Field Crew:		Site Code:					
Sampling Date (DD/MM/YYYY):							
☐ Occupation	al Health & Sa	afety: Site Inspection Sheet completed (see page 6)					
PRIMARY SITE	DATA						
CABIN Study Name:Local Basin Name:							
River/Stream Name	:	Stream Order: (map scale 1:50,000)					
Select one: Test	Site Poten	ntial Reference Site					
Geographical D	escription/No	otes:					
Surrounding Land U	Jse: (check those	e present) Information Source:					
☐ Forest ☐	Field/Pasture	☐ Agriculture ☐ Residential/Urban					
☐ Logging ☐	Mining	☐ Commercial/Industrial ☐ Other					
Dominant Surroundi	ing Land Use: (ch	heck one) Information Source:					
	-	☐ Agriculture ☐ Residential/Urban					
		☐ Commercial/Industrial ☐ Other					
_ocation Data							
	N Longitu	tude:W (DMS or DD)					
Elevation:	_(fasl <i>or</i> masl)	GPS Datum: GRS80 (NAD83/WGS84) Other:					
Site Location M	an Drawing						
Site Location w	ap brawing						
Note: Indicate north							



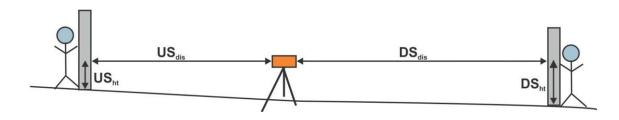
Field Crew:	Site Code:					
Sampling Date (DD/MM/YYYY):						
Photos						
☐ Field Sheet ☐ Upstream ☐ Downstre☐ Substrate (exposed) ☐ Substrate (aquation						
	,					
REACH DATA (represents 6 times bankfull width)						
Habitat Types: (check those present)						
☐ Riffle ☐ Rapids ☐ Straight run	☐ Pool/Back Eddy					
2. Canopy Coverage: (stand in middle of stream and loc 0 %	ok up, check one) □ 51-75 % □ 76-100 %					
3. Macrophyte Coverage: (not algae or moss, check on 0 %	e)					
4. Streamside Vegetation: (<i>check those present</i>) ☐ ferns/grasses ☐ shrubs ☐ dec	ciduous trees					
5. Dominant Streamside Vegetation: <i>(check one)</i>						
☐ ferns/grasses ☐ shrubs ☐ ded	ciduous trees					
6. Periphyton Coverage on Substrate: (benthic algae, n	ot moss, check one)					
☐ 1 - Thin layer, no obvious colour (< 0.5 mm	n thick)					
☐ 2 - Yellow-brown to light green colour (0.5-	1 mm thick)					
☐ 3 - Patches of thicker green to brown algae	e (1-5 mm thick)					
☐ 4 - Numerous large clumps of green to dark brown algae (5-20 mm thick)						
5 - Rocks are mostly obscured by algal mat, extensive green, brown to black algal mass may have long strands (> 20 mm thick)						
Note: 1 through 5 represent categories entered into the Ca	ABIN database.					
BENTHIC MACROINVERTEBRATE DATA						
Habitat sampled (check one): \square riffle \square rapids \square	straight run					
400 μm mesh Kick Net *	Preservative used:					
Person sampling	Sampled sieved on site using the					
Sampling time (i.e. 3 min.)	"Bucket Swirling Method":					
No. of sample jars	<u>_</u>					
Typical depth in kick area (cm)	If YES, debris collected for QA/QC \Box					



^{*} Note: Indicate if a sampling method other than the recommended 400 µm mesh kick net is used.

Field Crow	Sita Cada:
Field Crew:	
Sampling Date (DD/MM/YYYY):	
WATER CHEMISTRY DATA Time: (24 hr clock	k) Time zone:
Air Temp:(°C) Water Temp:(°C)	pH:
Specific Conductance:(µs/cm) DO:(mg/	L) Turbidity:(NTU)
Check if water samples were collected for the following analyses: TSS (Total Suspended Solids) Nitrogen (i.e. Total, Nitrate, Nitrite, Dissolved, and/or Ammonia) Phosphorus (Total, Ortho, and/or Dissolved)	
☐ Major Ions (i.e. Alkalinity, Hardness, Chloride, and/or Sulphate)	☐ Other
Note: Determining alkalinity is recommended, as are other analyses, but not re	quired for CABIN assessments.
CHANNEL DATA	
Slope - Indicate how slope was measured: (check one)	
Calculated from map Scale: (Note: small scale map recommended if field m contour interval (vertical distance) (m), distance between contour intervals (horizontal distance) slope = vertical distance/horizontal distance =	(m)
OR	_
☐ Measured in field	
Circle device used and fill out table according to device: a. Survey Equipment b. Hand Level & Measuring Tape	com/D/C) Coloulation

