

Centre County Senior Environmental Corps

Water Monitoring Site Physical & Chemical Data Recording Sheet

SITE ID#	LATITUDE:	LONGITUDE:
STREAM CODE:	RIVER MILE INDEX:	
SITE NAME & DESCRIPTION:		
DATE:	TIME:	RECORDER:
MONITOR:	MONITOR:	
MONITOR:	MONITOR:	
MONITOR:	MONITOR:	

PRECIPITATION – Choose one for past 24 hrs. and one for current weather	
Past 24 hrs	Current
Storm	Storm
Rain	Rain
Showers	Showers
Overcast	Overcast
Clear	Clear
WATER APPEARANCE – choose at least one	
Clear	Foamy
Orange/Red	Milky/White
Dark Brown	Muddy/Cloudy
Green	Multi-Colored
Other	Non-Wadable Stream
WATER ODORS – choose at least one	
Chlorine	Fishy
Sulfur	Sewage
Musty	Earthy
Moldy	Spicy
Other	No Unusual Smells
Non-Wadable Stream	
ICE/SNOW Info	
Ice Coverage, if any in %	
Snow Depth, if any in inches	

SOIL ODORS – in stream bed at test site – choose at least one			
	Chlorine		Fishy
	Sulfur		Sewage
	Musty		Earthy
	Moldy		Spicy
	Other		No Unusual Smells
Non-Wadable Stream			
SEDIMENT DEPOSITS – choose at least one			
	Sludge		Paper Fiber
	Saw Dust		Sand
	Other		No Unusual Sediments
Non-Wadable Stream			
STREAM TYPE – look upstream and downstream			
() Estimate?			
	Straight		Channelized
	Meandering/Curving		Pool/Riffle
	Braided		Dams
			High Water Mark (mtrs)
STREAM BANK CROSS SECTION		STREAM BANK EROSION	
	V-Shaped		No Sign of Erosion
	U-Shaped		Occasional Erosion
	Rectangular		Extensive Erosion
	Banks Undercut		Artificial Stabilization

Notes:

STREAM BOTTOM – at least one entry inorganic and organic together must total 100%				AVERAGE STREAM WIDTH – in meters – multiply feet x 0.3048 to get meters			
Inorganic Est. by %	%	Organic Est. by %	%	Non-Wadable			
Bedrock (solid)		Muck-Mud		Sample #1	+ S. #2	+ S. #3	
Boulder >25 cm		Pulpy Peat		+ S. #4	+ S. #5		
Cobble 6.25 cm – 25 cm		Fibrous Peat		Equals	÷ 5 =	Avg. Width	
Gravel 0.25 cm – 6.25 cm		Detritis		AVERAGE STREAM Depth – in meters– multiply inches x 2.54 for cm, then ÷ by 100 to get meters			
Sand up to .25 cm		Logs, Limbs		Non-Wadable Stream			
Silt Soft Fine Sand		Marl (gray, shell frag.)		Sample #1	+ S. #2	+ S. #3	
Clay Sticky Fine Sand		Other		+ S. #4	+ S. #5		
Other		Non-Wadable Stream		Equals	÷ 5 =	Avg. Depth	
TOTAL – Must equal 100%				SURFACE VELOCITY – run test 5 times at each of the 5 intervals			
PREDOMINANT SURROUNDING LAND USE est. by % - at least one entry required				Trial #1:	mtrs ÷	time (sec) =	mps
	%		%	Trial #2:	mtrs ÷	time (sec) =	mps
Wetlands		Commercial		Trial #3:	mtrs ÷	time (sec) =	mps
Forest		Industrial		Trial #4:	mtrs ÷	time (sec) =	mps
Cropland		Unused/Abandoned		Trial #5:	mtrs ÷	time (sec) =	mps
Pasture		Overgrown shrubs/sm. tree		TOTAL =	÷ 5 =	meters/sec.	
Residential		Other		STREAM FLOW VOLUME – w x d x v x k = cms (k= 0.8 rubble/gravel or 0.9 sand/mud/silt or bedrock)			
TOTAL – Must equal 100%				W x	D x	V x	k =
TEMPERATURE (°C)	Air:	Dupl:		Water:	Dupl:	Avg Air	Avg Wtr
CHEMICALS – every 6 monitoring visits take a field duplicate – question results beyond the norm							
TEST *indicates Colorimeter only	Healthy Water Range *indicates Colorimeter	Test Range Hach/Oakton Range YSI, Hanna for DO	Results Hach/ Oakton/ ISFET	Dupl.	Cal. Std./ DO Results YSI or Hanna	Test Range *Colorimeter Range	*Colorimeter Results
pH	6 – 9	0 – 14	Oakton or ISFET		Cal. Std.		NA
Dissolved Oxygen	5 – 12 mg/L	0.2 – 20 mg/L	Hach		YSI or Hanna	0 – 15.0 mg/L *	
Specific Conductance	150 – 500 µS/cm	100 – 1999 µS/cm	Oakton		Cal. Std.		NA
Nitrates (NO3) Hach	< 4.4 mg/L	0 – 44 mg/L NO3			NA		NA
Nitrate-Nitrogen (NO3-N) *	< 1.0 mg/L* NO3-N		NA		NA	0 – 30 mg/L *	
Total Phosphates	≤ 0.1 mg/L	0 – 50 mg/L			NA		NA
Ortho Phosphates *			NA		NA	0 – 2.50 mg/L *	
Sulfates	≤ 250 mg/L	50 – 200 mg/L			NA	0 – 70 mg/L *	
Total Alkalinity	5 – 400 mg/L	5 – 400 mg/L			NA		NA
Tot. Dis. Solids (TDS)	≤ 750 mg/L	0 – 999 mg/L			NA		NA
Salinity		0 – 999 ppm			NA		NA