APPENDIX 7

Stream Assessments

Macroinvertebrate Collection

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Introduction

Macroinvertebrate monitoring is a valuable tool to measure the ecological health of a stream. Because they are considered to be more sensitive to local conditions and respond relatively rapidly to change, benthic (bottom-dwelling) organisms are considered to be the primary tool to document the biological condition of the streams. The numbers and kinds of animals present at a study site can be compared to an unimpacted reference site. For example, the presence of mayflies, stoneflies, and caddisflies (also called "EPT taxa") are indicators of good biological integrity, while many midge species are considered to be tolerant of degraded conditions. A stream with good biological integrity will have a good diversity of organisms present and not be dominated by one or two kinds of animals. This bioassessment technique results in a biological integrity value; the higher the value, the more ecologically healthy the stream.

Methods

Study Sites

- 1. Sand Creek at Brooks School Road
- 2. Sand Creek at 116th Street
- 3. Mud Creek at Madison/Hamilton County Line
- 4. Mud Creek at 116th Street
- 5. Mud Creek at 75th Street
- 6. Indian Creek at Marion/Hancock County Line
- 7. Indian Creek at 52nd Street
- 8. Indian Creek at Sunnyside Drive
- 9. Indian Creek below Indian Lake
- 10. Fall Creek below Geist Dam
- 11. Fall Creek at Emerson Avenue
- 12. Fall Creek at Meridian Street

Habitat Evaluation

The aquatic habitat at each study site was evaluated according to the method described by Ohio EPA [2]. This method results in values being assigned to various habitat parameters (e.g. substrate quality, riparian vegetation, channel morphology, etc.) and results in a numerical score for each site. Higher scores indicate higher aquatic habitat value. The maximum value for habitat using this assessment technique is 100. For quality control purposed, a duplicate assessment was conducted by a second person at site 3.

Sample Collection

Macroinvertebrate samples in this study were collected by dipnet in riffle areas where current speed approached 30 cm/sec. All samples were preserved in the field with 70% isopropanol and returned to the lab for sorting and analysis. Spring samples were collected on April 24 and 25, 2008. Fall samples were collected on October 15 and 20, 2008. A duplicate sample for quality control was collected at site 3 during the spring collections.

Laboratory Analysis

In the laboratory, a 100 organism subsample was prepared from each site by evenly distributing the animals collected in a white, gridded pan. Grids were randomly selected and all organisms within grids were removed until 100 organisms had been selected from the entire sample.

Each animal was identified to the lowest practical taxon (usually genus or species) using standard taxonomic references [4,5,6]. As each new taxon was identified, a representative specimen was preserved as a "voucher." All voucher specimens will ultimately be deposited in the Purdue University Department of Entomology collection. The list of animals found at each site number for both spring and fall collections may be found in the appendix.

Data Analysis (Macroinvertebrates)

Following identification of the animals in the sample, "metrics" were calculated for each site. These metrics are based on knowledge about the sensitivity of each species to changes in environmental conditions. The macroinvertebrate data from this study were analyzed by two different sets of metrics. Data were analyzed with the mIBI protocol developed by the Indiana Department of Environmental Management [3], which is based on taxonomic identification to the family level, and an adaptation of the Ohio EPA protocol [2], which is based on taxonomic identifications to the genus and species level. The maximum possible score with the Ohio EPA method is 60, while the mIBI has a maximum possible score of 8. To facilitate comparisons to habitat values, both biotic indices are also expressed as a percentage of the maximum possible score

Results

During spring collections, 41 macroinvertebrate genera belonging to 24 families were identified. Predominant families were Chironomidae (midges) and Elmidae (riffle beetles). The sediment-tolerant midge species *Orthocladius obumbratus* was the dominant organism at all but two sites (sites 10 and 11).

During fall collections, 63 macronvertebrate genera belonging to 27 families were collected. Predominant families were Chironomidae (midges), Hydropsychidae (net-spinning caddisflies), especially *Cheumatopsyche* spp., and Heptageniidae (flatheaded mayflies). Macroinvertebrate raw data are listed in the appendix.

Site	QHEI	Ohio EPA	Ohio EPA	IDEM mIBI	IDEM mIBI
Number	_	(spring)	(fall)	(spring)	(fall)
1	28	23	47	18	30
2	50	20	57	23	55
3	53	28	47	32	68
3 duplicate	56	20	*	20	*
4	50	37	53	38	68
5	67	37	30	28	38
6	31	23	50	28	50
7	58	20	43	18	30
8	59	47	60	18	65
9	70	33	37	28	40
10	73	17	37	23	53
11	76	33	67	33	70
12	54	33	47	23	50

Table 1. Results for habitat (QHEI) and macroinvertebrate (Ohio EPA and IDEM mIBI) assessments. Macroinvertebrate scores are expressed as a percentage of the total possible score. Derivation of scores is listed in the appendix.

* not applicable

Diagnosis

Comparison of habitat quality and biotic integrity

One of the most useful aspects of biological monitoring is the ability to use information about the way aquatic animals respond to different types of stress to diagnose a problem. For example, when aquatic habitat and biotic integrity are graphed in relation to each other, they form a straight line unless water quality is degraded [1]. Plus or minus 10% can be added to the graph to allow for a certain degree of measurement error. When values fall outside this range, water quality problems are suspected. A comparison of biotic integrity to habitat for this study is shown in Figures 1 and 2.

Figure 1. Comparison of Ohio EPA biotic index values to habitat values. Biotic index values are an average of spring and fall data and are expressed as a percentage of the total possible value.

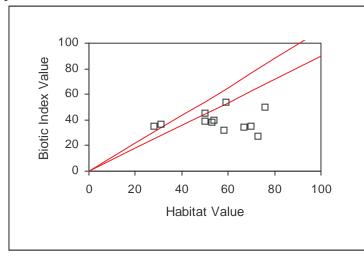
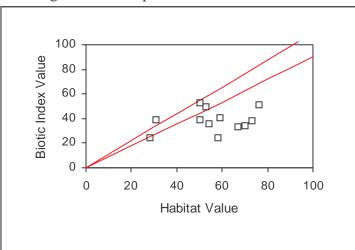


Figure 2. Comparison of IDEM macroinvertebrate biotic index values and habitat values. Biotic index values are an average of spring and fall data and are expressed as a percentage of the total possible value.



Examination of both graphs show similar patterns. Sites 5, 7, 9, 10, and 11 fall the farthest from the expected range in both graphs, which is likely the result of degraded water quality. When looking at the graph of Ohio EPA scores, sites 2, 3 and 12 group together moderately below the expected range, while on the graph of IDEM mIBI scores, sites 2, 8 and 12 are grouped together. These sites also have impaired water quality. The biotic integrity values at sites 1, 4 and 6 are within the range predicted by their habitat scores.

Primary water quality problem

The primary water quality problem in the study area appears to be silt. Extensive silt deposits were noted at several sites. Table 2 lists the silt tolerances of selected organisms

collected during the study. Although some silt intolerant organisms were present, the dominant forms were more frequently silt tolerant.

Organism	Silt Tolerance
Stenacron interpuctatum	Tolerant
Baetis intercalaris	Tolerant
Caenis spp.	Tolerant
Cheumatopsyche spp.	Tolerant
Hydropsyche betteni	Tolerant
Ceratopsyche bifida	Intolerant
Ceratopsyche sparna	Intolerant
Chimarra obscura	Intolerant
Orthocladius obumbratus	Tolerant

Table 2. Silt tolerances of selected organisms collected during 2008 study. [7]

Prioritization of sub-watersheds

1. Indian Creek (sites 6, 7, 8, and 9). Heavy silt deposits were observed at all sites in the Indian Creek subwatershed. Habitat at the most upstream site (6) was poor and was limited by lack of instream cover and riparian vegetation. Site 7 had the highest percentage (90%) of the sediment-tolerant midge *Orthocladius obumbratus* of any site during spring sampling. Site 8 had unstable riffle substrates that were embedded from silt deposits. Site 9 had few mayflies, was dominated by the planarian flatworm *Dugesia* in the fall collection, and had the most extensive silt deposits of any site in the study.

2. Fall Creek (sites 10, 11, and 12): Despite having a habitat score of 73, Site 10 had few mayflies, and was dominated by midges in the spring and the caddisfly *Cheumatopsyche* and blackfly larve (*Simulium* spp.) in the fall. This site is immediately below Geist Dam and may be affected by water quality problems within the reservoir, such as periodic dissolved oxygen deficits. Site 11 had the best habitat score (76) of all the study sites, but only had only fair biotic integrity, with one mayfly in the spring sample. The fall sample had good biotic integrity, with four mayfly species and three caddisfly species represented. Site 12 had few mayflies present, primarily *Stenacron interpuctatum*. Dominant organisms were the midge species *Orthocladius obumbratus* in the spring and the caddisfly genus *Cheumatopsyche* in the fall. Habitat quality was limited by a lack of in-stream cover and riparian vegetation.

3. Mud Creek (sites 3, 4, and 5): Habitat at the Mud Creek sites was good (QHEI scores of 50 to 67). The most downstream site (5) was observed to have moderate silt deposits and had impaired biotic integrity. The spring sample was dominated (50%) by *Orthocladius obumbratus* but had few mayflies, while the fall sample had no mayflies. Sites 3 and 4 had biotic integrity values closer to what would be expected based on the available habitat. Habitat quality at these sites was reduced by past channelization.

4. Sand Creek (sites 1 and 2). Site 1 had the poorest habitat (QHEI score of 28) of any of the study sites. There were heavy silt deposits, unstable substrates and evidence of recent channelization. Biotic integrity scores were close to what would be expected based on

available habitat. Site 2 had much better habitat (QHEI score of 50) with moderate levels of silt observed, but had very few mayflies in either the spring or fall collections. Both sites 1 and 2 were dominated by the midge *Orthocladius obumbratus* in the spring.

Recommendations

- 1. Control inflow of sediment and silt into streams throughout the Fall Creek watershed. Special emphasis should be placed on sediment control within the Indian Creek subwatershed.
- 2. Investigate the status of water quality in Geist Reservoir. Water quality problems within Geist Reservoir may be affecting biotic integrity downstream in Fall Creek.
- 3. Enhance habitat by planting riparian vegetation at sites where it is sparse or absent, for example, at the upstream site (6) of Indian Creek and the downstream site (12) of Fall Creek.
- 4. Avoid future channelization of streams. Sites 3 and 4 on Mud Creek are in the process of natural recovery from past channelization. Site 1 on Sand Creek showed evidence of recent channelization but also of a two-stage ditch construction project which holds the potential to improve habitat and water quality in the future.

References

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APPENDIX Macroinvertebrate Site Data Macroinvetebrate Metrics Data and Scoring Qualitative Habitat Evaluation Index (QHEI) Data

Spring macroinvertebrate data

			1	2	3	3 dpl.	4	5	6
Ephemeroptera	Baetidae	Baetis amplus			1		2	2	
	Heptagenidae	Stenacrom interpunctatum					3	2	
		Stenonema femoratum							
		S. terminatum							
	Caenidae	Caenis spp.	1						
Trichoptera	Hydropsychidae	Hydropsyche betteni	1	1			19	1	
· ·		Ceratopsyche bifida	1					1	
		Cheumatopsyche spp.		3	3		7	1	
	Hydroptilidae	Ochotrichia spp.			1	1			
	Philopotamidae	Chimarra obscura						2	
	Polycentropidae	Neureclpsis spp.							3
	Lepidostomatidae								
Plecoptera	Perlodidae	Isoperla spp.							6
Coleoptera	Elmidae	Stenelmis spp.	1	3	20	10	1	9	17
		Optioservus fastiditus		14	-		2	7	
		Macronychus glabratus			2				
	Psenpenidae	Psephenus herricki			11	7			
Odonata	Calopyterydae	Argia spp.				1			
	Coenagrioniidae	Hetaerina spp.							
Diptera	Simuliidae	Simulium spp.		8			10	3	8
	Tipulidae	Hexatoma spp.			1				
	Ceratopogonidae		1						
	Chironomidae	Thienemannimyia spp.	-		6			3	
		Orthocladius obumbratus	73	69	51	73	47	50	21
		Parametriocnemus lundbecki	20						
		Cricotopus bicinctus							3
		C. tremulus				4	2	11	-
		Eukiefferiella claripennis						4	2
		Polypedilum convictum			3	3	7		
		P. fallax			-		-		
		Dicrotendipes spp.						4	
		Paratendipes albimanus							
		Glyptotendipes lobiferus							
		Cryptochironomus fulvus							
		Parachironomus frequens							
		Rheotanytarus spp.							
Crustacea		Decapoda							
Isopoda		Caecodotea spp.	1						
		Lirceus spp.							40
Amphipoda									
Annelida		Oligochaeta	1	2	1	1			
		Hirudinea		_					
Bivalvia		Corbicula fluminea							
Platyhelminthes		Dugesia spp.							
total			100	100	100	100	100	100	100

			7	8	9	10	11	12
Ephemeroptera	Baetidae	Baetis amplus						
	Heptagenidae	Stenacrom interpunctatum	2	1	2		1	ç
		Stenonema femoratum		15				
		S. terminatum						4
	Caenidae	Caenis spp.	4	3	4			
Trichoptera	Hydropsychidae	Hydropsyche betteni						
· · ·		Ceratopsyche bifida					8	2
		Cheumatopsyche spp.			1	7	4	10
	Hydroptilidae	Ochotrichia spp.				1		
	Philopotamidae	Chimarra obscura						
	Polycentropidae	Neureclpsis spp.						
	Lepidostomatidae						1	
Plecoptera	Perlodidae	Isoperla spp.						
Coleoptera	Elmidae	Stenelmis spp.		2	2	1	24	
		Optioservus fastiditus		2	1			
		Macronychus glabratus						
	Psenpenidae	Psephenus herricki		8				
Odonata	Calopyterydae	Argia spp.	1	-				
	Coenagrioniidae	Hetaerina spp.						1
Diptera	Simuliidae	Simulium spp.		10	32	14	46	
	Tipulidae	Hexatoma spp.					1	
	Ceratopogonidae							
	Chironomidae	Thienemannimyia spp.			14			6
		Orthocladius obumbratus	90	19	12	5	9	53
		Parametriocnemus lundbecki						
		Cricotopus bicinctus			2	5	4	12
		C. tremulus						
		Eukiefferiella claripennis		7	19			
		Polypedilum convictum		2	4	33	2	
		P. fallax		5				
		Dicrotendipes spp.		2		5		
		Paratendipes albimanus		17				
		Glyptotendipes lobiferus			7	24		
		Cryptochironomus fulvus		2				
		Parachironomus frequens		-				3
		Rheotanytarus spp.		2				
Crustacea		Decapoda	1	~				
Isopoda		Caecodotea spp.						
1300000		Lirceus spp.		1				
Amphipoda			1	1		1		
Annelida		Oligochaeta		2		1		
		Hirudinea		2		1		
Bivalvia		Corbicula fluminea	1			1		
Platyhelminthes		Dugesia spp.				2		
r latylieli IIIIIIII les		Duyesia spp.				2		

Spring macroinvertebrate data, con't.

Fall Macroinvertebrate Data

			1	2	3	4	5	6
Ephemeroptera	Baetidae	Baetis flavistrigia		1				
		B. hageni				3		
	Heptageniidae	Stenacrom interpunctatum	3	1		1		1
		Stenonema femoratum	4					
	Caenidae	Caenis spp.	46					
Trichoptera	Hydropsychidae	Hydropsyche betteni		12	4	43	2	8
		Ceratopsyche bifida		2	1	8	2	
		C. sparna		4	8	11		
		Cheumatopsyche spp.	3	37	43	9	12	12
	Philopotamidae	Chimarra obscura			6			
Plecoptera	Perlidae	Perlinella spp.						
	Perlodidae						2	
Coleoptera	Elmidae	Stenelmis spp.			13	8		26
		Optioservus fastiditus		11		4	4	15
		Dubiraphia spp.	1					10
	Psephenidae	Psephenus herricki			12			
	Hydrophilidae	Berosus spp.			12			3
	Heliodidae							1
Odonata	Coenagrioniidae	Argia spp.	3		1			1
Odonata	Aeshnidae	Boyeria spp.	0		1			
Diptera	Simuliidae	Simulium spp.		5		6	60	
Diptora	Tipulidae	Tipula spp.		1	5	1	2	6
	Tipulidae	Antocha spp.		3	1	1	1	0
	Chironomidae	Ablabesmyia mallochi	4	5				
	Chirononnuae	Thienemannimyia spp.		4	2	1		6
		Orthocladius obumbratus		4	2	2	9	0
		Parametriocnemus lundbecki		1		2	1	1
		Cricotopus bicinctus		2			1	1
		Eukiefferiella bavarica		2	2		3	1
		Thienemanniella xena		2	2		3	
		Polypedilum convictum		2		1	1	7
		Dicrotendipes spp.	1	2		1	1	1
		Glyptotendipes lobiferus	4					
		Cryptochironomus fulvus	2					
		Endochironomus nigricans	4					
		<u> </u>	4	5				
		Microtendipes caelum		5				
Oriveteeee	laanada	Rheotanytarus spp.	4					
Crustacea	Isopoda	Caecodotea spp.	44					2
	A	Lirceus spp.	11	0		4		
A !' . ! .	Amphipoda			2		1	4	
Annelida	Oligochaeta		3				1	
Diveluie	Hirudinea		3	1				
Bivalvia	Sphaeridae		1					
Gastropoda	Ancylidae	Ferrissia spp.	-					
	Physidae	Physella spp.	1					
Platyhelminthes		Dugesia spp.			1			10
total			100	100	100	100	100	100

Fall Macroinvertebrate Data, con't.

				7	8	9	10	11	12
Ephemeroptera	Baetidae	B. intercalaris			1	2		18	6
	Heptageniidae	Stenacrom interpuncta	atum	53					
		Stenonema femoratun	n	5	5				
		S. terminatum						22	
		S. pulchellum						2	2
	Caenidae	Caenis spp.		1					
	Tricoryhidae	Tricorythodes spp.					4	5	
Trichoptera	Hydropsychidae	Hydropsyche betteni			14				
		H. orris						4	
		Ceratopsyche bifida			5			17	9
		C. sparna			9				
		Cheumatopsyche spp.			35	11	47	9	39
	Philopotamidae	Chimarra obscura			1	1			
Plecoptera	Perlidae	Perlinella spp.						1	
Coleoptera	Elmidae	Stenelmis spp.		2	6	17			9
		Macronychus glabratu	S					1	
	Psephenidae	Psephenus herricki			9				
Odonata	Coenagrioniidae	Argia spp.		4					
Megaloptera	Corydalidae	Corydalus cornutus						2	
Lepidoptera	Pyralidae							4	
Diptera	Simuliidae	Simulium spp.			2	6	26		11
	Tipulidae	Tipula spp.			4				
	Chironomidae	Thienemannimyia spp		2		4			4
		Orthocladius obumbra	tus	3	1			2	4
		Parametriocnemus lur	ndbecki	1					
		Cricotopus bicinctus			1		7	5	13
		C. trifascia							1
		Rheocricotopus robac	ki						1
		Thienemanniella xena			1	3			
		Polypedilum convictun	n		4	10	8		
		Phaenopsectra spp.		2					
		Dicrotendipes spp.		3		2		1	
		Chironomus spp.		5					
		Glyptotendipes lobifer	us	3		12	1	1	
		Microtendipes caelum		3	1	1		6	
		Rheotanytarus spp.		2					1
Crustacea	Isopoda	Caecodotea spp.			1				
		Lirceus spp.		2					
Annelida	Oligochaeta			1			1		
	Hirudinea			1		1	1		
Bivalvia	Sphaeridae					3			
Gastropoda	Ancylidae	Ferrissia spp.		7					
Platyhelminthes	-	Dugesia spp.				27	5		
total				100	100	100	100	100	100

				/			
Site	1	2	3	3 dpl	4	5	6
Substrate	6	12	16	16	14	15	5
Cover	3	7	7	10	7	11	4
Channel	3	11	9	10	9	14	7
Riparian	4	6	6	3	6	7	3
Pool/Current	4	5	5	4	5	8	4
Riffle/Rum	2	3	6	5	3	6	2
Gradient	6	6	6	8	6	6	6
Total QHEI	28	50	53	56	50	67	31

Qualitative Habitat Evaluation Index (QHEI) site data

Qualitative Habitat Evaluation Index (QHEI) site data

Site	7	8	9	10	11	12
Substrate	10	10	14	14	18	12
Cover	12	12	12	14	14	5
Channel	12	14	16	14	14	12
Riparian	8	8	9	10	8	3
Pool/Current	7	8	8	10	11	11
Riffle/Rum	3	1	3	5	5	5
Gradient	6	6	8	6	6	6
Total QHEI	58	59	70	73	76	54

Ohio EPA metrics data (spring)

Site	1	2	3	3 dpl.	4	5	6	7	8	9	10	11	12
# genera	9	7	11	8	10	14	8	7	16	12	13	10	9
# mayfly taxa	1	0	1	0	2	2	0	2	3	2	0	1	2
# caddisfly taxa	2	2	2	1	2	4	1	0	0	1	2	3	2
#diptera taxa	3	2	4	3	4	6	4	1	8	7	6	5	4
% tanitarsini	0	0	0	0	0	0	0	0	2	0	0	0	0
% mayflies	1	0	1	0	5	4	0	6	19	6	0	1	13
% caddisflies	2	4	4	1	26	5	3	0	0	1	8	13	12
% tolerant	1	2	1	1	0	4	3	0	9	9	35	4	12
%nontanytarsids & non-insects	96	79	62	81	66	75	74	93	67	90	91	62	74
% dominant	73	69	51	73	47	50	40	90	19	32	33	46	53

Ohio EPA metrics scoring (spring)

Site	1	2	3	3 dupl	4	5	6	7	8	9	10	11	12
# genera	2	2	2	2	2	4	2	2	4	2	2	2	2
# mayfly taxa	0	0	0	0	2	2	0	2	2	2	0	0	2
# caddisfly taxa	2	2	2	2	2	4	2	0	0	2	2	2	2
#diptera taxa	0	0	2	0	2	2	2	0	4	2	2	2	2
% tanitarsini	0	0	0	0	0	0	0	0	2	0	0	0	0
% mayflies	2	0	1	0	2	2	0	2	4	2	0	2	4
% caddisflies	2	2	2	2	6	2	2	0	0	2	2	4	4
% tolerant	6	6	6	6	6	6	6	6	6	6	0	6	4
%nontanytarsids & non-insects	0	0	2	0	0	0	0	0	0	0	0	2	0
% dominant	0	0	0	0	0	0	0	0	6	2	2	0	0
Ohio EPA score	14	12	17	12	22	22	14	12	28	20	10	20	20
standardized score	23	20	28.3	20	37	37	23	20	47	33	17	33	33

Ohio EPA metrics data (fall)

Site	1	2	3	4	5	6	7	8	9	10	11	12
# genera	17	18	13	14	13	15	18	16	14	9	15	11
# mayfly taxa	3	2	0	2	0	1	3	2	1	1	4	2
# caddisfly taxa	1	4	5	4	3	2	0	5	2	1	3	2
#diptera taxa	6	10	4	6	7	5	9	7	7	4	5	7
% tanitarsini	4	0	0	0	0	0	2	0	0	0	0	1
% mayflies	53	2	0	4	0	1	59	6	2	4	47	8
% caddisflies	3	55	62	71	16	20	0	64	12	47	30	48
% tolerant	11	2	0	0	1	1	19	1	14	9	7	13
%nontanytarsids & non-insects	36	32	11	13	78	33	33	15	69	49	15	34
% dominant	46	37	43	43	60	26	53	35	27	47	22	39

Ohio EPA metrics scoring (fall)

Site	1	2	3	4	5	6	7	8	9	10	11	12
# genera	4	4	2	4	2	4	4	4	4	2	4	2
# mayfly taxa	2	2	0	2	0	0	2	2	0	0	2	2
# caddisfly taxa	2	4	6	4	4	2	0	6	2	2	4	2
#diptera taxa	2	4	2	2	2	2	4	2	2	2	2	2
% tanitarsini	2	0	0	0	0	0	2	0	0	0	0	2
% mayflies	6	2	0	2	0	2	6	2	2	2	6	2
% caddisflies	2	6	6	6	4	6	0	6	4	6	6	6
% tolerant	4	6	6	6	6	6	4	6	4	6	6	4
%nontanytarsids & non-insects	4	4	6	6	0	4	4	6	0	2	6	4
% dominant	0	2	0	0	0	4	0	2	4	0	4	2
Ohio EPA score	28	34	28	32	18	30	26	36	22	22	40	28
Standardized score	47	57	47	53	30	50	43	60	37	37	67	47

IDEM mIBI metrics data (spring)

Site	1	2	3	3 dpl	4	5	6	7	8	9	10	11	12
Family HBI	6.01	5.66	5.29	5.7	5.48	5.52	6.22	5.97	5.57	5.9	5.86	5.19	5.69
No. of taxa	7	5	8	6	6	7	6	7	8	6	9	7	4
no. of individuals	200	>350	>350	>350	>350	200	>350	150	110	>350	200	160	150
% dominant	93	69	60	80	56	72	40	90	56	58	72	46	74
EPT index	2	1	3	1	3	4	2	2	2	3	2	3	2
ept count	6	20	25	5	155	18	31.5	9	22	25	16	22.4	37.5
ept count/total count	0.03	0.04	0.05	0.01	0.31	0.09	0.09	0.06	0.2	0.1	0.08	0.14	0.25
ept/chironomids	0.03	0.06	0.08	0.01	0.06	0.12	0.346	0.07	0.36	0.1	0.11	0.93	0.34
chironomid count	>146	>146	>146	>146	>146	144	>146	135	62	>149	144	24	111
ind/squares	>410	>410	>410	>410	>410	>410	>410	>410	<30	>410	>410	>410	>410

IDEM mIBI metrics scoring (spring)

Site	1	2	3	3 dpl	4	5	6	7	8	9	10	11	12
Family HBI	0	0	2	0	2	2	0	0	2	0	0	2	0
No. of taxa	0	0	2	0	0	0	0	0	2	0	2	0	0
no. of individuals	6	8	8	8	8	6	8	4	2	8	6	4	4
% dominant	0	0	2	0	2	0	4	0	2	2	0	2	0
EPT index	0	0	2	0	2	4	0	0	0	2	0	2	0
ept count	0	2	2	0	6	0	2	0	2	2	0	2	2
ept count/total count	0	0	0	0	2	0	0	0	2	0	0	2	2
ept/chironomids	0	0	0	0	0	0	0	0	0	0	0	0	0
chironomid count	0	0	0	0	0	2	0	2	2	0	2	4	2
ind/squares	8	8	8	8	8	8	8	8	0	8	8	8	8
mIBI	1.4	1.8	2.6	1.6	3	2.2	2.2	1.4	1.4	2.2	1.8	2.6	1.8
% of total possible	17.5	22.5	32.5	20	37.5	27.5	27.5	17.5	17.5	28	22.5	32.5	22.5

IDEM mIBI metrics data (fall)

Site	1	2	3	4	5	6	7	8	9	10	11	12
Family HBI	7.01	4.5	4.01	4.18	5.41	4.6	5.32	4.21	5.99	5.06	4.45	4.7
No. of taxa	11	9	9	8	7	10	9	11	9	7	9	6
no. of individuals	100	>350	>350	>350	>350	>350	120	>350	>350	>350	>350	>350
% dominant	46	55	56	71	60	41	58	63	32	47	30	48
EPT index	3	3	2	3	2	2	2	4	3	2	5	3
ept count	56	57	62	75	18	21	59	70	14	51	78	56
ept count/total count	0.56	0.57	0.62	0.75	0.18	0.21	0.59	0.7	0.14	0.51	0.78	0.56
ept/chironomids	2.667	2.85	15.5	18.75	1.286	1.4	2.46	10	0.438	3.188	5.2	2.33
chironomid count	21	20	4	4	14	15	24	7	32	16	15	24
ind/squares	<30	>410	>410	>410	>410	>410	<30	>410	>410	>410	>410	>410

IDEM mIBI metrics scoring (fall)

Site	1	2	3	4	5	6	7	8	9	10	11	12
Family HBI	0	6	8	6	2	6	2	6	0	4	6	4
No. of taxa	4	2	2	2	0	2	2	4	2	0	2	0
no. of individuals	2	8	8	8	8	8	2	8	8	8	8	8
% dominant	2	2	2	0	2	4	2	0	4	2	6	2
EPT index	2	2	0	2	0	0	0	4	2	0	4	2
ept count	4	4	4	4	0	2	4	4	0	4	4	4
ept count/total count	4	6	6	8	2	2	6	6	4	6	8	6
ept/chironomids	2	2	8	8	2	2	2	6	0	4	4	2
chironomid count	4	4	8	8	6	6	4	6	4	6	6	4
ind/squares	0	8	8	8	8	8	0	8	8	8	8	8
mIBI	2.4	4.4	5.4	5.4	3	4	2.4	5.2	3.2	4.2	5.6	4
% of total possible	30	55	68	67.5	38	50	30	65	40	52.5	70	50