Measurements Upstream (U/S) Downstream(D/S) Calculation ^aTop Hairline (T) ^aMid Hairline (ht) OR ^bHeight of rod ^aBottom Hairline (B) ^bDistance (dis) OR USdis+DSdis= ^aT-B x 100 $aUS_{dis} = T - B$ aDSdis=T-B DSht-USht= Change in height (Δht) Slope (Δht/total dis)





Field Crew:				Site Co	ode:			
Sampling Date (DD/MM/YYYY)			oue					
Widths and Depth								
Location at site:		(Inc	licate wher	e in sample	e reach, ex	. d/s of kic	k area)	
A - Bankfull Width: (n	Bankfull Width: (m) B				s - Wetted Stream Width: (r			
C - Bankfull–Wetted Depth (height fr	om water sur	face to Bar	ıkfull):			(cm)		
Note: Wetted widths > 5 m, measure a minimu Wetted widths < 5 m, measure 3-4 equid			ns.					
Velocity and Depth Check appropriate velocity measuring shore and depth are required regard			appropriate	e section in	chart belo	w. Distanc	e from	
☐ Velocity Head Rod (or ruler): ∨			√ [2(∆D/10	00) * 9.81]				
☐ Rotary meters: Gurley/Price/Mir	i-Price/Prope	eller (Refer t	o specific m	eter convers	sion chart fo	r calculatior	1)	
☐ Direct velocity measurements:	☐ Marsh-Mc	Birney □ S	ontek or □	Other				
	1	2	3	4	5	6	AVG	
Distance from Shore (m)								

							41/6
	1	2	3	4	5	6	AVG
Distance from Shore (m)							
Depth (D) (cm)							
Velocity Head Rod (ruler)							
Flowing water Depth (D ₁) (cm)							
Depth of Stagnation (D ₂) (cm)							
Change in depth (△D=D₂-D ₁) (cm)							
Rotary meter							
Revolutions							
Time (minimum 40 seconds)							
Direct Measurement or calculation							
Velocity (V) (m/s)							



Field Crew:	Site Code:
Sampling Date (DD/MM/YYYY):	

SUBSTRATE DATA

1. 100 Pebble Count & Substrate Embeddedness

- Measure the intermediate axis (100 rocks) and embeddedness (10 rocks) of substrate in the stream bed.
- Indicate B for bedrock, S for sand/silt/clay (particles < 0.2 cm) and O for organic material.
- Embededness categories (E):
 Completely embedded = 1
 75% embedded = ¾
 50% embedded = ½
 25% embedded = ¼
 Unembedded = 0

2. Surrounding/Interstitial Material

Circle the substrate size category for the surrounding material.

Substrate Size Class	Category
Organic Cover	0
< 0.1 cm (fine sand, silt or clay)	1
0.1-0.2 cm (coarse sand)	2
0.2-1.6 cm (gravel)	3
1.6-3.2 cm (small pebble)	4
3.2-6.4 cm (large pebble)	5
6.4-12.8 cm (small cobble)	6
12.8-25.6 cm (cobble)	7
> 25.6 cm (boulder)	8
Bedrock	9

Diameter (cm) E	Diameter (cm)	E	Diameter (cm)	Ξ		Diameter (cm)	E
1	26		51			76		
2	27		52			77		
3	28		53			78		
4	29		54			79		
5	30		55			80		
6	31		56			81		
7	32		57			82		
8	33		58			83		
9	34		59			84		
10	35		60			85		
11	36		61			86		
12	37		62			87		
13	38		63			88		
14	39		64			89		
15	40		65			90		
16	41		66			91		
17	42		67			92		
18	43		68			93		
19	44		69			94		
20	45		70			95		
21	46		71			96		
22	47		72			97		
23	48		73			98		
24	49		74			99		
25	50		75			100		

Note: The Wolman D50 (i.e. median diameter), Wolman Dg (i.e. geometric mean diameter) and the % composition of the substrate classes will be calculated automatically in the CABIN database using the 100 pebble data. All 100 pebbles must be measured in order for the CABIN database tool to perform substrate calculations.





Field Crew:Sampling Date (DD/MM/YYYY):	Site Code:
SITE INS	SPECTION
Site Inspected by:	
Communication Information	
☐ Itinerary left with contact person (include contact nur	nbers)
Contact Person:	Time checked-in:
Form of communication: ☐ radio ☐ cell ☐ satellite ☐] hotel/pay phone □ SPOT
Phone number: ()	
Vehicle Safety	
☐ Safety equipment (first aid, fire extinguisher, blanket	, emergency kit in vehicle)
☐ Equipment and chemicals safely secured for transpo	rt
\square Vehicle parked in safe location; pylons, hazard light,	reflective vests if necessary
Notes:	
Shore & Wading Safety	
☐ Wading Task Hazard Analysis read by all field staff	
☐ Wading Safe Work Procedures read by all field staff	
☐ Instream hazards identified (i.e. log jams, deep pools	s, slippery rocks)
□ PFD worn	
☐ Appropriate footwear, waders, wading belt	
☐ Belay used	
Notes:	CARIN Field Sheet Anril 202

CABIN Field Sheet April 2023



