AND							(not >1
For	rest and r	ative range (>75% ground	cover)				•	1	52	52
Op	pen space	(pasture, law	ns, parks, etc.)), grass cover	<50%			•	0.1	32	84
Ne	ewly grade	ed areas (bare	soil. no vege	tation or pay	rement)			-	0	16	100
15.65%	, 5							1 201			
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				Otros o	haa b					t	
Varial	able	Value	VSI				n several loc estrate mostl	,			,
V _{CCANO}	NOPY	Not Used, <20%	Not Used				istrate mosti Irbances. Hi				
			0.46				ed in land us		1111		
V _{EMBEI}		1.2	0.16	I							
V _{SUBST}	TRATE	0.08 in	0.04								
		83 %	0.63								
Vpeno		7									
V _{BERO}			0.50								
V_{BERO} V_{LWD}		60.0		I							
)	60.0 Not Used	Not Used								
V_{LWD} V_{TDBH}		Not Used									
\mathbf{V}_{LWD}			Not Used 0.10								
\mathbf{V}_{LWD} \mathbf{V}_{TDBH}		Not Used									
V _{LWD} V _{TDBH} V _{SNAG} V _{SSD}	1	0.0 41.0	0.10 0.63								
V _{LWD} V _{TDBH} V _{SNAG} V _{SSD} V _{SRICH}	i G	0.0 41.0 0.00	0.10 0.63 0.00								
V _{LWD} V _{TDBH} V _{SNAG} V _{SSD} V _{SRICH} V _{DETRI}	O G H	Not Used 0.0 41.0 0.00 55.0 %	0.10 0.63 0.00 0.67								
V _{LWD} V _{TDBH} V _{SNAG} V _{SSD} V _{SRICH}	O G H	0.0 41.0 0.00	0.10 0.63 0.00								

FCI Calculator for the High-Gradient Headwater Streams in Appalachia

To ensure accurate calculations, the <u>UPPERMOST STRATUM</u> of the plant community is determined based on the calculated value for V_{CCANOPY} (≥20% cover is required for tree/sapling strata). Go to the SAR Data Entry tab and enter site characteristics and data in the yellow cells. For information on determining how to split a project into SARs, see Chapter 5 of the Operational Draft Regional Guidebook for the Functional Assessment of High-Gradient Headwater Streams and Low-Gradient Perennial Streams in Appalachia (Environmental Laboratory U.S. Army Corps of Engineers 2017).

Project Name: Area 6

Location: Stream 2 Upper

Sampling Date: 6-1-23 Mitigation Site After Project

Subclass for this SAR:

Intermittent Stream

Uppermost stratum present at this SAR: SAR number: 1

Shrub/Herb Strata

Functional Results Summary:

Enter Results in Section D of the Mitigation Sufficiency Calculator

Function	Functional Capacity Index
Hydrology	0.94
Biogeochemical Cycling	0.62
Habitat	0.69

Variable Measure and Subindex Summary:

Variable	Name	Average Measure	Subindex
V _{CCANOPY}	Percent canpoy over channel.	Not Used, <20%	Not Used
V _{EMBED}	Average embeddedness of channel.	3.23	0.90
V _{SUBSTRATE}	Median stream channel substrate particle size.	6.35	0.98
V_{BERO}	Total percent of eroded stream channel bank.	17.00	0.98
V_{LWD}	Number of down woody stems per 100 feet of stream.	10.00	1.00
V_{TDBH}	Average dbh of trees.	Not Used	Not Used
V _{SNAG}	Number of snags per 100 feet of stream.	0.00	0.10
V _{SSD}	Number of saplings and shrubs per 100 feet of stream.	70.00	1.00
V _{SRICH}	Riparian vegetation species richness.	4.00	1.00
V _{DETRITUS}	Average percent cover of leaves, sticks, etc.	33.75	0.41
V _{HERB}	Average percent cover of herbaceous vegetation.	42.50	0.57
V _{WLUSE}	Weighted Average of Runoff Score for Catchment.	0.89	0.94