ate: 1/25 Location: Location: <thlocation:< th=""> <thlocation:< th=""> <</thlocation:<></thlocation:<>	iver Code: Ø I	RMU: Stream:	Feel Creek	
Concert Full Name: C.M.D Affiliation: SUBSTRATE (Check ONLY Three Subdatiant Pre BOXES, Estimate & present POOL RIFFLE POOL RIFFLE SUBSTRATE (Check ONLY Three Subdatiant Pre BOXES, Estimate & present SUBSTRATE (Check ONLY Check ONLY Ch				I Rd.
SUBSTRATE (Check ONLY TreeSolustant/TPE BOXES; Editate's present SUBSTRATE (Check ONLY TreeSolustantsTYPE BOXES; Editate's Callary YTE POOL RIFLE COOL RIFLE Check ONE (OR 2 & AFERAGE) YTE DD400R/SILSS(10) DD400R/SILSS(10) Check ONE (OR 2 & AFERAGE) DD400R/SILSS(10) DD400R/SILSS(10) DD400R/SILSS(10) Sult THEAVY (2) DD400R/SILSS(10) DD400R/SILSS(10) DD400R/SILSS(10) Sult THEAVY (2) DD400R/SILSS(10) DD400R/SILSS(10) DD400R/SILSS(10) DS400R/SILSS(10) Sult THEAVY (2) DD400R/SILSS(10) DD400R/SILSS(10) DD400R/SILSS(10) DS400R/SILSS(10) DS400R/SILSS(10) DD400R/SILSS(10) DD400R/SILSS(10) DS400R/SILSS(10) DS400R/SILSS(10) DS400R/SILSS(10) DD400R/SILSS(10) DD400R/SILSS(10) DS400R/SILSS(10) DS400R/SILSS(10) MODERATE [2] More 20 SUBSTRATE TYPES: DD4 or More [2] D-400R/SILSS(10) DA00CARTE [2] D-400R/SILSS(10) MODERATE [2] MODERATE [2] More 20 SUBSTRATE TYPES: DD4 or More [2] D-400R/SILSS(10) MODERATE [2] More 20 COVER [1] D-400R/SILSS(10) MODERATE [2] MODERATE [2] MORE [2]	· · · · · · · · · · · · · · · · · · ·		ion:	
YPE POOL RIFLE POOL RIFLE SUBSITIATE CRIGIN SUBSITIATE CRIGIN D19-DR/RELEGYON DDG GANNEL [Y]	SUBSTRATE (Check Of	NLY Two SubstrateTYPE BO	XES; Estimate % present	
Display Relation Display Relation<			RIFFLE SUBSTRATE ORIGIN	
Discontinue orget Distribution orget Distributi		CI III -GRAVEL [7]	Check ONE (OR 2 & AVERAGE)	
DID COBBLE [8] DID DE PROCONST DI-RUE 101 DI-RUE 101 DI-RUE 101 DID AND CK [2] DID AND CK [2] DI-RUE 102 DI-RUE 101 DI-RUE 101 DID AND CK [2] DID AND CK [2] DI-RUE 102 DI-RUE 101 Max 20 DID AND CK [2] DID AND CK [2] DI-RUE 102 DI-RUE 101 Max 20 DID AND CK [2] DID AND CK [2] DI-RUE 102 DI-RUE 101 Max 20 UNBER OF SUBSTRATE TYPES: DI-AND TWE 101 DI-RUE 101 Max 20 UNBER OF SUBSTRATE TYPES: DI-AND TWE 101 DI-RUE 101 Max 20 UNBER OF SUBSTRATE TYPES: DI-AND TWE 101 DI-RUE 101 Max 20 UNBER OF SUBSTRATE TYPES: DI-AND TWE 101 DI-RUE 101 Max 20 UNBER OF SUBSTRATE TYPES: DI-RUE 101 DI-RUE 101 Max 20 UNBER OF SUBSTRATE TYPES: DI-RUE 101 AND MAX [2] Max 20 UNBER OF SUBSTRATE TYPES: DI-RUE 101 AND MAX [2] Max 20 UNDER OF SUBSTRATE TYPE STORE ANT TWE AND TWE	D-BOULDER [9]	CI) SAND [6]		Cub
Difference of the set of	COBBLE [8]	DIMBEDROCK[5]		E-SILI MODERATE [-1]
Display [2] Interfed Source Subgroup Conductor Interfed Source Subgroup Conductor <td>DHARDPAN [4]</td> <td> DEDERATUS[3]</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>	DHARDPAN [4]	DEDERATUS[3]	· · · · · · · · · · · · · · · · · · ·	
ALSON: [12] From Point Bounces FRIP/RAP [0] NESS: D_ADDERATE [1-1] NUMBER OF SUBSTRATE TYPES: DB4 or More [2] D-LACUSTRINE [0] ANORMAL [0] SINSTREAM COVER Give aschbrower type a score of to bas see back for instructions) MACUNT: (Check ONLY One or or or back as and AVERAGE) ANOUNT: (Check ONLY One or or back as and AVERAGE) LINSTREAM COVER Give aschbrower type a score of to bas, see back for instructions) MACUNT: (Check ONLY One or or or or back as and AVERAGE) ANOUNT: (Check ONLY One or or or back as and AVERAGE) LINSTREAM COVER Give aschbrower type a score of to bas, see back for instructions) MACUNT: (Check ONLY One or				
NUMBER OF SUBSTRATE TYPES: ID:4 or More [2] ID:4 cr More [2] ID:4 cr More [2] ID:4 cr More [2] ID:4 cr More [1] ID:001 [11] ID:0	10-61LT [2] X		- Andreastorica [o] -	
High Quality Only, Scare 5 or 3) A or Less [0] D-SHALE [-1] D-NONE [1] COMMENTS D-COAL FIPS [-2] AMCUNT: (Check ONLY One or Cover type a score of 10 3; see back for instructions) AMCUNT: (Check ONLY One or Cover type a score of 10 3; see back for instructions) AMCUNT: (Check ONLY One or Cover type a score of 10 3; see back for instructions) (Structure) INTPRE Score All Tail Occur				
COMMENTS D-COAL FINS [-2] COMMENTS D-COAL FINS [-2] 2) INSTREAM COVER (Give eachings over 10 to 0; bo 3; ase back for instructions) AMOUNT: (Check ONLY One or check 2 and AVERAGE) Cover dide check 2 and AVERAGE) 2) INSTREAM COVERT (I) POOLS 70 cm [2] OXBOWS, BACKWATERS [1] - MODENTE 25-75% [1] 3 2) INSTREAM COVERT (I) POOLS 70 cm [2] OXBOWS, BACKWATERS [1] - MODENTE 25-75% [1] 3 2) OVERNANGING VEGETATION (STABLET) - MODENTE 25-75% [1] - MODENTE 25-75% [1] - MODENTE 25-75% [1] 3 2) CHANCE (WORTHOLD COMMENTS) COMMENTS: - MODENTS - MODENTS - MARKIY ABSENT + 5%[1] - MODENTS 3) CHANNE (I) D- GOND [5] D - HONE [6] D - HIGH [4] D - MORENTS - MARKIY ABSENT + 5%[1] - MODENTS 3) CHANNE (I) D - GOND [5] D - HONE [6] D - HIGH [2] D - MODENTS - MARKIY ABSENT + 5%[1] - MODENTS 3) CHANNE (I) D - GOND [5] D - HONE [6] D - HIGH [2] D - MODENTS - MODENTS - MODENTS 3) CHANNE (I) D - GOND [5] D - HONE [6] D - MODENTS D - MODENTS - MARKIY ABSENT + 5%[1] - MODENTS 1) COWENT				
2] INSTREAM COVER (Give eachingwer type a score of 0 to 3; see back for instructions) AUDERCIT EVENCE (Give eachingwer type a score of 0 to 3; see back for instructions) AUDERCIT EVENCE (Give eachingwer type a score of 0 to 3; see back for instructions) AUDERCIT EVENCE (Give eachingwer type a score of 0 to 3; see back for instructions) AUDERCIT EVENCE (Give eaching of the 0 court autoescur tasks [1]		A S OF Less [0]		
(Structure) TMPEE: Score All That Occur check 2 and AVERAGE)		The acatherent time a score		AMOUNT: (Check ONLY One or
		ITYPE: Score All Tha	Occur	
OVERHANGING VEGETATION [1] ROOTWADE [1]				
SHALLONS (N SLOW WATER) [1]				- MODERATE 25-75% [7]
3] CHANNEL MORPHOLOGY: Chimok ONLY One PER Category OR check 2 and AVERAGE 1 Channel 3] CHANNEL MORPHOLOGY: Chimok ONLY One PER Category OR check 2 and AVERAGE 1 Channel SINUSTY DEVELOPMENT CHANNELIZATION STABLITY MODIFICATIONS/OTHER Channel SINUSTY DEVELOPMENT CHANNELIZATION STABLITY MODIFICATIONS/OTHER D- WOOLNO. Image: Channel SINUSTY DEVELOPMENT CHANNELIZATION STABLITY MODIFICATIONS/OTHER D- WOOLNO. Image: Channel D- NORE (1) D- RECOVERIO (4) CHANNELIZATION D- NORE (1) D- NORE (1) Max 20 COMMENTS: D- FAR (3) D- RECOVERY (4) D- CONE SIDE CHANNEL ANDIFICATIONS Max 20 COMMENTS: Image: Covery (4) D- COVER SIDE CHANNEL ANDIFICATIONS Max 20 COMMENTS: Image: Covery (4) D- COVER SIDE CHANNEL ANDIFICATIONS Max 20 COMMENTS: Image: Covery (4) D- Cover Side CHANNEL ANDIFICATIONS Max 20 COMMENTS: Image: Covery (4) D- Cover Side CHANNEL ANDIFICATIONS Max 20 D- WORD > Side (4) Image: Covery (4) D- Cover Side CHANNEL ANDIFICATION SIDE CALL Max 10 D- WORD > Sid	ROOTMATS [1] COM	MENTS.		
SINUSTIY DEVELOPMENT CHANNELIZATION STABLITY MODIFICATIONS/OTHER CHANNELIZATION D- HIGH [4] D- EXCELLENT [7] D- NONE [6] D- HIGH [3] D- SNAGGING D- WOURN. D- SLANDS D- MODE [1] D- EXCELLENT [7] D- NONE [6] D- HIGH [3] D- SNAGGING D- UNPOUND. D- SLANDS D- LOW [2] D- FAR [3] D- RECOVERED [4] D- MODENATE [2] D- RELOCATION D- ISLANDS Max 20 D- NONE [1] M- RECOVERT [0 RO D- DREDGING D- BARK SHAPING QF. NONE [1] M- RECOVERY [1] D- NECOVERY [1] D- DREDGING D- BARK SHAPING QF. NONE [1] M- RECOVERY [1] D- DREDGING D- DREDGING D- NORE SHAP MODIFICATIONS COMMENTS: MIRARIAN ZONE AND BANK BROSION Check ONE box per bark or check 2 and AVERAGE per bark) P River Right Looking Dowristra DI-WIDE STOM [4] D DEPERST, SWAP [3] D- CONE NUME (1] D- NORE MARK EROSION DI-WIDE STOM [4] D DEPERST, SWAP [3] D D- NORE/UTTLE [3] D - NORE/UTTLE [3] DI-WIDE STOM [4] D DEPERST, SWAP [3] D - HORE/UTTLE [3] D - HORE/UTTLE [3] D-MORE ARE DOST [3] D DEPERST, SWAP [3]			ER Category OR check 2 and AVERAC	GE)
D: MODERATE [3] D: GOOD [5]] D: RECOVERED [4] D: MODERATE [2] D: CANOPY REMOVAL D: LEVEED Max 20 D: LOW [2] D: FAIR [3] D: RECOVERING [3] X: LOW [1] D: CANOPY REMOVAL D: LEVEED Max 20 G: NONE [1] Q: POOR [1] NECOVERING [3] X: LOW [1] D: OREOGION D: DREOGNOM D: LEVEED Max 20 G: NONE [1] Q: POOR [1] NECOVERY [1] D: OREOGNOM D: OREOGNOM D: Leveed Max 20 G: NONE [1] Q: POOR [1] NECOVERY [1] D: ONDERATE IOSON (Check ONE box per bank or chock 2 and AVENAGE per bank) Priver Right Looking Downstree BIPARIAN WIDTH L R (Most Predominant Per Bank) L R (Per Bank) D: ONDER/LITLE [2]			TON STABILITY MODIFICA	TIONS/OTHER CI
D - LOW [2] D - FAIR [3] D - RECOVERING [3] X - LOW [1] D - CANOPY REMOVAL D - LEVEED Max 20 C NONE [1] A - POOR [1] A - RECENT OR NO RECOVERY [1] D - RECOVER [1] A - RECENT OR NO RECOVERY [1] D - RECOVER [1] D - RECOVER [1] D - DREDGING BANK SHAPING COMMENTS: 4], RIPARIAN ZONE AND BANK ERROSION (check ONE box per bank or check 2 and AVERAGE per bank) P River Right Looking Downstread RIPARIAN WIDTH LOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) L R (Per Bank) 1, R (Per Bank) L, R ((Most Predominant Per Bank) L, R (Per Bank) L, R (fMost Predominant Per Bank) L, R (D - MODERATE 10-Som [3] D DSHRUB OR OLD FIELD [2] D - URBAN OR INDUSTRIAL [0] D - NONE (LITTLE [3] D - MODERATE 10-Som [3] D DSHRUB OR OLD FIELD [2] D - URBAN OR INDUSTRIAL [0] D - NONE (LITTLE [3] D - MODERATE 10-Som [3] D DSHRUB OR OLD FIELD [2] D - URBAN OR INDUSTRIAL [0] D - NONE (LITTLE [3] D - NONE (0] COMMENTS: 5.]PCOL/GLIDE AND RIFFLE/RUNIXQUALITY MAX. DEPTH MUSTRIME (0] D - HENCED PASTURE [1] D - MONE (CONSTRUCTION 10] D - NONE [0] COMMENTS: 5.]PCOL/GLIDE AND RIFFLE/RUNIXQUALITY MAX. DEPTH MUSTRIME (0] D - HENCED PASTURE [1] D - MOREMINAL[-1] D - O.7-Im [4] SC-POOL WIDTH - RIFFLE WIDTH [2] D - EDDIES[1] D - FORRENTIAL[-1] D - O.7-Im [4] SC-POOL WIDTH - RIFFLE WIDTH [2] D - FORRENTIAL[-1] D - O.7-Im [4] SC-POOL WIDTH - RIFFLE WIDTH [2] D - MORE [2] D - MORE [2] COMMENTS: CHECK ONE OR CHECK: 2 AND AVERAGE NIFTLE DEPTH NEAR POOL OF CHECK: 2 AND AVERAGE RIFFLE DEPTH RIFFLE WIDTH [2] D - MORE [2] D - MORE [2] MER B Areas 5-10 cm [2] D - MAX > 50[1] D - MAX > 50[1] D - MORE [2] D - MORE [2] MER A REAS < 5 cm. [RIFFLE DEPTH RIFFLE WIDTH [3] D - MORE [2] D - MORE [2] MER B AREAS > 50[1] D - MAX > 50[1] D - MOX > 50[1] D - MORE [2] MER A REAS < 5 cm. [RIFFLE DEPTH RIFFLE WIDTH [2] D - MORE [2] D - MORE [2] MER B AREAS > 50[1] D - MAX > 50[1] D - MOX > 50[1] D - MOX = 50[1] D - MOX = [2] D - MORE [2] MER B AREAS < 5 cm. [RIFFLE DEPTH RIFFLE WIDTH [2] D - MOX = SIFFLE [2] COMMENTS: D - MOR RIFFLE [MERTINCE [2] MER A REA [3- HIGH [4] D- I	EXCELLENT [7] D-NONE [6]		
Image: None [1] Image: Pool [1] <tdi< td=""><td></td><td></td><td></td><td></td></tdi<>				
ALT-NONE [1] RECOVERY [4] D - ONE SIDE CHANNEL MODIFICATIONS COMMENTS: D - ONE SIDE CHANNEL MODIFICATIONS COMMENTS: International control of the state of check 2 and AVERAGE per bank) PRiver Right Looking Downstreat 41, RIPARIAN ZONE AND BANK EBROSION(check ONE box per bank or check 2 and AVERAGE per bank) PRiver Right Looking Downstreat 12, NPARIAN WIDTH ELOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION 12, NPARIAW WIDTH ELOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) EANK EROSION 12, NPARIAW WIDTH ELOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) EANK EROSION 12, NPARIOW S-10 m [3] D DEFENST, SWAMP [3] D -NONE [1] D -NONE [0] 12, NPARIOW S-10 m [3] D DEFENSTOR [1] D -NONE [0] D -NONE [0] 12, NPARIOW S-10 m [3] D DEFENSTOR [1] D -NONE [0] Control [1] D -NONE [0] 13, DEPCH MUTRPHOLOGY CURRENT VELOCITY [POOLS & RIFFLES] Current 14, REPORT MUTRPHOLOGY CURRENT VELOCITY [POOLS & RIFFLES] Current 14, OLD FOOL WIDTH = RIFFLE WIDTH [1] D -REDRIES[1] D -NORE [1] D -NORE [1] Max 12 15, O -0.2 m [1] D -POOL WIDTH = RIFFLE WIDTH [1] D -REDRIES[1]				
COMMENTS: Intervention In	A NONE [1] AL-	POOR [1]] AL BECENT	OR NO DI-UKEL	
S. POOL/GLIDE AND RIFFLE/RUNNOQUALITY MURPHOLOGY CURRENT VELOCITY I POOLS & RIFFLESI] Pool/ Current MAX. DEPTH MURPHOLOGY CURRENT VELOCITY I POOLS & RIFFLESI] Current Check 1 ONLYI) (Check 1 or 2 & AVERAGE) (Check All That Apply) Urrent D - >tm [6] D-POOL WIDTH > RIFFLE WIDTH [1] D-EDDIES[1] D-TORRENTIAL[-1] Urrent D - 0.7-Im [4] M.POOL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-INTERSTITIAL[-1] Max 12 Max 12 D-POOL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-INTERSTITIAL[-1] Max 12 Max 12 D-POOL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-INTERSTITIAL[-1] Max 12 Max 12 D-POOL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-INTERSTITIAL[-1] Max 12 Max 12 D-POOL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-INTERSTITIAL[-1] Max 12 Max 0.2.0.4m [1] D-POOL ON MARKENTS: CHECK ONE OR CHECK 2 AND AVERAGE Riffle/Run Max 12 Max 12 CHECK ONE OR CHECK 2 AND AVERAGE Riffle/Run Riffle/Run Max 8 D-Stable (e.g., Cobble, Boulder) [2] D-NORE [2] Max 8 Q Best Areas 5.10 cm [1]	I]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u>	BANK BROSION check ONE FLOOD PL	1] D-ÓNE E box per bank or check 2 and AVERAGE p AIN QUALITY (PAST 100 Meter RIPAR)	SIDE CHANNEL MODIFICATIONS Rer bank) PRiver Right Looking Dor <u>AN) <u>BANK EROSION</u> Ri L R (Per Bank) (T</u>
MAX. DEPTH MUTRPHOLOGY CURRENT VELOCITY [POOLS & RIFFLES!] Current (Check 1 ONLYI) (Check 1 or 2 & AVERAGE) (Check All That Apply) (Check All That Apply) D- >tm [6] D-POCL WIDTH> RIFFLE WIDTH [2] D-EDOIES[1] D-TORRENTHAL[-1] (L) D- 0.7-tm [4] M-POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (L) D- 0.7-tm [4] M-POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (Max 12 D- 0.7-tm [4] M-POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (Max 12 D- 0.7-tm [4] M-POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (Max 12 D- 0.2-0.4m [1] D-POCL=0] COMMENTS: D-VERY FAST[1] (Max 12 D- 0.2-0.4m [1] D-POCL=0] COMMENTS: (D) STABLE (e.g., Cobble, Boulder) [2] D-NORE [2] Max 8 RIFFLE DEPTH RIFFLE DEPTH RIFFLE /RUN SUBSTRATE (D) Max 8 M- Best Areas 5-10 cm [2] D- MAX > 50 [2] D-STABLE (e.g., Cobble, Boulder) [2] D -NORE [2] (D) Max 8 MUNSTABLE (Fine Gravel, Sand) [0] C MODERATE [0] (Gradien D)	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) D - WIDE > 50m [4] D - MODERATE 10-50m [2] D - MARROW S-10 m [2] D - VERY NARROW <5 m [2]	BANK ERROSION(check ONE FLOOD PL L. R (IMost Predominant F D. DFEDREST, SWAMP [3] D. D-SSHRUB OR OLD FIELD D. DHESIDENTIAL, PARK, NE	Image: the second se	SIDE CHANNEL MODIFICATIONS Her bank) PRIVER Right Looking Dor <u>AN</u> <u>BANK EROSION</u> Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] [AL [0] D R -MODERATE [2] CROP (U) D D -HEAVY/SEVERE(1) ^M
MAX. DEPTH MITRPHOLOGY CURRENT VELOCITY [POOLS & RIFFLES!] Current (Check 1 ONLYI) (Check 1 or 2 & AVERAGE) (Check All That Apply) (Check All That Apply) D- >tm [6] D-POCL WIDTH> RIFFLE WIDTH [2] D-EDDIES[1] D-TORRENTHAL[-1] (LIRENT VELOCITY [POOLS & RIFFLES!] D- >tm [6] D-POCL WIDTH> RIFFLE WIDTH [2] D-EDDIES[1] D-TORRENTHAL[-1] (LIRENT VELOCITY [POOLS & RIFFLES!] D- 0.7-1m [4] Max POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (LIRENT TENT]-2] D- 0.2-0.4m [1] D-POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (Max 12 D- 0.2-0.4m [1] D-POCL WIDTH = RIFFLE WIDTH [1] D-FAST[1] D-MTERSTITAL[-1] (Max 12 D- 0.2-0.4m [1] D-POCL WIDTH = RIFFLE WIDTH [1] D-MODERATE [1] D-MERY FAST[1] (Max 12 D- 0.2-0.4m [1] D-POCL_OP COMMENTS: D-VERY FAST[1] (Max 10 D- Stable (DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS (Q) D- Best Areas >10 cm [1] AX > 50 [2] D-STABLE (e.g., Cobbie, Boulder) [2] D - NONE [2] (D - NONE [2] D- Best Areas >10 cm [1] AX × 50[1] D-MOD. STABLE (4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) D - WIDE > 50m [4]. D - MODERATE 10-50m [2] D - MORERATE 10-50m [2] D - NARROW 5-10 m [2] D - NONE [0]	BANK ERROSION(check ONE FLOOD PL L. R (IMost Predominant F D. DFEDREST, SWAMP [3] D. D-SSHRUB OR OLD FIELD D. DHESIDENTIAL, PARK, NE	Image: the second se	SIDE CHANNEL MODIFICATIONS Her bank) PRIVER Right Looking Dor <u>AN</u> <u>BANK EROSION</u> Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] [AL [0] D R -MODERATE [2] CROP (U) D D -HEAVY/SEVERE(1) ^M
(Check 1 ONLY!) (Check 1 or 2 & AVERAGE) (Check All That Apply) D - >tm [6] D -POGL WIIDTH > RIFFLE WIDTH [2] D -EDDIES[1] D -TORRENTIAL[-1] D - 0.7-1m [4] M-POOL WIIDTH = RIFFLE WIDTH [1] D -FAST[1] D -INTERNITIAL[-1] D - 0.4-0.7m [2] D -POSL WIIDTH = RIFFLE WIDTH [1] D -FAST[1] D -INTERNITIAL[-1] D - 0.4-0.7m [2] D -POSL WIIDTH < RIFFLE W. [0]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D - WIDE > 50m [4]. D - MODERATE 10-50m [2] D - MORDERATE 10-50m [2] D - NORE [0] COMMENTS:	BANIK HEROSION(check ONE FLOOD PL L R ([Most Predominant F D D FEDREST, SWAMP [3] D D SSHIRUB OR OLD FIELD D D PESTIDENTIAL, PARK, NE 1] D D -FRENCED PASTURE [1]	Image: the second se	SIDE CHANNEL MODIFICATIONS Ref bank) PRIVER Right Looking Dor AN BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE [4] ^M TON [0]
D - >tm [6] D -POGL WNDTH > RIFTLE WDTH [2] D -EDDIES[1] D -TORRENTIAL[-1] D - 0.7-1m [4] M POOL WNDTH = RIFTLE WDTH [1] D -FAST[1] D -INTERSTITIAL[-1] Max 12 D - 0.4-0.7m [3] D -POGL WNDTH = RIFTLE W. [0] D -FAST[1] D -INTERSTITIAL[-1] Max 12 D - 0.4-0.7m [3] D -POGL WNDTH < RIFFLE W. [0]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) D - WIDE > 50m [4]. D - MODERATE 10-50m [2] D - MORERATE 10-50m [2] D - MARROW S-10 m [2] D - NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF	BANK HEROSION(check ONE FLOOD PL L R ([Most Predominant F D D FEDREST, SWAMP [3] D D SSHIRUB OR OLD FIELD D D MESIDENTIAL, PARK, NE 1] D D - FRENCED PASTURE [1] FLE/ROUNNOQUALITY	Image: Alternative state Image: Alternative state Image: Alternative state <td>SIDE CHANNEL MODIFICATIONS Her bank) P River Right Looking Dor <u>AN</u> <u>BANK EROSION</u> Ri L R (Per Bank) JGE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE(1)^M TON [0]</td>	SIDE CHANNEL MODIFICATIONS Her bank) P River Right Looking Dor <u>AN</u> <u>BANK EROSION</u> Ri L R (Per Bank) JGE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE(1) ^M TON [0]
D - 0.7-1m [4] AI-POOL VMIDTH = RIFFLE WIDTH [1] D -FAST[1] D -INTERSTITIAL[-1] Max 12 D - 0.4-0.7m [3] D -POOL VMIDTH < RIFFLE W. [0]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [2] DD- MODERATE 10-50m [2] DD- MARROW 5-10 m [2] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u>	BANK HEROSION check ONE FLOOD PL L R ([Most Predominant F D D FEDREST, SWAMP [3] D D SSHIRUB OR OLD FIELD D D MESIDENTIAL, PARK, NE 1] D D - FIELD PASTURE [1] FLE/RUINNQUALITY MUTRPHOLOGY	Image: All of the second se	SIDE CHANNEL MODIFICATIONS Ref bank) P River Right Looking Dor AN BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE(1] ^M TON [0] ITTY [POOLS & RIFFLES1] C
D - 0.4-0.7m [1] D - POOL WRIDTH < RIFFLE W. [0]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [2] DD- MODERATE 10-50m [2] DD- MORE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI).	BANK HEROSION check ONE FLOOD PL L R ([Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] FLE/RUNNOQUALITY MUTRPHOLOGY (Cheeck 1 of 2 & AVERA	Image: State	SIDE CHANNEL MODIFICATIONS Ref bank) P River Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE(1] ^M TON [0] I D -HEAVY/SEVERE(1] ^M I D -HEAVY/SEVERE(1) ^M
C - 0.2- 0.4m [1] C - VERY FAST[1] C - 0.2m [POOL=0] C - VERY FAST[1] C - 0.2m [POOL=0] C - VERY FAST[1] C - 0.2m [POOL=0] C - VERY FAST[1] C - VERY FAST[1] R - VERY FAST[1] D - Sest Areas > 10 cm [2] M - VERY FAST[1] B - VERY FAST[1] D - NORE [2] M - NORE [2] M - VERY FAST[1] D - NOR FIFLE [Metric-RUN EMBEDDEDNESS M - VERY FAST[1] D - Best Areas - 5 cm D - NO RIFFLE [Metric-0) D - EXTENSIVE [-1] COMMENTS : D - NO	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) D - WIDE > 50m [4]. D - MODERATE 10-50m [2] D - MODERATE 10-50m [2] D - MORE [0] COMMENTS: 5.]POIOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLY]. D - >1m [6]	BANIK HIROSION(check ONE FLOOD PL L R ([Most Predominant F D D FEDREST, SWAMP [3] D D SSHIRUB OR OLD FIELD D D SSHIRUB OR OLD FIELD D D PSTURE [1] T D D FEDREST SWAMP [3] FLE/RUNNOQUALITY <u>MUTRPHOLOGY</u> (Check 1 or 2 & AVERA D POGL WINDTH > RIFFLE WID	Image: State of the state o	SIDE CHANNEL MODIFICATIONS Ref bank) P River Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE(1) ^M TON [0] CROP (U) D D D-HEAVY/SEVERE(1) ^M INN [0] CHY [POOLS & RIFFLES1] C AL THAL APPLY) D-TORRENTIAL[-1]
Image: Comparison of the construction of the construle of the construction of the construction	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-50m [2] DD- MODERATE 10-50m [2] DD- MONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] D- 0.7-1m [4]	BANK HEROSION(check ONE FLOOD PL L. R ([Most Predominant F D. D.FEDREST, SWAMP [3] D. D.FEDR	Image: State of the state o	SIDE CHANNEL MODIFICATIONS Ref bank) P River Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE(1) ^M TON [0] CROP (U) D D D-HEAVY/SEVERE(1) ^M ID THEAVY/SEVERE(1) D-TORRENTIAL[-1]
CHECK ONE OR CHECK 2 AND AVERAGE Riffle DEPTH RUN DEPTH RIFFLE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS 2 II - Best Areas >10 cm [2] II - MAX > 50 [2] II - STABLE (e.g., Cobble, Boulder) II - NONE [2] II - NONE [2] II - NONE [2] II - Best Areas < 10 cm [1]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4] DD - MODERATE 10-50m [2] DD - MODERATE 10-50m [2] DD - MONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D - >1m [6] D - 0.4-0.7m [2]	BANK HEROSION(check ONE FLOOD PL L. R ([Most Predominant F D. D.FEDREST, SWAMP [3] D. D.FEDR	Image: State of the state o	SIDE CHANNEL MODIFICATIONS Her bank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] GROP (U) D D -HEAVY/SEVERE [1] ^M TORP (U) D D -HEAVY/SEVERE [1] ^M INN [0] CROP (U) D D -HEAVY/SEVERE [1] ^M CROP (U) D D D D D D D D D D D D D D D D D D D
CHECK ONE OR CHECK 2 AND AVERAGE RIFFLE DEPTH RIFFLE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS 2 ID - Best Areas >10 cm [Z] ID - MAX > 50 [Z] ID STABLE (e.g., Cobble, Boulder) [Z] ID - NONE [Z] Max.8 ID - Best Areas >10 cm [T] ID - MAX > 50 [I] ID MOD. STABLE (e.g., Large Gravel) [1] ID - LOW [1] Max.8 ID - Best Areas < 5 cm [RIFFLE=0] ID - MAX < 50[1]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD-WIDE > 50m [4] DD-MODERATE 10-50m [2] DD-MONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] D- 0.2-0.1m [4] 2- 0.2-0.4m [1]	BANK HEROSION check ONE FLOOD PL 1. R ([Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] D D SSHRUB OR OLD FIELD D D HESIDENTIAL, PARK, ME 1] D D FEDREST, SWAMP [3] D FOOL WINDTH > RIFFLE WID D -POOL WINDTH > RIFFLE WID D -POOL WINDTH > RIFFLE WID D -POOL WINDTH > RIFFLE WID	Image: State of the state o	SIDE CHANNEL MODIFICATIONS Her bank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] GROP (U) D D -HEAVY/SEVERE [1] ^M TORP (U) D D -HEAVY/SEVERE [1] ^M INN [0] CROP (U) D D -HEAVY/SEVERE [1] ^M CROP (U) D D D D D D D D D D D D D D D D D D D
II-Best Areas >10 cm [Z] II-MAX > 50 [Z] II-STABLE (e.g., Cobble, Boulder) [Z] II-NONE [Z] II-MONE [Z] II-Best Areas >10 cm [T] III-MAX > 50 [Z] II-STABLE (e.g., Large Gravel) [1] II-LOW [1] II-LOW [1] II-Best Areas < 5 cm [RIFFLE=0] III-MAX < 50[1]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD-WIDE > 50m [4] DD-MODERATE 10-50m [2] DD-MONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] D- 0.2-0.1m [4] 2- 0.2-0.4m [1]	BANK HEROSION check ONE FLOOD PL 1. R ([Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] D D SSHRUB OR OLD FIELD D D HESIDENTIAL, PARK, ME 1] D D FEDREST, SWAMP [3] D FOOL WINDTH > RIFFLE WID D -POOL WINDTH > RIFFLE WID D -POOL WINDTH > RIFFLE WID D -POOL WINDTH > RIFFLE WID	Image: State of the state o	SIDE CHANNEL MODIFICATIONS wer bank) PRIVER Right Looking Dor AN <u>BANK EROSION</u> Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] CDA -MODERATE [2] AL [0] CDA -MODERATE [2] CROP (U) CD C-MEAVY/SEVERE[1] ^M TON [0] CROP (U) CD C-MEAVY/SEVERE[1] ^M ID-MEANTHAL[-1] CANTERNITIAL[-1] C-INTERNITIAL[-1] C-INTERNITIAL[-1] C-VERY FAST[1]
Max.8 Best Areas 5-10 cm[T] D- Best Areas < 5 cm.	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) DD- WIDE > 50m [4] DD- WIDE > 50m [4] DD- MODERATE 10-50m [2] DD- MODERATE 10-50m [2] DD- VERY NARROW <5 m[DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] D- 0.7-1m [4] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0]	BANK HEROSION check ONE FLOOD PL 1. R ([Most Predominant F D D FEDREST, SWAMP [3] 1. D FEDREST, SWAMP [3] 2. D FEDREST, SWAMP [3] 3. D FEDREST, SWAMP [3] 3. D FEDREST, SWAMP [3] 3. D FEDREST, SWAMP [3] 3. D FEDREST, SWAMP [3] 5. POOL SWADDUALITY MUTRPHOLOGY (Check 1 or 2 & AVERA D POOL WINDTH > RIFFLE WID D POOL WIDTH > RIFFLE WID D POOL WINDTH > RIFFLE WID D POOL WIDTH >	Image: Second and second	SIDE CHANNEL MODIFICATIONS Ref bank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] GROP (U] D D-HEAVY/SEVERE(1) ^M TORP (U] D D-HEAVY/SEVERE(1) ^M ID-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERSTITIAL[-1] D-VERY FAST[1] Fill
G: Best Areas 10 cm[1] Job - MAX < 50[1]	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4] DD- WIDE > 50m [4] DD- MODERATE 10-50m [2] DD- MODERATE 10-50m [2] DD- VERY NARROW <5 m[DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] D- 0.2-0.4m [1] D- 0.2-0.4m [1] D- < 0.2m [POOL=0] RIFFLE DEPTH	BANK HEROSION check ONE FLOOD PL L & ((Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] FLE/RUNNOQUALITY <u>MUDIR PHOLOGY</u> (Check WIDTH = RIFFLE WID D -POCL WINDTH = RIFFLE WID D -POCL WINDTH = RIFFLE WID D -POCL WINDTH = RIFFLE WID COMMENTS: <u>CHECK</u> <u>RUN DEPTH</u>	Image: Second and a second	SIDE CHANNEL MODIFICATIONS WE bank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] AL [0] CDE MODERATE [2] CROP (U] CI CI-HEAVY/SEVERE(1) ^M TON (0] CROP (U] CI CI-HEAVY/SEVERE(1) ^M TON (0] CROP (U] CI CI-HEAVY/SEVERE(1) ^M CON (0] CI CI-HEAVY/SEVERE(1) ^M CI C
[RIFFLE=0]' ID - EXTENSIVE [-1]' - COMMENTS: ID - NO RIFFLE [Metric=0] 6] GRADIENT (ft/mi): ID RAINAGE AREA (sq.mi.): %POOL: %GLIDE: %RIFFLE: %RUN:	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-50m [3] DD- MODERATE 10-50m [2] DD- MODERATE 10-50m [2] DD- VERY NARROW <5 m[DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLY!) D- >1m [6] D- 0.7-1m [4] D- 0.2- 0.4m [1] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0] <u>RIFFLE DEPTH</u> D- Best Areas >10 cm [2]	BANK HEROSION check ONE FLOOD PL L & (Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] COMMENTS: CHECK RUN DEPTH J DD - MAX:> 50 [2]	Image: Stable Construction of the c	SIDE CHANNEL MODIFICATIONS Werbank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (PerBank) GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] AL [0] CDE-MODERATE [2] CROP (U] CI CI-HEAVY/SEVERE(1) ^M TON (0] CROP (U] CI CI-HEAVY/SEVERE(1) ^M TON (0] CROP (U] CI CI-HEAVY/SEVERE(1) ^M CON (0] CI-TORRENTIAL[-1] CI-TORRENTIAL[-1] CI-VERY FAST[1] CI-VERY FAST[1] CI-NONE [2]
COMMENTS: D - ND RIFFLE [Metric=D] 6] GRADIENT (ft/mi): DRAINAGE AREA (sq.mi.): %POOL: %GLIDE %RIFFLE %RUN: %RUN:	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-50m [3] DD- MODERATE 10-50m [3] DD- MODERATE 10-50m [3] DD- VERY NARROW <5m[DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLY!) D- >1m [6] D- 0.7-1m [4] D- 0.2- 0.4m [1] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0] <u>RIFFLE DEPTH</u> D- Best Areas >10 cm [7] C - Best Areas 5-10 cm [7]	BANK HEROSION check ONE FLOOD PL L & (Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] COMMENTS: CHECK RUN DEPTH J DD - MAX:> 50 [2]	Image: Stable Construction of the c	SIDE CHANNEL MODIFICATIONS WE bank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] GE [1] D D-NONE/LITTLE [3] AL [0] D D-HEAVY/SEVERE [1] CROP (U] D D HEAVY/SEVERE [1] CROP (U] D HEAVY/SEVER [1] CROP (U] D HEAVY/SEVERE [1]
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	4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D - WIDE > 50m [4] D - MODERATE 10-50m [3] D - MODERATE 10-50m [3] D - MODERATE 10-50m [3] D - MODE [0] COMMENTS: 5.]POOL/GLIDE AND RIF <u>MAX. DEPTH</u> (Check 1 ONLYI) D - >1m [6] D - 0.2-0.4m [4] D - 0.2-0.4m [4] D - 0.2-0.4m [4] D - 8est Areas > 10 cm [7] RIFFLE DEPTH D - Best Areas < 5 cm [RIFFLE=0] COMMENTS:	BANIK HIROSION(check ONE FLOOD PL L R ([Most Predominant F D D FEDREST, SWAMP [3] D D SHIRUB OR OLD FIELD D D HYESIDENTIAL, PARK, ME 1] D D HYESIDENTIAL, PARK, ME 1	Image: State of the second state of	SIDE CHANNEL MODIFICATIONS Werbank) PRIVER Right Looking Dor AM BANK EROSION Ri L R (Per Bank) GE [1] D D-NONE/LITTLE [3] AL [0] CDT-MODERATE [2] CROP (U] CI CI-HEAVY/SEVERE(1) AL [0] CDT-MODERATE [0] CI CI-NONE [2] [1] CI-NONE [2] [

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D-BOULDER [9]		EI :LIMESTONE [1]	SILT: D- SILT HEAVY [-2]	
		TE-TILLS [1]	D-SILT MODERATE [-1].	Substr
CHARDPAN [4]	DIG OF DETRITUS(3)	CI -WETLANDS[0]	D-SILT NORMAL [0]	(Lin
		ET-HARDPAN [0]	D-SILT FREE [1]	112
YES CHET (2)	MODIE: Ignore Studge Original From Point Sources	Ing CI -SANDSTONE [0]	EMBEDDED D -EXTENSIVE [-2]	Max 2
		D-RIP/RAP [0]	NESS: MODERATE [-1]	
NUMBER OF SUBSTRATE T		D -LACUSTRINE [0]	-NORMAL [0]	
High Quality Only, Score 5	or >) A 3 or Less [0]	D -SHALE [-1]	D-NONE [1]	
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- MODERATE 10-50m [2] - NARROW 5-10-m [2]	CHEOREST, SWAMP [3] DEFSHRUB OR OLD FIELD DEFSHRUB OR OLD FIELD DEFESIDENTIAL, PARK, NE	W FIELD [1] D D -OPEN RAST	INDUSTRIAL [0]	
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ID - MODERATE 10-50m [2] ARROW 5-10 m [2] D - VERY NARROW <5 m[D - NONE [0] COMMENTS: .]POOL/GLIDE AND RIF MAX. DEPTH Check 1 ONLY[) J - >1m [6]	3) D DESHRUB OR OLD FIELD D DERESIDENTIAL, PARK, NE (1) D DERESIDENTIAL, PARK, NE (1) D DEFENCED PASTURE [1] FLE/RUMARQUALITY <u>MADRPHOLOGY</u> (Check 1 or 2 & AVERAU D POOL WIDTH > RIFFLE WIDT	[2] []	INDUSTRIAL [0] C MODERATE [2] URE,ROWCROP [0] C G-HEAVY/SEVER INSTRUCTION [0] <u>IT VELOCITY [</u> POOLS & RIFFLES!] (Check All That Apply) C-TORRENTIAL[-1]	Pool
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III - MODERATE 10-50m [2] III - NARROW 5-10 m [2] III - VERY NARROW <5 m[3) D DESHRUB OR OLD FIELD D DERESIDENTIAL, PARK, NE (1) D DERESIDENTIAL, PARK, NE (1) D DEFENCED PASTURE [1] FLE/RUMARQUALITY <u>MADRPHOLOGY</u> (Check 1 or 2 & AVERAU D POOL WIDTH > RIFFLE WIDT	[2] []	INDUSTRIAL [0] C. MODERATE [2] URE, ROWCROP [0] C. G. HEAVY/SEVER INSTRUCTION [0] INT VELOCITY [POOLS & RIFFLES!] (Check All That Apply) Check All That Apply) G. HERSTITIAL[-1] G. INTERSTITIAL[-1] [1] C. ANTERWITTENT[-2]	Pool
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11 - MODERATE 10-50m [2] 12 - NARROW 5-10 m [2] 13 - VERY NARROW 5-10 m [2] 14 - VERY NARROW 5-10 m [2] 15 - NONE [0] 16 - NONE [0] 17 - NONE [0] 18 - NONE [0] 19 - NONE [0] 19 - NONE [0] 10 - NONE [0] 10 - NONE [0] 11 - NONE [1] 12 - 0.7-1m [4] 13 - 0.2-0.4m [1] 14 - 0.2m [POOL=0] 15 - Best Areas >10 cm [2] 16 - Best Areas > 10 cm [1] 17 - Best Areas > 5 cm. [RIFFLE=0]	3] D DESHRUB OR OLD FIELD D DERESIDENTIAL, PARK, NE (1] D DERESIDENTIAL (1] POOL WIDTH > RIFFLE WIDT D POOL WIDT > RIFFLE WIDT	[2] II II III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	INDUSTRIAL [0] I MODERATE [2] URE,ROWCROP [0] I I HEAVY/SEVER INSTRUCTION [0] INTERSTITUAL[-1] I -TORRENTIAL[-1] I -TORRENTIAL[-1] I -TORRENTIAL[-1] I -VERY FAST[1] VERAGE RIFFLE/RUN EMBEDDEDNESS slider) [2] I - NONE [2] Gravel) [1] I - LOW [1] and) [0] I - LOW [1] NO RIFFLE [Metric=0]	Pool Curre Max 1 Riffiel Max 8 Gradu

