

Maine Volunteer River Monitoring Program (VRMP) Appendix F

Site Location Form

Program-Wide SAP Appendix

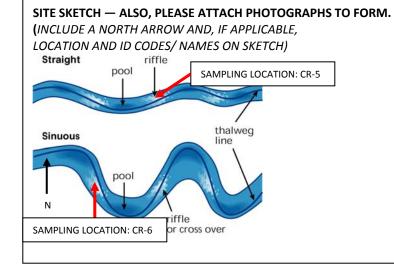
From:



Volunteer River Monitoring Program SITE DESCRIPTION FORM



STATION ID #:						SITE NAME:					
STREAM/RIVER NAME:					DAT	DATE:					
TOWN:					UTIV	UTM NORTHING:				MAKE/MODEL:	
VRMP Use Only STATUTORY STREAM CLASSIFICATION						UTM EASTING:		<u>0</u> NAD83 or WGS84		ESTIMATED GPS ACCURACY:	
POLLUTION ISSUES:											
RIPARIAN DISTURBANCE:		YES / NO			If YES, describe:						
CANOPY COVER:		0 – 20%		20	- 40%	40	40 – 60%		-80%		80 – 100%
CHANNEL WIDTH : (estimated or measured)		circle: (feet / meter			: MID	*AVOID IF SAFETY IS AN ISSUE * MID-CHANNEL DEPTH: (estimated or measured)			circle: (feet / meters)		
DOMINANT/ PRIMARY STREAM BOTTOM HABITAT TYPE:		FINES		SAND	BOULDER		GRAVEL		COBBLE		BEDROCK/LEDGE
SECONDARY STREAM BOTTOM HABITAT TYPE:		FINES	SAND		BOULDER		GRAVEL		COBBLE		BEDROCK/LEDGE
DOMINANT RIPARIAN VEGETATION:		WETLAND VEGETATION (e.g. CATTAILS)		GRASS	SHR (ALD DOGWOO	ERS,	MIXED SUCCESSIONAL		MATURE TREES		FERNS
POSITION SAMPLE TO BE COLLECTED	HORIZONTAL:	MIDDLE	MIDDLE THALWEG		EDGE, NEAR OUTSIDE OF RIVER BEND		DOCK		EDGE OF CONSTRICTED AREA		FROM A BRIDGE
(Refer to Table 1 on Page 2 for guidance) VERTICAL:		MID-DEPTH OF WATER			> HALF-	> HALF-ARM'S LENGTH DEPTH INTO WATER (~ 1 ½ FEET)			DEPTH PROFILE (1-m increments)		
IS THE SAMPLING LOCATION IN THE "CENTER OF FLOW" AS DESCRIBED IN TABLE 1 ON THE PAGE 2? YES NO											



INCLUDE HABITAT TYPES NEAR YOUR SITE. THIS INCLUDES RIFFLES, RUNS, POOLS, CASCADES, AND DEADWATER.

SITE LOCATION MONITORING LOCATION AND SITE SKETCH

TABLE 1: Required river/stream sampling and monitoring locations for inclusion in the VRMP

Lateral Position Across a River/Stream

- → Sampling/monitoring needs to occur in the "center half of flow" so that a flowing, well-mixed, representative sample is collected. The center half of flow is usually close to the middle of the channel, though it sometimes can move away from the middle of the channel, following the thalweg towards the outside of a river-bend.
- → Samplers need to avoid shore-related features such as:
- eddies • deadwaters shallows
 - jetties
- pools (even though parts of the thalweg may pass

through them) • docks (unless they are within the center half of flow).

- → To reach the "center half of flow", volunteers can use a variety of techniques including:
- wading out by foot
- reaching out
- using an extension pole using a boat
- sampling from a bridge/culvert using a VRMP-approved water sampling device

Vertical Position in a River/Stream

(In all cases, avoid allowing water surface films or "stirred-up bottom sediments" into the sample.

Always face upstream when sampling.)

(For Tier 1 Dissolved Oxygen & Temperature)

- → For rivers/streams < 3 m in depth, sample at mid-depth.
- \rightarrow For rivers/streams \geq 3 m in depth, sample at 1-m increments to obtain a vertical profile.

(For Tier 2 Dissolved Oxygen & Temperature as well as any Other Water Quality Parameters)

- → For rivers/streams that are non-wadeable, sample at mid-depth (if depth is known) or 1-meter below the surface.
- → For rivers/streams that are wadeable, sample at mid-depth or 1 ½ feet below the surface. (Volunteers will specify which depth on their data sheet.)

Longitudinal Position in a River/Stream

(when near crossing such as a bridge or culvert)

- → To avoid the possible effects of roads, bridges, or scour pools on water quality, the preferred location to sample is at the upstream end of a bridge or culvert crossing (as opposed to the downstream end) unless:
 - (1) it is safer to sample at the downstream end;
 - (2) the purpose of sampling at the downstream end of the crossing is to include any effects of the crossing on water quality.
- → Be sure to document where the sampling takes place with respect to a crossing.

Impoundments

→ Sample as close as possible* to the deepest "hole" (depth) of the impoundment – generally in the vicinity of the upstream side of the dam. Bathymetry maps or sonar equipment can be used to determine river depths. *(Do not risk your safety! Do not get too close to the dam! Do not go into "roped-off" sections of the impoundment.)

¹ See VRMP's QAPP's section 5.2 and Appendix 2 (Standard Operating Procedure - Methods for Collecting Water Grab Samples) for details regarding VRMP-approved water sampling devices.

SITE LOCATION DESCRIPTION — (*Include landowner information, directions to the site, surrounding land use, and landmarks*)