Version 10-20-17

			High-C							a	VCISIC	on 10-20-17
			LLC					l	_atitude/UTI	M Northing:	36.48614	
Pro	-							L	-			
									Sam	pling Date:	6-1-23	
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	·			ala	(determine)	u nom perce				PY <i>)</i>		_
2 Veneed at least one value between 0 and 19 to trigger Top Strata choice.) List the percent cover measurements at each point below: 2 Veneed Average embeddedness of the stream channel. Measure at no fewer than 30 roughly equidistant points along the stream. Select a particle from the bed. Before moving it, determine the percentage of the surface and area surrounding the particle that is covered by fine sediment, and enter the rating according to the following table. If the bed is an artificial surface, or composed of fine sediments, use a rating score of 1. If the bed is composed of bedrock, use a rating score of 5. Embeddedness rating for gravel, cobble and boulder particles (rescaled from Platts, Megahan, and Minshall 1983) Rating Rating Description 5 <5 percent of surface covered, surrounded, or buried by fine sediment (or bedrock) 4		¥										
_	V _{CCANOPY}	Average pe equidistant 20%, enter	points alon at least one	g the strean value betw	n. Measure reen 0 and 1	only if tree/s	sapling	cove	r is at least		0,	Not Used, <20%
	0											
2	V _{EMBED}	along the s surface and according t rating score	tream. Seled area surro to the following of the following	ect a particle unding the p ing table. If bed is com	e from the be particle that the bed is a sposed of be	ed. Before r is covered l an artificial s drock, use	moving i by fine s surface, a rating	it, de sedin or co scor	termine the nent, and er omposed of e of 5.	percentage ter the ratir fine sedime	e of the ng ents, use a	3.2
		Minshall 19	983)			ouider parti	0103 (10.	Scarc	ou month lat	is, ivicgariai	ii, aiiu	
					overed, sur	rounded, or	buried l	by fir	ne sediment	(or bedroc	k)	
			5 to 25 per	cent of surfa	ace covered	, surrounde	d, or bu	ried l	by fine sedir	ment]
		1	>75 percen	t of surface							ial surface)]
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	Enter partic	along the s cle size in in	tream; use t ches to the	the same po	ints and par inch at each	ticles as us n point belo	ed in V _E	MBED				6.35 in
	15.00	8.20	0.08	5.50	15.00	15.50]
	0.08											
4		Total perce	nt of eroded	stream cha	annel bank.	Enter the to						17 %
		may be up		10	O ft		Right Ba	ank:	7	ft		
Sample	n Variables	5 Q within t	ho ontiro ri	narian/huff	or zono adi	acont to the	n etroar	m ch	annol (25 fe	not from oa	och hank)	
		Number of stream rea	down woody	y stems (at l e number fr	east 4 inche om the entir ılated.	es in diamet e 50'-wide b	er and 3 ouffer ar	36 ind and wi	ches in leng	th) per 100 innel, and t	feet of	10.0
6	V_{TDBH}	Average di	oh of trees (i	measure on							e at least 4	
	155.1	inches (10	cm) in diam	eter. Enter	tree DBHs in	n inches.						Not Used
	r	the stream	below:									, ,
			Left Side						Right Side			
												1
												1
												1
]
7	V _{SNAG}		snags (at le stream, and						Enter numb	er of snags	on each	0.0
					0							
8	V _{SSD}		Left Side: saplings an		0		Right S)		