plankton growth thick on rocks

River Code:	5	RMS:	Stream	E.	ation Index I				
		ocution:		adison	Hamilton	Co.	Line		
Date: <u>4/25/0</u> Scorers Full Nau		C 2 2 C C 2 C 2 C 2	Affilia		<u></u>				
1) SUBSTRATE (Ch			and the second second		moto % macent				
	POBLIERIFF		POOL	RIFFLE S	UBSTRATE ORIGIN	4	SUBSTR	ATE QUALITY	
D-BLOR /SLBS110	C - C - C - C - C - C - C - C - C - C -	DICE-GRA			KONE (OR 2 & AVE		Check ONE	OR 2 & AVERAG	E)
D D-BOULDER [9]	Contraction of the second second		Contraction of the second second	0	-LIMESTONE [1]	SILT:	D-SILT	HEAVY [-2]	100.00
DD-COBBLE [8]			ROCK[5]	_ 1	THIS IT			ני ין יואספטטא	Substate
CHARDPAN [4]		DET DET	RITUS[3]	0	-WETLANDS[0]			iormal [0]	14
DID-MUCK [2]		CITE ARTI			HARDPAN [0]		D-SILT F	where shared prove where	
0-0-61LT [2]		From Point	ra Sludge Original Bources		-SANDSTONE [0]	NESS:		RATE [-1]	Max 20
					RIP/RAP [0] I	NEGO.	A-NORM		
NUMBER OF SUBSTR		18 3 or	More [2]	6.0	SHALE [-1]		D-NONE	and the second se	
COMMENTS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	261:3 OF	Less [0]		COAL FINES [-2]			. 1.1	-
2] INSTREAM COV	ER Maine	achhoover	type a score (tions) ···	AMOUNT: (CI	heck ONLY One	or Cover
(Structure)	Wanter	TYPE	Score All That	Occur			check 2 and	AVERAGE)	COVA
UNDERCUT BANKS	5 [9]		P0015> 70 cm	(2)	OXBOWS, BACKWAT	ERS [1]		VE > 75% [11]	171
XOVERHANGING VE	EGETATION [1	1	ROOTWADS [1]		AQUATIC MACROPH	YTES [1]		TE 25-75% [7]	لينيا
SHALLOWS (IN SL	OW WRITER) [n X	BOULDERS [1]	-	LOGS OR WOODY D	EBRIS (1)			Max 20
KROOTMATS [1]	COMMENT					-		ABSENT < 5%[1]	
3] CHANNEL MOR							TIONS/OTHER		Channel
SINUOSITY	DEFENELOP		CHANNELIZAT		STABILITY D- HIGH [3]	D-SNAG		1 - IMPOUND.	
- HIGH [4]	DI-GI JGOO		DI- NONE [6]	And the second sec	I - MODERATE [2]			- ISLANDS	9
	A FA FAIR		- RECOVER		the second se			I ENCED	Mars 20
			LI- KELLPECK	UNG 131 1	- LOW [1]	D-CANO	PY REMOVAL C	1 - LEVEED	Max 20
- NONE III			I - RECENT		- LOW [1]	D - CANO		1 - BANK SHAPIN	and the second s
OMMENTS: RIPARIAN ZONE / <u>RIPARIAN WIDTH</u> R (Per Bank)	DL-P(:1POOL AND+BBANN LLF	(BROSIO)	L- RECENT BECOVERY, 14 Noteck ONE bo FLOOD PLAN dominant Per	OR NO. H To per bank o H QUALITY Bank) 1	or check 2 and AVER (PAST 100 Meter 1	D - DRED D - ONE S RAGE per t	GING E SIDE CHANNEL Bank) PRiver Ban L R (P	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank)	G
OWMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Bank) D- WIDE > 50m [4] D- MODERATE 10-50m D- WARROW 5-10 m [C- VERY NARROW <5	DP(:POOS AND+BBANN LLF TDT TDT 2} -CDT 2} -CDT	(HEROSION (Most Pre- Infinest, 5 Issimute or Infizialent	LI- RECENT BECOVERY, 14 Ncheck ONE bo FLOOD PLAN dominant Per WANP [3] t OLD FIELD [2] IAL, RARK, NEW	OR.NO. H No. per bank NOUALITY Bank) Bank) I I I I I I I I I I I I I I I I I I I	or check 2 and AVEF (PAST 100 Meter 1	D - DRED D - ONE 9 RAGE per 1 RIPARIAM I TILLAGE DUSTRIAL E,ROWCR	GING E SIDE CHANNEL Bank) PRiver <u>BAN</u> L R (P [1] D C N (0] C C N DP [0] C C N	1 - BANK SHAPIN WODIFICATIONS Right Looking E <u>K EROSION</u>	G Xownstream Riparien
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OMMENTS: RIPARIAN ZONE / RIPARIAN WIDTH (Per Bank) I- WIDE > 50m [4] I- MODERATE 10-50m I- MARROW S-10 m [I- VERY NARROW <5 I- NONE [0] MMENTS:	D-P(:POO AND+BBANH LL f CD I n[3]:CD I 7]:CD I m[1]:1.10 I	L[1] (BEROSION (Most Pro HERDEST, 5 JESTICA ON HERDEST, 5 JESTICA ON HERDEST, 5 JESTICA ON HERDEST, 5	EL- RECENT Recovery, 14 Noteck ONE bo FLOOD PLAN dominant Por WANP [3] t OLD FIELD [2] LAL, RARK, NEW- PASTURE [1].	OR.NO. H No. per bank NOUALITY Bank) Bank) I I I I I I I I I I I I I I I I I I I	or check 2 and AVER (PAST 100 Meter I L R D D CORSERVATION D D -URBAN OR IMI D D -OPEN PASTUR	D - DRED D - ONE 9 RAGE per 1 RIPARIAM I TILLAGE DUSTRIAL E,ROWCR	GING E SIDE CHANNEL Bank) PRiver <u>BAN</u> L R (P [1] D C N (0] C C N DP [0] C C N	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] KODERATE [2]	G Xownstream Riparien
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DAMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Benk) I- WIDE > 50m [4] I- WODERATE 10-50m I- MODERATE 10-50m I- MORE [0] MARROW 5-10 m [I- VERY NARROW <5 I- NONE [0] MARENTS: IPOIOL/GLIDE AND WAX. DEPTH Check 1 ONLY().	D-P(:POOL AND+BBANK LL f [D] [] [] [] [] [] [] [] [] [] [] [] [] []	(HEROSIO) (HEROSIO) (Most Pre HEREST, 5 155506011 1-HENCED / 1-HENCED / UNNOUALT MORPHON	EI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAN dominant Per WANP [3] t OLD FIELD [2] LAL, RARK, NEW PASTURE [1].	OR.NO. A typer bank (<u>1 QUALITY</u> Bank) 1 FRELD [1] 1 1 FRELD [1] 1	or check 2 and AVEF (PAST 100 Meter I L R D D CONSERVATION D D CONSERVATION D D OPEN PASTUR D D OPEN PASTUR D D MINING/CONS <u>CURRENT</u>	CL-DRED CL-ONE S AGE per I PARIAM UTILLAGE DUSTRIAL E.ROWCRI STRUCTION	GING E SIDE CHANNEL BAN L R (F [1] D D N [1] D D N [1] D D N [1] D D N [1] [1] D D N [1] D D N N N N N N N N N N N N N N N N N	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] MODERATE [2] MODERATE [2] MANY/SEVERE[3]	G Nowinstream Riparian Max 10- Max 10- Pool/
DAMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Benk) 1- WIDE > 50m [4] 1- WODERATE 10-50m 1- MODERATE 10-50m 1- MORERATE 10-50m 1- MORE [0] MUMENTS: JPOIOL/GLIDE AND MAX. DEPTH Check 1 ONLY[) I- >1m [6]	D-P(:POOL AND+BBANK LL f [D] [] [] [] [] [] [] [] [] [] [] [] [] []	(HEROSIO) (HEROSIO) (HORST Pre- HEREST, 5 15550000 14550000 14550000 14550000 14550000 14550000 1455000 1455000 1455000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000 14550000000 14550000000000	EI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAN dominant Per WANP [3] toLD FIELD [2] LAL, RARK, NEW PASTURE [1] FY LOGY P 2 & AVERAL > RIFTLE WIDT	OR.NO. H to per bank (<u>1 QUALITY</u> Bank() <u>1</u> 1 FRELD [1] 1 1 FRELD [1] 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	or check 2 and AVER (PAST 100 Meter I) L R D D CONSERVATION D D OPEN RASTUR D D OPEN RASTUR D D OPEN RASTUR D D MINING/CONS <u>CURRENT</u>	CL-DRED CL-ONE S RAGE per I RIPARIAM UTILLAGE DUSTRIAL E,ROWCRA STRUCTION VELOCITY UNICX AN	GING E SIDE CHANNEL Bank) PRiver E R (P [1] D D P [1] D D P [1] D D P [1] D D P [1] [1] D D P [1] [1] D D P [1] D D P [1] [1] D D P [1] D D D P [1] D D P [1] D D P [1] D D P [1] D D P [1] D D P [1] D D P [1	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] MODERATE [2] IEAVY/SEVERE[3] RIFFLES1] [-1]	G Nowinstream Riparian Max 10- Max 10- Pool/
OMMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Bank) D- WIDE > 50m [4] D- WODERATE 10-50m D- MODERATE 10-50m D- MODERATE 10-50m C- VERY NARROW <5 D- NONE [0] MARROW 5-10 m [0] MARROW 5-10 m [0] MARROW 5-10 m [1] MARROW 5-10 m [1	D-P(:POOL AND: B BANK LL F LL F I D I n [3] - C D I 2] , C D I m[1] 1.30 I NRIFICIES R	L [1] (BEROSION (Most Pre- JHOREST, 5 JSS JUB OR HESIDENTI JHENCED I LINEQUALT MORPHOI LINEQUALT LINEQUALT LINEQUALT LINEQUALT LINEQUALT	LI- RECENT RECOVERY, 14 Noteck ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] LAL, RARK, NEW PASTURE [1] TY LOGY T 2 & AVERAL > RIFFLE WIDT = RIFFLE WIDT	OR.NO. A typer bank (<u>1 QUALITY</u> Bank) 1 1 FRELD [1] 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CURRENT CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS	D - DRED D - ONE S AGE per I PAREAM ITILIAGE DUSTRIAL E,ROWCRA TRUCTION VELOCITY UNBOX 'AT	GING E SIDE CHANNEL Bank) PRIVER E R (P [1] D - N [1]	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] MODERATE [2] IEAVY/SEVERE[3] RIFFLES1] [-1] [-1]	G Nowinstream Riparian Max 10- Max 10- Pool/
DMMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Bank) D- WIDE > 50m [4] D- MODERATE 10-50m D- MODERATE 10-50m D- MODERATE 10-50m C. VERY NARROW <5 D- NONE [0] MULENTS: JPOIOL/GLIDE AND MAX. DEPTH Check 1 ONLY[) - > 1m [6] 1- 0.7-1m [4] C. 0.4-0.7m [2]	D-P(:POOL AND: B BANK LL F LL F I D I n [3] - C D I 2] , C D I m[1] 1.30 I NRIFICIES R	L [1] (BEROSION (Most Pre- JHOREST, 5 JSS JUB OR HESIDENTI JHENCED I LINEQUALT MORPHOI LINEQUALT LINEQUALT LINEQUALT LINEQUALT LINEQUALT	EI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAN dominant Per WANP [3] toLD FIELD [2] LAL, RARK, NEW PASTURE [1] FY LOGY P 2 & AVERAL > RIFTLE WIDT	OR.NO. A typer bank (<u>1 QUALITY</u> Bank) 1 1 FRELD [1] 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIRRENT	CI-DRED CI-ONE S RAGE per I RIPARIAM ITILLAGE DUSTRIAL E,ROWCRA TRUCTION VELOCITY UNICS AI E	GING E SIDE CHANNEL I Bank) PRIVER I EAN L R (P [1] D - N (0] D D D D D - N (0] D D D D D D D D D D D D D D D D D D D	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] KODERATE [2] IEAVY/SEVERE[3] RIFFLES1] [-1] [-1] [-1]	G Riparian G Max 10- Pool/ Current
DAMENTS: RIPARIAN ZONE / RIPARIAN WIDTH (Per Bank) WIDE > 50m [4] WIDE > 50m [4] MODERATE 10-50m NONE [0] NONE [0] NONE [0] NONE [0] NONE [0] NONE [0] NONE [1] NONE [1] NO	D-P(:POOL AND: B BANK LL F I D I n [3]: C D I 2] ,C D I m[1]: 1.30 I NRIFICIER CH D IP CALO IP CALO IP CALO IP CALO IP CALO IP	L [1] (BEROSION (BER	LI- RECENT RECOVERY, 14 Noteck ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] LAL, RARK, NEW PASTURE [1] TY LOGY T 2 & AVERAL > RIFFLE WIDT = RIFFLE WIDT	OR.NO. A typer bank (<u>1 QUALITY</u> Bank) 1 1 FRELD [1] 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CURRENT CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS CLIRANING/CONS	CI-DRED CI-ONE S RAGE per I RIPARIAM ITILLAGE DUSTRIAL E,ROWCRA TRUCTION VELOCITY UNICS AI E	GING E SIDE CHANNEL Bank) PRIVER E R (P [1] D - N [1]	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] KODERATE [2] IEAVY/SEVERE[3] RIFFLES1] [-1] [-1] [-1]	G Riparian G Max 10- Pool/ Current
DAMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Bank) - WIDE > 50m [4] - WODERATE 10-50m - MARROW 5-10 m [- WARROW 5-10 m [- VERY NARROW <5 - NONE [0] MAXENTS: JPOOL/GLIDE AND MAX. DEPTH Check 1 ONLY[) - > 1m [6] 1. 0.7-1m [4] C. 0.4-0.7m [2] - 0.2-0.4m [1]	D-P(:POOL AND: B BANK LL F I D I n [3]: C D I 2] ,C D I m[1]: 1.30 I NRIFICIER CH D IP CALO IP CALO IP CALO IP CALO IP CALO IP	L [1] (BEROSION (Most Pre- JERMEST, 5 JESEMUN OR INTESIDENTI JESEMUN OR INTESIDENTI JESEMUN OR INTESIDENTI LINGUN TO COLUMNITH JOCK VIEDTH	LI- RECENT RECOVERY, 14 Noteck ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] LAL, RARK, NEW PASTURE [1] TY LOGY T 2 & AVERAL > RIFFLE WIDT = RIFFLE WIDT	OR.NO. A typer bank (<u>1 QUALITY</u> Bank) 1 1 FRELD [1] 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIRRENT	CI-DRED CI-ONE S RAGE per I RIPARIAM ITILLAGE DUSTRIAL E,ROWCRA TRUCTION VELOCITY UNICS AI E	GING E SIDE CHANNEL I Bank) PRIVER I EAN L R (P [1] D - N (0] D D D D D - N (0] D D D D D D D D D D D D D D D D D D D	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] KODERATE [2] IEAVY/SEVERE[3] RIFFLES1] [-1] [-1] [-1]	G Downstream Riparian () Max 10- Pool/ Current () Max 12
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DAMERITS: RIPARIAN ZONE / RIPARIAN VIDTH R (Per Bank) D- WIDE > 50m [4] D- MODERATE 10-50m D- MODERATE 10-50m C- VERY NARROW <5 D- NONE [0] MAXENTS: JPOOL/GLIDE AND MAX. DEPTH Check 1 ONLYI) I - >1m [6] I - 0.2-0.4m [4] D- 0.2-0.4m [4] D- 0.2-0.4m [4] D- 0.2-0.4m [4] D- 0.2-0.4m [4]	D-P(:POOM AND: B BANK LL F LD I T DI T DI T DI T DI T DI T DI T DI T	L [1] (BEROSION (BER	LI- RECENT RECOVERY, 14 Noteck ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] LAL, RARK, NEW PASTURE [1] TY LOGY T 2 & AVERAN > RIFFLE WIDT < RIFFLE WIDT < RIFFLE WIDT < RIFFLE WIDT < RIFFLE WIDT < RIFFLE WIDT	OR. NO. A x per bank (1 QUALITY Bank) 1 FIELD [1] FIELD [1] H [1] COME OR (RIFFLE	CLIRRENT CLIREAN OR INIT CLIREAN OR INIT CLICONSERVATION CLICONSERVATION CLIREAN OR INIT CLIREAN OR INT CLIREAN OR INT C	CI-DRED CI-ONE S AGE per I <u>PARIAM</u> ITILLAGE DUSTRIAL E,ROWCRI TRUCTION VELOCITY LINECTION VELOCITY LINECTION E E ST LINECTION E E E E E E E E E E E E E E E E E E E	GING E SIDE CHANNEL Bank) PRIVER E R (F [1] D . R (F] [1] D . R (F] [1] D . R (F] [1] D . R (F] [1] D . R (F] R (F] R (FLE/RUN E	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) FORE/LITTLE [3] HODERATE [2] HEAVY/SEVERE[1] [-1] [-1] [-1] [-1] [-3] HEEDDEDNESS	G Downstream Riparian () Max 10- Pool/ Current () Max 12
DMMENTS:	CI-P(:POOK	(ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION) (ERCOSION (ERCOSION) (ERCOSI	LI- RECENT RECOVERY, 14 Noteck ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] LAL, RARK, NEW MSTURE [1] TY LOGY t 2 & AVELAND STURE [1] TY LOGY t 2 & AVELAND STURE [1] TY CHIECK	OR.NO. A x per bank (<u>1 QUALITY</u> Bank) 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CURRENT CHECK 2 AND AVER (PAST 100 Meter II R CONSERVATION CONSERVA	CI-DRED CI-ONE S CI-ONE	GING L SIDE CHANNEL I BENK) PRIVER I E R (F [1] D T. R (F) [1] D T. R (F [1] D T. R (F) [1]	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) FORE/LITTLE [3] HODERATE [2] HEAVY/SEVERE[1] FIFFLES!] [-1] [-1] [-1] [-1] [-2] HEAVE/DEDNESS IE [2]	G Riparian G Max 10. Pool/ Current G Max 12 Riffle/Run
DMMENTS:	CI-P(:POOM AND: B BANK L L F L D I T []] : C D I [] : C D I T []] : C D I []] : C D I []] : C D I [] : C D I [] :	(ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION) (ERCOSION (ERCOSION) (ERCOSI	LI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] tAL, RARK, NEW MASTURE [1] TY LOGY t 2 & AVERANE > RIFFLE WIDT < SO(2]) (< 50(1]	OR. NO. A x per bank (<u>1 QUALITY</u> Bank) 1 FIELD [1] 1 FIELD [1] 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIRRENT CLIREAN OR INI CLIREAN OR INI CLICONSERVATION CLICONSERVATION CLIREAN OR INI CLIRRENT CLIR	CI-DRED CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-DRED CI-DRE	GING E SIDE CHANNEL Bank) PRIVER E R (F 1 R (F 1 D C R (I] D	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) FORE/LITTLE [3] HODERATE [2] HEAVY/SEVERE[1] [-1]	G Riparian G Max 10- Pool/ Current G Max 12 Riffle/Run Max 8
DMMENTS:	CI-P(:POOM AND: B BANK L L F L D I T []] : C D I [] : C D I T []] : C D I []] : C D I []] : C D I [] : C D I [] :	(ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION) (ERCOSION (ERCOSION) (ERCOSI	LI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] tAL, RARK, NEW MASTURE [1] TY LOGY t 2 & AVERANE > RIFFLE WIDT < SO(2]) (< 50(1]	OR. NO. A x per bank (<u>1 QUALITY</u> Bank) 1 FIELD [1] 1 FIELD [1] 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CURRENT CHECK 2 AND AVER (PAST 100 Meter II R CONSERVATION CONSERVA	CI-DRED CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-DRED CI-DRE	GING E SIDE CHANNEL Bank) PRiver E R (F 1 R (F 1 D D P 1 D D D P 1 D D P 1 D D D D P 1 D D D D D P 1 D D D D D D D D D D D D D D D D D D D	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) FORE/LITTLE [3] HODERATE [2] HEAVY/SEVERE[1] [-2] [-1] [-2]	G Riparian G Max 10. Pool/ Current G Max 12 Riffle/Run
DAMERITS: RIPARIAN ZONE / RIPARIAN VIDTH R (Per Benk) D-WIDE > 50m [4] D-WIDE > 50m [4] D-MODERATE 10-50m D-MARROW 5-10 m [C-VERY NARROW <5 D-NONE [0] MAXENTS: JPOOL/GLIDE AND MAX. DEPTH Check 1 ONLYI) - >1m [6] D-0.2-0.4m [4] C-0.4-0.7m [2] D-0.2-0.4m [4] D-0.2-0.4m	CI-P(:POOM AND: B BANK L L F L D I T []] : C D I [] : C D I T []] : C D I []] : C D I []] : C D I [] : C D I [] :	(ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION) (ERCOSION (ERCOSION) (ERCOSI	LI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] tAL, RARK, NEW MASTURE [1] TY LOGY t 2 & AVERANE > RIFFLE WIDT < SO(2]) (< 50(1]	OR. NO. A x per bank (<u>1 QUALITY</u> Bank) 1 FIELD [1] 1 FIELD [1] 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIRRENT CLIRRE	CI-DRED CI-DNES CI-ONES CI-ONES CI-ONES CI-ONES CI-DNES CI-	GING E SIDE CHANNEL Bank) PRiver I E R (F [1] D 1. R (F)	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) FORE/LITTLE [3] HODERATE [2] HEAVY/SEVERE[1] [-1]	G Riparian G Max 10- Pool/ Current G Max 12 Riffle/Run Max 2 Gradlent
DAMERITS: RIPARIAN ZONE / RIPARIAN VIDTH R (Per Benk) D-WIDE > 50m [4] D-WIDE > 50m [4] D-MODERATE 10-50m D-MARROW 5-10 m [C-VERY NARROW <5 D-NONE [0] MAXENTS: JPOOL/GLIDE AND MAX. DEPTH Check 1 ONLYI) - >1m [6] D-0.2-0.4m [4] C-0.4-0.7m [2] D-0.2-0.4m [4] D-0.2-0.4m	CI-P(:POOM AND: B BANK L L F L D I T []] : C D I [] : C D I T []] : C D I []] : C D I []] : C D I [] : C D I [] :	(ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION (ERCOSION) (ERCOSION (ERCOSION) (ERCOSI	LI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] tAL, RARK, NEW MASTURE [1] TY LOGY t 2 & AVERANE > RIFFLE WIDT < SO(2]) (< 50(1]	OR. NO. A x per bank (<u>1 QUALITY</u> Bank) 1 FIELD [1] 1 FIELD [1] 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIRRENT CLIRRE	CI-DRED CI-DNES CI-ONES CI-ONES CI-ONES CI-ONES CI-DNES CI-	GING E SIDE CHANNEL Bank) PRiver E R (F 1 R (F 1 D D P 1 D D D P 1 D D P 1 D D D D P 1 D D D D D P 1 D D D D D D D D D D D D D D D D D D D	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) FORE/LITTLE [3] HODERATE [2] HEAVY/SEVERE[1] [-2] [-1] [-2]	G Riparian Kiparian Max 10- Pool/ Current G Max 12 Riffle/Run Max 8 Gradlent
OMMENTS: RIPARIAN ZONE / RIPARIAN WIDTH R (Per Bank) D- WIDE > 50m [4] D- MODERATE 10-50m D- MODERATE 10-50m C- VERY NARROW <5 D- NONE [0] WMENTS: JPOOL/GLIDE AND MAX. DEPTH Check 1 ONLYI) D- 0.7-1m [4] C- 0.2-0.4m [4] D- 0.2-0.4	CITE C C C C C C C C C C C C C C C C C C C	E [1] (BEROSION (Most Pre- Interest, S Issimule or Interest, S Issimule or Interest or	LI- RECENT RECOVERY, 14 N(check ONE bo FLOOD PLAIN dominant Per WAWP [3] t OLD FIELD [2] tAL, RARK, NEW MASTURE [1] TY LOGY t 2 & AVERANE > RIFFLE WIDT < SO(2]) (< 50(1]	OR.NO. A x per bank (1 QUALITY Bank) 1 FRELD [1] 1 FRELD [1] 1 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	CLIRRENT CLIRRE	CI-DRED CI-DRED CI-ONE S CI-ONE S CI-ONE S CI-ONE S CI-DRED	GING E SIDE CHANNEL Bank) PRiver I E R (F [1] D 1. R (F)	1 - BANK SHAPIN MODIFICATIONS Right Looking E <u>K EROSION</u> Ver Bank) KONE/LITTLE [3] KONE/LITTLE [3] K	G Riparian G Max 10- Pool/ Current G Max 12 Riffle/Run Max 2 Gradlent

River Code:	Rim: Stream: Mud Creek	
Date: 4/25/08	Location: Madison/ Hamilton Co. Line	
Scorers Full Name:_	MMK Affiliation:	
	ONLY Two SubstrateTYPE BOXES; Estimate % present	-8
	LRIFFLE POOL RIFFLE SUBSTRATE ORIGIN SUBSTRATE QUALITY	
D-BLDR /SLBS[10]	Check ONE (OR 2 & AVERAGE) Check ONE (OR 2 & AVERA	GE)
dd-BOULDER [9]	ELLINESTONE [1] SILT: ELLINESTONE [1] SILT:	Substrate
	DID BEDROCKISI VC-TILLS [1] D-SILT MODERATE [-1] DID DEFRITUSISI D-WETLANDS(0) D-SILT NORMAL [0]	
0 0-HARDPAN [4]		16
	IDEARTIFICIAL[0] DI-HARDPAN [0] DI-SILT FREE [1] DI-SANDSTONE [0] EMBEDDED DI-EXTENSIVE [-2]	· []
D-D-61LT [2]	From Point Sources	Max 20
NUMBER OF SUBSTRATE 7		
(High Quality Only, Score 5		
COMMENTS	D-COAL FINES [-2]	
2] INSTREAM COVER	(Give each cover type a score of 0 to 3; see back for instructions) AMOUNT: (Check ONLY Or	e or Cover
(Structure)	TYPE: Score All That Occur check 2 and AVERAGE)	
UNDERCUT BANKS [1]	POOLS> 70 cm [2]OXBOWS, BACKWATERS [1] D - EXTENSIVE > 75% [11]	11 1 1 2 11
OVERHANGING VEGETA	가장 것을 많은 것 같은 것 같은 것 같아요. 이렇게 집에 있는 것 같은 것 같이 많이 있는 것 같아요. 이렇게 잘 하는 것 같아요. 이 것 같아요. 이 것 같아요. 이 것 같아요. 이 것 같아요.	
SHALLOWS (IN SLOW W		Max 20
	MMENTS: I - NEARLY ABSENT < 5%	31
	OLOGY: (ICTHECK ONLY ONE PER Category OR check 2 and AVERAGE) VELOPMENT CHANNELIZATION STABILITY MODIFICATIONS/OTHER	Channel
the second secon	- EXCELLERATE [7] D- NONE [6] D- HIGH [3] D- SNAGGING D- IMPOUND.	
	- GOOD [5] D - RECOVERED [4] No - MODERATE [2] D - RELOCATION D - ISLANDS	10
	- FAIR [3] - RECOVERING [3] - LOW [1] - CANOPY REMOVAL - LEVEED	Max 20
· · · · · · · · · · · · · · · · · · ·	- POOR [11] D- RECENT OR NO D- DREDGING D- BANK SHAP	and the second second
	RECOVERY [1] DI-ONE SIDE CHANNEL MODIFICATION	S
COMMENTS:		
	ID BANIK IBROSION check ONE box per bank or check 2 and AVERAGE per bank) PRiver Right Look	ing Downstre
4]. RIPARIAN ZONE AN RIPARIAN WIDTH	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION	-
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L. R. (Per Bank)	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L R (Most Predominant Per Bank) L R L R L R (Per Bank)	Ripariar
4], RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DD- WIDE > 50m [4].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L. R. (Most Predominant Per Bank) L. R. L. R. (Per Bank) L. R. (Per Bank) D. CENEDREST, SWAMP [3] D. D-CONSERVATION TILLAGE [1] D. D-NONE/LITTLE	Ripariar E [3]
4]. RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) DD-WIDE > 50m [4]. DD-MODERATE 10-50m	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R (Most Predominant Per Bank) L R L R L R (Per Bank) D DEHEDREST, SWAMP [3] D DECONSERVATION TILLAGE [1] D D-NONE/LITTLI D D-NONE/LITTLI F31 D DESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1]	
4]. RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD - MARROW 5-10 m [2]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L. R (Most Predominant Per Bank) L. R R L. R (Per Bank) D. CEREDREST, SWAMP [3] D. DECONSERVATION TILLAGE [1] D. D. NONE/LITTLI [3] D. EPSHRUB OR OLD FIELD [2] D. D. URBAN OR INDUSTRIAL [0] D. HEAVY/SEVEN [4] D. DEPENDENTIAL, PARK, MEW FIELD [1] D. D. HEAVY/SEVEN	
4]. RIPARIAN ZONE AN RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- NARROW 5-10 m [2].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R (Most Predominant Per Bank) L R L R L R (Per Bank) D DEHEDREST, SWAMP [3] D DECONSERVATION TILLAGE [1] D D-NONE/LITTLI D D-NONE/LITTLI F31 D DESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1]	
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- NARROW 5-10 m [2]. 2172- VERY NARROW <5 m DD - NONE [0]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L. R (Most Predominant Per Bank) L. R R L. R (Per Bank) D. CEREDREST, SWAMP [3] D. DECONSERVATION TILLAGE [1] D. D. NONE/LITTLI [3] D. EPSHRUB OR OLD FIELD [2] D. D. URBAN OR INDUSTRIAL [0] D. HEAVY/SEVEN [4] D. DEPENDENTIAL, PARK, MEW FIELD [1] D. D. HEAVY/SEVEN D. HEAVY/SEVEN	
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- NARROW 5-10 m [2]. STG- VERY NARROW <5 m	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L. R (Most Predominant Per Bank) L. R R L. R (Per Bank) D. CEREDREST, SWAMP [3] D. DECONSERVATION TILLAGE [1] D. D. NONE/LITTLI [3] D. EPSHRUB OR OLD FIELD [2] D. D. URBAN OR INDUSTRIAL [0] D. HEAVY/SEVEN [4] D. DEPENDENTIAL, PARK, MEW FIELD [1] D. D. HEAVY/SEVEN D. HEAVY/SEVEN	
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Benk) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- NARROW \$-10 m [2]. 2172- VERY NARROW <5 m DD- NONE [0] COMMENTS:	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L R (Most Predominant Per Bank) L R L R (Per Bank) L DEHEDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTLI [3] D DENSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENSIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-HEAVY/SEVE [1] D DIESTURE [1] D D-MINING/CONSTRUCTION [0] D HEAVY/SEVE	Riparian E [3] Zj RE[1] ^{Max 10}
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- NARROW 5-10 m [2]. STC- VERY NARROW <5 m DD- NONE [0]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L R (Most Predominant Per Bank) L R L R (Per Bank) L DEHEDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTLI [3] D DENSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENSIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-HEAVY/SEVE [1] D DIESTURE [1] D D-MINING/CONSTRUCTION [0] D HEAVY/SEVE	Riparian E [3] [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MODERATE 10-50m DD-NARROW 5-10 m [2]. DD-NONE [0]. COMMENTS: 5.]POOL/GLIDE AND R	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION L R (Most Predominant Per Bank) L R L R (Per Bank) L DEMEDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DEMESIDENTIAL, PARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D MESSIDENTIAL, PARK, MEW FIELD [1] [4] D DHESSIDENTIAL, PARK, MEW FIELD [1] D D-MONE/LITTL D D-HEAVY/SEVE [6] D DHESSIDENTIAL, PARK, MEW FIELD [1] D D-MONE/LITTL D D-HEAVY/SEVE [7] D DHESSIDENTIAL, PARK, MEW FIELD [1] D D-MONE/LITTL D D-HEAVY/SEVE [8] D DHESSIDENTIAL, PARK, MEW FIELD [1] D D-MONE/LITTL D D-HEAVY/SEVE [9] D DHESSIDENTIAL, PARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] [1] D DI-HEAVY/SEVE D D-MINING/CONSTRUCTION [0]	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MODERATE 10-50m DD-NARROW 5-10 m [2]. DD-NONE [0]. COMMENTS: 5.JPOOL/GLIDE AND R <u>MAX. DEPTH</u>	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION 1. R (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. D DENEST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTLI [3] D DENESHEND OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DENESHENTIAL, MARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-HEAVY/SEVE [4] D DENESHENTIAL, MARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DENESHENTIAL, MARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DENESHENTIAL, MARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DENESHENTIAL, MARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [7] D DENESHENCED PASTURE [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [8] MIDRPHOLOGY CURRENT VELOCITY [POOLS & RIFFLESI] [9] CHRENT VELOCITY [POOLS & RIFFLESI] CHRENT NET Apply) [9] D-FOOLEWIDTH > RIFFLE WIDTH [2] D -EDDIES[1] D -FORRENTIAL[-1]	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1 R (Per Bank) DDWIDE > 50m [4]. DDWIDE > 50m [4]. DDMODERATE 10-50m DDNARROW 5-10 m [2]. EXTEX-VERY NARROW <5 m DDNONE [0]. COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6]. D- 0.7-1m [4].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION 1. R (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. D DHEST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DHEST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DHESTORTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D -HEAVY/SEVE [4] D DHESTORTIAL, PARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DHESTORTIAL, PARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DHESTORE [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DHESTORE [1] D D-MINING/CONSTRUCTION [0] [7] D DHESTORE [1] D D-MOLS & RIFFLEST [8] CURRENT VELOCITY [POOLS & RIFFLEST] [9] CHRENT VELOCITY [POOLS & RIFFLEST] [9] D-POOLS WIDTH > RIFFLE WIDTH [2] D -EDDIES[1] [9] D -FOORENTIAL[-1] D -INTERSTITIAL[-1]	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Benk) DDWIDE > 50m [4]. DDWIDE > 50m [4]. DDWIDE > 50m [2]. Some for the second se	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION 1. R ([Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. CHREDREST, SWAMP [3] 1. D CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHREDREST, SWAMP [3] 1. D CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHREDREST, SWAMP [3] 1. D CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHRENTED OR OLD FIELD [2] 1. D -URBAN OR INDUSTRIAL [0] 1. D -MODERATE [1] [4] 1. D D-MESIDENTIAL, RARK, NEW FIELD [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [6] 1. D IL-HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [7] 1. D IL-HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [8] 1. D IL-HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [9] 1. D -MINING/CONSTRUCTION [0] 1. D -MINING/CONSTRUCTION [0] 1. D -MOVE/SEVE [9] 1. D -MOVE/SEVE [1] 1. D -MOVE/SEVE 1. D -MOVE/SEVE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MOVE/SEVE 1. D -MOVE/SEVE 1. D -MOVE/SEVE <	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DDWIDE > 50m [4]. DDWODERATE 10-50m DDMODERATE 10-50m DDMARROW 5-10 m [2]. SIGC VERY NARROW <5 m DDNONE [0] COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6] D-0.7-1m [4] D-0.4-0.7m [2]. SE 0.2-0.4m [1].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION 1. R ([Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. CHRENEST, SWAMP [3] 1. CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHRENEST, SWAMP [3] 1. CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHRENE OR OLD FIELD [2] 1. D -URBAN OR INDUSTRIAL [0] 1. D -NONE/LITTLI [3] 1. D D-NESIDENTIAL, RARK, NEW FIELD [1] 1. D -URBAN OR INDUSTRIAL [0] 1. D -MODERATE [1] [4] 1. D D-NESIDENTIAL, RARK, NEW FIELD [1] 1. D -MINING/CONSTRUCTION [0] 1. D -HEAVY/SEVE [7] 1. D IL HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -HEAVY/SEVE [8] 1. D IL HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -HEAVY/SEVE [9] 1. D IL HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -HEAVY/SEVE [1] 1. D IL HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -HEAVY/SEVE [1] 1. D -POOLS & AVERAGE) [1] 1. D -HEAVY/SEVE [2] 0. POOLS WIDTH > RIFFLE WIDTH [1] 1. D -HEAVY/SEVE 1. D -HEAVY/SEVE [1] 0. POOLS WIDTH > RIFF	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Benk) DDWIDE > 50m [4]. DDWIDE > 50m [4]. DDWIDE > 50m [2]. Some for the second se	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) BANK EROSION 1. R ([Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. CHREDREST, SWAMP [3] 1. D CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHREDREST, SWAMP [3] 1. D CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHREDREST, SWAMP [3] 1. D CONSERVATION TILLAGE [1] 1. D D-NONE/LITTLI [3] 1. CHRENTED OR OLD FIELD [2] 1. D -URBAN OR INDUSTRIAL [0] 1. D -MODERATE [1] [4] 1. D D-MESIDENTIAL, RARK, NEW FIELD [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [6] 1. D IL-HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [7] 1. D IL-HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [8] 1. D IL-HENCED PASTURE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MEAVY/SEVE [9] 1. D -MINING/CONSTRUCTION [0] 1. D -MINING/CONSTRUCTION [0] 1. D -MOVE/SEVE [9] 1. D -MOVE/SEVE [1] 1. D -MOVE/SEVE 1. D -MOVE/SEVE [1] 1. D -MINING/CONSTRUCTION [0] 1. D -MOVE/SEVE 1. D -MOVE/SEVE 1. D -MOVE/SEVE <	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DDWIDE > 50m [4]. DDWODERATE 10-50m DDMODERATE 10-50m DDMARROW 5-10 m [2]. SIGC VERY NARROW <5 m DDNONE [0] COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6] D-0.7-1m [4] D-0.4-0.7m [2]. SE 0.2-0.4m [1].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R ([Mlost Predominant Per Bank) L R L R (Per Bank) L R (Per Bank) 1. CEREDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTLI [3] D DESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DESSIDENTIAL, RARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-HEAVY/SEVE [4] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [7] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [8] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D DI HENCED PASTURE [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D DI HENCED PASTURE [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D DI HENCED PASTURE [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D DI HE	Riparian E [3] [2] RE[1] ^{Max 10} Pool/
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1 R (Per Bank) DDWIDE > 50m [4]. DDWODERATE 10-50m DDMODERATE 10-50m DDMARROW 5-10 m [2]. SITC-VERY NARROW <5 m DDNONE [0] COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6]: D- 0.7-1m [4] D- 0.4-0.7m [2]. S. 0.2- 0.4m [1]. D- < 0.2m [POOL=0]:	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R ([Most Predominant Per Bank) L R L R (Per Bank) 1. CHEDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTLI [3] D DHESIDENTIAL, RARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-HEAVY/SEVE [4] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [6] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [7] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [8] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D DI-MOLD GY CURRENT VELOCITY [POOLS & RIFFLESI] (Check All That Apply) [1] D -POOLI WIDTH > RIFFLE WIDTH [1] D -EDDIES[1] D -NTERSTITAL[-1] [2] D-POOLI WIDTH = RIFFLE WIDTH [1] D -NDERATE [1] D -NTERSTITAL[-1] [2] D-SLOW [1] D	Ripariar E [3] Zj RE[1]Max 10 Pool/ Current Max 12 Riffle/Ru
4). RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DDWIDE > 50m [4]. DDWODERATE 10-50m DDMODERATE 10-50m DDMARROW 5-10 m [2]. SIFC-VERY NARROW <5 m DDNONE [0]. COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6]. D- 0.7-1m [4]. D- 0.2-0.4m [1]. D- <0.2m [POOL=0]. RIFFLE DEPTH	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R ([Mlost Predominant Per Bank) L R L R (Per Bank) L R (Per Bank) 1. CEREDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTLI [3] D DESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [4] D DESHRUB OR OLD FIELD [1] H D-OPEN PASTURE ROWCROP [0] D D-HEAVY/SEVE [6] D DHESIDENTIAL, RARK, MEW FIELD [1] H D-MINING/CONSTRUCTION [0] D HEAVY/SEVE [7] D DHESIDENTIAL, RARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [8] D DHESIDENTIAL, RARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D DHESIDENTIAL, RARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] D D-HEAVY/SEVE [1] D	Ripariar E [3] Zj RE[1]Max 10 Pool/ Current Max 12 Riffle/Ru
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DDWIDE > 50m [4]. DDWODERATE 10-50m DDMODERATE 10-50m DDMARROW 5-10 m [2]. SIGC VERY NARROW 5-10 m [2]. SIGC VERY NARROW 5-10 m [2]. SIGC VERY NARROW 5-10 m [6]. DNONE [0]. COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D>1m [6]. D0.2-0.4m [1]. D0.2-0.4m [1]. D<0.2-0.4m [1]. D<0.2-0.4m [1]. DSest Areas >10.cm [FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION L R (Most Predominent Per Bank) L R L R (Per Bank) L D DECONSERVATION TILLAGE [1] D D-NONE/LITTLI D D-NONE/LITTLI [3] D DESIDENTIAL, PARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTLI [3] D DESIDENTIAL, PARK, MEW FIELD [1] HEAVY/SEVE D D-HEAVY/SEVE [4] D DESIDENTIAL, PARK, MEW FIELD [1] HEAVY/SEVE D D-HEAVY/SEVE [7] D DESIDENTIAL, PARK, MEW FIELD [1] HEAVY/SEVE D D-HEAVY/SEVE [8] D DECONSTRUCTION TILLAGE [1] D D-HEAVY/SEVE [9] D DECONSTRUCTION TO TILLAGE [1] D HEAVY/SEVE [1] D DECONSTRUCTION TO TILLAGE [1] D HEAVY/SEVE [2] MDRPHOLOGY CURRENT VELOCITY [POOLS & RIFFLESI] [3] D -POOLILWIDTH > RIFFLE WIDTH [2] D -FOORENTIAL	Ripariar E [3] Zj RE[1]Max 10 Pool/ Current Max 12 Riffle/Ru
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DDWIDE > 50m [4]. DDWODERATE 10-50m DDMODERATE 10-50m DDMARROW 5-10 m [2]. SIGC VERY NARROW <5 m DDNONE [0] COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6] D- 0.7-1m [4] D- 0.2-0.4m [1]. D- < 0.2m [POOL=0]. <u>RIFFLE DEPTH</u> D- Best Areas >10 cm [FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. D DHESIDENTIAL, PARK, MEW FIELD [2] D D-NONE/LITTLIAGE [1] D D-NONE/LITTLIAGE [1] D D-NONE/LITTLIAGE [1] D D-NONE/LITTLIAGE [1] [3] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-NONE/LITTLIAGE [1] D D-NONE [2] D D-NONE [2] D D-NONE [2] D D-NONE [2] D D-NONE [1] D D-NONE [2] D D D-NONE	Ripariar E [3] 3 2] RE[1] Max 10 Pool/ Current Max 12 Riffle/Ru SS 5 Max 8
4). RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DD-WIDE > 50m [4] DD-WIDE > 50m [4] DD-MODERATE 10-50m DD-MODERATE 10-50m DD-MARROW 5-10 m [2] SIFC-VERY NARROW <5 m DD-NONE [0] COMMENTS: 5.]POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] D- 0.7-1m [4] D- 0.4-0.7m [2] SIFC 0.2-0.4m [1] D- < 0.2m [POOL=0] <u>RIFFLE DEPTH</u> D- Best Areas > 10 cm [Best Areas 5-10 cm [FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. C (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. C (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. C (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. C (Per Bank) 1. D (Per Bank) 1. R (Per Bank) 1. C (Per Bank) 1. D (Per Bank) 1. R (Per Bank) 1. C (Per Bank) 1. D (Per Bank) 1. R (Per Bank) 1. C (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. C (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. D (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. C (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. D (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. D (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. R (Per Bank) 1. Per	Ripariar E [3] 3 [2] 3 [
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MODERATE 10-50m DD-MORE ROW 5-10 m [2]. SIGC VERY NARROW <5 m DD-NONE [0]. COMMENTS: 5.[POOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6]. D- 0.7-1m [4]. D- 0.2-0.4m [1]. D- (0.2-0.4m [1]. D- (0.2-0.4m [1]. D- Best Areas >10 cm [D- Best Areas <5.cm.	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R (Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. D DHESIDENTIAL, PARK, MEW FIELD [2] D D-NONE/LITTLIAGE [1] D D-NONE/LITTLIAGE [1] D D-NONE/LITTLIAGE [1] D D-NONE/LITTLIAGE [1] [3] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-NONE/LITTLIAGE [1] D D-NONE [2] D D-NONE [2] D D-NONE [2] D D-NONE [2] D D-NONE [1] D D-NONE [2] D D D-NONE	Ripariar E [3] 3 [2] 3 [
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- MODERATE 10-50m DD- MARROW 5-10 m [2]. SITC- VERY NARROW <5 m DD- NONE [0] COMMENTS: 5.JPOOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6] D- 0.7-1m [4] D- 0.4-0.7m [2]. S. 0.2- 0.4m [1] D- < 0.2m [POOL=0] <u>RIFFLE DEPTH</u> D- Best Areas >10 cm [RIFFLE=0]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R (fMost Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. D DHEERST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DHESIDENTIAL, PARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTL [3] D DHESIDENTIAL, PARK, MEW FIELD [1] H. D. OPEN FASTURE, ROWCROP [0] D -HEAVY/SEVE [1] D DHESIDENTIAL, PARK, MEW FIELD [1] H. D. OPEN FASTURE, ROWCROP [0] D -HEAVY/SEVE [1] D DHESIDENTIAL, PARK, MEW FIELD [1] H. D. ONSTRUCTION [0] D -HEAVY/SEVE [1] D DHESIDENTIAL, PARK, MEW FIELD [1] HEAVY/SEVE D -HEAVY/SEVE [1] D DHESIDENTIAL, PARK, MEW FIELD [1] HEAVY/SEVE D -HEAVY/SEVE [1] D DHESIDENTIAL, PARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] D -HEAVY/SEVE [2] MD HEAVED PASTURE [1] D -MINING/CONSTRUCTION [0] D -HEAVY/SEVE D -HEAVY/SEVE [3] C DHECK ONLOGY CURRENT VELOCITY [POOLS & RIFFLESI [] D -HEAVY/SEVE D -HEAVY/SEVE [4] C THE/RUIN QUALITY MODERATE [1] D -HEAVY/SEVE D -HEAVY/SEVE [4] C THE/RUIN DUALITY MODERATE [1] D -HEAVY/SEVE D -HEAVY/SEVE	Ripariar E [3] 3 RE[1] Max 10 Pool/ Current Max 12 Riffle/Ru SS Gradlen S
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MODERATE 10-50m DD-MODERATE 10-50m DD-MORE [0]. COMMENTS: 5.JPOOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D->1m [6]. D-0.7-1m [4]. D-0.4-0.7m [2]. D-0.2-0.4m [1]. D-0.2-0.4m [1]. D-0.2-0.2-0.4m [1]. D-0.2-0.2-0.2-0.2-0.2. RIFFLE DEPTH D-0.2-0.2-0.2-0.2-0.2. RIFFLE DEPTH D-0.2-0.2-0.2-0.2-0.2-0.2. RIFFLE DEPTH D-0.2-0.2-0.2-0.2-0.2-0.2-0.2. RIFFLE DEPTH	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R ((Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. D DHECREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DHESIDENTIAL, PARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTL [4] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1] [5] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1] [6] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-MONSTRUCTION TILLAGE [1] D D-MODERATE [1] [6] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1] [6] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-MONSTRUCTION [0] D HEAVY/SEVE [7] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-MONSTRUCTION [0] D HEAVY/SEVE [8] C DECEN OWE CR CHECK CURRENT VELOCITY [POOLS & RIFFLESI] (Check All That Apply) [9] D-POOLLWIDTH = RIFFLE WIDTH [2] D -EDDHESITIAL[-1] D -NORERATE [1] D -NTERSTITIAL[-1] [9] POOLLWIDTH = RIFFLE W. [0] D -MODERATE [1] D -NTERSTITIAL[-1] D -NORERATE [1] D -NTERSTITIAL[-1] [1] D-POOLLWIDTH = RIFFLE W. [0] D -NORE CHECK COME	Ripariar E [3] 3 [2] 3 [
4]. RIPARIAN ZONE AN <u>RIPARIAN WIDTH</u> 1. R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m DD- MADERATE 10-50m DD- MARROW 5-10 m [2]. SITC- VERY MARROW <5 m DD- NONE [0] COMMENTS: 5.JPOOL/GLIDE AND R <u>MAX. DEPTH</u> (Check 1 ONLYI). D- >1m [6] D- 0.7-1m [4] D- 0.4-0.7m [2]. SE 0.2- 0.4m [1] D- (0.2- 0.4m [1]) D- (0.2- 0.4m [1]) D- 8est Areas > 10 cm [Best Areas < 5 cm [RIFFLE=0] COMMENTS: 6] GRADIENT (ft/mi):	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAM) BANK EROSION 1. R ((Most Predominant Per Bank) 1. R 1. R (Per Bank) 1. R (Per Bank) 1. D DHECREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DHESIDENTIAL, PARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-NONE/LITTL [4] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1] [5] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1] [6] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-MONSTRUCTION TILLAGE [1] D D-MODERATE [1] [6] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [1] [6] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-MONSTRUCTION [0] D HEAVY/SEVE [7] D DHESIDENTIAL, PARK, MEW FIELD [1] D D-MONSTRUCTION [0] D HEAVY/SEVE [8] C DECEN OWE CR CHECK CURRENT VELOCITY [POOLS & RIFFLESI] (Check All That Apply) [9] D-POOLLWIDTH = RIFFLE WIDTH [2] D -EDDHESITIAL[-1] D -NORERATE [1] D -NTERSTITIAL[-1] [9] POOLLWIDTH = RIFFLE W. [0] D -MODERATE [1] D -NTERSTITIAL[-1] D -NORERATE [1] D -NTERSTITIAL[-1] [1] D-POOLLWIDTH = RIFFLE W. [0] D -NORE CHECK COME	Ripariar E [3] 3 RE[1]Max 10 Pool/ Current Max 12 Riffle/Ru SS Gradlen S

River Code: 네	RM: Stream	a: Mud	Creek		
ate: 4/25/05	Location: 116				
corers Full Name:	GRB Affilia				
	ONLY Twinto SubstrateTYPE		imate % present		
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D-BLOR /SLBS(10)	GRAVEL [7]		ck ONE (OR 2 & AVERAGE		
D-BOULDER [9]	DILLI-SAND [6] X		-LIMESTONE [1] SILT	- SILT HEAVY [-2]	
	BEDROCK[5]	`¤	(-TILLS [1]	D-SILT MODERATE [1] Substr
ICHARDPAN [4]	DETRIFUS[3]	0	-WETLANDS[0]	SILT NORMAL [0]	Etix
TE-MUCK [2]		C	I-HARDPAN [0]		_ <u>[[]</u>
10-SILT [2]	NiCITE: Ignore Studge Origi Fracm Point Sources	rawig E	-SANDSTONE [0] EMB	그는 것 같은 것 같	Max 2
			I-RIP/RAP [0] NES		
NUMBER OF SUBSTRATE T High Quality Only, Score 5	the state of the s		-LACUSTRINE [0]	DK-NORMAL [0]	
OMMENTS	or >) 52-3 or Less [0]		I-SHALE [-1] HCOAL FINES [-2]	D-NONE [1]	
	Give each cover type a scon			AMOUNT: (Check ONLY C	loe or
(Structure)	TYPE: Score All Th		HER DECK IOF INSULGUOIS	check 2 and AVERAGE)	Cove
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COVERHANGING VEGETAT			AQUATIC MACROPHYTES		- 11 /
SHALLOWS (IN SLOW WA	TER) [1]BOULDERS [1	1 2	LOGS OR WOODY DEBRIS		Max 2
KROOTMATS [1] COM	MENTS:			- NEARLY ABSENT < 5%	6[1]
Construction of the second	OGY: (Check ONLY One F	the set of		RAGE)	Chase
territed division	LOPMENTT CHANNELIZAT			FICATIONS/OTHER	Channe
	EXCELLENT [7] D- NONE [6			NAGGING D-IMPOUND.	19
the second se	5000 [5] 2 RECOVE FAIR [3] D - RECOVE	the second s	- MODERATE [2] - R		
	AIN [J] M- NECUYE				
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OMMENTS:	COR [1] D- RECENT RECOVERY (BANK EROSION check ON	OR.NO. H	D-D D-0	REDGING 12 - BANK SHAP WE SIDE CHANNEL MODIFICATION E per bank) PRiver Right Look	ING IS ing Downstr
OMMENTS:]. RIPARIAN ZONE AND RIPARIAN WIDTH	COR [1] D- RECENT RECOVERY (BANK EROSION check ON	OR.NO. +} = box per bar AIN QUALIT	L-D D-O	REDGING 12 - BANK SHAP WE SIDE CHANNEL MODIFICATION E per bank) PRiver Right Look	1NG 15 ing Downstr
OWMENTS:]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) ID- WIDE > 50m [4].	POOR [1]] D- RECENT RECOVERY [BANK EROSION(check ONE FLOOD PL L R ([Most Predominant F D D)FEDREST, SWAMP [3]	OR.NO #} Ebox per bar AIN QUALIT Per Bank)	L - D D - O nk or check 2 and AVERAG Y (PAST 100 Meter RIP)	REDGING II- BANK SHAP WE SIDE CHANNEL MODUFICATION E per bank) PRiver Right Look <u>ARIAN) BANK EROSION</u> L R (Per Bank) LLAGE [1] D, D; NONE/LITTL	ing Downstr Riparia E [3]
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OWMENTS:]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) ID- WIDE > 50m [4]. D- MODERATE 10-50m [3] Q - NARROW 5-10 m [2]	POOR [1]] D- RECENT RECOVERY [BANK EROSION check ON FLOOD PI L & (Most Predominant F D D FEDREST, SWAMP [3] D SSHRUB OR OLD FIELD D DRESIDENTIAL, PARK, ME	OR.NO. 1 2 box per bar AIN QUALIT Per Bank) [2] 24 FIELD [1]	L - D k or check 2 and AVERAG Y (PAST 100 Meter RIP/ L R D D-CONSERVATION TH D D-CONSERVATION TH D D-URBAN OR INDUS D D-OPEN RASTURE, R	REDGING I- BANK SHAP We side channel modufication E per bank) River Right Look <u>ARIAM</u> BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-MODERATE [OWCROP [0] D D-HEAVY/SEVE	ING IS Ing Downstr Riparia E [3]
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OMMENTS: I. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- WIDE > 50m [4] D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- VERY NARROW <5m[1 D- VERY NARROW <5m[1] D- NONE [0] MINENTS: JPOOL/GLIDE AND RIF MAX. DEPTH	POOR [1]] D- RECENT RECOVERY [BANK EROSION check ON <u>FLOOD PI</u> L R ([Most Predominant F D D FEDREST, SWAMP [3] D D FEDREST, SWAMP [3] D D RESIDENTIAL, PARK, ME 1 D HEENCED PASTURE [1]	OR.NO. 17 E box per bar AIN QUALIT Per Bank) [2] SW FIELD [1]	L - D L - D k or check 2 and AVERAG Y (PAST 100 Meter RIP) L - R D D-CONSERVATION TH D D-CONSERVATION TH D D-URBAN OR INDUS D D-OPEN PASTURE,R D D-MINING/CONSTRU	REDGING I - BANK SHAP WE SIDE CHANNEL MODUFICATION E per bank) PRIVER Right Look <u>ARIAN</u> <u>BANK EROSION</u> L R (Per Bank) LLAGE [1] D - NONE/LITTL TRIAL [0] D - NONE/LITTL TRIAL [0] D - NONE/LITTL TRIAL [0] D - HEAVY/SEVE JCTION [0]	HNG IS Riparia E [3] E [3] RE[1] ^{Max 10} Pool/
OMMENTS: I. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- WIDE > 50m [4]. D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- VERY NARROW <5 m[1] D- VERY NARROW <5 m[1] D- NONE [0] MINE MISS: JPOOL/GLIDE AND RIF MAX. DEPTH Check 1 ONLY[]	POOR [1]] D- RECENT RECOVERY [BANK EROSION(check ONE <u>FLOOD PI</u> L R ([Most Predominant F D DFEDREST, SWAMP [3] D DFEDREST, SWAMP [3	OR.NO. †} E box per bar <u>AIN QUALIT</u> Per Bank) [2] SW FIELD [1]	L - D L - D k or check 2 and AVERAG Y (PAST 100 Meter RIP) L - R D D-CONSERVATION TH D D-CONSERVATION TH D D-URBAN OR INDUS D D-OPEN PASTURE,R D D-MINING/CONSTRU	REDGING I- BANK SHAP WE SIDE CHANNEL MODIFICATION E per bank) PRIVER Right Look <u>ARIAN</u> <u>BANK EROSION</u> L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL COMCROP [0] D -HEAVY/SEVE JCTION [0]	HNG IS Riparia E [3] E [3] RE[1] ^{Max 10} Pool/
OMMENTS: I. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- WIDE > 50m [4] D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] C- NARROW 5-10 m [2] D- NONE [0] MINE WIS: JPOOL/GLIDE AND RIF MAX. DEPTH Check 1 ONLYI) - >1m [6] D- 0.7-1m [4]	POOR [1]] D- RECENT RECOVERY [BANK EROSION check ON <u>FLOOD PI</u> L R (Most Predominant F D DFEDREST, SWAMP [3] D DFEDREST, SWAMP [3]	OR.NO. †} E box per bar AIN QUALIT Per Bank) [2] SW FIELD [1] SW FIELD [1] H] [2]	L - D L - D k or check 2 and AVERAG Y (PAST 100 Meter RIP) L - R D D-CONSERVATION TH D D-CONSERVATION TH D D-URBAN OR INDUS D D-OPEN PASTURE,R D D-MINING/CONSTRU <u>CURRENT VEL</u> (Chec	REDGING I- BANK SHAP WE SIDE CHANNEL MODUFICATION E per bank) PRIVER Right Look ARIAN) BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL ROMCROP [0] D -HEAVY/SEVE JCTION [0] DCTION [0] DCTION [0]	ring Downstr Riparia E [3] [6] RE[1] ^{Max 10} Curren
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OMMENTS: I. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- WIDE > 50m [4]. D- MODERATE 10-50m [3]. C- NARROW 5-10 m [2] D- NONE [0] D- N	POOR [1]] D-RECENT RECOVERY [BANK EROSION(check ONE <u>FLOOD PI</u> L R ([Most Predominant F D DFEDREST, SWAMP [3] D DESSHRUB OR OLD FIELD D DRESIDENTIAL, PARK, NE D DRESIDENT	OR.NO. 17 E box per bar AIN QUALIT Per Bank) [2] SW FIELD [1] GE) FIH[2] TH [1]	L - D L - D k or check 2 and AVERAG Y (PAST 100 Meter RIP) L - R D D-CONSERVATION TH D D-CONSERVATION TH D D-URBAN OR INDUS D D-OPEN PASTURE,R D D-OPEN PASTURE,R D D-OPEN PASTURE,R D D-OPEN PASTURE,R D D-OPEN PASTURE,R D D-CONSERVATION TH D D-CONS	REDGING I- BANK SHAP WE SIDE CHANNEL MODUFICATION E per bank) PRIVER Right Look ARIAN BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL ROWCROP [0] D -HEAVY/SEVE JCTION [0] D-TORRENTIAL [-1] D-NORENTIAL [-1]	ring Downstr Riparia E [3] [6] RE[1] ^{Max 10} Curren
DAMAENTS: RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- WIDE > 50m [4] D- WODERATE 10-50m [3] D- MODERATE 10-50m [2] D- NORE RATE 10-50m [2] D- VERY NARROW <5 m[1] D- NONE [0] MMENTS: JPOOL/GLIDE AND RIF <u>AAX. DEPTH</u> Check 1 ONLYI) + >1m [6] - 0.7-1m [4] \$ \$.4+\$.7m [2] - 0.2- 0.4m [1]	POOR [1]] D-RECENT RECOVERY [BANK EROSION(check ONE <u>FLOOD PI</u> L R ([Most Predominant F D DFEDREST, SWAMP [3] D DESSHRUB OR OLD FIELD D DRESIDENTIAL, PARK, NE D DRESIDENT	OR.NO. 17 E box per bar AIN QUALIT Per Bank) [2] SW FIELD [1] GE) FIH[2] TH [1]	L -D L -D L -D L -D L -D CONSERVATION TH D D-CONSERVATION TH D D-CONSERVATION TH D D-URBAN OR INDUS D D-OPEN PASTURE,R D D-OPEN PASTURE,	REDGING I-BANK SHAP WE SIDE CHANNEL MODUFICATION E per bank) PRIVER Right Look ARIAN BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL REDGING OF [0] D-HEAVY/SEVE DCTION [0] D-TORRENTIAL [-1] D-NIERSTITAL [-1] D-HIERSTITAL [-1]	ring Downstr Riparia E [3] [6] RE[1] ^{Max 10} Curren
OMMENTS: I. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- WIDE > 50m [4]. D- MODERATE 10-50m [3]. C- NARROW 5-10 m [2]. I- VERY NARROW <5 m[1]. D- NONE [0]. SHMENTS: JPOOL/GLIDE AND RIF MAX. DEPTH Check 1 ONLYI) I- >1m [6]. I. 0.7-1m [4]. K 2.4-0.7m [2]. I- 0.2- 0.4m [1].	POOR [1]] D- RECENT RECOVERY [BANK EROSION(check ONE FLOOD PI L R ([Most Predominent F D DFEDREST, SWAMP [3] D DFEDREST, SWAMP [3]	OR.NO. f Ebox per bar AIN QUALIT Per Bank) [2] SW FIELD [1] SW FIELD [1] GE) TH [1] 0].	L-D D-D D-D D-D D-D L-R D-CONSERVATION TH D-CONSERVATION TH D-CONSERVATION TH D-CONSERVATION TH D-OPEN RASTURE,R D-OPEN RASTURE,R D-OPEN RASTURE,R D-D-DEN RASTURE,R D-D-DEN RASTURE,R D-D-CONSERVATION TH D-CONSERVATION TH D-C	REDGING I-BANK SHAP WE SIDE CHANNEL MODUFICATION E per benk) PRIVER Right Look ARIAN BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL CONCROP [0] D D-HEAVY/SEVE D-TORRENTIAL [-1] D-NIERSTITLAL [-1] D-VERY FAST[1]	ring Downstr Riparia E [3] Co RE[1] ^{Max 10} Pool/ Curren Max 12
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OMMENTS:]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- NONE [0] DMMENTS: JPOOL/GLIDE AND RIF MAX. DEPTH Check 1 ONLYI) -> 1m [6] 1- 0.7-1m [4] & 0.4-0.7m [2] -0.2- 0.4m [1] -< 0.2m [POOL=0] <u>IFTLE DEPTH</u> - Best Areas >10 cm [2] - Best Areas <-5 cm [RIFFLE=0]	POOR [1]] D-RECENT RECOVERY [BANK EROSION(check ONE FLOOD PI L R ([Most Predominent F D DFEDREST, SWAMP [3] D	OR.NO. 47 E box per bar AIN QUALIT Per Bank) [2] CW FIELD [1] CW FIELD [1] CONE OR C RIFFLE CONE OR C RIFFLE CONE OR C	L -D L -D L -D CONSERVATION TH D CONSERVATION TH CONSERVATION TH CONSERVATION CONSERVATION TH CONSERVATION TH C	REDGING I-BANK SHAP WE SIDE CHANNEL MODUFICATION E per benk) PRIVER Right Look ARIAN BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL COUCROP [0] D -HEAVY/SEVE SCTION [0] D-TORRENTIAL[-1] D-TORRENTIAL[-1] D-NTERSTITIAL[-1] D-NTERSTITIAL[-1] D-NTERSTITIAL[-1] CHTERWITTENT[-2] EI-VERY FAST[1] GE RIFTLE/RUN EMBEDDEDNE [Z] D-NONE [Z] I] D-LOW [1] D] M-MODERATE [0] D-EXTENSIVE [-1]	ring Downstr Riparia E [3] [6] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
OMMENTS:]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- NONE [0] DMMENTS: JPOOL/GLIDE AND RIF MAX. DEPTH Check 1 ONLYI) -> 1m [6] 1- 0.7-1m [4] & 0.4-0.7m [2] -0.2- 0.4m [1] -< 0.2m [POOL=0] <u>IFTLE DEPTH</u> - Best Areas >10 cm [2] - Best Areas <-5 cm [RIFFLE=0]	POOR [1]] D-RECENT RECOVERY [BANK EROSION(check ONE FLOOD PI L R ([Most Predominent F D DFEDREST, SWAMP [3] D	OR.NO. 47 E box per bar AIN QUALIT Per Bank) [2] CW FIELD [1] CW FIELD [1] CONE OR C RIFFLE CONE OR C RIFFLE CONE OR C	L -D L -D L -D CONSERVATION TH D CONSERVATION TH CONSERVATION TH CONSERVATION CONSERVATION TH CONSERVATION TH C	REDGING I-BANK SHAP WE SIDE CHANNEL MODUFICATION E per benk) PRIVER Right Look ARIAN BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL RIAL [0] D-NONE/LITTL COUCROP [0] D -HEAVY/SEVE SCTION [0] D-TORRENTIAL [-1] D-NORENTIAL [-1] D-NORESTITAL [-1] D-NORESTITAL [-1] CHARTERWITTENT [-2] D-VERY FAST [1] GE RIFTLE/RUN EMBEDDEDNE [2] D-NONE [2] N) [1] D-LOW [1] D] M-MODERATE [0]	ring Downstr Riparia E [3] [6] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
OMMENTS:]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- MODERATE 10-50m [3] - MARROW 5-10 m [2] D- MODERATE 10-50m [3] - NARROW 5-10 m [2] D- NONE [0] MMENTS: JPOOL/GLIDE AND RIF MAX. <u>DEPTH</u> Check 1 ONLYI) - >1m [6] 1 - 0.7-1m [4] & 0.4-0.7m [2] - 0.2- 0.4m [1] - < 0.2m [POOL=0] <u>EFFLE DEPTH</u> - Best Areas >10 cm [2] - Best Areas < 5 cm [RIFFLE=0] OMMENTS:	POOR [1]] D- RECENT RECOVERY [BANK EROSION(check ONE FLOOD PI L & ([Most Predominant f D DFEDREST, SWAMP [3] D DEFEDREST, SWAMP [3] D DE	OR.NO. AIN QUALTI Per Bank) [2] W FIELD [1] W FIELD [1] GE TH [1] GI CONE OR C RIFFLE CONE OR C RIFFLE CONSTABLE CONSTAB	L -D L -D L -D L -R D -CONSERVATION TH D -URBAN OR INDUS D -URBAN OR INDUS D -OPEN RASTURE,R D -OPEN RASTURE,R D -OPEN RASTURE,R D -EDDIES[1] D -FAST[1] M-FAST[1] M-FAST[1] M-FAST[1] M-FAST[1] M-SUBSTRATE (e.g.,Cobble, Boulder) [ABLE (e.g.,Large Grave LE (Fine Gravel,Sand) [i 	REDGING I-BANK SHAF WE SIDE CHANNEL MODUFICATION E per benk) PRIVER Right Look ARIAN BANK EROSION L R (Per Bank) LLAGE [1] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL TRIAL [0] D-NONE/LITTL COUCROP [0] D -HEAVY/SEVE SCTION [0] D-TORRENTIAL[-1] D-TORRENTIAL[-1] D-NTERSTITIAL[-1] D-NTERSTITIAL[-1] D-NTERSTITIAL[-1] CHTERWITTENT[-2] D-VERY FAST[1] GE RIFTLE/RUN EMBEDDEDNE [2] D-NONE [2] N) [1] D-LOW [1] D] A. MODERATE [0] D-EXTENSIVE [-1] FLE [Metric=0]	ring Downstr Riparia E [3] [6] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
DAMAENTS: . RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> R (Per Bank) D- MODERATE 10-50m [3] D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- MODERATE 10-50m [3] C- NARROW 5-10 m [2] D- NONE [0] MINEWTS: IPOOL/GLIDE AND RIF AAX. DEPTH Check 1 ONLYI) ->1m [6] -0.7-1m [4] & 6.4+0.7m [2] -0.2- 0.4m [1] ->0.2 m [POOL=0] FFLE DEPTH - Best Areas >10 cm [2] - Best Areas <5 cm [RIFFLE=0]	POOR [1]] D-RECENT RECOVERY [BANK EROSION(check ONE FLOOD PI L R ([Most Predominent F D DFEDREST, SWAMP [3] D	OR.NO. AIN QUALTI Per Bank) [2] W FIELD [1] W FIELD [1] GE TH [1] GI CONE OR C RIFFLE CONE OR C RIFFLE CONSTABLE CONSTAB	L -D L -D L -D CONSERVATION TH D CONSERVATION TH CONSERVATION TH CONSERVATION CONSERVATION TH CONSERVATION TH C	REDGING I - BANK SHAP WE SIDE CHANNEL MODUFICATION L R (Per Bank) LLAGE [1] D-NORE/LITTL TRIAL [0] DWCROP [0] OCCITY [POOLS & RIFFLES!] WCROP [0] OCTION [0] OCCITY [POOLS & RIFFLES!] D-NORE/LITTL OWCROP [0] OCCITON [0] <tr< td=""><td>ring Downstr Riparia E [3] [6] RE[1]^{Max 10} Current Max 12 Riffle/Re SS [3] Max 8 Gradled</td></tr<>	ring Downstr Riparia E [3] [6] RE[1] ^{Max 10} Current Max 12 Riffle/Re SS [3] Max 8 Gradled