9 V _{SRICH} Riparian vegetation species richness per 100 feet of stream reach. Check all species program Group 1 in the tallest stratum. Check all exotic and invasive species present in all stratarichness per 100 feet and the subindex will be calculated from these data.			4.00								
			p 1 = 1.0						2 (-1.0)		
]	Acer rubrui			Magnolia ti	ripetala		Ailanthus al			Lonicera ja	ponica
	Acer sacch			Nyssa sylv							
]							Albizia julibr			Lonicera ta	
]	Aesculus fl	ava	Ø	Oxydendrun	n arboreum		Alliaria petio	olata		Lotus corniculatus	
	Asimina tril	oba	☐ Prunus serotina		☐ Alternanthera		Lythrum sa	icaria			
l	Betula alleg	phaniensis		Quercus a	lba		philoxeroide	es .		Microstegium vimine	
	Betula lent	а		Quercus co	occinea		Aster tatario	us			
	Carya alba			Quercus in	nbricaria		Cerastium f	ontanum		Polygonum o	cuspidatu
	Carya glab			Quercus p			Coronilla va	ria		Pueraria m	
	Carya oval	IS	7	Quercus ru	ubra		Elaeagnus ui	mbellata		Rosa multif	lora
	Carya ovat	а		Quercus ve	elutina		Lespedeza	bicolor		Sorghum h	alepens
	Cornus flor	rida	7	Sassafras	albidum		Lespedeza	cuneata		Verbena br	asiliensi
	Fagus grar	ndifolia		Tilia ameri	cana		Ligustrum ob	tusifolium			
	Fraxinus ai	mericana		Tsuga can	adensis		Ligustrum s	inense			
	Liriodendron			Ulmus ame			3				
		-		Ollilus allie	ciicaiia						
	Magnolia a	cuminata									
		4	Species in	Group 1				0	Species in	Group 2	
-		bplots sho u Average pe	rcent cover	of leaves,	equidistant sticks, or oth	ly along e er organic) in the ripari ach side of the material. Wo ayer at each s	he stream. ody debris			33.75
			Left	Side			Right	Side		1	
		60	60	50	40	5	0	5	0		
		40	80	40	70	10	20	20	40		
11	V_{HERB}					II. Because	II. Because there may be several layers of ground occepted. Enter the percent cover of ground vegeta				43 %
				Side			Right	Side		1	
		20	10	60	50	20	10	10	30		
					90	60	40	20	90		
					the stream.		40	20	90		
	Variable 1						40	20	90		
			verage of F	Runoff Score	the stream.	ned:	40	20	Runoff Score	% in Catchment	Runni
	V _{WLUSE}	Weighted A	verage of F Land	Runoff Score	the stream. e for watersh	ned:		20	Runoff Score	ment	Runnii Perce (not >10
	V _{WLUSE} Forest and n	Weighted A	Land	Use (Choos	the stream. e for watersh	ned:	40		Runoff Score	ment 83.7	Runnii Perce (not >10
	V _{WLUSE} Forest and n	Weighted A	Land	Use (Choos	the stream. e for watersh	ned:	40		Runoff Score	ment	Runnin Perce (not >10
	V _{WLUSE} Forest and n Open space	Weighted A	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:	40		Runoff Score	ment 83.7	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:	40		Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:	40		Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:			Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:			Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:		* * * * * * * * * * * * * * * * * * *	Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:		* * * * * * * * * * * * * * * * * * *	Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	V _{WLUSE} Forest and n Open space	Weighted A ative range (x	Land .75% ground	Use (Choos cover)	the stream. e for watersh se From Dro	ned:		* * * * * * * * * * * * * * * * * * *	Runoff Score	83.7 16	Runnii Perce (not >10 83.7
	Forest and n Open space Newly grade	Weighted A ative range (> (pasture, lawr d areas (bare	Land .75% ground is, parks, etc., soil, no vege	Use (Choos cover)	the stream. e for watersh se From Dro	ned:		* * * * * * * * * * * * * * * * * * *	Runoff Score	83.7 16	Runnii Perce (not >10 83.7
112	Forest and n Open space Newly grade	Weighted A ative range (x	Land .75% ground is, parks, etc., soil, no vege	Runoff Score Use (Choos cover) , grass cover tation or pav	the stream. e for watersh se From Dro >75% rement)	p List)	Not	▼	Runoff Score 1 0.3 0	ment 83.7 16 0.3	Runnin Perce (not >11 83.7 99.7 100
112	Forest and n Open space Newly grade	Weighted A ative range (x (pasture, lawr d areas (bare	Land .75% ground is, parks, etc., soil, no vege	Use (Choos cover) , grass cover tation or pav	the stream. e for watersh se From Dro >75% rement) as been rec	p List)	Not structed with	es:	Runoff Score 1 0.3 0	ment 83.7 16 0.3 WD and st	Runni Perce (not >1) 83.7 99.7 100
Ve	Forest and n Open space Newly grade Summary:	weighted A ative range (> (pasture, lawr d areas (bare SAA Numbe Value Not Used,	Land .75% ground is, parks, etc.) soil, no vege	Use (Choose Cover) The stream has banks. Sa	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov	p List) cently convide no ca	Not structed with	▼ ▼ ▼ ▼ ▼ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Runoff Score 1 0.3 0	ment 83.7 16 0.3 WD and steed for the r	Runnii Perce (not >1/1 83.7 99.7 100