River Code: 5	RM: Str	eam:	Mud Creek			
Date: 4/24/08	Location:	Fall Cr.	Parkway			
Scorers Full Name:		filiation:				
1] SUBSTRATE (Check	ONLY Two SubstrateTYP	PE BOXES; I	Estimate % present	80 - R		. ei -
TYPE PO			E SUBSTRATE ORIGIN		SUBSTRATE QUALITY	Contraction of the second s
DD-BLDR /SLBS[10]	00-GRAVEL [7]	5-6			D-SILT HEAVY [-2]	
DD-BOULDER [9]	DISAND [6]	<u>A</u>	SETTLLS [1]	SILI.	TASILT MODERATE [-	1) Subst
DICOBBLE [8]			D -WETLANDS[0]		D-SILT NORMAL [0]	E.
			D-HARDPAN [0]		D-SILT FREE [1]	_ 115
DELSILT [2]	NOTE: Ignore Studger	Originating	-SANDSTONE [0]	EMBEDDE		Max
			D-RIP/RAP [0]	NESS:	-MODERATE [-1]	
NUMBER OF SUBSTRATE			D -LACUSTRINE [0]		D-NONE [1]	
(High Quality Only, Score	5 or >) "III or Less [0]	1	D-SHALE [-1]		D-HOHE [[]	
21 INSTREAM COVER	(Give each cover type a	score of 0 to		ctions)	AMOUNT: (Check ONLY C	ne or
(Structure)	TYPE: Score /	All That Occur	A CONTRACTOR OF		check 2 and AVERAGE)	
UNDERCUT BANKS [1]		70 cm [2]	OXBOWS, BACKWA		- EXTENSIVE > 75% [1"	
					- MODERATE 25-75%	[7] [[1] Max
SHALLOWS (IN SLOW		ERS [1]	KLOGS OR WOODY	A COLOR DOT 10 COLOR	 SPARSE 5-25% [3] NEARLY ABSENT < 59 	
X ROOTMATS [1] C	OMMENTS: OLOGY: (Check ONLY C	Doe PER Cat	ecory OR check 2 and			
		ELIZATION	STABILITY	MODIFICATIO		Char
	- EXCELLENT [7] X - NO	the second se	0- HIGH [3]	1 - SNAGGI		14
		COVERED [4]	이 집에서 아이가 가지 않는 것이 같이 많이 많다.			LT LT
		COVERING [3		D - CANOPY	REMOVAL D - LEVEED	Max NNG
D- NONE [1].	a naamfal	CENT, OR NO ERY [1]			E CHANNEL MODIFICATION	
COMMENTS:	ILLCON	ere fit				
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-50m CD- NARROW 5-10 m [FLO L. R. (Mosst Predomi COSC FOREST, SWAMD Tr [3] D D-SHRUB OR OLD	IOD PLAIN QU Inant Per Bar P [3] FIELD [2]	er bank or check 2 and A JALITY (PAST 100 Met IAK) L R D D CONSERVA ET D - URBAN OF D [1] D D - OPEN RAS	TION TILLAGE	BANK EROSIO L R (Per Bank) [1] D NONE/LITT [0] D MODERATE	
RIPARIAN WIDTH 1. R (Per Bank) D.D WIDE > 50m [4]. D.D MODERATE 10-50m D.D MARROW 5-10 m [FLO L. R. (Mosst Predomi COSC FOREST, SWAMD Tr [3] D D-SHRUB OR OLD	OD PLAIN QU nant Per Bar P [3] FIELD [2] ARK, NEW FIEL	JALITY (PAST 100 Met nk) L R D D-CONSERVA D D-URBAN OF	tion tillage NDUSTRIAL TURE, ROWCR	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-MODERATE [0] D-HEAVY/SEV	
RIPARIAN WIDTH L R (Per Benk) DD-WIDE > 50m [4]. DD-MODERATE 10-50m CD-NARROW S-10 m [DD-VERY NARROW <5	FLO L. R. (Minest Predomi CDS: FOREST, SWAM n. [3] D. D-SHIRUB OR OLD 2] D. D-RESEIDENTIAL, P	OD PLAIN QU nant Per Bar P [3] FIELD [2] ARK, NEW FIEL	JALITY (PAST 100 Met nk) L R D D CONSERVA D D URBAN OF D [1] D D OPEN RAS	tion tillage NDUSTRIAL TURE, ROWCR	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-MODERATE [0] D-HEAVY/SEV	
RIPARIAN WIDTH L R (Per Benk) DD- WIDE > 50m [4] DD- MODERATE 10-50m COMMENTS: COMMENTS:	FLO L R (Mussi Predomi D'Strunest, Swam n [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL,R m[1] D D -FENCED PASTU	OD PLAIN QU nant Per Bar P [3] FIELD [2] ARK, NEW FIEL	JALITY (PAST 100 Met nk) L R D D CONSERVA D D URBAN OF D [1] D D OPEN RAS	tion tillage NDUSTRIAL TURE, ROWCR	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-MODERATE [0] D-HEAVY/SEV	
RIPARIAN WIDTH L R (Per Benk) DD- WIDE > 50m [4] DD- MODERATE 10-50m COMMENTS: COMMENTS:	FLO L. R. (Minest Predomi CDS: FOREST, SWAM n. [3] D. D-SHIRUB OR OLD 2] D. D-RESEIDENTIAL, P	OD PLAIN QU mant Per Bar P [3] FIELD [2] ARK, MEW FIEL IRE [1]	JALITY (PAST 100 Met hk) L R D D-CONSERVA D D-URBAN OF D [1] D D-OPEN PAS D D-MINING/C	ET RIPARIAN FION TILLAGE HINDUSTRIAL TURE,ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D -NONE/LUTT [0] D -MODERATE 20P [0] D -HEAVY/SEV N [0] N -HEAVY/SEV	N Ripe LE [3] [2] ERE[1] ^{Max} Po
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m CO- MARROW S-10-m [DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND T MAX. DEPTH (Check 1 ONLY!).	FLO L R (Mussi Predomi L R (Mussi Predomi L R FURESI, SWAM n [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL,R m[1] D D RESIDENTIAL,R m[1] D D RESIDENTIAL,R M R R R R R R R R R R R R R R R R R R R	NOD PLAIN QU mant Per Bar P[3] FIELD [2] ARK, MEW FIEL IRE [1] YERAGE)	JALITY (PAST 100 Met hk) L R D D-CONSERVA D D-URBAN OF D [1] D D-OPEN RAS D D-MINING/C	ET RIPARIAN FION TILLAGE HINDUSTRIAL TURE, ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D [1] D [0] D [0] D [0] D [0] D [0] D [1] D [0] D [1] D [1] D [1] D [2] HoodeRate [2] D [4] D [6] D Y [POOLS & RIFFLES That Apply)	N Ripe LE [3] [2] ERE[1] ^{Max} Po
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m CO- MARROW S-10-m [DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND T MAX. DEPTH (Check 1 ONLY). D > 1m [6]	FLO L R (Mussi Predomi L R (Mussi Predomi L R FLIRESI, SWAM n [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL,R m[1] D D RESIDENTIAL,R m[1] D D RESIDENTIAL,R MORTPHOLOGY	OD PLAIN QL mant Per Bar P[3] FIELD [2] ARK, MEW FIEL IRE [1] Y VERAGE E WIDTH [2]	JALITY (PAST 100 Met hk) L R D D-CONSERVA D D-URBAN OF D [1] D D-OPEN RAS D D-MINING/C <u>CURRE</u> D-EDDIES[1]	ET RIPARIAN FION TILLAGE HINDUSTRIAL TURE, ROWCR ONSTRUCTIO ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D I-NONE/LITT [0] D I-HEAVY/SEV N [0] I I-HEAVY/SEV Y [POOLS & RIFFLES That Apply) -TORRENTIAL[-1]	N Ripe LE [3] [2] ERE[1] ^{Max} Po
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m COD- MARROW S-10-m [DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND T MAX. DEPTH (Check 1 ONLY!) D- >tm [6] - Flx. 0.7-1m [4]	FLO L R (Mussi Predomi L R (Mussi Predomi L R FLIRESI, SWAM m[3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] D D FEINCED PASTO RIFFLE/RUN COUALITY <u>MORPHOLOG</u> (Check 1 or 2 & A POOL WOTH - RIFFL D-POOL WOTH = RIFFL	ND PLAIN QU Inant Per Bar P[3] FIELD [2] ARK, NEW FIEL IRE [1] YERAGE E WIDTH [2] E WIDTH [1]	JALITY (PAST 100 Met hk) L R D D-CONSERVA D D-URBAN OF D [1] D D-OPEN RAS D D-MINING/C	ET RIPARIAN FION TILLAGE HINDUSTRIAL TURE, ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D [1] D [0] D [0] D [0] D [0] D [0] D [1] D [0] D [1] D [1] D [1] D [2] HoodeRate [2] D [4] D [6] D Y [POOLS & RIFFLES That Apply)	N Ripe LE [3] [2] ERE[1] ^{Max} Po
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m CO- MARROW S-10-m [DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND T MAX. DEPTH (Check 1 ONLY). D > 1m [6]	FLO L R (Mussi Predomi L R (Mussi Predomi L R FLIRESI, SWAM n [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL,R m[1] D D RESIDENTIAL,R m[1] D D RESIDENTIAL,R MORTPHOLOGY	ND PLAIN QU Inant Per Bar P[3] FIELD [2] ARK, NEW FIEL IRE [1] YERAGE E WIDTH [2] E WIDTH [1]	UALITY (PAST 100 Met 1) L R D D-CONSERVA D D-URBAN OF D [1] D D-OPEN RAS D D-MINING/C CURRE D-EDD(ES[1]]	ET RIPARIAN FION TILLAGE HINDUSTRIAL TURE, ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D -NONE/LITT [0] D -NONE/LITT [1] D -NONE/LITT [1] D -NONE/LITT [2] D - NONE/LITT [3] D - NONE/LITT [4] POOLS & RIFFLES That Apply) -TORRENTIAL[-1] INTERSTITIAL[-1]	N Ripe LE [3] [2] ERE[1] Max ERE[1] Max
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-50m COM- MARROW S-10-m [DD- VERY MARROW S-10-m [DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI) D- >1m [6] EL- 0.7-1m [4]	FLO L R (Mussi Predomi L R (Mussi Predomi L R FLIRESI, SWAM m[3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] D D FEINCED PASTO RIFFLE/RUN COUALITY <u>MORPHOLOG</u> (Check 1 or 2 & A POOL WOTH - RIFFL D-POOL WOTH = RIFFL	ND PLAIN QU Inant Per Bar P[3] FIELD [2] ARK, NEW FIEL IRE [1] YERAGE E WIDTH [2] E WIDTH [1]	LALITY (PAST 100 Met hk) L R D D-CONSERVA D D-URBAN OF D [1] D D-OPEN RAS D D-MINING/C CURRE D-EDOIES[1] D-FAST[1] X MODERATI	ET RIPARIAN FION TILLAGE HINDUSTRIAL TURE, ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [1] D-NONE/LITT [1] D-NONE/LITT [1] D-NONE/LITT [2] D-NONE/LITT [3] D-NONE/LITT [4] POOLS & RIFFLES That Apphy) - -TORRENTIAL[-1] - INTERSTITIAL[-1] -	N Ripe LE [3] [2] ERE[1] Max ERE[1] Max
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-50m CDD- MODERATE 10-50m CDD- MARROW S-10-m [DD- VERY NARROW S-10-m [DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI) D > 1m [6] E- 0.7-1m [4] D- 0.4-0.7m [2] D- 0.2- 0.4m [1]	FLO L R (Mussi Predomi L R (Mussi Predomi L R FURESI, SWAM r [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL, N m[1] D D FENCED PASTO RIFFLE/RUN ODUALITY <u>MORPHOLOG</u> (Check 1 or 2 & A POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL	KOD PLAIN QL inant Per Bar P[3] FIELD [2] ARK, NEW FIEL IRE [1] Y VERAGE) E WIDTH [2] E WIDTH [1] E W. [6]	JALITY (PAST 100 Met hk) L R D D CONSERVA D D D CONSERVA D D D D D D D D D D D D D D D D D D D	ET RIPARIAN TION TILLAGE NOUSTRIAL TURE, ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [1] D-NONE/LITT [1] D-NONE/LITT [1] D-NONE/LITT [2] D-NONE/LITT [3] D-NONE/LITT [4] POOLS & RIFFLES That Apphy) - -TORRENTIAL[-1] - INTERSTITIAL[-1] -	N Rips LE [3] [2] ERE[1] Max
RIPARIAN WIDTH L R (Per Bank) DD: WIDE > 50m [4] DD: WIDE > 50m [4] DD: MODERATE 10-50c CD: MARROW 5-10 m [DD: VERY MARROW <5	FLO L R (Mussi Predomi CISE FUREST, SWAMI m [3] C D-SHRUB OR OLD 2] D D-RESIDENTIAL,R m[1] C D -FENCED PASTO RIFFLE/RUN ODUALITY <u>MORPHOLOG</u> (Check 1 or 2 & A - POOL WIDTH - RIFFL D -POOL WIDTH - RIFFL D -POOL WIDTH - RIFFL COMMENTS:	NOD PLAIN QU inant Per Bar P[3] FIELD [2] ARK, NEW FIEL IRE [1] Y VERAGE) E WIDTH [1] E WIDTH [1] E WIDTH [1] E W. [0]	JALITY (PAST 100 Met This) L R D D CONSERVAT D D CONSERVAT D D D CONSERVAT D D D CONSERVAT D D D CONSERVAT D	ET RIPARIAN TION TILLAGE NDUSTRIAL TURE, ROWCR ONSTRUCTIO	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [1] D-NONE/LITT [1] D-NONE/LITT [1] D-NONE/LITT [2] D-NONE/LITT [3] D-NONE/LITT [4] POOLS & RIFFLES That Apphy) - -TORRENTIAL[-1] - INTERSTITIAL[-1] -	N Rippe LE [3] [2] ERE[1] Max Riffle ESS
RIPARIAN WIDTH L R (Per Bank) DD: WIDE > 50m [4] DD: WIDE > 50m [4] DD: MODERATE 10-50c CHO: MARROW S-10 m [DD: VERY MARROW <5	FLO L R (Mussi Predomi CISE FUREST, SWAM T[3] C D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] C C FERICED PASTO RIFFLE/RUN TOULALITY <u>MORPHOLOG</u> (Check 1 or 2 & A POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL COMMENTS: <u>RUIN DEPTH</u>	KOD PLAIN QL Inant Per Bar P[3] FIELD [2] ARK, NEW FIEL IRE [1] Y VERAGE) E WIDTH [2] E WIDTH [1] E W. [0] E WIDTH [1]	JALITY (PAST 100 Met hk) L R D D CONSERVA D D CONSERVA D D D OPEN PAS D D - OPEN PAS D D - MINING/C D - EDDIES[1] D - FAST[1] M- MODERATI S.SLOW [1] OR CHECK 2 AND A FFLE/RUN SUBSTRATI	ET RIPARIAN	BANK EROSIO L R (Per Bank) [1] D [2] HODERATE [2] D [4] D [6] D [7] D [8] D [9] D [1] D [1] D [1] D [1] D [2] POOLS & RHFFLES That Apphy) - -TORRENTIAL[-1] INTERSTITIAL[-1] INTERNITIAL[-1] -VERY FAST[1]	N Ripe LE [3] [2] GRE[1] Max Nam Riffle
RIPARIAN WIDTH L R (Per Bank) DD: WIDE > 50m [4] DD: WIDE > 50m [4] DD: MODERATE 10-50c CD: MARROW 5-10 m [DD: VERY MARROW <5	FLO L R (Mussi Predomi CDS FURESI, SWAM r [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] D D FENCED PASTO RIFFLE/RUN ODUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & A POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL COMMENTS: <u>RUN DEPTH</u> [2] Q - MAX:> 50	OD PLAIN QL mant Per Bar P[3] FIELD [2] ARK, NEW FIEL RE [1] Y VERAGE) E WIDTH [2] E WIDTH [1] E W. [0]. CHECK ONE RE ZI	JALITY (PAST 100 Met This) L R D D CONSERVAT D D CONSERVAT D D D CONSERVAT D D D CONSERVAT D D D CONSERVAT D	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All E [1] E [1	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE Y [POOLS & RIFFLES That Apply) - -TORRENTIAL[-1] INTERNITIAL[-1] -VERY FAST[1] -VERY FAST[1] IFFLE/RUN< EMBEDDEDN	N Rippe LE [3] [2] ERE[1] Max Riffle ESS
RIPARIAN WIDTH L R (Per Bank) DID- WIDE > 50m [4] DID- MODERATE 10-50c DID- MODERATE 10-50c DID- MARROW 5-10 m [DID- VERY MARROW <5	FLO L R (Mussi Predomi L) Structures, SWAM m [3] L D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] L L -FRICED PASTO RIFFLE/RUN OQUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & A -POOL WIDTH - RIFFL D-POOL WIDTH - RIFFL D-POOL WIDTH - RIFFL COMMENTS: <u>RUM DEPTH</u> [2] L - MAX > 50]	Y Y	JALITY (PAST 100 Met hk) L R D D CONSERVA D D D CONSERVA D D D OPEN PAS D D 1 D OPEN PAS D D - OPEN PAS D D - MINING/C CURRE D - EDDIES[1] D -FAST[1] M-MODERATI S-SLOW [1] OR CHECK 2 AND A FTLE/RUN SUBSTRATI ABLE (e.g., Cobble, Bo	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All Check All E [1] E [1]	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE Y [POOLS & RIFFLES That Apply} -TORRENTIAL[-1] INTERSTITIAL[-1] -NTERNITENT[-2] -VERY FAST[1] -VERY FAST[1] IFFLE/RUN< EMBEDDEDN	N Rips LE [3] [2] ERE[1] Max H] Cur Max Riffle ESS [4] Max Gra
RIPARIAN WIDTH L. R. (Per Bank). D.D WIDE > 50m [4]. L.D MODERATE 10-50c D.D NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI). D >1m [6] BL- 0.7-1m [4] D- 0.2-0.4m [1] D- <0.2-0.4m [1]	FLO L R (Mussi Predomi L) Structures, SWAM m [3] L D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] L L -FRICED PASTO RIFFLE/RUN OQUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & A -POOL WIDTH - RIFFL D-POOL WIDTH - RIFFL D-POOL WIDTH - RIFFL COMMENTS: <u>RUM DEPTH</u> [2] L - MAX > 50]	Y Y	JALITY (PAST 100 Met hk) L R D D CONSERVAT D D CONSERVAT D D D OPEN PAS D D 11 D O OPEN PAS D D - MINING/C D - MINING/C CURRE D - EDOIES[1] D - FAST[1] D - FAST[1]	ET RIPARIAN TION TILLAGE NDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All Check All E [1] E	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-HEAVY/SEV N [0] D-HEAVY/SEV Y [POOLS & RIFFLES That Apply} -TORRENTIAL[-1] INTERSTITIAL[-1] INTERNITTENT[-2] -VERY FAST[1] -VERY FAST[1] ITTLE/RUN< EMBEDDEDN	N Rips LE [3] [2] ERE[1] Max H] Cur Max Riffle ESS [4] Max Gra
RIPARIAN WIDTH L. R. (Per Bank). D.D WIDE > 50m [4]. D.D WIDE > 50m [4]. D.D MODERATE 10-50c D.D MODERATE 10-50c D.D MODERATE 10-50c D.D MARROW 5-10-m [D.D NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI). D >1m [6] BL- 0.7-1m [4] D- 0.2- 0.4m [1] D- CO:2-0.4m [1] D- MAX. DEPTH Check 1 ONLYI). D- >1m [6] BL- 0.2-0.4m [1] D- D- 0.2-0.4m [1] D- D- 8est Areas >10.cm D- Best Areas <5.0cm	FLO L R (Mussi Predomi L) Structures, SWAM m [3] L D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] L L -FRICED PASTO RIFFLE/RUN OQUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & A -POOL WIDTH - RIFFL D-POOL WIDTH - RIFFL D-POOL WIDTH - RIFFL COMMENTS: <u>RUM DEPTH</u> [2] L - MAX > 50]	Y Y	JALITY (PAST 100 Met hk) L R D D CONSERVAT D D CONSERVAT D D D OPEN PAS D D 11 D O OPEN PAS D D - MINING/C D - MINING/C CURRE D - EDOIES[1] D - FAST[1] D - FAST[1]	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All Check All E [1] E [1]	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-HEAVY/SEV N [0] D-HEAVY/SEV Y [POOLS & RIFFLES That Apply} -TORRENTIAL[-1] INTERSTITIAL[-1] INTERNITTENT[-2] -VERY FAST[1] -VERY FAST[1] ITTLE/RUN< EMBEDDEDN	N Rippe LE [1] [2] ERE[1] Max Har Riffle ESS Max
RIPARIAN WIDTH L. R. (Per Bank). D.D WIDE > 50m [4]. L.D MODERATE 10-50c D.D NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI). D >1m [6] BL- 0.7-1m [4] D- 0.2-0.4m [1] D- <0.2-0.4m [1]	FLO L R (Mossi Predomi LDS FOREST, SWAM m [3] L D-SHIRUB OR OLD 2] D D-RESIDENTIAL, R m[1] L CI -FRINCED PASTO RIFFLE/RUN QUUALITY <u>MORPHOLOG</u> (Check 1 or 2 & A Check 1 or 2 & A POOL WOTH - RIFFL D-POOL WOTH - RIFFL D-POOL WOTH - RIFFL COMMENTS: <u>RUN DEPTH</u> [2] L -MAX < 50[OD PLAIN OL nant Per Bar [3] FIELD [2] ARK, MEW FIEL RE [1] Y VERAGE) E WIDTH [1] E WIDTH [1] E W. [0] HECK ONE RI [2] E STATE	IALITY (PAST 100 Met IALITY (PAST 100 Met I I CONSERVAT II II II II II II II II II II CONSERVAT II	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All Check All E [1] D E [1] D (VERAGE E R MIder) [2] Sand) [0] NO RIFFLE OOL:	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-HEAVY/SEV N [0] D-HEAVY/SEV Y POOLS & RIFFLES That Apply) -TORRENTIAL[-1] INTERNITIAL[-1] INTERNITIENT[-2] -VERY FAST[1] -VERY FAST[1] IT-NONE [Z] ID-NONE [Z] ID-EXTENSIVE [-1]	N Rips LE [3] [2] ERE[1] Max H] Cur Max Riffle ESS [4] Max Gra
RIPARIAN WIDTH L. R. (Per Bank). D.D WIDE > 50m [4]. D.D MODERATE 10-50c D.D MARCOW 5-10-m [D.D VERY MARCOW 5-10-m [D.D NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI) D. > 1m [6] B4: 0.7-1m [4] D- 0.2-0.4m [1] D- 0.2-0.4m [1] D- 0.2-0.4m [1] D- 0.2-0.4m [2] D- 0.2-0.4m [1] D- 8est Areas >10.cm D- Best Areas <5.cm	FLO L R (Mossi Predomi LDS FOREST, SWAM m [3] L D-SHIRUB OR OLD 2] D D-RESIDENTIAL, R m[1] L CI -FRINCED PASTO RIFFLE/RUN QUUALITY <u>MORPHOLOG</u> (Check 1 or 2 & A Check 1 or 2 & A POOL WOTH - RIFFL D-POOL WOTH - RIFFL D-POOL WOTH - RIFFL COMMENTS: <u>RUN DEPTH</u> [2] L -MAX < 50[OD PLAIN QL inant Per Bar P[3] FIELD [2] ARK, MEW FIEL RE [1] Y VERAGE) E WIDTH [1] E WIDTH [1] E W. [0] HECK ONE RI [2] HECK ONE [2] E STACK [2] E WIDTH [1] E W. [0] CHECK ONE RI [2] E STACK E STACK	IALITY (PAST 100 Met IALITY (PAST 100 Met I I CONSERVAT II II II II II II II II II II CONSERVAT II	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIFI (Check All Check All E[1] E[1] E[1] E[1] E[1] CVERAGE E[R Rulder] [2] e Gravel) [1] Sand) [0] NO RIFFLE [BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE Y [POOLS & RIFFLES That Apply} -TORENTIAL[-1] INTERNITIAL[-1] -NORENTIAL[-1] INTERNITIAL[-1] -VERY FAST[1] INTERNITIAL[-1] -VERY FAST[1]	N Ripp IE [3] ERE[1] Max Riffle ESS Max Gra
RIPARIAN WIDTH L. R. (Per Bank). D.D WIDE > 50m [4]. D.D MODERATE 10-50c D.D MARCOW 5-10-m [D.D VERY MARCOW 5-10-m [D.D NONE [0] COMMENTS: 5.]POOL/GLIDE AND: MAX. DEPTH (Check 1 ONLYI) D. > 1m [6] B4: 0.7-1m [4] D- 0.2-0.4m [1] D- 0.2-0.4m [1] D- 0.2-0.4m [1] D- 0.2-0.4m [2] D- 0.2-0.4m [1] D- 8est Areas >10.cm D- Best Areas <5.cm	FLO L R (Mussi Predomi LDS FURESI, SWAMI r [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] D D -FERICED PASTO RIFFLE/RUN ODUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & A POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL COMMENTS: [2] <u>RUN DEPTH</u> [2] <u>RUN DEPTH</u> [2] <u>RUN DEPTH</u> [1] <u>D</u> -MAX < 50[OD PLAIN QL inant Per Bar P[3] FIELD [2] ARK, MEW FIEL RE [1] Y VERAGE) E WIDTH [1] E WIDTH [1] E W. [0] HECK ONE RI [2] HECK ONE [2] E STACK [2] E WIDTH [1] E W. [0] CHECK ONE RI [2] E STACK E STACK	IALITY (PAST 100 Met IALITY (PAST 100 Met I I CONSERVAT II II II II II II II II II II CONSERVAT II	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All Check All E [1] D E [1] D (VERAGE E R MIder) [2] Sand) [0] NO RIFFLE OOL:	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-HEAVY/SEV N [0] D-HEAVY/SEV Y POOLS & RIFFLES That Apply) -TORRENTIAL[-1] INTERNITIAL[-1] INTERNITIENT[-2] -VERY FAST[1] -VERY FAST[1] IT-NONE [Z] ID-NONE [Z] ID-EXTENSIVE [-1]	N Rips LE [1] [2] ERE[1] Max Riffle Max Gra
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RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4] DD- MODERATE 10-500 DD- MODERATE 10-500 DD- MODERATE 10-500 DD- MARROW S-10-m [COMMENTS: 5.]POOL/GLIDE AND T MAX. DEPTH (Check 1 ONLYI) D- >1m [6] BL- 0.7-1m [4] D- 0.2- 0.4m [1] D- 0.2- 0.4m [1] D- 0.2- 0.4m [1] D- 8est Areas >10 cm D- Best Areas < 5 cm.	FLO L R (Mussi Predomi LDS FURESI, SWAMI r [3] D D-SHRUB OR OLD 2] D D-RESIDENTIAL, R m[1] D D -FERICED PASTO RIFFLE/RUN ODUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & A POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL D-POOL WIDTH = RIFFL COMMENTS: [2] <u>RUN DEPTH</u> [2] <u>RUN DEPTH</u> [2] <u>RUN DEPTH</u> [1] <u>D</u> -MAX < 50[OD PLAIN QL nant Per Bar P[3] FIELD [2] ARK, MEW FIEL RE [1] Y VERAGE) E WIDTH [1] E WIDTH [1] E WIDTH [1] E W. [0] HECK ONE RE [2] E WIDTH [1] E W. [0] EHECK ONE RE [2] E W. [0] EHECK ONE RE EXT BEA (sq.mi.) EEA (sq.mi.)	IALITY (PAST 100 Met IALITY (PAST 100 Met I I I-CONSERVAT II II-CONSERVAT II II-CONSERVAT II II-CONSERVAT II II-CONSERVAT II II-CONSERVAT II II-CONSERVAT IIII-CONSERVAT III-CONSERVAT III-CONSERVAT III-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIII-CONSERVAT IIIII-CONSERVAT IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ET RIPARIAN TION TILLAGE INDUSTRIAL TURE, ROWCR ONSTRUCTIO INT VELOCIT (Check All Check All E [1] D E [1] D CVERAGE E R MIder) [2] Sand) [0] NO RIFFLE OOL:	BANK EROSIO L R (Per Bank) [1] D-NONE/LITT [0] D-NONE/LITT [0] D-NONE/LITT [0] D-HEAVY/SEV N [0] D-HEAVY/SEV Y POOLS & RIFFLES That Apply) -TORRENTIAL[-1] INTERNITIAL[-1] INTERNITIENT[-2] -VERY FAST[1] -VERY FAST[1] IT-NONE [Z] ID-NONE [Z] ID-EXTENSIVE [-1]	N Rippe LE [1] [2] ERE[1] Max Har Riffle ESS Max

River Code:	RM: Stream:	Indian	Greek	
Date: 4 25/08	Location: Count			
Scorers Full Name:	GRB Affiliation	and the second se		
11 SUBSTRATE (Check ON	LY Two SubstrateTYPE BOXE	S; Estimate % pres	ent	
TYPE POOL RI		IFFLE SUBSTRATE C	RIGIN	SUBSTRATE QUALITY
DD-BLDR /SLBS[10]	_ D 00+GRAVEL [7]	Check ONE (OR 2)		Check ONE (OR 2 & AVERAGE SILT HEAVY [-2]
00-BOULDER [9]	_ DIDESAND [6]	I -LIMESTONE	[1] SILI:	D-SILT MODERATE [-1]
0 0-COBBLE [8]		D WETLANDS	101	D-SILT NORMAL [0]
		D-HARDPAN [C	ŋ	
BBSH312 X_	NETIE: Ignore Studge Originaling From Point Sources		E [0] EMBEDDED	
		D-RIP/RAP [0]		-MODERATE [-1] -NORMAL [0]
NUMBER OF SUBSTRATE TYP		-LACUSTRIN	E [U]	D-NONE [1]
(High Quality Only, Score 5 or COMMENTS	>)) (13 or Less [0]	D-COAL FINES	1-21	
	ve each cover type a score of	0 to 3; see back for		AMOUNT: (Check ONLY One
(Structure)	TTYPE: Score All That O	CCIIF	11 11 11 11 11 11 11 11 11 11 11 11 11	check 2 and AVERAGE)
UNDERCUT BANKS [1]	POOLS> 70 cm [2			- EXTENSIVE > 75% [11] - MODERATE 25-75% [7]
OVERHANGING VEGETATIO		the second s		- SPARSE 5-25% [3]
SHALLOWS (IN SLOW WATE ROOTMATS [1] COMM		2.005 010		C - NEARLY ABSENT < 5%[1]
3] CHANNEL MORPHOLO	GY: (Chasck ONLY One PER	Category OR check	2 and AVERAGE	Ĵ
	OPMENTT CHANNELIZATION	N STABILITY	MODIFICATIO	MS/OTHER
	CELLENTT[7] D-NONE [6]	D-HIGH [3]	TE [2] D - RELOCA	
	DOD [5]] X1 - RECOVERED IR [3] D - RECOVERIN	IG [3] XI-LOW [1]		REMOVAL D - LEVEED
	DOR.[1] D- RECENT. OF		D- DREDGI	
RIPARIAN WIDTH L. R. (Per Bank)	BANK ERIOSION check ONE by FLOOD PLAI L. R (Moost Predominant Per D. Diffedrest, SWAMP [3]	NOUALITY (PAST 10 Bank) L.R.	and AVERAGE per 0 Meter RIPARIAN SERVATION TILLAGE	<u>BANK EROSION</u> L R (Per Bank)
RiPARIAN WIDTH L. R. (Per Bank) D.D. WIDE > 50m. [4]. D.D. MODERATE 10-50m. [3]. D.D. NARROW 5-10 m. [2]. D.D. VERY NARROW <5 m.[1].	ELOOD PLAN	N QUALITY (PAST 10 Bank) L R D CON CON] D D-URD FIELD [1] D D-OFF	<u>O Meter RIPARIAN</u>	BANK EROSION L R (Per Bank) [1] D -NONE/LITTLE [0] D -MODERATE [2] OP [0] D D -HEAV3/SEVER
RIPARIAN WIDTH L. R. (Per Bank) D WIDE > 50m. [4]. D WIDE > 50m. [4]. D MOREATE 10-50m. [3]. D NARROW 5-10-m. [2]. D VERY NARROW <5 m. [1].	FLOOD PLAN L R (Most Predominant Per D DFFDREST, SWAMP [3] D DS6HRUB OR OLD FIELD [2] D DRIEDDENTIAL, RARK, NEW 1 DL-FIENCED PASTURE [1].	N QUALITY (PAST 10 Bank) L R D CON CON] D D-URG FIELD [1] D D-OFE	<u>o Meter Riparian</u> Servation Tillage Ian or Industrial In Pasture, Rowcr	BANK EROSION L R (Per Bank) [1] D -NONE/LITTLE [0] D -MODERATE [2] OP [0] D D -HEAV3/SEVER
RIPARIAN WIDTH L. R. (Per Bank) D.D WIDE > 50m.[4] D.D WIDE > 50m.[4] D.D MODERATE 10-50m.[3] D.D NARROW 5-10 m.[2] D.D VERY NARROW <5 m.[1] D.D NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIFF	FLOOD PLAN	N QUALITY (PAST 10) Bank) L R D COM D COM I D D UR FIELD [1] D D OPE D D MN	<u>o Meter Riparian</u> Servation Tillage Ian or Industrial Ingature, Rowcr Inga Construction	BANK EROSION L R (Per Bank) [1] D -NONE/LITTLE [0] D -MODERATE [2] OP [0] D D -HEAV3/SEVER
RIPARIAN WIDTH L. R. (Per Bank) D WIDE > 50m. [4]. D WIDE > 50m. [4]. D MOREATE 10-50m. [3]. D NARROW 5-10-m. [2]. D VERY NARROW <5 m. [1].	FLOOD PLAN L R (Most Predominant Per D DFFDREST, SWAMP [3] D DS6HRUB OR OLD FIELD [2] D DRIEDDENTIAL, RARK, NEW 1 DL-FIENCED PASTURE [1].	N QUALITY (PAST 10 Bank) L R D CON I D D-URC I D -URC I D -OPC I D -MIN E)	<u>O Meter RIPARIAN</u> SERVATION TILLAGE IAN OR INDUSTRIAL IN PASTURE, ROWCR ING/CONSTRUCTION URRENT VELOCIT (Check AIL	BANK EROSION L R. (Per Bank) [1] DNONE/UTTLE [0] D. MODERATE [2] OP [0] D. HEAVY/SEVERY N [0] MODERATE [2]
RIPARIAN WIDTH 1. R (Per Bank) 1. D - WIDE > 50m.[4] 1. D - WARROW 5-10-m.[2] 1. D - VERY NARROW 5-10-m.[2] 1. D - NONE [0] COMMENTS: 5. JPOIOL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D - > 1m.[6]	FLOOD PLAN L R (Most Predominant Par C CHEDREST, SWAMP [3] C C CHEDREST, SWAMP [3] C C CHEDREST, SWAMP [3] C C CHEDREST, SWAMP [3] C C C CHEDREST, SWAMP [3] C C C C C C C C C C C C C C C C C C C	N QUALITY (PAST 10 Bank) L R D CON FIELD [1] D D OR 10 D MN 10 D MN E) +[2] D -ED	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION CONSTRUCTION (Check All HES[1]	BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] [1] D MODERATE [2] [2] D MODERATE [2] [3] D MODERATE [2] [4] [4] [5] D MODERATE [2] [6] D MODE
RIPARIAN WIDTH 1. R (Per Bank) D.D. WIDE > 50m [4]. D.D. NONE [0]. COMMENTS: 5.]POIOL/GLIDE AND RIFF. MAX. DEPTH. (Check 1 ONLYI). D > 1m [6]. D 0.7-1m [4].	FLOOD PLAN	N QUALITY (PAST 10) Bank) L R D CON 1 C C -URE FRELD [1] C C -URE 1 C -WR 1 C - WR 1 C	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL ING CONSTRUCTION URRENT VELOCIT (Check All DES[1] [] T[1] []	BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] [1] D MODERATE [2] [2] D MODERATE [2] [3] D MODERATE [2] [4] D MODERATE [2] [5] D MODERATE [2] [6] D MODERATE [2] [6]
RIPARIAN WIDTH 1. R (Per Bank) D.D. WIDE > 50m [4]. D.D. WIDE > 50m [4]. D.D. MODERATE 10-50m [3]. D.D. NONE [0]. COMMENTS: 5.]POODL/GLIDE AND RIFF. MAX. DEPTH. (Check 1 ONLYI). D 1m [6]. D 0.7-1m [4]. D 0.4-0.7m [2].	FLOOD PLAN L R (Most Predominant Par C CHEDREST, SWAMP [3] C C CHEDREST, SWAMP [3] C C CHEDREST, SWAMP [3] C C CHEDREST, SWAMP [3] C C C CHEDREST, SWAMP [3] C C C C C C C C C C C C C C C C C C C	N QUALITY (PAST 10) Bank) L R D COM I D COM FRELD [1] D D OPE 1 D - URE 1 D - EM [1] D - EM [1] D - FAS [1] D - FAS	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN PASTURE, ROWCR ING/CONSTRUCTION (Check AII (Check AII DERATE [1] D	BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] OP [0] D G-HEAVY/SEVER N [0] MODERATE [2] Y [POOLS & RIFFLES!] That Apply) -TORRENTIAL[-1] INTERSTITIAL[-1] INTERSTITIAL[-1]
RIPARIAN WIDTH 1. R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [3] DD- VERY NARROW 5-10 m [2] DD- NONE [0] COMMENTS: 5.]POODL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D- >1m [6] D- 0.7-1m [4] D- 0.4-0.7m [2] 1 D- 0.2- 0.4m [1]	FLOOD PLAN	N QUALITY (PAST 10) Bank) L R D CON 1 C C -URE FRELD [1] C C -URE 1 C -WR 1 C - WR 1 C	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN PASTURE, ROWCR ING/CONSTRUCTION (Check AII (Check AII DERATE [1] D	BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] [1] D MODERATE [2] [2] D MODERATE [2] [3] D MODERATE [2] [4] D MODERATE [2] [5] D MODERATE [2] [6] D MODERATE [2] [6]
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [3] DD- VERY NARROW 5-10 m [2] DD- NONE [0] COMMENTS: 5.]POODL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D- >im [6] D- 0.7-1m [4] D- 0.4-0.7m [2]. 1 D- 0.2- 0.4m [1]	FLOOD PLAN	NOUALITY (PAST 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check AIII (Check AIII DES[1] [] IT[1] [] DERATE [1] [] DERATE [1] []	BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] OP [0] D G-HEAVY/SEVER N [0] MODERATE [2] Y [POOLS & RIFFLES!] That Apply) -TORRENTIAL[-1] INTERSTITIAL[-1] INTERSTITIAL[-1]
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [3] S.]POOL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D- SIM [6] D- 0.7-1m [4] D- 0.4-0.7m [2] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0]	FLOOD PLAN	NOUALITY (PAST 10) Bank) L I I I I FIELD [1] I I <td< td=""><td>O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check AII (Check AII DES[1] [] DERATE [1] []</td><td>BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] OP [0] D G-HEAVY/SEVER N [0] M TO HEAVY/SEVER Y [POOLS & RIFFLES!] That Apply) -TORRENTIAL[-1] INTERSITIAL[-1] -VERY FAST[1]</td></td<>	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check AII (Check AII DES[1] [] DERATE [1] []	BANK EROSION L R (Per Bank) [1] D D-NONE/UTTLE [0] D MODERATE [2] OP [0] D G-HEAVY/SEVER N [0] M TO HEAVY/SEVER Y [POOLS & RIFFLES!] That Apply) -TORRENTIAL[-1] INTERSITIAL[-1] -VERY FAST[1]
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [3] DD- VERY MARROW 5-10 m [2] COMMENTS: 5.]POODL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D- 0.7-1m [4] D- 0.7-1m [4] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0]	FLOOD PLAN	N QUALITY (PAST 10) Bank) L Bank) L I DECON I	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check AIII) (Check A	BANK EROSION L R (Per Bank) [1] D D-NONE/LITTLE [0] D MODERATE [2] [1] D MODERATE [2] [0] D MODERATE [2] Y [POOLS & RIFFLESI] That Apply) -TORRENTIAL[-1] -INTERSTITIAL[-1] -NTERSTITIAL[-1] -VERY FAST[1] -VERY FAST[1] IFFLE/RUN EMBEDDEDNEST
RIPARIAN WIDTH L. R. (Per Bank) D.D. WIDE > 50m [4]. D.D. MODERATE 10-50m [3] D.D. MODERATE 10-50m [3] D.D. MODERATE 10-50m [3] D.D. MODERATE 10-50m [3] D.D. MORE [0] COMMENTS: 5.]POODL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D 0.7-1m [4] D 0.7-1m [4] D 0.2-0.4m [1] D 0.2-0.4m [1] D 0.2m [POOL=0] RIFFLE DEPTH D. Best Areas > 10 cm [2]	FLOOD PLAN L R (Most Predominant Par D DEFENREST, SWAMP [3] D DEFENREST, SWAMP [3] D DEFENRED OR OLD FIELD [2] D DEFENCED PASTURE [1] CLE/RUNNCQUALITY MODRPHOLOGY (Chuadk 1 of 2 & AVERAGE POOL WIDTH - RIFFLE WIDTH POOL WIDTH - RIFFLE WIDTH -POOL WIDTH - RIFFLE WIDTH -POOL WIDTH - RIFFLE W. [0] COMMENTES: CHECK C RUNN DEPTH D - MAX > 50 [2]	N QUALITY (PAST 10) Bank) L Bank) L I D FIELD [1] D FASE D DINE OR CHECK 21 D RIFFLE/RUN SUBS D D'STABLE (e.g., Cobit D	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check All DES[1] [] DERATE [1] []	BANK EROSION L R (Per Bank) [1] D -NONE/LITTLE [0] D -NONE Y [POOLS & RIFFLESI] That Apply) -TORRENTIAL[-1] -NTERSTITIAL[-1] -NTERSTITIAL[-1] -VERY FAST[1] -VERY FAST[1] IFFLE/RUN EMBEDDEDNES D - NONE [2]
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- MODERATE 10-50m [3] DD- VERY MARROW 5-10 m [2] COMMENTS: 5.]POODL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D- 0.7-1m [4] D- 0.7-1m [4] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0]	FLOOD PLAN L R (Most Predominant Par D DEFENREST, SWAMP [3] D DEFENREST, SWAMP [3] CHECK C RUN DEPTH D - MAX > 50 [2] SMARX > 50 [3]	N QUALITY (PAST 10) Bank) L Bank) L I DECON I	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check All DIES[1] [] DERATE [1] [] DERATE [1] [] INV [1] [] INVD AVERAGE TRATE R I.e. Boulder) [2] .,Large Gravel) [1]	BANK EROSION L R (Per Bank) [1] D -NONE/UTTLE [0] D -NONE Y [POOLS & RIFFLESI] That Apply) -TORRENTIAL[-1] -NTERSTITIAL[-1] -NTERSTITIAL[-1] -WERY FAST[1] -VERY FAST[1] IFFLE/RUN< EMBEDDEDNESS
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4]. DD- WIDE > 50m [4]. DD- MODERATE 10-50m [3] DD- NORE 10-50m [3] DD- VERY NARROW 5-10 m [2] DD- VERY NARROW 5-10 m [2] DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIFF MAX. DEPTH (Check 1 ONLYI) D- 0.7-1m [4] D- 0.2-0.4m [1] D- < 0.2m [POOL=0]	FLOOD PLAN L R (Most Predominant Par D DEFENREST, SWAMP [3] D DEFENREST, SWAMP [3] CHECK C RUN DEPTH D - MAX > 50 [2] SMARX > 50 [3]	N QUALITY (PAST 10) Bank) L Bank) L I D FIELD [1] D FASE D STABLE (e.g., Cobit D BMOD. STABLE (e.g.) Cobit	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check AII WES[1] D T[1] D DERATE [1] D W [1] D W [1] D MV	BANK EROSION L R (Per Bank) [1] D-NONE/LITTLE [0] D-NONE [2] -TORRENTIAL[-1] -INTERSTITIAL[-1] -INTERSTITIAL[-1] -VERY FAST[1] -VERY FAST[1] D-NONE [2] -VERY FAST[1] D-NONE [2] -VERY FAST[1] D-NONE [2] -I-NONE [2] D-LOW [1] D-NODERATE [0] X -EXTENSIVE [-1] X
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4] DD- WIDE > 50m [4] DD- MODERATE 10-50m [3] DD- NARROW 5-10 m [2] DD- VERY NARROW <5 m [1]	FLOOD PLAN L R (Most Predominant Par D DEFENREST, SWAMP [3] D DEFENREST, SWAMP [3] CHECK C RUN DEPTH D - MAX > 50 [2] SMARX > 50 [3]	N QUALITY (PAST 10) Bank) L Bank) L I D FIELD [1] D FASE D STABLE (e.g., Cobit D BMOD. STABLE (e.g.) Cobit	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check All DES[1] [] DERATE [1] [] DERATE [1] [] INV [1	BANK EROSION L R (Per Bank) [1] D-NONE/LITTLE [0] D-NONE [2] -TORRENTIAL[-1] -INTERSTITIAL[-1] -INTERSTITIAL[-1] -VERY FAST[1] -VERY FAST[1] D-NONE [2] -VERY FAST[1] D-NONE [2] -VERY FAST[1] D-NONE [2] -I-NONE [2] D-LOW [1] D-NODERATE [0] X -EXTENSIVE [-1] X
RIPARIAN WIDTH L R (Per Bank) DD- WIDE > 50m [4] DD- WIDE > 50m [4] DD- MODERATE 10-50m [3] DD- NARROW 5-10 m [2] DD- VERY NARROW <5 m [1]	FLOOD PLAN L R (Most Predominant Par D DEFENREST, SWAMP [3] D DEFENREST, SWAMP [3] CHECK C RUN DEPTH D - MAX > 50 [2] SMARX > 50 [3]	N QUALITY (PAST 10 Bank) L R D CON I D CON I D CON FIELD [1] D D OPE 1 D - HR I D CON FIELD [1] D - OPE 1 D - HR I D - FAS () CONE OR CHECK 21 RIFFLE/RUN SUB CONE OR CHECK 21 RIFFLE/RUN SUB MOD. STABLE (Fine G	O Meter RIPARIAN SERVATION TILLAGE IAN OR INDUSTRIAL IN RASTURE, ROWCR ING/CONSTRUCTION (Check AII WES[1] D T[1] D DERATE [1] D W [1] D W [1] D MV	BANK EROSION L R (Per Bank) [1] D-NONE/LITTLE [0] D-NONE [2] -TORRENTIAL[-1] -INTERSTITIAL[-1] -INTERSTITIAL[-1] -VERY FAST[1] -VERY FAST[1] D-NONE [2] -VERY FAST[1] D-NONE [2] -VERY FAST[1] D-NONE [2] -I-NONE [2] D-LOW [1] D-NODERATE [0] X -EXTENSIVE [-1] X

4

River Code: 7	RMJ:	Stream:	ta	dian cre		and more incomentations	QHEI Score:	
Date: 4 24 108	Location	Contraction of the second s		and the	~~			
Scorers Full Name:	GR-B	Affiliati						
1) SUBSTRATE (Check		the second s		ate % present				
	RIFFLE			BSTRATE ORIG		SUB	STRATE QUALITY	1
DD-BLDR /SLBS[10]	000-GR/	AVEL [7] X	Check	ONE (OR 2 & AN	(ERAGE)		ONE (OR 2 & AVERAGE	k
d d-BOULDER [9]				LIMESTONE [1]	SILT:		ILT HEAVY [-2]	~
		the state of the s		TILLS [1]			ici mobulori c [- i].	Substra
D DHARDPAN [4]			the second se	WETLANDS[0]			ILT NORMAL [0]	In
		TFICIAL[0]		HARDPAN [0]			ILT FREE [1]	E
BB-64LT [2]	Fram Point	ore Sludge Original Sources	с. П.	SANDSTONE	NESS:		ODERATE [-1]	Max 2
NUMBER OF SUBSTRATE	TYPES: DE4 or	More [2]		LACUSTRINE [0			ORMAL [0]	
(High Quality Only, Score !		Less [0]		SHALE [-1]			IONE [1]	
COMMENTS	X			COAL FINES [-2	1			
2] INSTREAM COVER	(Give eachtcove	er type a score	of 0 to 3; se	ee back for inst	tructions)	AMOUN	T: (Check ONLY One	or Cove
(Structure)	.I.A.b.	E: Score All Tha				2 C C C C C C C C C C C C C C C C C C C	and AVERAGE)	COVE
UNDERCUT BANKS [1]		_POOLS> 70 cm		_OXBOWS, BACK			TENSIVE > 75% [11]	112
COVERHANGING VEGETA		CROOTWADS [1		AQUATIC MACR			DERATE 25-75% [7]	1
KROOTMATS [1] CO		_BOULDERS [1]	2	LOGS OR WOOD	DY DEBRIS [1]		RSE 5-25% [3]	Max 2
3] CHANNEL MORPHO	WMENTS:		P Cataoon	y OR check 2 a	nd AVERA		ARLY ABSENT < 5%[1]	
·	ELOPMENT	CHANNELIZATI		TABILITY		TIONS/OT	IFR	Chann
	EXCELLENT [7]			1- HIGH [3]	D - SNAC		D - IMPOUND.	(La
	GOOD [5]]	D - RECOVER		- MODERATE	2] D - RELO	CATION	- ISLANDS	12
and the second	FAIR [3]	- RECOVER		LOW [1]	D - CAN	DPY REMOV	AL 🖸 - LEVEED	Max 2
D- NONE.[1]. D-	POOR.[1]]	D- RECENT			D - DREL		D - BANK SHAPING	
		RECOVERY [1			TL-ONE	SIDE CHAN	NEL MODIFICATIONS	
COMMENTS: 4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DID-WIDE > 50m 141	L R (Most I	FLOOD PL	box per ban	Y (PAST 100 M	AVERAGE ; eter Ripari	verbank) (* <u>AN)</u>	River Right Looking BANK EROSION L R (Per Bank)	Riparis
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD-WIDE > 50m [4] DD-MARROW 5-10 m [2] DD-VERY NARROW <5 m	L R (Most I D) C FEDRES [3] D D SHIRUB	FLOOD PL Predominant P T, SWAMP [3] OR OLD FIELD MTIAL, PARK, NO	box per bani AIN QUALIT er Bank) 2]	Y (PAST 100 M	AVERAGE F eter <u>RIPARI</u> ATION TILLA OR INDUSTRI STURE, ROW	verbank) AN GE [1] GE [0] CROP (0]	River Right Looking BANK EROSION	Riparia 8
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4]. DD-MODERATE 10-50m; DD-MARROW 5-10 m [2]	L R (Most I D) C FEDRES [3] D D SHIRUB	FLOOD PL Predominant P T, SWAMP [3] OR OLD FIELD MTIAL, PARK, NO	box per bani AIN QUALIT er Bank) 2]	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-OPEN R	AVERAGE F eter <u>RIPARI</u> ATION TILLA OR INDUSTRI STURE, ROW	verbank) AN GE [1] GE [0] CROP (0]	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2]	Riparia 8
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WODERATE 10-50m DD - NARROW 5-10 m [2] DD - VERY NARROW <5 m DD - NONE [0] COMMENTS:	L R (Most I D X (HDRES 3) D D-SSHRUB D DMESIDE (1) D D-HENCE	FLOOD PL Predominant P T, SWAMP [3] OR OLD FIELD MTIAL, MARK, ME ED PASTURE [1]	box per bani AIN QUALIT er Bank) 2]	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-OPEN R	AVERAGE F eter <u>RIPARI</u> ATION TILLA OR INDUSTRI STURE, ROW	verbank) AN GE [1] GE [0] CROP (0]	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2]	Riparis R B A Max 1
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - VERY NARROW <5 m DD - NONE [0] COMMENTS: 5.]POIOL/GLIDE AND RI <u>MAX. DEPTH</u>	L R (Most I D) CLFEDRES. [3] D D-SSHRUB D D-MESIDE [1] D D-HENCE FFLE/RUNKQU/	FLOOD PL Predominant P T, SWAMP [3] OR OLD FIELD MTIAL, MARK, ME ED PASTURE [1]	box per bani AIN QUALIT er Bank) 2]	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-OPEN R D D-MINING/	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT	er bank) (* AN) SGE [1] SGE [1	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2]	Riparia 8
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - NONE [0] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI)	L R (Most I D) CLFEDRES. [3] D D-SSHRUB D D-MESIDE [1] D D-HENCE [1] D D-HENCE FFLE/RUNKQU/ <u>MOIRPH</u> (Check 1	FLOOD PL Predominant P T, SWAMP [3] MTIAL, MARK, ME D PASTURE [1] ALITY HOLOGY of 2 & AVERAU	box per bank <u>AIN QUALIT</u> er Bank) [2] W FIELD [1]	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-MINING/	AVERAGE (eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT	er bank) (* AN) GE [1] (AL [0] CROP (0] TON [0] (TTY [POO All That Ap	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] PHY)	Pool/
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - VERY NARROW <5 m DD - NONE [0] COMMENTS: 5.]POIOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D - >1m [6]	L R (Most I D) CLFEDRES. [3] D D-SSHRUB D D-MESIDE [1] D D-HENCE [1] D D-HENCE FFLE/RUNKQU/A <u>MOIRPH</u> (Check 1 D-POOL.)	FLOOD PL Predominant P T, SWAMP [3] OR OLD FIELD MIAL, MARK, MD D PASTURE [1] ALITY HOLOGY or 2 & AVERAU +> RIFLE WID	box per bank AIN QUALIT er Bank) [2] W FIELD [1] W FIELD [1] 3E) H [2]	Y (PAST 100 M L R D D-CONSERV D D-URBAN D D-OPEN R D D-PEN R D D-EDDIES[AVERAGE (<u>eter RIPARI</u> ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT <u>ENT VELOC</u> (Check J []	er bank) (* AM) GE [1] AL [0] *CROP (0] TON [0] TON [0] 	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITELE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] PHY) FTHL[-1]	Pool/
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - NONE [0] COMMENTS: 5.]POIOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D - >1m [6] T - 0.7-1m [4]	L R (Most I D) CIFEDRES. [3] D D-SSHRUB D D-MHESIDE [1] D D-HHENCE [1] D D-HHENCE [FLOOD PL Predominant P T, SWAMP [3] I OR OLD FIELD INTIAL, MARK, NE ED PASTURE [1] ALITY HOLOGY or 2 & AVERAU +> RIFFLE WIDT 4 = RIFFLE WIDT	box per bank <u>AIN QUALIT</u> er Bank) [2] [2] [2] [2] [2] [3] [3] [3] [3] [3] [3] [3] [3] [3] [3	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-MINING/ D D-MINING/ D D-EDDIES[D-EDDIES[D-FAST[1]	AVERAGE (eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J	er bank) (* AM) GE [1] AL [0] *CROP (0] TON [0] TON [0] CROP (0] TON [0] TON [0] CROP (0] TON [0] TON [0]	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITELE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] pby) FFML[-1] FFML[-1]	Pool/
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - NONE [0] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] E- 0.7-1m [4] D- 0.4-0.7m [2]	L R (Most I D) CLFEDRES. [3] D D-SSHRUB D D-MESIDE [1] D D-HENCE [1] D D-HENCE FFLE/RUNKQU/A <u>MOIRPH</u> (Check 1 D-POOL.)	FLOOD PL Predominant P T, SWAMP [3] I OR OLD FIELD INTIAL, MARK, NE ED PASTURE [1] ALITY HOLOGY or 2 & AVERAU +> RIFFLE WIDT 4 = RIFFLE WIDT	box per bank <u>AIN QUALIT</u> er Bank) [2] [2] [2] [2] [2] [3] [3] [3] [3] [3] [3] [3] [3] [3] [3	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-MINING/ D D-MINING/ D D-EDDIES[D-EDDIES[D-FAST[1]	AVERAGE (eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J [] TE [1]	See bank) # AM	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] ply) FTAL[-1] FTTAL[-1] FTTENT[-2]	Pool/
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD-WIDE > 50m [4] DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] E- 0.7-1m [4] D- 0.2- 0.4m [1]	L R ((Most) L R ((Most) L R) (Most) C L Startes (3) D D Startes (4) D D HENCE (1) D HEN	FLOOD PL Predominant P T, SWAMP [3] I OR OLD FIELD INTIAL, MARK, NE ED PASTURE [1] ALITY HOLOGY or 2 & AVERAU +> RIFFLE WIDT 4 = RIFFLE WIDT	box per bank <u>AIN QUALIT</u> er Bank) [2] [2] [2] [2] [2] [3] [3] [3] [3] [3] [3] [3] [3] [3] [3	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-MINING/ D D-MINING/ D D-EDDIES[D-EDDIES[D-FAST[1]	AVERAGE (eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J [] TE [1]	er bank) (* AM) GE [1] AL [0] *CROP (0] TON [0] TON [0] CROP (0] TON [0] TON [0] CROP (0] TON [0] TON [0]	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] ply) FTAL[-1] FTTAL[-1] FTTENT[-2]	Pool/
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - NARROW 5-10 m [2] DD - NONE [0] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] E- 0.7-1m [4] D- 0.4-0.7m [2]	L R (Most I D) CIFEDRES. [3] D D-SSHRUB D D-MHESIDE [1] D D-HHENCE [1] D D-HHENCE [FLOOD PL Predominant P T, SWAMP [3] I OR OLD FIELD INTIAL, MARK, NE ED PASTURE [1] ALITY HOLOGY or 2 & AVERAU +> RIFFLE WIDT 4 = RIFFLE WIDT	box per bank <u>AIN QUALIT</u> er Bank) [2] [2] [2] [2] [2] [3] [3] [3] [3] [3] [3] [3] [3] [3] [3	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-MINING/ D D-MINING/ D D-EDDIES[D-EDDIES[D-FAST[1]	AVERAGE (eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J [] TE [1]	See bank) # AM	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] ply) FTAL[-1] FTTAL[-1] FTTENT[-2]	Pool/ Max 1 Max 1 Max 1
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD-WIDE > 50m [4] DD- MARROW 5-10 m [2] DD- MARROW 5-10 m [2] DD- MARROW 5-10 m [2] DD- MARROW 5-10 m [2] DD- MARROW 5-10 m [2] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6] T- 0.7-1m [4] D- 0.2- 0.4m [1] D- < 0.2m [POOL=0]	L R ((Most) L R ((Most) L Strengts) C Strengts L Strengts L Strengts L Strengts L R ((Most) L Strengts) L Strengts L R ((Most) L Strengts) L Strengts L Stren	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD MTIAL, PARK, ME D PASTURE [1] ALITY HOLOGY of 2 & AVERAL H> RIFFLE WIDT H< RIFFLE WIDT H< RIFFLE W. [0	box per bank AIN QUALIT er Bank) [2] W FIELD [1] 3E) RH [2] H [1]].	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-MINING/ D D-MINING/ D D-EDDIES[D-EDDIES[D-FAST[1]	AVERAGE (eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J I] TE-[1]]	AM AF AL	River Right Looking BANK EROSION L R (Per Bank) D D-NONE/LITTLE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] ply) FFML[-1] FFML[-1] FFTML[-1] FFTML[-1]	Pool/
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - MARROW 5-10 m [2] DD - MARROW 5-10 m [2] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D - >1m [6] T - 0.2-0.4m [1] D - 0.2-0.4m [1] D - < 0.2m [POOL=0] RIFFLE DEPTH	L R ((Most) D C) FEDRES. [3] D D SHIRUB D D SHIRUB D D SHIRUB D D SHIRUB D D SHIRUB D D SHIRUB D SHIRUB D D SHIRUB D SHIRUB	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WITAL, PARK, NE D PASTURE [1] ALITY HOLOGY or 2 & AVERAN H = RIFFLE WIDT H = RIFFLE WIDT H = RIFFLE W. [0 <u>CHECK</u>	box per bank AIN QUALIT er Bank) [2] W FIELD [1] 3E) FIELD [1] 11 [2] H [1] 1. ONE OR C	Y (PAST 100 M L R D D CONSERV D D CONSERV D D OPEN RA D D OPEN RA D D MINING/ CURF D EDDIES[D FAST[1] S MODERA D SUBSTRA	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT (Check J I) TE-[1]] AVERAGE IE	AM GE [1] GE [1] AL [0] CROP [0] ION [0] ION [0] ITTY [POO AL THAL AC D -FORRES I -NTERM D -VERY FA RIFFLE/R	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITLE [3 D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] phy) FTML[-1] FTTENT[-2] STF[1] UN EMBEDDEDNESS	Pool/ Max 1 Max 1 Max 1
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4] DD - WIDE > 50m [4] DD - MARROW 5-10 m [2] DD - MARROW 5-10 m [2] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D - >1m [6] T - 0.2-0.4m [1] D - 0.2-0.4m [1] D - 0.2-0.4m [1] D - 0.2 m [POOL=0] <u>RIFFLE DEPTH</u> D - Best Areas >10 cm [7]	L R ((Most) D C) FEDRES. [3] D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB (1] D D SHRUB (1] D D SSHRUB (1] D S	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WTIAL, PARK, ME D PASTURE [1] ALITY HOLOGY of 2 & AVERAL H = RIFFLE WIDT H = RIFFLE	box per bank AIN QUALIT er Bank) [2] W FIELD [1] [3E] H [1] [1] [1] ONE OR C RIFTLE ESTABLE	Y (PAST 100 M L R D D CONSERV D D CONSERV D D CONSERV D OPEN RA D OPEN RA CURF D -EDDIES[D -EDDIES[D -EDDIES[D -EDDIES[D -SLOW [1 CHECK 2 AND (RUN SUBSTRA (e.g., Cobble, 1	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J 1) TE-[1] AVERAGE FE FOULDER) [2	AM GE [1] GE [1] AL.[0] GROP [0] TON [0] ION [0]	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITLE [3 D D-NONE/LITLE [3 D D-MEAVY/SEVERE[D D-HEAVY/SEVERE[DLS & RIFFLES1] HTAL[-1] TTENT[-2] ST[1] UN EMBEDDEDNESS NONE [Z]	Riparia Max 1 Pool/ Currer Max 1 Riffle/R
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MODERATE 10-50m DD-MARROW S-10 m [2]. DD-MARROW S-10 m [2]. DD-MARROW S-10 m [2]. DD-MARROW S-10 m [2]. COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). D->1m [6]. E-0.2-0.4m [1]. D-0.2-0.4m [1]. D-2.0.2m [POOL=0]. RIFFLE DEPTH D-Best Areas 5-10 cm [2].	L R ((Most) D C) FEDRES. [3] D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB (1] D D SHRUB (1] D D SSHRUB (1] D S	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WITAL, PARK, MD D PASTURE [1] ALITY 4010GY or 2 & AVERAN H = RIFFLE WD H = RIFFLE WD H = RIFFLE WD CHECK CHECK CHECK X > 50 [2] X < 50[1]	box per bank AIN QUALIT er Bank) (2] W FIELD [1] (2] (1] (1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Y (PAST 100 M L R D CONSERV D CONSERV D CONSERV D CONSERV D CONSERV D CONSERV D CONSERV D CONSERV CURF D CONSERV C	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT (Check J I) TE-[1]] AVERAGE FE Koulder) [2 ge Gravel)	AM AM AGE [1] AL.[0] ACROP [0] ACROP [0] ION [0] INTERN IO-FORREN INTERSI	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITLE [3 D D-NONE/LITLE [3 D D-HEAVY/SEVERE[D D-HEAVY/SEVERE[DLS & RIFFLES1] phy) FTAL[-1] FTTENT[-2] ST[1] UN EMBEDDEDNESS NONE [Z] -LOW [1]	Riparia Riparia Pool/ Currer Max 1 Riffle/R Max 8
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [0]. COMMENTS: 5.]POIDL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). D->1m [6]. E. 0.2-1m [4]. D- 0.2-0.4m [1]. D- 0.2-0.4m [1]. D- 8est Areas > 10 cm [2]. E. Best Areas > 10 cm [2]. E. Best Areas < 5 cm.	L R ((Most) D C) FEDRES. [3] D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB (1] D D SHRUB (1] D D SSHRUB (1] D S	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WITAL, PARK, MD D PASTURE [1] ALITY 4010GY or 2 & AVERAN H = RIFFLE WD H = RIFFLE WD H = RIFFLE WD CHECK CHECK CHECK X > 50 [2] X < 50[1]	box per bank AIN QUALIT er Bank) (2] W FIELD [1] (2] (1] (1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Y (PAST 100 M L R D D CONSERV D D CONSERV D D OPEN RA D D OPEN RA D D MINING/ CURF D -EDDIES[D -EDDIES[D -FAST[1] S -MODERA D -SLOW [1 CHECK 2 AND (RUN SUBSTRA (e.g., Cobble, 1	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT (Check J I) TE-[1]] AVERAGE FE Koulder) [2 ge Gravel)	AM GE [1] GE [1] AL.[0] GROP [0] TON [0] ION [0]	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITLE [3 D D-NONE/LITLE [3 D D-HEAVY/SEVERE[D D-HEAVY/SEVER[D D-HEAVY/SEVER[D D-HEAVY/SEVER[D D-HEAVY/SEVER[D D-HEAVY/SEVER[D D	Riparia Max 1 Pool/ Currer Max 1 Riffle/R
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. COMMENTS: 5.]POIOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). D->1m [6]. E. 0.2-0.4m [1]. D- 0.2-0.4m [1]. D- 0.2-0.4m [1]. D- 8est Areas > 10 cm [2]. E. Best Areas > 10 cm [2]. E. Best Areas < 5 cm. [RIFFLE=0].	L R ((Most) D C) FEDRES. [3] D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB (1] D D SHRUB (1] D D SSHRUB (1] D S	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WITAL, PARK, MD D PASTURE [1] ALITY 4010GY or 2 & AVERAN H = RIFFLE WD H = RIFFLE WD H = RIFFLE WD CHECK CHECK CHECK X > 50 [2] X < 50[1]	box per bank AIN QUALIT er Bank) (2] W FIELD [1] (2] (1] (1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Y (PAST 100 M L R D CONSERV D D-CONSERV D D-URBAN (D -OPEN RA D -OPEN RA L - OPEN RA CURF D -EDDIES[D -EDDIES]] A -EDDIES[A -EDDIES]] A -E	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT (Check J I] TE [1] TE [1]] AVERAGE FE Soulder) [2 ge Gravel) [0]-	AM GE [1] AL [0] GE [1] AL [0] CROP [0] ION [0] ION [0] ITY [POO All That Ap I-FORRE I-FORRE I-VERY F RIFFLE/R [1] II	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITTLE [3 D D-NONE/LITTLE [3 D D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] pby) FTML[-1] FTTENT[-2] ST[1] UN EMBEDDEDNESS NONE [Z] -LOW [1] MODERATE [0] EXTENSIVE [-1]	Riparia Max 1 Pool/ Currer Max 1 Riffle/R Gradle
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [0]. COMMENTS: 5.]POIDL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). D->1m [6]. E. 0.2-1m [4]. D- 0.2-0.4m [1]. D- 0.2-0.4m [1]. D- 8est Areas > 10 cm [2]. E. Best Areas > 10 cm [2]. E. Best Areas < 5 cm.	L R ((Most) D C) FEDRES. [3] D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB D D SSHRUB (1] D D SHRUB (1] D D SSHRUB (1] D S	FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WITAL, PARK, MD D PASTURE [1] ALITY 4010GY or 2 & AVERAN H = RIFFLE WD H = RIFFLE WD H = RIFFLE WD CHECK CHECK CHECK X > 50 [2] X < 50[1]	box per bank AIN QUALIT er Bank) (2] W FIELD [1] (2] (1] (1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Y (PAST 100 M L R D CONSERV D D-CONSERV D D-URBAN (D -OPEN RA D -OPEN RA L - OPEN RA CURF D -EDDIES[D -EDDIES]] A -EDDIES[A -EDDIES]] A -E	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT (Check J I) TE-[1]] AVERAGE FE Koulder) [2 ge Gravel)	AM GE [1] AL [0] GE [1] AL [0] CROP [0] ION [0] ION [0] ITY [POO All That Ap I-FORRE I-FORRE I-VERY F RIFFLE/R [1] II	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITTLE [3 D D-NONE/LITTLE [3 D D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] pby) FTML[-1] FTTENT[-2] ST[1] UN EMBEDDEDNESS NONE [Z] -LOW [1] MODERATE [0] EXTENSIVE [-1]	Ripariz Pool/ Curren Max 1 Max 1 Riffle/R Max 8 Gradle
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DD-WIDE > 50m [4]. DD-WIDE > 50m [4]. DD-MARROW 5-10 m [2] DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. DD-MARROW 5-10 m [2]. COMMENTS: 5.]POIOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). D->1m [6]. E. 0.2-0.4m [1]. D- 0.2-0.4m [1]. D- 0.2-0.4m [1]. D- 8est Areas > 10 cm [2]. E. Best Areas > 10 cm [2]. E. Best Areas < 5 cm. [RIFFLE=0].	L R (Most I L R (FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD WITAL, PARK, MD D PASTURE [1] ALITY 4010GY or 2 & AVERAN H = RIFFLE WD H = RIFFLE WD H = RIFFLE WD CHECK CHECK CHECK X > 50 [2] X < 50[1]	box per bank AIN QUALIT er Bank) [2] w FIELD [1] [3] 3E) TH [2] H [1] 1. ONE OR C <u>RIFFLE</u> / STABLE I D-UNSTABI	Y (PAST 100 M L R D D CONSERV D D CONSERV D D OPEN RA D OPEN RA L D OPEN RA CURF D -EDDIES[D -EDDIES]] A -SLOW [1]	AVERAGE F eter RIPARI ATION TILLA DR INDUSTRI STURE, ROW CONSTRUCT (Check J I] TE [1] TE [1]] AVERAGE FE Soulder) [2 ge Gravel) [0]-	AM GE [1] GE [1] AL [0] CROP [0] ION [0] ION [0] ITY [POO II That Ac O -FORRE I -FORRE I -VERY F/ RIFFLE/R I II III II E [Metrice	River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITTLE [3 D D-NONE/LITTLE [3 D D-MODERATE [2] D D-HEAVY/SEVERE[DLS & RIFFLES1] pby) FTML[-1] FTTENT[-2] ST[1] UN EMBEDDEDNESS NONE [Z] -LOW [1] MODERATE [0] EXTENSIVE [-1]	Riparia Max 1 Pool/ Currer Max 1 Riffle/R Gradle
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank) DDWIDE > 50m [4]. DDWIDE > 50m [4]. DDWIDE > 50m [4]. DDMARROW 5-10 m [2] DDMARROW 5-10 m [2]. DDMARROW 5-10 m [2]. COMMENTS: 5.]POIOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI) D- >1m [6]. E 0.7-1m [4]. D- 0.2- 0.4m [1]. D- 2.2. 0.4m [1]. D- 8est Areas > 10 cm [2]. E. Best Areas > 10 cm [2]. E. Best Areas > 5. cm [RIFFLE=0]. COMMENTS:	L R (Most I L R (FLOOD PL Predominant P T, SWAWP [3] OR OLD FIELD D PASTURE [1] ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY ALITY AVERAT AV	box per bank AIN QUALIT er Bank) [2] w FIELD [1] [3] 3E) TH [2] H [1] 1. ONE OR C <u>RIFFLE</u> / STABLE I D-UNSTABI	Y (PAST 100 M L R D D-CONSERV D D-URBAN (D D-URBAN (D D-URBAN (D D-EN RA D-EDDIES	AVERAGE F eter RIPARI ATION TILLA OR INDUSTRI STURE, ROW CONSTRUCT ENT VELOC (Check J I] TE [1] AVERAGE FE Soulder) [2 ge Gravel) [0] - NO RIFFL	AM AM GE [1] AL [0] CROP [0] ION [River Right Looking <u>BANK EROSION</u> L R (Per Bank) D D-NONE/LITLE [3 D D-NONE/LITLE [3 D D-HEAVY/SEVERE[D D-HEAVY/SEVER[D D-HEAVY/SEVER[Ripariz Pool/ Curren Max 1 Max 1 Riffle/R Max 8 Gradle

dic.	RM: Stream: Location: Sun	Indian C	reek		
Corers Full Name: SUBSTRATE (Check ONL YPE POOL RIFF	locanon: DilA	nyside			
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YPE POOL RIFF			nt		
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FI-BLOR /SLBSHOF		Check ONE (OR 2 &	AVERAGE)	Check ONE (OR 2 & AVERAGE	E)
	THE ALLES TON Y			Y-SILT HEAVY [-2]	-
0-BOULDER [9]	DIDESAND[6] X	_ WILLSIT		OF-SILF MODERATE [-1]	Subst
ID-COBBLE [8]	CICIDETRITUS[3]	D -WETLANDS	1	DT-SILT NORMAL [0]	E in
[[]HARDPAN [4]		D-HARDPAN [0]	10	O-SILT FREE [1]	10
10-MUCK [2]	MCTE: Ignore Studge Original		TOT EMBEDD		Max
10-SILT [2]	- From Point Sources	D-RIP/RAP [0]	NESS:	-MODERATE [-1]	excaso /
			A STATE OF THE STA	-NORMAL [0]	
UMBER OF SUBSTRATE TYPE	S: Det or More [2]		[0]	-NONE [1]	
tigh Quality Only, Score 5 or >)) (i) 3 or Less [0]	D-SHALE [-1]	.21		
OMMENTS				AMOUNT: (Check ONLY One	or -
INSTREAM COVER (Give	e each cover type a score	of 0 to 3; see back for in	suncoonsi	check 2 and AVERAGE)	Cove
(Structure)	TYPE: Score All That		101117700 541	- EXTENSIVE > 75% [11]	IA
UNDERCUT BANKS [1]	POOLS> 70 cm	and the second sec	KWALEKS [1]	MODERATE 25-75% [7]	BA
OVERHANGING VEGETATION	[1] <u>× ROOTWADS</u> [1]	×	ROPHYTES [1]	SPARSE 5-25% [3]	Max
SHALLOWS (IN SLOW WATER)		ZLOGS OR WOO	DOA DERKIZ [1]	- NEARLY ABSENT < 5%[1]	
/	rTC.				S
CHANNEL MORPHOLOG	Y: (Check ONLY One PE	R Category OR check 2	andAVERAG		Chanr
NHOSITY DEVELOR	PMENT CHANNELIZATI	UN STABILIT	mounter	Harton of Friday	(Fr.
1- HIGH [4] D- EXC	ELLENT [7] E. NONE [6]	0- HIGH [3]	D-SNAG		114
- MODERATE [3] D - GOD		ED [4] A-MODERATE	[2] D - RELOC	ATION - ISLANDS	<u>L</u>
-LOW [2] SC- FAIR		ING [3] - LOW [1]		PY REMOVAL D - LEVEED	Max
L- NONE [1]. 0- POO			D - DRED	SING - BANK SHAPING	,
r- None filt	RECOVERY [1	2	D-ONE S	IDE CHANNEL MODIFICATIONS	
HODEDATE 10 FRM FT	D D-SHELIB OR OLD FIELD	121 D D-URBAN	OR INDUSTRU	JE Image: Second state JE Image: Second state </th <th>3] 8 [1] Max</th>	3] 8 [1] Max
MODERATE 10-50m [3] - MARROW 5-10-m [2] - VERY NARROW <5 m[1]	D D-RESIDENTIAL, PARK, NE	[2] D D-URBAH W FIELD [1] D D-OPEN	Y OR INDUSTRIA RASTURE, ROWA G/CONSTRUCT	LE [0] CIE MODERATE [2] CROP [0] CI CI HEAVY/SEVERE	Le
MODERATE 10-50m [3] - MARROW 5-10 m [2] - VERY NARROW <5 m [1] - VERY NARROW <5 m [1]	D D-RESIDENTIAL, PARK, NE	[2] D D-URBAH W FIELD [1] D D-OPEN	PASTURE, ROW	LE [0] CIE MODERATE [2] CROP [0] CI CI HEAVY/SEVERE	Le
MODERATE 10-50m [3] - MARROW 5-10-m [2] - VERY NARROW <5 m[1] - NONE [0] - OWMENTS:	D D-RESIDENTIAL, PARK, ME D - FENCED PASTURE [1]	[2] D D-URBAH W FIELD [1] D D-OPEN	PASTURE, ROW	LE [0] CIE MODERATE [2] CROP [0] CI CI HEAVY/SEVERE	Le
MODERATE 10-50m [3] - MARROW 5-10 m [2] - VERY MARROW -5 m [1] - NONE [0] - OWMENTS: 5.]POIDL/GLIDE AND RIFFL	D D-RESIDENTIAL, PARK, NE D D -FENCED PASTURE [1] E/RUNIQUALITY	(2) Did-Urbat Wifield [1] Did-Open Did-Minin	PASTURE,ROW G/CONSTRUCT	AL [0] CT RE-MODERATE [2] CROP [0] CT CT-HEAVY/SEVERE ION [0]	[1] ^{Max}
5.]POIDL/GLIDE AND RIFFL MAX. DEPTH	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY	(2) D-URBAT W FIELD [1] D D-OPEN D D-MININ D D-MININ	RASTURE,ROWA G/CONSTRUCT	IL [0] IT A MODERATE [2] CROP [0] ID -HEAVY/SEVERE ION [0] ITY _ POOLS & RIFFLES!]	[1] ^{Max}
MODERATE 10-50m [3] D - MARROW 5-10 m [2] D - VERY MARROW -5 m [1] D - NONE [0] COMMENTS: 5.]POIDL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI)	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 of 2 & AVERA	(2) D-URBA W FIELD [1] D D-OPEN D D-MININ D D-MININ <u>CU</u> (3E)	RASTURE,ROWA G/CONSTRUCT RRENT VELOC (Check A	IL [0] CLAE-MODERATE [2] CROP [0] CL D-HEAVY/SEVERE ION [0] <u>ITY [</u> POOLS & RIFFLES!] II That Apply}	[1] ^{Max}
Dial-MODERATE 10-50m [3] Dial-MARROW 5-10 m [2] Dial-NONE [0] Dial-NONE [0] COMMENTS: 5.]POIDL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI) Dial-NIM [6]	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA -POOL WIDTH > RIFFLE WID	(2) D-URBAT W FIELD [1] D D-OPEN D D-MININ D D-MININ CU GE) FIH [2] D-EDOIE	RASTURE, ROWA G/CONSTRUCT RRENT VELOC (Check & S[1]	IL [0] CLAC-MODERATE [2] CROP [0] CL D-HEAVY/SEVERE ION [0] ITY POOLS & RIFFLES!] II That Apply} D-TORRENTIAL[-1]	Poc Curr
MODERATE 10-50m [3] III - NARROW 5-10 m [2] III - VERY NARROW <5 m [1]	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA -POOL WIDTH - RIFFLE WID -POOL WIDTH - RIFFLE WID	[2] D D -URBAT W FIELD [1] D OPEN W FIELD [1] D OPEN D -MININ GE	RASTURE, ROWA G/CONSTRUCT RRENT VELOC (Check A S[1] 3]	IL [0] CLAC-MODERATE [2] CROP [0] CL D-HEAVY/SEVERE ION [0] ITY POOLS & RIFFLES!] II That Apply} C-TORRENTIAL[-1] II -INTERSTITIAL[-1]	[1] ^{Max}
MODERATE 10-50m [3] ID - HARROW 5-10 m [2] ID - VERY HARROW 5-10 m [2] ID - NONE [0] ID - NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI) D- >tm [6] ID - >tm [4]	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA -POOL WIDTH > RIFFLE WID	[2] D D -URBAT W FIELD [1] D OPEN W FIELD [1] D OPEN ID OPEN ID ID OPEN ID ID ID OPEN ID ID ID ID ID ID <td< td=""><td>RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1]</td><td>IL [0] CONTRACTOR [2] CROP [0] CO -HEAVY/SEVERE IN [0] ITYPOOLS & RIFFLES!] IT That Apply} C-TORRENTIAL[-1] C-INTERSTITIAL[-1] C-INTERSTITIAL[-2]</td><td>Poc Curr</td></td<>	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1]	IL [0] CONTRACTOR [2] CROP [0] CO -HEAVY/SEVERE IN [0] ITYPOOLS & RIFFLES!] IT That Apply} C-TORRENTIAL[-1] C-INTERSTITIAL[-1] C-INTERSTITIAL[-2]	Poc Curr
Image: ModeRafe 10-50m [3] Image: Market 10-50m [2]	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA -POOL WIDTH - RIFFLE WID -POOL WIDTH - RIFFLE WID	[2] D D -URBAT W FIELD [1] D OPEN W FIELD [1] D OPEN D -MININ GE	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1]	IL [0] CLAC-MODERATE [2] CROP [0] CL D-HEAVY/SEVERE ION [0] ITY POOLS & RIFFLES!] II That Apply} C-TORRENTIAL[-1] II -INTERSTITIAL[-1]	Poc Curr
ID MODERATE 10-50m [3] ID MARROW 5-10 m [2] ID VERY MARROW <5 m [1]	D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA -POOL WIDTH - RIFFLE WID -POOL WIDTH - RIFFLE WID	[2] D D -URBAT W FIELD [1] D OPEN W FIELD [1] D OPEN ID OPEN ID ID OPEN ID ID ID OPEN ID ID ID ID ID ID <td< td=""><td>RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1]</td><td>IL [0] CONTRACTOR [2] CROP [0] CO -HEAVY/SEVERE IN [0] ITYPOOLS & RIFFLES!] IT That Apply} C-TORRENTIAL[-1] C-INTERSTITIAL[-1] C-INTERSTITIAL[-2]</td><td>Poc Curr Max</td></td<>	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1]	IL [0] CONTRACTOR [2] CROP [0] CO -HEAVY/SEVERE IN [0] ITYPOOLS & RIFFLES!] IT That Apply} C-TORRENTIAL[-1] C-INTERSTITIAL[-1] C-INTERSTITIAL[-2]	Poc Curr Max
Dis- MODERATE 10-50m [3] Dis- MARROW 5-10 m [2] Dis- NONE [0] Dis- NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI) Dis- 1m [6] Dis- 2m [6] Dis- 2m [6] Dis- 0.4-0.7m [2] Dis- 0.2-0.4m [1]	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNLQUALITY MORPHOLOGY (Check 1 or 2 & AVERA (POOL WIDTH > RIFFLE WID (POOL WIDTH > RIFFLE WID (POOL WIDTH > RIFFLE WID (POOL WIDTH < RIFFLE W.)	[2] D D -URBAT W FIELD [1] D O OPEN W FIELD [1] D OPEN OPEN U -MININ D OPEN U -MININ OPEN OPEN U -U -MININ OPEN U -MININ OPEN OPEN U -MININ OPEN OPEN U -MININ OPEN OPEN U	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1]	II That Apply) II That Apply) II That Apply) II That Apply) II That Apply] II That Apply]	Poc Curr
Dial-MODERATE 10-50m [3] Dial-MARROW 5-10 m [2] Dial-NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI) Dial-Sim [6] Dial-NONE [7] Dial-NONE [7] MAX. DEPTH (Check 1 ONLYI) Dial-Sim [6] Dial-S	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-PENCED PASTURE [1] E/RUNIOUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1	[2] D D-URBAT W FIELD [1] D D-OPEN W FIELD [1] D D-OPEN ID D-MININ D D-MININ ID D-MININ D D-	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] [1] MD AVERAGE	IL [0] CLAE-MODERATE [2] CROP [0] CL D-HEAVY/SEVERE IN [0] IT THAL APPIY) C-TORRENTHAL[-1] IL THAL APPIY) C-TORRENTHAL[-1] IL-NITERNITTENT[-2] CL-VERY FAST[1]	Poc Curr Max Riffle
Dist - MODERATE 10-50m [3] Dist - NARROW 5-10 m [2] Dist - NARROW 5-10 m [2] Dist - NONE [0] Dist - NONE [0] COMMENTS: - 5.]POOL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI) Dist - NIT [6] Dist - 0.7-1m [4] Dist - 0.4-0.7m [2] Dist - 0.2-0.4m [1] Dist - 0.2m [POOL=0]	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-PENCED PASTURE [1] E/RUNIOUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1	[2] D D-URBAT W FIELD [1] D D-OPEN W FIELD [1] D D-OPEN ID D-URBAT D D-OPEN ID D-URBAT D D-OPEN ID D-URBAT D D-OPEN ID D-URBAT D D-OPEN ID D-MININ D D-MININ ID D-MININ D D-MININ IGE) D D-MININ ID D-MININ D D-MININ IGE) D -EDDIE ID D-FASI D -FASI ID D-FA	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] (1] <u>ND AVERAGE</u> RATE	II THAT APPRIS	Poc Curr Max Riffle
Dis - MODERATE 10-50m [3] Dis - MARROW 5-10 m [2] Dis - NARROW 5-10 m [2] Dis - NONE [0] Dis - NONE [0] COMMENTS: 5.]POOL/GLIDE AND RIFFL MAX. DEPTH (Check 1 ONLYI) Dis - 21m [6] Dis - 21m [700L=0]	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-PENCED PASTURE [1] E/RUNIOUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1	[2] D D -URBAT W FIELD [1] D OPEN W FIELD [1] D OPEN ID -MININ ID -FASTI ID -FASTI ID -FASTI ID -MININ ID -FASTI ID -FASTI ID -FASTI ID -FASTI ID -MININ ID -FASTI ID -FASTI ID -FASTI ID -FASTI ID -FASTABLE (e.g., Cobbite	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE 2, BOULDER) [7	ITY [POOLS & RIFFLES!] IT That Apply) ITTAL Apply) I That Apply) I That Apply) I That Apply] I That Apply	Poc Curr Max Riffle
RIFFLE DEPTH RIFFLE DEPTH RIFFLE DEPTH	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-PENCED PASTURE [1] E/RUNIOUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1	[2] D URBAT W FIELD [1] D -OPEN W FIELD [1] D -OPEN ID MININ ID	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE a, Boulder) [7] Large Gravel)	III (0) III (0) III (0) CROP (0) III (0) III (0) III (0) III (0) III (0)	Poc Curr Max Riffle
Riffle DEPTH Riffle DEPTH Bast Areas 5-10 cm [2]	DI CHECO	[2] D D -URBAT W FIELD [1] D OPEN W FIELD [1] D OPEN ID -MININ ID -FASTI ID -FASTI ID -MININ ID -FASTI ID -FASTABLE (e.g., Cobbite	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE a, Boulder) [7] Large Gravel)	III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Poc Curr Max Riffle
RIFFLE DEPTH C. 2.7. Contractor Charles S-10 cm [2] Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Charles Contractor Contractor	DI CHECO	[2] D D -URBAT WIFIELD [1] D OPEN WIFIELD [1] D OPEN ID -MININ ID -FASIT ID -MODE ID -MININ ID -FASIT ID -MODE ID -MININ ID -MININ ID -MODE	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE a, Boulder) [2] Large Gravel) Ivel, Sand) [0]	III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Poc Curr Max Riffle
RIFFLE DEPTH RIFFLE DEPTH Best Areas >10 cm [2]	DI CHECO	[2] D D -URBAT WIFIELD [1] D OPEN WIFIELD [1] D OPEN ID -MININ ID -FASIT ID -MODE ID -MININ ID -FASIT ID -MODE ID -MININ ID -MININ ID -MODE	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE a, Boulder) [7] Large Gravel)	III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Poc Curr Max Riffle
RIFFLE DEPTH RIFFLE DEPTH Best Areas 5-10 cm [2]	DI CHECO	[2] D D -URBAT WIFIELD [1] D OPEN WIFIELD [1] D OPEN ID -MININ ID -FASIT ID -MODE ID -MININ ID -FASIT ID -MODE ID -MININ ID -MININ ID -MODE	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE a, Boulder) [2] Large Gravel) Ivel, Sand) [0]	III (0) III (0) III (0) III (0) IFY [POOLS & RIFFLES!] III That Apply) III That Apply) IIII That Apply) III That Apply) IIII That Apply) III That Apply) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Poc Curr Max Riffle
RIFTLE DEPTH B. Best Areas >10 cm [2] C. WARROW S-40 m [2] D NARROW S-40 m [2] D NARROW S-40 m [2] D NONE [0] D NONE [0] COMMENTS: S. [POIOL/GLIDE AND RIFFL MAX. DEPTH Check 1 ONLYI) D >1m [6] D 0.4-0.7m [2] D 0.2-0.4m [1] D 8est Areas >10 cm [2] C. Best Areas -10 cm [1] D. Best Areas -10 cm [2] C. Best Areas -10 cm [2] C. Best Areas -10 cm [2] C. Best Areas -10 cm [2]	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-PENCED PASTURE [1] E-RUNIQUALITY MORPHOLOGY (Check 1 of 2 & AVERA POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE W. [DMMENTS: CHECK RUN DEPTH D - MAX > 50 [2] T - MAX > 50 [1].	[2] D -URBAN W FIELD [1] D -OPEN W FIELD [1] D -OPEN I D -MININ I D -FASII I D -FASIII I D -FASIIII	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] <u>ND AVERAGE</u> RATE a, Boulder) [2] Large Gravel) Ivel, Sand) [0]	III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Poc Curr Max Riffle Max Gra
RIFFLE DEPTH RIFFLE DEPTH RIFFLE DEPTH RIFFLE DEPTH RIFFLE DEPTH RIFFLE DEPTH	DI CHECO	[2] D URBAH WIFIELD [1] D -OPEN WIFIELD [1] D -OPEN ID MININ ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI <td>RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] (1] (1] (1] (1] (1] (1] (1] (1] (1] (</td> <td>H_[0] D. G. MODERATE [2] CROP [0] D. HEAVY/SEVERE ION [0] D. HEAVY/SEVERE IT That Apply) D. TORRENTIAL[-1] D. TORRENTIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HONE [7] D. HONE [7] D. HONE [7] D. VERY FAST[1] D. HONE [7] E. LOW [1] D. MODERATE [0] M. GLIDE D. MODELDE WGLIDE D. WGLIDE</td> <td>Poc Curr Max Riffle Max Gra</td>	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] (1] (1] (1] (1] (1] (1] (1] (1] (1] (H_[0] D. G. MODERATE [2] CROP [0] D. HEAVY/SEVERE ION [0] D. HEAVY/SEVERE IT That Apply) D. TORRENTIAL[-1] D. TORRENTIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HONE [7] D. HONE [7] D. HONE [7] D. VERY FAST[1] D. HONE [7] E. LOW [1] D. MODERATE [0] M. GLIDE D. MODELDE WGLIDE D. WGLIDE	Poc Curr Max Riffle Max Gra
RIFTLE DEPTH Comment Comment RIFFLE DEPTH Comment Comment Comment Check Comment Check Comment Check Comment Comment Comment	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA (POOL WIDTH > RIFFLE WID (Check 1 or 2 & AVERA (POOL WIDTH > RIFFLE WID (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA (Ch	[2] D URBAH WIFIELD [1] D -OPEN WIFIELD [1] D -OPEN ID MININ ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI <td>RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] (1] (1] <u>KD AVERAGE</u> e, Boulder) [2] Large Gravel) Ivel, Sand) [0] </td> <td>III (0) III (0) III (0) III (0) IFY [POOLS & RIFFLES!] III That Apply) III That Apply) IIII That Apply) III That Apply) IIII That Apply) III That Apply) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td> <td>Poc Curr Max Riffle Max Max</td>	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] [1] (1] (1] <u>KD AVERAGE</u> e, Boulder) [2] Large Gravel) Ivel, Sand) [0] 	III (0) III (0) III (0) III (0) IFY [POOLS & RIFFLES!] III That Apply) III That Apply) IIII That Apply) III That Apply) IIII That Apply) III That Apply) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Poc Curr Max Riffle Max Max
RiffLE DEPTH B. Sest Areas 5-10 cm [2] COMMENTS:	D D-RESIDENTIAL, PARK, ME D D-RESIDENTIAL, PARK, ME D D-FENCED PASTURE [1] E/RUNIQUALITY MORPHOLOGY (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA (POOL WIDTH > RIFFLE WID (Check 1 or 2 & AVERA (POOL WIDTH > RIFFLE WID (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA (Ch	[2] D URBAH WIFIELD [1] D -OPEN WIFIELD [1] D -OPEN ID MININ ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI ID FASTI <td>RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] (1] (1] (1] (1] (1] (1] (1] (1] (1] (</td> <td>H_[0] D. G. MODERATE [2] CROP [0] D. HEAVY/SEVERE ION [0] D. HEAVY/SEVERE IT That Apply) D. TORRENTIAL[-1] D. TORRENTIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HONE [7] D. HONE [7] D. HONE [7] D. VERY FAST[1] D. HONE [7] E. LOW [1] D. MODERATE [0] M. GLIDE D. MODELDE WGLIDE D. WGLIDE</td> <td>Poc Curr Max Riffle Max Gra</td>	RASTURE, ROWA G/CONSTRUCT (Check A S[1] 1] RATE [1] (1] (1] (1] (1] (1] (1] (1] (1] (1] (H_[0] D. G. MODERATE [2] CROP [0] D. HEAVY/SEVERE ION [0] D. HEAVY/SEVERE IT That Apply) D. TORRENTIAL[-1] D. TORRENTIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HITERSTITIAL[-1] D. HONE [7] D. HONE [7] D. HONE [7] D. VERY FAST[1] D. HONE [7] E. LOW [1] D. MODERATE [0] M. GLIDE D. MODELDE WGLIDE D. WGLIDE	Poc Curr Max Riffle Max Gra