Vee V	Forest and n Open space Newly grade Summary: ariable CCANOPY	ative range (> (pasture, lawr) d areas (bare) SAA Number Value Not Used, <20%	Land .75% ground .	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Perce (not >1/1 83.7 99.7 100
Vee V	Forest and n Open space Newly grade Summary:	weighted A ative range (> (pasture, lawr d areas (bare SAA Numbe Value Not Used,	Land 175% ground 18, parks, etc.; soil, no vege	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/1 83.7 99.7 100
Ve V	Forest and n Open space Newly grade Summary: ariable CCANOPY	ative range (> (pasture, lawr) d areas (bare) SAA Number Value Not Used, <20%	Land .75% ground .	Use (Choose Cover) , grass cover tation or pave Stream his banks. Segraded ar pre-law sl	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/1 83.7 99.7 100
Ve V	Forest and n Open space Newly grade Summary: ariable CCANOPY EMBED	ative range (> (pasture, lawr d areas (bare SAA Numbe Value Not Used, <20% 3.2 6.35 in	Land 75% ground is, parks, etc.; soil, no vege	Use (Choose Cover) , grass cover tation or pave Stream his banks. Segraded ar pre-law sl	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/1 83.7 99.7 100
Ve V	Forest and n Open space Newly grade Summary: ariable CCANOPY	ative range (x) (pasture, lawr) d areas (bare) SAA Numbe Value Not Used, <20% 3.2	Land 75% ground is, parks, etc.) soil, no vege	Use (Choose Cover) , grass cover tation or pave Stream his banks. Segraded ar pre-law sl	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/1 83.7 99.7 100
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Vee V V V V V V	Forest and n Open space Newly grade Summary: ariable CcANOPY EMBED Substrate BERO	weighted A ative range (x (pasture, lawr d areas (bare Value Not Used, <20% 3.2 6.35 in 17 % 10.0	Land 75% ground is, parks, etc.) soil, no vege er 1 VSI Not Used 0.90 0.98 0.98 1.00	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/1 83.7 99.7 100
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Vee V	Forest and n Open space Newly grade Summary: ariable CCANOPY EMBED SUBSTRATE BERO LWD TDBH SNAG	stive range (> (pasture, lawr) d areas (bare) Value Not Used, <20% 3.2 6.35 in 17 % 10.0 Not Used 0.0	Land 75% ground is, parks, etc.; soil, no vege Part 1 VSI Not Used 0.90 0.98 0.98 1.00 Not Used 0.10	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	newly ents the
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Vee V	Forest and n Open space Newly grade Summary: ariable CCANOPY EMBED SUBSTRATE BERO LWD TDBH SNAG	stive range (> (pasture, lawr) d areas (bare) Value Not Used, <20% 3.2 6.35 in 17 % 10.0 Not Used 0.0	Land 75% ground is, parks, etc.; soil, no vege Part 1 VSI Not Used 0.90 0.98 0.98 1.00 Not Used 0.10	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/1 83.7 99.7 100
\(\sigma \) \(\s	Forest and n Open space Newly grade Summary: ariable Ccanopy EMBED Substrate BERO LWD TDBH SNAG	sative range (x) (pasture, lawr) d areas (bare) Value Not Used, (20% 3.2 6.35 in 17 % 10.0 Not Used 0.0 70.0	Land 75% ground is, parks, etc.) soil, no vege er 1 VSI Not Used 0.90 0.98 1.00 Not Used 0.10 1.00	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/2 83.7 99.7 100
\(\sqrt{v} \) \(\sq	Forest and n Open space Newly grade Summary: ariable Ccanopy EMBED Substrate BERO LWD TOBH SNAG SRICH DETRITUS	sative range (> (pasture, lawr) d areas (bare Value Not Used, <20% 3.2 6.35 in 17 % 10.0 Not Used 0.0 70.0 4.00 33.8 %	Land 75% ground is, parks, etc.; soil, no vege er 1 VSI Not Used 0.90 0.98 1.00 Not Used 0.10 1.00 0.41	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Perce (not >10 83.7 99.7 100
Ve	Forest and n Open space Newly grade Summary: ariable CCANOPY EMBED SUBSTRATE BERO LWD TDBH SNAG SSD	sative range (x) (pasture, lawr) d areas (bare) Value Not Used, <20% 3.2 6.35 in 17 % 10.0 Not Used 0.0 70.0 4.00	Land 75% ground is, parks, etc.; soil, no vege er 1 VSI Not Used 0.90 0.98 1.00 Not Used 0.10 1.00	Use (Choose Cover) Output Ou	the stream. e for watersh se From Dro >75% rement) as been rec aplings prov ea. Land u	p List) pently convide no case in valle	Not structed with nopy cover by above is fo	es: n proper si	Runoff Score 1 0.3 0	wD and sted for the ralso represe	Runnin Percee (not >1/2 83.7 99.7 100

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