	MU: Stream:	Indian Creek		
	ocation: D/S	Indian Lake		
Sorars Full Name: GR	6 Affiliation:			
SUBSTRATE (Check ONLY	Two SubstrateTYPE BOXES	Estimate % present	and the second second second	
PE POOL RIFFL	E POOL RIFF	LE SUBSTRATE ORIGIN	SUBSTRATE QUALITY Check ONE (OR 2 & AVERAGE)	
D-BLDR /SLBS[10]	DID-GRAVEL [7] X	_Check ONE (OR 2 & AVERAGE)	SILT HEAVY [-2]	
0-BOULDER [9]	DTTT-SAND [6]	SILT:	-SILT MODERATE [-1] S	ubstrate
		O -WETLANDS[0]	DT-SILT NORMAL [0]	III.
			D-SILT FREE [1]	14
ID-MUCK [2]	MOLTHE: Ignore Studge Originating	D -SANDSTONE [0] EMBEDDI	ED CEXTENSIVE [-2]	Max 20
	Fritan Point Sources	- D-RIP/RAP [0] NESS:	-MODERATE [-1]	
UMBER OF SUBSTRATE TYPES	Ant A or More [2]	-LACUSTRINE [0]	D-NORMAL [0]	
High Quality Only, Score 5 or >)	11-3 or Less [0]	D-SHALE [-1]	D-NONE [1]	
OMMENTS		D-COAL FINES [-2]	AMOUNT: (Check ONLY One or	
	eachhocover type a score of 0 IIIYPE: Score All That Occ	to 3; see back for instructions)	check 2 and AVERAGE)	Cover
(Structure)	POOLS> 70 cm [2]	OXBOWS, BACKWATERS [1]	- EXTENSIVE > 75% [11]	[[]]
UNDERCUT BANKS [1] OVERHANGING VEGETATION [AQUATIC MACROPHYTES [1]	MODERATE 25-75% [7]	LE
SHALLOWS (IN SLOW WATER)		LOGS OR WOODY DEBRIS [1]	- SPARSE 5-25% [3]	Max 20
X DOOTHATS MI COMMEN	TS:		- NEARLY ABSENT < 5%[1]	
3] CHANNEL MORPHOLOGY	Y: (Climick ONLY One PER C	Category OR check 2 and AVERAG		Channe
SINUOSITY DEVELOP	MENT CHANNELIZATION	STABILITY MUDIFICA	TURG/UTHEN	(III)
	LLENAT [7] XL- NONE [6]			16
GOOL - LOW IZI			PY REMOVAL D - LEVEED	Max 2
D - LOW [2] D - FAIR D - NONE [1] D - POOL		NO. DRED		
	RECOVERY [1]	D-ONE S	SIDE CHANNEL MODIFICATIONS	
COMMENTS:		per bank or check 2 and AVERAGE p	er bank) PRiver Right Looking [
- VERY NARROW <5 m[1] 1		IELD [1] EI CI-OPEN PASTURE, ROWA 12 CI-MINING/CONSTRUCT	CROP (0] III II -HEAVY/SEVERE(1 ION (0]	
COMMENTS				
	ERUNNQUALITY			
5 1POOL/GLIDE AND RIFFLI				Pool/
5.]POOL/GLIDE AND RIFFLI MAX. DEPTH	MORPHOLOGY		ITY [POOLS & RIFFLESI]	Pool/ Curren
MAX. DEPTH (Check 1 ONLYI)	MURPHOLOGY (Chasik 1 or 2 & AVERAGE)) (Check /	All That Apply)	
MAX. DEPTH (Check 1 ONILYI) D: >1m [6]	MORPHOLOGY (Church, 1 or 2 & AVERAGE) POOL WIDTH > RIFFLE WIDTH]) (Check / [2] D -EDO(ES[1]	All That Apply) D -TORRENTIAL[-1]	Curren
MAX. DEPTH (Check 1 ONLYI) □ → 1m [6] □ → 1m [4]	<u>MORPHOLOGY</u> (Chuzik 1 of 2 & AVERAGE) POCE JWIDTH > RIFFLE WIDTH POCE JWIDTH = RIFFLE WIDTH [) (Check / [2] D-EDDIES[1] 1] D-FAST[1]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1]	
MAX. DEPTH (Check 1 ONLYI) □ - >im [6] □ - 0.7-1m [4] □ - 0.4-0.7m [2]	MORPHOLOGY (Church, 1 or 2 & AVERAGE) POOL WIDTH > RIFFLE WIDTH]) (Check / [2] D-EDDIES[1] 1] D-FAST[1]	All That Apply) D -TORRENTIAL[-1]	Curren
MAX. DEPTH (Check 1 ONLYI) □- >1m [6] ☑- 0.7-1m [4] □- 0.4-0.7m [2] □- 0.2- 0.4m [1]	<u>MORPHOLOGY</u> (Chuzik 1 of 2 & AVERAGE) POCE JWIDTH > RIFFLE WIDTH POCE JWIDTH = RIFFLE WIDTH [(Check / [2] D-EDDIES[1] [1] D-FAST[1] 25-MODERATE [1]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERMITTENT[-2]	Curren
MAX. DEPTH (Check 1 ONLYI) □->1m [6] □->1m [4] □-0.4-0.7m [2] □-0.2-0.4m [1]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCE JWIDTH > RIFFLE WIDTH POCE JWIDTH = RIFFLE WIDTH [POCE JWIDTH < RIFFLE W. [0]	[2] D-EDDIES[1] [1] D-FAST[1] ZG-MODERATE [1] ZG-SLOW [1]	All That Apply) D-FORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERMITTENT[-2] D-VERY FAST[1]	Curren
MAX. DEPTH (Check 1 ONLYI) □ ->1m [6] □ ->1m [4] □ - 0.4-0.7m [2] □ - 0.2-0.4m [1] □ - < 0.2m [POOL=0]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH] POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: CHECK O	(Check / [2] D-EDDIES[1] 1] D-FAST[1] S-MODERATE [1] S-SLOW [1] NE OR CHECK 2 AND AVERAGE	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERMITTENT[-2] D-VERY FASF[1]	Curren 8 Max 1
MAX. DEPTH (Check 1 ONLYI) □->1m [6] □->1m [4] □-0.7-1m [4] □-0.2-0.4m [1] □-<0.2m [POOL=0]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL SWIDTH > RIFFLE WIDTH] POCL SWIDTH = RIFFLE WIDTH [POCL SWIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OF</u>	[2] D-EDDIES[1] [1] D-FAST[1] S-MODERATE [1] S-MODERATE [1]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERMITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS	Curren 8 Max 1
MAX. DEPTH (Check 1 ONLYI)	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OI</u> RUN DEPTH OI - MAX > 50 [2]	(Check / [2] D-EDDIES[1] 1] D-FAST[1] S-MODERATE [1] S-MODERATE [1] ESLOW [1] NE OR CHECK 2 AND AVERAGE BIFFLE/RUN SUBSTRATE STABLE (e.g., Cobble, Boulder) [2]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERMITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z]	Curren 8 Max 1
MAX. DEPTH (Check 1 ONLY!) □->1m [6] □-0.7-1m [4] □-0.4-0.7m [2] □-0.2-0.4m [1] □-0.2-0.4m [1]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OF</u> <u>RUN DEPTH</u> OF - MAX < 50[1], G	[2] D-EDDIES[1] [1] D-FAST[1] S-MODERATE [1] S-MODERATE [1]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERWITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS L] D-NONE [2] [1] D-LOW [1] D-MODERATE [0]	Curren 8 Max 1 Riffle/F
MAX. DEPTH (Check 1 ONLY!) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2- 0.4m [1] □ 8.5t Areas >10 cm [2] ■. Best Areas >10 cm [1] □. Best Areas >10 cm [1]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OF</u> <u>RUN DEPTH</u> OF - MAX < 50[1], G	(Check / [2] D-EDDIES[1] 1] D-FAST[1] MODERATE [1] D-SLOW [1] D-SLOW [1] ME OR CHECK 2 AND AVERAGE BIFTLE/RUN SUBSTRATE STABLE (e.g., Cobble, Boulder) [J MOD. STABLE (e.g., Large Gravel) UNSTABLE (Fine Gravel, Sand) [0]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERWITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0]. X- EXTENSIVE [-1]	Curren Riffle/F Max 1 Max 8
MAX. DEPTH (Check 1 DNLYI) □->1m [6] □-0.7-1m [4] □-0.4-0.7m [2] □-0.2-0.4m [1] □-0.2-0.4m [1]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OF</u> <u>RUN DEPTH</u> OF - MAX < 50[1], G	(Check / [2] D-EDDIES[1] 1] D-FAST[1] S-MODERATE [1] ESLOW [1] NE OR CHECK 2 AND AVERAGE BIFTLE/RUN SUBSTRATE STABLE (e.g., Cobble, Boulder) [2 MOD. STABLE (e.g., Large Gravel)	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERWITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0]. X- EXTENSIVE [-1]	Curren
MAX. DEPTH (Check 1 ONLY!) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2- 0.4m [1] □ <0.2m [POOL=0]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OF</u> <u>RUN DEPTH</u> OF - MAX < 50[1], G	(Check / [2] D-EDDIES[1] [1] D-FAST[1] MODERATE [1] SLOW [1] ME OR CHECK 2 AND AVERAGE <u>BIFTLE/RUN SUBSTRATE</u> STABLE (e.g., Cobble, Boulder) [J MOD. STABLE (e.g., Large Gravel) UNSTABLE (Fine Gravel, Sand) [0] D - NO RIFFI	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERWITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0]. Y- EXTENSIVE [-1] LE [Medric=D]	Curren
MAX. DEPTH (Check 1 ONLY!) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2- 0.4m [1] □ <0.2m [POOL=0]	MORPHOLOGY (Chuzik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: <u>CHECK OF</u> <u>RUN DEPTH</u> OF - MAX < 50[1], G	(Check / [2] D-EDDIES[1] 1] D-FAST[1] MODERATE [1] DESLOW [1] ME OR CHECK 2 AND AVERAGE BIFFLE/RUN SUBSTRATE STABLE (e.g., Cobble, Boulder) [J MOD. STABLE (e.g., Large Gravel) UNISTABLE (Fine Gravel, Sand) [0] D- NO RIFF %POOL: [All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERSTITIAL[-1] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0] Y- EXTENSIVE [-1] LE [Metric=0] %GLIDE	Curren Max 1 Riffle/F Max 8 Gradi
MAX. DEPTH (Check 1 ONLYI) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2- 0.4m [1] □ 8est Areas >10 cm [Z] ■. Best Areas >10 cm [1] □. Best Areas <5.0m [RIFFLE=0]	MORPHOLOGY (Churdik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: CHECK OF RUN DEPTH DI- MAX > 50 [2] CHECK OF RUN DEPTH DI- MAX < 50[1] DRAINAGE AREA (sq.m)	(Check / [2] D-EDDIES[1] 1] D-FAST[1] SMODERATE [1] D-SLOW [1] NE OR CHECK 2 AND AVERAGE BIFFLE/RUN SUBSTRATE STABLE (e.g., Cobble, Boulder) [2 MOD. STABLE (e.g., Large Gravel) UNSTABLE (Fine Gravel, Sand) [0] D - NO RIFFL (Check / A	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERWITTENT[-2] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0]. Y- EXTENSIVE [-1] LE [Medric=D]	Curren Max 1 Riffle/F Max 8 Gradi
MAX. DEPTH (Check 1 ONLYI) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2-0.4m [1] □. 8est Areas >10 cm [2] ■. Best Areas >10 cm [1] □. Best Areas < 5 cm.	MORPHOLOGY (Chandik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: CHECK OF RUN DEPTH OF - MAX < 50[1] DRAINAGE AREA (sq.m. PORAINAGE AREA (sq.m.	(Check / [2] D-EDDIES[1] [1] D-FAST[1] MODERATE [1] SMODERATE [1] SLOW [1] ME OR CHECK 2 AND AVERAGE <u>BIFFLE/RUN SUBSTRATE</u> STABLE (e.g., Cobble, Boulder) [J MOD. STABLE (e.g., Large Gravel) UNSTABLE (Fine Gravel, Sand) [0] D- NO RIFT %POOL: [%RIFFLE]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERSTITIAL[-1] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0] Y- EXTENSIVE [-1] LE [Metric=0] %GLIDE	Curren Max 1 Riffle/F Max 8 Gradi
MAX. DEPTH (Check 1 ONLYI) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2-0.4m [1] □. 8est Areas >10 cm [2] ■. Best Areas >10 cm [1] □. Best Areas < 5 cm.	MORPHOLOGY (Chandik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: CHECK OF RUN DEPTH OF - MAX < 50[1] DRAINAGE AREA (sq.m. PORAINAGE AREA (sq.m.	(Check / [2] D-EDDIES[1] [1] D-FAST[1] MODERATE [1] SMODERATE [1] SLOW [1] ME OR CHECK 2 AND AVERAGE <u>BIFFLE/RUN SUBSTRATE</u> STABLE (e.g., Cobble, Boulder) [J MOD. STABLE (e.g., Large Gravel) UNSTABLE (Fine Gravel, Sand) [0] D- NO RIFT %POOL: [%RIFFLE]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERSTITIAL[-1] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0] Y- EXTENSIVE [-1] LE [Metric=0] %GLIDE	Riffle/F Max 1 Max 8 Gradi
MAX. DEPTH (Check 1 ONLYI) □. >1m [6] □. 0.7-1m [4] □. 0.4-0.7m [2] □. 0.2-0.4m [1] □. 8est Areas >10 cm [2] ■. Best Areas >10 cm [1] □. Best Areas < 5 cm.	MORPHOLOGY (Churdik 1 of 2 & AVERAGE) POCL WIDTH > RIFFLE WIDTH POCL WIDTH = RIFFLE WIDTH [POCL WIDTH < RIFFLE W. [0] MMENTES: CHECK OF RUN DEPTH DI- MAX > 50 [2] CHECK OF RUN DEPTH DI- MAX < 50[1] DRAINAGE AREA (sq.m)	(Check / [2] D-EDDIES[1] [1] D-FAST[1] MODERATE [1] SMODERATE [1] SLOW [1] ME OR CHECK 2 AND AVERAGE <u>BIFFLE/RUN SUBSTRATE</u> STABLE (e.g., Cobble, Boulder) [J MOD. STABLE (e.g., Large Gravel) UNSTABLE (Fine Gravel, Sand) [0] D- NO RIFT %POOL: [%RIFFLE]	All That Apply) D-TORRENTIAL[-1] D-INTERSTITIAL[-1] D-INTERSTITIAL[-1] D-VERY FAST[1] RIFFLE/RUN EMBEDDEDNESS Z] D-NONE [Z] [1] D-LOW [1]. D-MODERATE [0] Y- EXTENSIVE [-1] LE [Metric=0] %GLIDE	Riffle/F Max 1 Max 8 Gradi

iver Code: 10	RMA: Stream: Fall Creek	
ate: 4 25 08	Locution: Geist Dam	
corers Full Name:	GRB Affiliation:	
1 SUBSTRATE (Check C	DNLY Two Substrate TYPE BOXES; Estimate % present	110
	RIFFLE POOL RIFFLE SUBSTRATE ORIGIN SUBSTRATE QUALITY	
D-BLDR /SLBS[10]	Check ONE (OR 2 & AVERAGE) Check ONE (OR 2 & AVERAGE) Check ONE (OR 2 & AVERAGE)	aE)
TEL-BOULDER [9]	DITTI-SAND [6] X II - LIMESTONE [1.] SILT: II- SILT HEAVY [-2]	Substrat
	DID-BEDROCK[5] Z-TILLS [1] D-SILT MODERATE [-1]	Subsuan
CHARDPAN (4)	DHOLDETRIFUS[3] CI -WETLANDS[0] XI-SILT NORMAL [0]	IT IL I
	DIDLARTIFICIAL[0] D-HARDPAN [0] D-SILT FREE [1] D-SILT FREE [1] C. SANDSTINE (0] EMBEDDED D-EXTENSIVE [-2]	. <u>E</u>
DEL-SILT [2]	From Bold Sources	Max 20
NUMBER OF SUBSTRATE T	IFES. WHITE [1]	
(High Quality Only, Score 5	5 or >) 20-3 or Less [0] D-SHALE [-1] D-NONE [1]	
COMMENTS	(Give eachicover type a score of 0 to 3; see back for instructions) AMOUNT: (Check ONLY On	ne or
(Structure)	TYPE: Score All That Occur check 2 and AVERAGE)	Cove
UNDERCUT BANKS [1]	POOLS> 70 cm [2]OXBOWS, BACKWATERS [1] A - EXTENSIVE > 75% [11]	1 14
X OVERHANGING VEGETAT	TION [1] X ROOTWADS [1]AQUATIC MACROPHYTES [1] Y- MODERATE 25-75% [7	
SHALLOWS (IN SLOW WA	ATERN [1] BOHL DERS [1] X LOGS OR WOODY DEBRIS [1] D - SPARSE 5-25% [3]	Max 2
X POOTMATS [1] COM	MMENTS:	[1]
31 CHANNEL MORPHO	LOGY: (Clineck ONLY One PER Category OR check 2 and AVERAGE)	Chara
SINUOSITY DEV	RELOPMENTT CHANNELIZATION STABILITY MODIFICATIONS/OTHER	Chann
	EXCELLENT [7] XI- MONE [6] I- HIGH [3] I- SNAGGING I- IMPOUND.	114
MODERATE [3]	GOOD [5]] D- RECOVERED [4] C- MODERATE [2] D- RELOCATION D- ISLANDS	<u>u</u>
	FAIR [3] D - RECOVERING [3] D - LOW [1] D - CANOPY REMOVAL D - LEVEED	Max 2
D- NONE [1]. D-	PUOK [11] LI- RELENT. OK NO	
also is another	RECOVERY [1] EL-ONE SIDE CHANNEL MODIFICATION	
RIPARIAN WIDTH	D BANK EBROSION check ONE box per bank or check 2 and AVERAGE per bank) River Right Look FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) L B (Micro Brodominant Per Bank) I B	Riparia
4]. RIPARIAN ZONE AND <u>RIPARIAN WIDTH</u> L. R. (Per Bank). D. WIDE > 50m. [4]. D. MODERATE 10-50m. D MARROW 5-10 m. [2]. D VERY NARROW <5 m. D NONE [0].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION L R (Most Predominant Per Bank) L R L R (Most Predominant Per Bank) L R L R (Most Predominant Per Bank) L R L B (Per Bank) L R	
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank). D. WIDE > 50m.[4]. D. MODERATE 10-50m.[D. MODERATE 10-50m.[D. MARROW 5-10 m.[2]. D. VERY NARROW <5 m. D. NONE [0]. COMMENTS:	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1. R (Most Predominant Per Bank) L R 1. B (Per Bank) 1. R (Most Predominant Per Bank) L R 1. B (Per Bank) 1. D HERDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] 1. D D-NONE/LITRE [3] D DHESHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[3] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVEN [1] D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVEN [1] D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVEN	Riparin E [3] [] 2] RE[1] ^{Max 1}
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank). D. WIDE > 50m. [4]. D. MODERATE 10-50m. D. MODERATE 10-50m. S. [POOL/GLIDE AND R]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. D (Herbard) D (Per Bank) L R L B (Per Bank) [3] D (Per Bank) D (Per Bank) D (Per Bank) D (Per Bank) [3] D (Per Bank), New Field [1] D (Per Per Bank) D (Per Bank) D (Per Bank) [3] D (Per Bank), New Field [1] D (Per Per Bank) D (Per Bank) D (Per Bank) [4] D (Per Bank), New Field [1] D (Per Per Bank), New Field [1] D (Per Per Bank) D (Per Per Bank) [6] D (Per Bank), New Field [1] D (Per Per Bank), New Field [1] D (Per Per Bank) D (Per Per Bank) [7] D (Per Bank), New Field [1] D (Per Per Bank), New Field [1] D (Per Per Bank) D (Per Per Bank) [8] D (Per Bank), New Field [1] D (Per Per Bank), New Field [1] D (Per Per Bank)	Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank). D. WIDE > 50m. [4]. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODE > 50m. [4]. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. S. JPOIDL/GLIDE AND. RI MAX. DEPTH	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. R (Most Predominant Per Bank) L R L B (Per Bank) 1. D (Most Predominant Per Bank) L R L B (Per Bank) 1. D (Most Predominant Per Bank) L R L B (Per Bank) 1. D (Most Predominant Per Bank) L R L B (Per Bank) [3] D (Most Predominant Per Bank, New Field [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [0] 1. D (Most Predominant Per Bank, New Field [1] D D-OPEN PASTURE, ROWCROP [0] D D-MODERATE [1] 1. D (Most Predominant Per Bank, New Field [1] D D-OPEN PASTURE, ROWCROP [0] D -MEAVY/SEVE 1. I D (Most Predominant Per Bank) D D-MONTON [0] D -MEAVY/SEVE 1. I D (Most Predominant Per Bank) D D-MONTON [0] D D-MODERATE [1] 1. I D (Most Photog Y) CURRENT VELOCITY [POOLS & RIFFLES]	Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank). D. WIDE > 50m. [4] D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODERATE 10-50m. S. JPOIDL/GLIDE AND. RI <u>MAX. DEPTH</u> (Check 1 ONLYI).	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1. R (Most Predominant Per Bank) L R 1. B (Per Bank) 1. D (MRDREST, SWAMP [3]) D D-CONSERVATION TILLAGE [1] 1. D O-NONE/LITTL [3] D DHEHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[3] D DHENDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVEN [1] D D-HENCED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [3] D D-HENCED PASTURE [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVEN [1] D D-HENCED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [1] D D-HENCED PASTURE [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVEN [1] D D-HENCED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [1] D D-HENCED PASTURE [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVEN [1] D D-HENCED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [3] MIRTHERCED PASTURE [1] D D-OPEN PASTURE [1] D D-HEAVY/SEVEN [4] MIRTHERCED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [5] MIRTHERCED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [6] MIRTHERCED PASTURE [1] D D-MODERATE [Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L. R. (Per Bank). D. WIDE > 50m. [4]. D. MODERATE 10-50m. D. MODERATE 10-50m. D. MODE PART 10-50m. D. MODE P	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1. R (Most Predominant Per Bank) L R 1. B (Per Bank) 1. D. MARDREST, SWAMP [3] D. D-CONSERVATION TILLAGE [1] 1. D (-NONE/LITTL [3] D. DHERIDENTIAL, RARK, MEW FIELD [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERAFE [[3] D. DHERIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-MODERAFE [[4] D. DHERIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVEN [6] D. DHERIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVEN [6] D. DHERIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVEN [6] D. DHERIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D HEAVY/SEVEN [6] M. D. HEAVY D D-MODERAFE [1] D D-MODERAFE [1] [7] M. D. HEAVY D D-OPEN PASTURE, ROWCROP [0] D HEAVY/SEVEN [8] M. D. HEAVY D D-MODERAFE [1] D HEAVY/SEVEN [9] M. D. HEAVY D D-MODE PASTURE [1] D HEAVY/SEVEN [9] M. D. HEAVY D D-MODE PASTURE [1] D HEAVY/SEVEN [1] M. D. HEAVY D D-MODE PASTURE [1] D HEAVY/SEVEN [1] M. MORDRENTIAL, PARTY	Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool 1 Curre
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank) DA: WIDE > 50m.[4] DD: MODERATE 10-50m.[DD: MODERATE 10-50m.[4] DD: MODERATE 10-50m.[4]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) 1 B (Per Bank) L R 1 B (Per Bank) 1 D DECONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DESTUREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DESTURE [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[4] D D-BENDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [6] D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D HEAVY/SEVE [7] D D-HERIDENTIAL, RARK, MEW FIELD [1] D D-MODERATE [D D-MODERATE [[8] D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D HEAVY/SEVE [9] D D-HEAVY D D-MODERATE [1] D D-MODERATE [1] D HEAVY/SEVE [1] D D-MENTING/CONSTRUCTION [0] D D-HEAVY/SEVE D D-MODERATE [1] D HEAVY/SEVE [1] D D-MODERATE [1] D D-MODERATE [1] D HEAVY/SEVE D HEAVY/SEVE [1] D D-MODE AND [1] D D-	Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank). DA: WIDE > 50m.[4]. DD: MODERATE 10-50m.[DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODE	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) 1 B (Per Bank) L R 1 B (Per Bank) 1 D DEREST, SWAMP [3] D DECONSERVATION TILLAGE [1] D DENOLE FIELD [2] D DECONSERVATION TILLAGE [1] D DENOLE FIELD [2] [3] D DESTURE [1] D DECONSERVATION TILLAGE [1] D DEMOLE FIELD [2] D EMOLE FIELD [2] D DEMOLE FIELD [2] D EMOLE FIELD [2]	Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool 1 Curre
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank). DA: WIDE > 50m.[4]. DD: MODERATE 10-50m.[DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODE	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) 1 B (Per Bank) L R 1 B (Per Bank) 1 D DEMEDICEST, SWAMP [3] D DECONSERVATION TILLAGE [1] D DEMEDICEST, SWAMP [3] D DECONSERVATION TILLAGE [1] D DEMODERATE [1] [3] D DEMESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [4] D DEMESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [6] D DEMESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVE [7] D DEMESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D -HEAVY/SEVE [8] D DEMESIDENTIAL, RARK, MEW FIELD [1] D -MINING/CONSTRUCTION [0] [9] D DEMESIDENTIAL, RARK, MEW FIELD [1] D -MODELS & RIFFLESI [1] D DEMESIDENTIAL, PARENCED PASTURE [1] D -MINING/CONSTRUCTION [0] [1] D MERSIDENTIAL [1] D -MODELS & RIFFLESI [1] D MERSIDENTIAL [1] D -MODELS & RIFFLESI [2] D -POOLEWIDTH > RIFFLE WIDTH [1] D -ATASTITAL [Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool 1 Curre
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank). DA: WIDE > 50m.[4]. DD: - MODERATE 10-50m.[2]. DD: - MARROW 5-10 m [2]. DD: - NARROW 5-10 m [2]. DD: - NONE [0]. COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). DD: - 11m.[6]. DD: - 0.7-1m.[4]. DD: - 0.4-0.7m.[2].	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) 1 D. MARDREST, SWAMP [3] D. D-CONSERVATION TILLAGE [1] D. D-NONE/LUTTL [3] D. DHESIDENTIAL, PARK, MEW FIELD [1] D. D-URBAN OR INDUSTRIAL [0] D. D-MODERATE [[4] D. D-RESIDENTIAL, PARK, MEW FIELD [1] D. D-OPEN PASTURE, ROWCROP [0] D. D-MODERATE [[6] D. D-RESIDENTIAL, PARK, MEW FIELD [1] D. D-OPEN PASTURE, ROWCROP [0] D. D-MODERATE [[7] D. D-RESIDENTIAL, PARK, MEW FIELD [1] D. D-OPEN PASTURE, ROWCROP [0] D. HEAVY/SEVEN [8] D. D-RESIDENTIAL, PARK, MEW FIELD [1] D. D-OPEN PASTURE, ROWCROP [0] D. HEAVY/SEVEN [9] D. HEAVY/SEVEN D. D-MINING/CONSTRUCTION [0] D. HEAVY/SEVEN [1] D. HEAVY/SEVEN D. MINING/CONSTRUCTION [0] D. HEAVY/SEVEN [1] D. HEAVY/SEVEN D. MINING/CONSTRUCTION [0] D. HEAVY/SEVEN [1] D. HEAVY/SEVEN D. HEAVY/SEVEN [0] [1] D. HEAVY/SEVEN [1] D. HEAVY/SEVEN [1] D. HEAVY [1] D. HEAVY/SEVEN	Ripariu E [3] [] [] 2] RE[1] ^{Max 1} Pool I Curre [] [] Max 1
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank). DA: WIDE > 50m.[4]. DD: MODERATE 10-50m.[DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODERATE 10-50m. DD: MODE	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Miost Predominant Per Bank) L R 1 B (Per Bank) 1 B (Der Bank) L R 1 B (Per Bank) 13 D DESHRUB OR OLD FIELD [2] D DECONSERVATION TILLAGE [1] D DEMONEALITY [3] D DESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D DEMOVERATE [0] 14] D DEMESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVEN 16[1] D DEMESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D HEAVY/SEVEN 17 MERCHONE VELOCIFY I POOLS & RIFFLESI (Check AB That Apply) D E-EDORES[1] D -TORRENTIAL[-1] 18 POOLLWIDTH = RIFFLE WIDTH [1] D -EDORES[1] D -TORRENTIAL[-1] 19 POOLLWIDTH = RIFFLE WIDTH [1] D -MODERATE [1] D -INDERSTITIAL[-1] 19 POOLLWIDTH = RIFFLE WIDTH [1] D -EDORES[1] D -TORRENTIAL[-1] 19 POOLLWIDTH = RIFFLE WIDTH [1] D -MODERATE [1] D -INTERSTITIAL[-1] 19 POOLLWIDTH = RIFFLE W. [0] D -ROWCREATE [1] D -INTERSTITIAL[-1] 10 POOLLWIDTH	Ripariu E [3] [] 2] RE[1] ^{Max 1} Pool 1 Curre [] Max ¹
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank). DA: WIDE > 50m.[4]. DD: MODERATE 10-50m.[2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. DD: MARROW 5-10 m [2]. COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). SI: > 1m [6]. D: - 0.7-1m [4]. D: - 0.2-0.4m [1]. D: - 0.2m [POOL=0]. RIFFLE DEPTH	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Miost Predominant Per Bank) L R 1 B (Per Bank) 1 B (Per Bank) L R 1 B (Per Bank) [3] D DECONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DESTUREST, SWAMP [3] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[3] D DESTURE [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [4] D DESTURE [1] D D-MODERATE [1] D D-MODERATE [1] [5] D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [6] D D-HEENDED PASTURE [1] D D-MODERATE [1] D D-MODERATE [1] [6] D D-HEAVY/SEVE D D-MODERATE [1] D D-MODERATE [1] [7] D HEENCED PASTURE [1] D D-MONTH PASTURE (NEW ////////////////////////////////////	Ripariu E [3] [] 2] RE[1] ^{Max 1} Pool 1 Curre [] Max ¹
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank) DA: WIDE > 50m [4] DD: MODERATE 10-50m [2] DD: MARROW 5-10 m [2] DD: NARROW 5-10 m [2] DD: NONE [0] COMMENTS: 5. [POOL/GLIDE AND R] <u>MAX. DEPTH</u> (Check 1 ONLYI) DD: - 10m [6] DD: - 0.7-1m [4] DD: - 0.2-0.4m [1] DD: - 0.	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DARK EROSION 1 R (Miost Predominant Per Bank) L R 1 B (Per Bank) 1 B (Der Bank) L R 1 B (Per Bank) 13 D DHSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [14 D DHSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [14 D DHSHRUB OR OLD FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [15 D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE 15 D D-HESIDENTIAL, RARK, MEW FIELD [1] D D-MODERATE [T] D D-MODERATE [T] 16 D HENDED FIAL, RARK, MEW FIELD [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE 16 D HENDED FIAL, RARK, MEW FIELD [1] D D-MODERATE [T] D HEAVY/SEVE 17 MCDRPHOLOGY CURRENT VELOCIFY I POOLS & RIFFLESI (Check AB That Apphy) 16 POOLLWIDTH = RIFFLE WIDTH [2] D -EDDIES[1] D -NORENTIAL[-1] 17 POOLLWIDTH = RIFFLE WIDTH [1] D -MODERATE [1] D -MODERATE [1] 18 POOLLWIDTH = RIFFLE WIDTH [1]	Ripariu E [3] [] (2] RE[1] Max 1 Pool 1 Curre [] (Max 1 Max 1 SS [] (5
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank) DA: WIDE > 50m.[4]. DD: MODERATE 10-50m. DD: MARROW 5-10 m.[2]. DD: MARROW 5-10 m.[2]. COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). DD: MARROW 5-10 m.[2]. DD: 0.2-0.4m.[1]. DD: 0.2-0	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) 1. R (Most Predominant Per Bank) L R 1. B (Per Bank) 1. R (Most Predominant Per Bank) L R 1. B (Per Bank) 1. D DHESDREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D D-NONE/LITTL [3] D DHESDDENTIAL, RARK, MEW FREID [1] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[3] D DHESDDENTIAL, RARK, MEW FREID [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [1] D DHESDDENTIAL, RARK, MEW FREID [1] D D-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [1] D DHESDDENTIAL, RARK, MEW FREID [1] D O-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [1] D DHESDDENTIAL, RARK, MEW FREID [1] D O-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [1] D DHESDDENTIAL, RARK, MEW FREID [1] D O-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [1] D DHESDDENTIAL, RARK, MEW FREID [1] D O-OPEN PASTURE, ROWCROP [0] D D-HEAVY/SEVE [1] D DHESDDENTIAL, PART MERTING, CONSTRUCTION [0] D D-HEAVY/SEVE D D-HEAVY/SEVE [3] D POOLLWIDTH = RIFFLE WIDTH [1] D D-EDDRES[1] D -TORRENTIAL[-1] [4] POOLLWIDTH = RIFFLE WIDTH [1] D -HEAVY/SEVE D -HEAVY/SEVE [5] POOLLWIDTH = RIFFLE WIDTH [1] D -HEAVERAGE NODERATE [1] D -HEA	Ripariu E [3] C 2] RE[1] Max 1 Pool 1 Curre I Curre I Curre I Curre
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank) D. WIDE > 50m [4]. D. MODERATE 10-50m [2]. D. MARROW 5-10 m [2]. D. NARROW 5-10 m [2]. D. NONE [0]. COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). 5. JPOOL/GLIDE AND RI (Check 1 ONLYI). 5. JPOOL/GLIDE AN	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DAIN ECONOMIC 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) 1 D DHERREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D -NONE/LITTL [3] D DHESIDENTIAL, RARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[4] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN RASTURE, ROWCROP [0] D D-HEAVY/SEVE [6] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN RASTURE, ROWCROP [0] D D-HEAVY/SEVE [7] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [8] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [9] D DHERSIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [1] D DHERSIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [1] D HEAVENTY MIDHENTIFIE MIDHENTIFIE D -HEAVY/SEVE [1] D HEAVENTY RIFFLE/RUM FIELD [1] D -HEAVY/SEVE D -HEAVY/SEVE	Ripariu E [3] [] (2] RE[1] Max 1 Pool 1 Curre [] (Max 1 Max 1 SS [] (5
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank) D. WIDE > 50m [4] D. MODERATE 10-50m [2] D. MARROW 5-10 m [2] D. NARROW 5-10 m [2] D. NONE [0] COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLY]) D NIM [6] D 0.7-1m [4] D 0.2-0.4m [1] D 0.2-0.4m [1] D 0.2-0.4m [1] D 0.2-0.4m [1] D 8est Areas >10.cm [B- Best Areas >5.cm [RIFFLE-0]	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DAIN CONSTRUCTION 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) [3] D DHERNEST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D -NONE/LITTL [3] D DHESIDENTIAL, RARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[4] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN RASTURE, ROWCROP [0] D D-HEAVY/SEVE [6] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN RASTURE, ROWCROP [0] D D-HEAVY/SEVE [7] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [8] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [9] D DHERSIDENTIAL, PARKE MIDTH [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [1] D DHERSIDENTIAL, PARKE MIDTH [1] D -HEAVY/SEVE D D-HEAVY/SEVE [1] D HEAVER PROBLEMENT METHOD MET	Ripariu E [3] (3] (3] (3) (3) (4) (4) (4) (5) (4) (5) (5) (6) (7) (
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> 1. R. (Per Bank) D. WIDE > 50m [4]. D. MODERATE 10-50m [2]. D. MARROW 5-10 m [2]. D. NARROW 5-10 m [2]. D. NONE [0]. COMMENTS: 5.]POOL/GLIDE AND RI <u>MAX. DEPTH</u> (Check 1 ONLYI). 5. JPOOL/GLIDE AND RI (Check 1 ONLYI). 5. JPOOL/GLIDE AN	FLOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DAIN ECONOMIC 1 R (Most Predominant Per Bank) L R 1 B (Per Bank) 1 D DHERREST, SWAMP [3] D D-CONSERVATION TILLAGE [1] D -NONE/LITTL [3] D DHESIDENTIAL, RARK, MEW FIELD [2] D D-URBAN OR INDUSTRIAL [0] D D-MODERATE [[4] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN RASTURE, ROWCROP [0] D D-HEAVY/SEVE [6] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-OPEN RASTURE, ROWCROP [0] D D-HEAVY/SEVE [7] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [8] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [9] D DHESIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [9] D DHERSIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [1] D DHERSIDENTIAL, RARK, MEW FIELD [1] D D-MINING/CONSTRUCTION [0] D -HEAVY/SEVE [1] D HEAVENTY MIDHENTIFIE MIDHENTIFIE D -HEAVY/SEVE [1] D HEAVENTY RIFFLE/RUM FIELD [1] D -HEAVY/SEVE D -HEAVY/SEVE	Ripariu E [3] [2] RE[1] Max 1 Pool Curre Max 7 Max 8 Gradi
4]. RIPARIAN ZONE ANI <u>RIPARIAN WIDTH</u> L R (Per Bank) DS: WIDE > 50m [4]. DD: MODERATE 10-50m [2] DD: MODERATE 10-50m [2] DD: MONE [0] COMMENTS: 5.]POOL/GLIDE AND R/ <u>MAX. DEPTH</u> (Check 1 ONLYI) Comments: 5.]POOL/GLIDE AND R/ <u>MAX. DEPTH</u> (Check 1 ONLYI) Comments: 10 - 0.7-1m [4] 10 - 0.2-0.4m [1] 11 - 0.2-0.4m [1] 12 - 0.2-0.4m [1] 13 - 0.2-0.4m [1] 14 - 0.2m [POOL=0] <u>RIFFLE DEPTH</u> Sest Areas >10 cm [14 - Best Areas <5 cm [RIFFLE=0] COMMENTS:	ILOOD PLAIN QUALITY (PAST 100 Meter RIPARIAN) DAMAR AND INTERMINANY 1. R (Most Predominant Per Bank) 1. R 1. B (Per Bank) 1. B (Dependence of the predominant Per Bank) 1. R 1. B (Per Bank) 1. B (Dependence of the predominant Per Bank) 1. R 1. B (Per Bank) 1. B (Dependence of the predominant Per Bank) 1. R 1. B (Per Bank) 1. B (Dependence of the predominant Per Bank) 1. B (Dependence of the predominant Per Bank) 1. D (Dependence of the predominant Per Bank) 1. B (Dependence of the predominant Per Bank) 1. B (Dependence of the predominant Per Bank) 1. B (Per Bank) 1. B (Dependence of the predominant Per Bank) 1. B (Dependence of the predominant Per Bank) 1. D (Dependence of the predominant Per Bank) 1. D DHESIDENTIAL, PARK, MEW FIELD [2] 1. D (Dependence of the predominant Per Bank) 1. D (Dependence of the per P	Ripariu E [3] (3] (3] (3) (3) (4) (4) (4) (5) (4) (5) (5) (6) (7) (
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<u></u>	POOL RIFFLE	N/	L RIFFLE SU	BSTRATE ORIGIN ONE (OR 2 & AVERAGE		ONE (OR 2 & AVERA	
D-BLDR /SLBS[10]		GRAVEL [7]	and the second se	IMESTONE [1] SILT		SILT HEAVY [-2]	
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High Quality Only, Sc	ore 5 or >)	100-3 or Less [0]		SHALE [-1]		-NONE [1]	
OMMENTS				COAL FINES [-2]		UNT: (Check ONLY C	Joe of
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(Structure)	747	XPOOLS> 70 a		OXBOWS, BACKWATER		XTENSIVE > 75% [1	1) [[4]
UNDERCUT BANKS	Contraction of the second s	ROOTWADS		AQUATIC MACROPHYT	and the second	ODERATE 25-75%	
SHALLOWS (IN SLC		BOULDERS [LOGS OR WOODY DEB		PARSE 5-25% [3]	Max 20
ROOTMATS [1]	COMMENTS:_				_ 0-1	EARLY ABSENT < 55	%[1]
3] CHANNEL MOR		Dieck ONLY One	PER Categor	y OR check 2 and A	VERAGE)		Channel
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L R (Per Bank) DD- WIDE > 50m [DD- MODERATE 10- DD - NARROW 5-10 DD - VERY MARROW DD - VERY MARROW DD - NONE [0] COMMENTS: 5.]POOL/GLIDE AM	4] 1) 2 50m [3] 1 1 m [2] 1 1 ν 5 m [1] 1 1 ND RIFFLE/RU	FLOOD (WMost Predominan HEDREST, SWAMP [3] HEHRUB OR OLD FIEL RESIDENTIAL, RARK, IHRENCED PASTURE (PLAIN QUALI 1 Per Bank) D [2] NEW FIELD [1]	L R L R D D-CONSERVATION D D-CURBAN OR INI D D-URBAN OR INI D D-MINING/CONS	RIPARIAN <u>)</u> NTILLAGE [1] DUSTRIAL [0] NE,ROWCROP [STRUCTION [0]	BANK EROSIO	Pool/
L R (Per Bank) DD- WIDE > 50m [DD- MODERATE 10- DD - MARROW 5-10 DD - NARROW 5-10 DD - VERY MARROW DD - NONE [0] COMMENTS: 5.]POOL/GLIDE AM <u>MAX. DEPTH</u>	4] 12 50m [3] 2 1 m [2] 2 1 ν 5 m [1] 1 10 ND RIFFLE/RU	FLOOD (WMost Predominan HEDREST, SWAMP [3] HETHRUB OR OLD FIEL HETHRUB OR OLD FIEL HETHRED CED PASTURE (UPAN QUALITY WORPHOLOGY	PLAIN QUALIT I Per Bank) D [2] NEW FIELD [1] 1]	I' (PAST 100 Meter) L R D D-CONSERVATION D D-CURBAN OR INI D D-URBAN OR INI D D-MINING/CONS CURRENT	RIPARIANI NTILLAGE [1] DUSTRIAL [0] IE,ROWCROP [STRUCTION [0] VELOCITY [BANK EROSIO	Pool/
L R (Per Bank) DD- WIDE > 50m [DD- MODERATE 10- DD - MODERATE 10- DD - NARROW 5-10 DD - VERY MARROW DD - VERY MARROW DD - NONE [0] COMMENTS: 5.]POOL/GLIDE AM <u>MAX. DEPTH</u> (Check 1 ONLY!)	4] 1) 2 50m [3] 0 0 m [2] 0 1 m [2]	FLOOD (WMost Predominan HEDREST, SWAMP [3] HEHRUB OR OLD FIEL ARESIDENTIAL, RARK, IHTENCED PASTURE (UBN QUALITY MCDRPHOLOGY ANDRPHOLOGY ANDR 1 of 2 & AVER	PLAIN QUALIT I Per Bank) D [2] NEW FIELD [1] 1]. YAGE)	TY (PAST 100 Meter) L R D D-CONSERVATION D D-CONSERVATION D D-URBAN OR INI D D-WINING/CONS CURRENT (C	RIPARIANI N TILLAGE [1] DUSTRIAL [0] NE,ROWCROP [STRUCTION [0] VELOCITY [Heck All Tha	BANK EROSIO 1. R (Per Bank) 1. NONE/LIT 1MODERATE 1	Pool/
L R (Per Bank) DD- WIDE > 50m [DD- MODERATE 10- DD- MARROW 5-10 DD- VERY MARROW DD- VERY MARROW DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AM <u>MAX. DEPTH</u> (Check 1 ONLY!) C- >1m [6]	1 1 8 50m [3] 0 0 m [2] 0 9 m	FLOOD (WMost Predominan HEDREST, SWAMP [3] HETHRUB OR OLD FIEL AND OLD ALL FIEL USIN QUALITY MCDRPHOLOGY Audik 1 or 2 & AVEL LIMIDTH > RIFFLE W	PLAIN QUALIT I Per Benk) D [2] NEW FIELD [1] 1]. 2AGE) 19711 [2]	L R L R D CONSERVATION D CONSERVATION D COREN PASTUR D COREN PASTUR D COREN PASTUR CONS CURRENT (C C-EDDHES[1]	RIPARIAN NTILLAGE [1] DUSTRIAL [0] NE,ROWCROP [STRUCTION [0] VELOCITY [heck All Tha D-TOR	BANK EROSIO	Riparis RE [3] 8 [2] 8 VERE[1] ^{Max 1} Pool/ SI] Current
L R (Per Bank) DD-WIDE > 50m [DD-WIDE > 50m [DD-MODERATE 10- DD-MARROW 5-10 DD-NONE [0] COMMENTS: 5.]POOL/GLIDE AN <u>MAX. DEPTH</u> (Check 1 ONLY!) D- 1m [6] D- 0.7-1m [4]	 4] 50m [3] 1 2] 1 5m[1] 1 10 1 5m[1] 1 10 1 5m[1] 1 10 1 0 1 0 1 0 1 0 1 0 1 0 1	FLOOD (WMost Predominan HEDREST, SWAMP [3] HEHRUB OR OLD FIEL ARESIDENTIAL, RARK, IHTENCED PASTURE (UBN QUALITY MCDRPHOLOGY ANDRPHOLOGY ANDR 1 of 2 & AVER	PLAIN QUALIT I Per Benk) D [2] NEW FIELD [1] 1] 2AGE) 19711 [2] 10711 [2]	TY (PAST 100 Meter) L R D D-CONSERVATION D D-CONSERVATION D D-URBAN OR INI D D-WINING/CONS CURRENT (C	RIPARIAN NTILLAGE [1] DUSTRIAL [0] IE,ROWCROP [STRUCTION [0] VELOCITY [heck All Tha D-TOR D-TOR	BANK EROSIO 1. R (Per Bank) 1. NONE/LIT 1MODERATE 1	Pool/
L R (Per Bank) DD-WIDE > 50m [DD-MODERATE 10- DD-MODERATE 10- DD-MONE [0] COMMENTS: 5.]POOL/GLIDE AN <u>MAX. DEPTH</u> (Check 1 ONLY]) D- >1m [6]	 4] 50m [3] 1 2] 1 5m[1] 1 10 1 5m[1] 1 10 1 5m[1] 1 10 1 0 1 0 1 0 1 0 1 0 1 0 1	FLOOD (WMost Predominan HEDREST, SWAMP [3] HETHRUB OR OLD FIEL AND OLD FIEL AND OLD FIEL AND OLD ALTRY MCD RPHOLOGY ADDIX 1 or 2 & AVEL LIMIOTH - RIFFLE W	PLAIN QUALIT I Per Benk) D [2] NEW FIELD [1] 1] 2AGE) 19711 [2] 10711 [2]	I' (PAST 100 Meter) L R D D-CONSERVATION D D-CURBAN OR INI D D-URBAN OR INI D D-URBAN OR INI D D-MINING/CONS CURRENT (C D-EDOIES[1]	RIPARIAN NTILLAGE [1] DUSTRIAL [0] IE,ROWCROP [STRUCTION [0] VELOCITY [heck All Tha D-TOR D-NTI] D'INTI	BANK EROSIO 1. R (Per Bank) 1. NONE/LIT 1. D-MODERATE 1. D-MOD	Riparis RE [3] 8 [2] 8 VERE[1] ^{Max 1} Pool/ SI] Current
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L R (Per Bank) DD- WIDE > 50m [DD- MODERATE 10- DD- MARROW 5-40 DD- NARROW 5-40 DD- VERY MARROW DD- NONE [0] COMMENTS: 5.]POOL/GLIDE AN <u>MAX. DEPTH</u> (Check 1 ONLY!) D- 31m [6] D- 0.7-1m [4] D- 0.2-0.4m [1]	4] 1 2 2 50m [3] 0 0 m [2] 0 9 (-5m[1] 0 10 1 -5m[1] 0 10 1 -2	FLOOD (WMost Predominan HEDREST, SWAMP [3] HETREST,	PLAIN QUALIT I Per Bank) D [2] NEW FIELD [1] 1] 1] 2AGE) NDTH [2] IDTH [1] - (0]	Y (PAST 100 Meter) L R D CONSERVATION D D-CONSERVATION D D-URBAN OR INI D D-URBAN OR INI I D OPEN PASTUR D -EDOHES (1) CURRENT (C D-EDOHES (1) M-MODERATE (1) M-SLOW (1)	RIPARIAN NTILLAGE [1] DUSTRIAL [0] EROWCROP [STRUCTION [0] VELOCITY [heck All Tha D-INTI 1 D-INTI EI-VER	BANK EROSIO 1. R (Per Bank) 1. NONE/LIT 1. D-MODERATE 1. D-MOD	Riparis RE [3] 8 [2] 8 VERE[1] ^{Max 1} Pool/ SI] Current
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River Code: 11	RM: Stream:	FAIL Creek	
Date: 4/24/08	Location: Men		
Scorers Full Name: 12:	GRB Affiliatio		
	ONLY Two SubstrateTYPE BO		
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-BLDR /SLBS110]	00-GRAVEL [7] X	Check ONE (OR 2 & AVERAGE)	Check ONE (OR 2 & AVERAGE)
0 0-BOULDER [9]	0 0-SAND [6] X	I -LIMESTONE [1] SILT:	SILT HEAVY [-2]
DD-COBBLE[B]	DBEDROCK[5]		A-SILI MUDERATE [-1]
0 0-HARDPAN [4]			SILT NORMAL [0]
	NOTE: Ignore Studge Origination	JI-HABORAN JOI	DOED THEYTENSIVE 1.71
	From Point Sources	D-RIP/RAP [0] NESS:	the second state of the se
NUMBER OF SUBSTRATE TE T	YPES: D-4 or More [2]	D -LACUSTRINE [0]	-NORMAL [0]
(High Quality Only, Scarere 5		-SHALE [-1]	-NONE [1]
COMMENTS	•	D-COAL FINES [-2]	
2] INSTREAM COVERRI (f 0 to 3; see back for instructions)	AMOUNT: (Check ONLY One or C
(Structure)	TYPE: Seens All Thek		check 2 and AVERAGE)
UNDERCUT BANKS [[]]]	<u>≻</u> P00L5> 70 cm		
OVERHANGING VEGETEAN		AQUATIC MACROPHYTES [LOGS OR WOODY DEBRIS	1] U-MUDERATE 25-75% [/]
SHALLOWS (IN SLOW VWW ROOTMATS [1] CODM	NTER) [1]BOULDERS [1]	LOGS OK WOODT DEBRIS	- NEARLY ABSENT < 5%[1]
3] CHANNEL MORIPHIOD		R Category OR check 2 and AVER	· · · · · · · · · · · · · · · · · · ·
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	EXCELLENT [7] - NONE [6]	- HIGH [3] - St	AGGING D-IMPOUND.
	GOOD [5] XI - RECOVER		ELOCATION - ISLANDS
	FAIR [3] D - RECOVER		ANOPY REMOVAL D - LEVEED M
g-wane (1) cuid-	POOR [1] D - RECENT (RECOVERY [1]		REDGING D - BANK SHAPING NE SIDE CHANNEL MODIFICATIONS
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RIPARIAN WIDTH L R (Per Bank) D - WIDE > 50m [4]] D - MODERATE 10-SD/Uniti) D - MARROW 5-10 = [2]2] D - VERY NARROW -516 m	FLOOD PLJ L R (Most Predominant P D FOREST, SWAWP [3] [3] D FSHRUB OR OLD FIELD [AIN QUALITY (PAST 100 Meter RIP) er Bank) L R D D-CONSERVATION TI [2] D D-URBAN OR INDUS	ARIAN) L R (Per Bank) LLAGE [1] D B -NONE /LITTLE [3] TRIAL [0] GWCROP [0] D D -HEAVY/SEVERE[1]
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RIPARIAN WIDTH L R (Per Bank) D - WIDE > 50m [4]] D - MODERATE 10-500,000 - MARROW 5-10 = [2]2] D - VERY NARROW -515 m D - VERY NARROW -516 m D - VERY NARW -516 m D - VERY NARROW -516 m D -	FLOOD PL/ L R (Most Predominant P. DFOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD (D D-RESIDENTIAL, PARK, NE [1] D D-FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u>	AIN QUALITY (PAST 100 Meter RIP, er Bank) L R D D CONSERVATION TI [2] D D -URBAN OR INDUS W FIELD [1] D D -OPEN PASTURE,R D D -MINING/CONSTRU	ARIAN) BANK EROSION L R (Per Bank) LLAGE [1] TRIAL [0] OWCROP [0] D D -HEAVY/SEVERE[1] MULDOLITY [POOLS & RIFFLESI]
RIPARIAN WIDTH L R (Per Bank) □ - WIDE > 50m [4]] □ - MODERATE 10-500.mm] □ - NARROW 5-10 = [2]2] □ - VERY NARROW -516 m □ - VERY NARROW -516 m ○ - NONE [0] COMMENTS: 5.]POOOL/GLIDE AND BRR MAX. DEPTH (Check 1 ONLYI)	FLOOD PL/ L R (Most Predominant P. DFOREST, SWAMP [3] [3] DFOREST, SWAMP [3] [3] DFOREST, SWAMP [3] [3] DFOREST, SWAMP [3] [4] DFOREST, SWAMP [3	AIN QUALITY (PAST 100 Meter RIP, er Bank) L R D CONSERVATION TI [2] D T-URBAN OR INDUS W FIELD [1] D D-OPEN PASTURE,R D D-MINING/CONSTRU	ARIAN) L R (Per Bank) LLAGE [1] TRIAL [0] WCROP [0] D D -HEAVY/SEVERE[1] D D -HEAVY/SEVERE[1]
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RIPARIAN WIDTH L R (Per Bank) □ - WIDE: > 50m [4]] □ - MODERATE 10-500,000 □ - NARROW 5-10 = [2]2] □ - VERY NARROW -516 m □ - VERY NARROW -516 m <td>FLOOD PL/ L R (Most Predominant P. DFOREST, SWAMP [3] [3] D-SHRUB OR OLD FIELD D D-RESIDENTIAL, PARK, NE [1] D-FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA T-POOL WIDTH > RIFFLE WID</td> <td>AIN QUALITY (PAST 100 Meter RIP, er Bank) L R D CONSERVATION TI [2] D CURBAN OR INDUS W FIELD [1] D OPEN PASTURE, R D OPEN PASTURE, R D OPEN PASTURE, R D CURRENT VE (Chec TH [2] D -EDDIES[1] TH²[1] THCTAST(1) [0] Z -MODERATE [1]</td> <td>ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) Ri LLAGE [1] D.BNONE/LITTLE [3] Ri TRIAL [0] D.BNODERATE [2] Ri OWCROP [0] D.BHEAVY/SEVERE[1] Ri JCTION [0] DHEAVY/SEVERE[1] Ri LOCITY [POOLS & RIFFLESI] Ri K Ail That Apply) D-TORRENTIAL[-1] Ri THERESTITIAL[-1] Ri</td>	FLOOD PL/ L R (Most Predominant P. DFOREST, SWAMP [3] [3] D-SHRUB OR OLD FIELD D D-RESIDENTIAL, PARK, NE [1] D-FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA T-POOL WIDTH > RIFFLE WID	AIN QUALITY (PAST 100 Meter RIP, er Bank) L R D CONSERVATION TI [2] D CURBAN OR INDUS W FIELD [1] D OPEN PASTURE, R D OPEN PASTURE, R D OPEN PASTURE, R D CURRENT VE (Chec TH [2] D -EDDIES[1] TH ² [1] THCTAST(1) [0] Z -MODERATE [1]	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) Ri LLAGE [1] D.BNONE/LITTLE [3] Ri TRIAL [0] D.BNODERATE [2] Ri OWCROP [0] D.BHEAVY/SEVERE[1] Ri JCTION [0] DHEAVY/SEVERE[1] Ri LOCITY [POOLS & RIFFLESI] Ri K Ail That Apply) D-TORRENTIAL[-1] Ri THERESTITIAL[-1] Ri
RIPARIAN WIDTH L R (Per Bank) □ - WIDE -> 50m [4]] □ - MODERATE 10-5000mm □ - NARROW 5-10 = [2]2] □ - VERY NARROW -516 m [2] □ - VERY NARROW -516 m [1]	FLOOD PL/ L R (Most Predominant P. D FOREST, SWAMP [3] [3] D SHRUB OR OLD FIELD [3] D RESIDENTIAL, PARK, NE [1] D FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE W.	AIN QUALITY (PAST 100 Meter RIP) er Bank) L R D CONSERVATION TI [2] D C-URBAN OR INDUS W FIELD [1] D D -OPEN PASTURE, R D D -MINING/CONSTRU- GE) (Chec TH [2] D -EDDIES[1] TH [1] TH FIST (1)	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] B. NONE/LITTLE [3] TRIAL [0] D B. NONE/LITTLE [3] OWCROP [0] D -MODERATE [2] JCTION [0] D -HEAVY/SEVERE[1] LOCITY [POOLS & RIFFLES1] C x All That Apply) -TORRENTIAL[-1] T_ WRTENSTITIAL[-1]
RIPARIAN WIDTH L R (Per Bank) □ - WIDE > 50m [4]] □ - MODERATE 10-500/0701 □ - NARROW 5-10 = [2]2] □ - VERY NARROW -516 m □ - VERY NARROW -516 m ○ - COMMENTS:	FLOOD PL/ L R (Most Predominant P. D FOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD D D-RESIDENTIAL, PARK, NE [1] D D-FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA POOL WIDTH > RIFFLE WID "2 9455	AIN QUALITY (PAST 100 Meter RIP, er Bank) L R D CONSERVATION TI [2] D CURBAN OR INDUS W FIELD [1] D OPEN PASTURE, R D OPEN PASTURE, R D OPEN PASTURE, R D CURRENT VE (Chec TH [2] D -EDDIES[1] TH ² [1] THCTAST(1) [0] Z -MODERATE [1]	ARIAN) BANK EROSION L R (Per Bank) LLAGE [1] DE -NONE/LITTLE [3] TRIAL [0] D -MODERATE [2] OWCROP [0] D -HEAVY/SEVERE[1] ^M JCTION [0] LOCITY [POOLS & RIFFLESI] C * All That Apply) D -TORRENTIAL[-1] T_1NTERMITIENT[-2]
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RIPARIAN WIDTHL R (Per Bank)D • WIDE \rightarrow 50m [4]]D • MARROW 5-10 = [2]2]D • VERY NARROW -5:16 mD • OOL/GLIDE AND -5:16 mD • OOL/GLIDE AND -5:16 mC • MAX. DEPTH(Check 1 ONLY1)D • 0.7-1m [4]D • 0.7-1m [4]D • 0.2-0.4 m [1]D • 0.2-0.4 m [1]D • 0.2-0.4 m [1]	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD [3] D G-RESIDENTIAL, PARK, NE [1] D G	AIN QUALITY (PAST 100 Meter RIP) er Bank) L R D CONSERVATION TI [2] D C-URBAN OR INDUS W FIELD [1] D C-OPEN PASTURE,R D -MINING/CONSTRU- GE) (Chec TH [2] C-EDDIES[1] TH ² [1], TH ² HX37(1), [0] A -MODERATE [1] T-SLOW [1] K ONE OR CHECK 2 AND AVER.	ARIAN) BANK EROSION L R (Per Bank) LLAGE [1] D. BNONE/LITTLE [3] TRIAL [0] D. BNONE/LITTLE [3] OWCROP [0] D. BHEAVY/SEVERE[1] OWCROP [0] D. BHEAVY/SEVERE[1] D. BHEAVY/SEVER[1] D. BHEAVY/
RIPARIAN WIDTH L R (Per Bank) D - WIDE \rightarrow 50m [4]] D - MODERATE 10-5000mm D - MARROW 5-10 = [2]2] D - VERY NARROW -516 = [2]2] D - 0.2-104 [1] D - 0.2-0.4m [1] D - 0.2-0.4m [1] D - 0.2-0.4m [1] RIFFLE DEPTH	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D SHRUB OR OLD FIELD [3] D RESIDENTIAL, PARK, NE [1] D FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA COMMENTS: <u>CHECH</u>	AIN QUALITY (PAST 100 Meter RIP) er Bank) L R D CONSERVATION TI [2] D C-URBAN OR INDUS W FIELD [1] D C-OPEN PASTURE,R D -MINING/CONSTRU- GE) (Chec TH [2] C-EDDIES[1] TH [2] C-EDDI	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] D. A.NONE/LITTLE [3] TRIAL [0] D. A.NODERATE [2] OWCROP [0] DHEAVY/SEVERE[1] ^M JCTION [0] LOCITY [POOLS & RIFFLESI] COUNTY [POOLS & RIFFLESI] AGE RIFFLE/RUN: EMBEDDEDNESS
RIPARIAN WIDTHL R (Per Bank)D • WIDE \rightarrow 50m [4]]D • MARROW 5-10 = [2]2]D • VERY NARROW -5:16 mD • OOL/GLIDE AND -5:16 mD • OOL/GLIDE AND -5:16 mC • MAX. DEPTH(Check 1 ONLY1)D • 0.7-1m [4]D • 0.7-1m [4]D • 0.2-0.4 m [1]D • 0.2-0.4 m [1]D • 0.2-0.4 m [1]	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D SHRUB OR OLD FIELD 1 D GRESIDENTIAL, PARK, NE [1] D GRESID	AIN QUALITY (PAST 100 Meter RIP. er Bank) L R D CONSERVATION TI [2] D C-URBAN OR INDUS W FIELD [1] D C-OPEN PASTURE,R D -MINING/CONSTRU- GE) (Chec TH [2] C-EDDIES[1] TH [2] C-EDD	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] D. ANORE/LITTLE [3] TRIAL [0] D. ANOPERATE [2] OWCROP [0] DHEAVY/SEVERE[1] OWCROP [0] DHEAVY/SEVERE[1] LOCITY [POOLS & RIFFLESI] C AGE -TORRENTIAL[-1] D-INTERMITENT[-2] -INTERMITENT[-2] I -VERY FAST[1] F AGE F RIFFLE/RUN: EMBEDDEDNESS F
RIPARIAN WIDTH L R (Per Bank) □ - WIDE -> 50m [4]] □ - MODERATE 10-5000mm □ - MARROW 5-10 = [2]2] □ - VERY NARROW -516 m □ - OLCOL/GLIDE AND 52R <u>MAX. DEPTH</u> (Check 1 ONLY1) □ - 0.2 - 0.4 m [4] □ - 0.2 - 0.4 m [1]	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD [3] D C-RESIDENTIAL, PARK, NE [4] D -FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE WID POOL WIDTH + RIFFLE W. COMMENTS: <u>CHEC</u> <u>RUN DEPTH</u> n [2] C - MAX > 50 [2] m[1] D - MAX < 50[1]	AIN QUALITY (PAST 100 Meter RIP) er Bank) L R D CONSERVATION TI [2] D C-URBAN OR INDUS W FIELD [1] D C-OPEN PASTURE,R D -MINING/CONSTRU- GE) (Chec TH [2] C-EDDIES[1] TH [2] C-EDDI	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] D. ANORE/LITTLE [3] TRIAL [0] D. ANOPERATE [2] OWCROP [0] DHEAVY/SEVERE[1] ^M JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] DHEAVY/SEVERE[1] ^M JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] D -HEAVY/SEVERE[1] D-HEAVY/SEVERE[1] D-TORRENTIAL[-1] D-INTERMITENT[-2] D-INTERMITENT[-2] D-VERY FAST[1] AGE RIFFLE/RUN: EMBEDDEDNESS KT [Z] D - NONE [Z] avel) [1] D - LOW [1]
RIPARIAN WIDTH L R (Per Bank) D - WIDE -> 50m [4]] D - MODERATE 10-5000min D - MARROW 5-10 = [2]2] D - VERY NARROW 5-10 = [2]2] S.]POOL/GLIDE ANDE 5RR MAX. DEPTH (Check 1 ONLY1) D - SITT [6] D - 0.7-1m [4] D - 0.2-0.4m [1] D - 0.2m [POOL=0]]	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD [3] D C-RESIDENTIAL, PARK, NE [4] D -FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE WID POOL WIDTH + RIFFLE W. COMMENTS: <u>CHEC</u> <u>RUN DEPTH</u> n [2] C - MAX > 50 [2] m[1] D - MAX < 50[1]	AIN QUALITY (PAST 100 Meter RIP. er Bank) L R D D CONSERVATION TI [2] D D -URBAN OR INDUS W FIELD [1] D D -OPEN PASTURE,R D -MINING/CONSTRU- GE) (Chec TH [2] D -EDDIES[1] TH [2] D -EDDIES[1]	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] D. ANORE/LITTLE [3] TRIAL [0] D. ANOPERATE [2] OWCROP [0] DHEAVY/SEVERE[1] ^M JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] DHEAVY/SEVERE[1] ^M JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] D -HEAVY/SEVERE[1] D-HEAVY/SEVERE[1] D-TORRENTIAL[-1] D-INTERMITENT[-2] D-INTERMITENT[-2] D-VERY FAST[1] AGE RIFFLE/RUN: EMBEDDEDNESS KT [Z] D - NONE [Z] avel) [1] D - LOW [1]
RIPARIAN WIDTH L R (Per Bank) D - WIDE -> 50m [4]] D - MODERATE 10-5000min D - MARROW 5-10 = [2]2] D - VERY NARROW -516 m G. POOL/GLIDE ANDE BRR MAX. DEPTH (Check 1 ONLY1) D - VERY NARROW -516 m D - 0.7-1m [4] D - 0.7-1m [4] D - 0.2-0.4m [1] D - 0.2-0.4m [1] D - 0.2-0.4m [1] D - 0.2-0.4m [2] Best Areass >10 kentin D Best Areass > 10 kentin D Best Areass < 5 cntum	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD [3] D C-RESIDENTIAL, PARK, NE [4] D -FENCED PASTURE [1] FFLE/RUN QUALITY <u>MORPHOLOGY</u> (Check 1 or 2 & AVERA (Check 1 or 2 & AVERA POOL WIDTH > RIFFLE WID POOL WIDTH > RIFFLE WID POOL WIDTH + RIFFLE W. COMMENTS: <u>CHEC</u> <u>RUN DEPTH</u> n [2] C - MAX > 50 [2] m[1] D - MAX < 50[1]	AIN QUALITY (PAST 100 Meter RIP. er Bank) L R D D-URBAN OR INDUS W FIELD [1] D D-OPEN PASTURE,R D D-MINING/CONSTRU- GE) (Chec TH [2] D-MINING/CONSTRU- GE) (Chec TH [2] D-EDDIES[1] TH/[1] D-FXST(1] [0] A-MODERATE [1] V-SLOW [1] K ONE OR CHECK 2 AND AVER. <u>RIFFLE/RUN SUBSTRATE</u> D-STABLE (e.g.,Cobble, Boulde AMOD. STABLE (e.g.,Large Gra- D-UNSTABLE (Fine Gravel, Sand	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] B. HEAVY/SEVERE [2] OWCROP [0] I - HEAVY/SEVERE [1] OWCROP [0] I - HEAVY/SEVERE [1] JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] I - HEAVY/SEVERE [1] JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] I That Apply) I - TORRENTIAL[-1] TJ INTERMITENT[-2] I - INTERMITENT[-2] I - VERY FAST[1]
RIPARIAN WIDTH L R (Per Bank) □ - WIDE > 50m [4]] □ - MODERATE 10-500(mm) □ - MARROW 5-10 = [2]2] □ - VERY NARROW -516 m ○ - 0.4 m [1] □ - 0.2 m [POOL=0]] RIFFLE DEPTH ▲ - Best Areass >10 kenroin □ - Best Areass > 5 concum I - Best Areass < 5 concum	FLOOD PL/ L R (Most Predominant P) D FOREST, SWAMP [3] [3] D D-SHRUB OR OLD FIELD D G-RESIDENTIAL, PARK, NE [1] D G-RESIDENTIAL, PARK, NE [1] MORPHOLOGY (Check 1 or 2 & AVERA MORPHOLOGY (Check 1 or 2 & AVERA COMMENTS: COMMENTS: CHECK RUN DEPTH fi [2] G MAX > 50 [2] m[1] D - MAX < 50[1]	AIN QUALITY (PAST 100 Meter RIP. er Bank) L R D D-URBAN OR INDUS W FIELD [1] D D-OPEN PASTURE,R D D-MINING/CONSTRU- GE) (Chec TH [2] D-EDDIES[1] TH [2] D-EDDIES[1] TH [1] M-FAST[1] [0] M-MODERATE [1] V-SLOW [1] R ONE OR CHECK 2 AND AVER. RIFFLE/RUN SUBSTRATE D-STABLE (e.g., Cobble, Boulde CMOD. STABLE (Fine Gravel, Sand D-NO	ARIAN) BANK EROSION Ri L R (Per Bank) L R (Per Bank) LLAGE [1] BNONE/LITTLE [3] TRIAL [0] D. HEAVY/SEVERE[1] OWCROP [0] DHEAVY/SEVERE[1] JCTION [0] LOCITY [POOLS & RIFFLESI] OWCROP [0] DHEAVY/SEVERE[1] LOCITY [POOLS & RIFFLESI] C JCTION [0] DHEAVY/SEVERE[1] LOCITY [POOLS & RIFFLESI] C JCTION [0] DHEAVY/SEVERE[1] LOCITY [POOLS & RIFFLESI] C JCTION [0] DHEAVY/SEVERE[1] LOCITY [POOLS & RIFFLESI] C MAGE RIFFLE/RUN: EMBEDDEDMESS RIFFLE/RUN: EMBEDDEDMESS F AGE F RIFFLE/RUN: EMBEDDEDMESS F avel) [1] D. LOW [1] D. [0] D. MODERATE [0] D. COTRENSIVE [-1] RIFFLE [Metric=0]

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