

WATER QUALITY VOLUNTEER COALITION

(Short Form)

WATER MONITORING SITE PHYSICAL & CHEMICAL DATA PAGE-1

Revised November 2023

SITE ID #	
SITE NAME	
DATE	TIME
RECORDER	MONITOR/#
MONITOR/#	MONITOR/#
MONITOR/#	MONITOR/#
MONITOR/#	MONITOR/#

PRECIPITATION	
<i>choose one</i>	<i>choose one</i>
CURRENT	PAST 24 HR
Storm	Storm
Rain (continuous)	Rain (continuous)
Shower (intermittent)	Showers (intermittent)
Overcast	Overcast
Clear	Clear

WATER APPEARANCE	
<i>choose at least one by check mark</i>	
Clear	Foamy
Orange/red	Milky/white
Dark brown	Muddy/cloudy
Green	Multi-colored
Other (describe below):	
No unusual smells	
Non-wadable stream	

WATER ODORS	
<i>choose at least one by check mark</i>	
Chlorine	Fishy
Sulfur	Sewage
Musty	Earthy
Manure	Spicy
Other (describe below):	
No unusual smells	
Non-wadable stream	

SEDIMENT DEPOSITS			
<i>choose at least one by check mark</i>			
Sludge	Gravel	Paper	Fiber
Silt	Mud	Sand	
Other (describe below):			
No unusual sediments			

STREAM TYPE	
<i>choose at least one by check mark</i>	
Straight	Channelized
Meandering/curved	Pool/Riffle
Any other dams present?	Yes
	No
Level of high water above the present stream level (meters) _____ m	
Is this an estimate?	Yes
	No

STREAM BANK	
X-Section Shape	Erosion
V-Shape	No sign of erosion
U-Shape	Occasional areas of erosion
Rectangular	Extensive erosion
Banks undercut	Rock/concrete stabl. present

STREAM BOTTOM			
<i>At least one entry</i>			
INORGANIC + ORGANIC MUST = 100%			
INORGANIC	%	ORGANIC	%
Bedrock (solid)		Muck-mud	
Boulder >25 cm		Pulpy peat	
Cobble 6.25 - 25 cm		Fibrous peat	
Gravel 0.25 - 6.25 cm		Detritus	
Sand up to 0.25 cm		Logs, limbs	
Silt soft fine sand		Marl (gray, shell frag)	
Clay sticky fine sand		Other:	
Other:		Non-wadable stream	
TOTAL = 100%			

Observations/Notes:
Internal Use Only:
Flow Factor: 0.8 or 0.9

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PREDOMINANT SURROUNDING LAND USE			
<i>Estimated by percentage</i>			
<i>At least one entry required</i>			
	%		%
Wetlands		Commercial	
Forest		Industrial	
Cropland		Unused/abandoned	
Pasture		Shrubs/small trees	
Residential		Other:	
No change in land use from previous sampling			
TOTAL = 100%			

AVERAGE TEMPERATURE	
Air	(_____ °F + _____ °F) / 2 = _____ °F (_____ °C + _____ °C) / 2 = _____ °C
Water	(_____ °F + _____ °F) / 2 = _____ °F (_____ °C + _____ °C) / 2 = _____ °C

AVERAGE STREAM DEPTH	
<i>Conversion:</i> _____ ft * 0.3048 = _____ meters	
Average (m):	
Non-Wadable	

AVERAGE STREAM WIDTH	
<i>Conversion:</i> _____ ft * 0.3048 = _____ meters	
Average (m):	
Non-Wadable	

AVERAGE STREAM VELOCITY	
<i>Velocity (m/s) = distance (m) / average time (s)</i>	
Velocity (m/s):	

STREAM FLOW VOLUME	
<i>Flow Volume = width (m) * depth (m) * velocity (m/s)</i>	
Flow Meter ID <i>(if applicable)</i>	
Flow Volume (m³/s)	
Non-wadable stream	
<i>Internal Use: (Vol * Factor) → Final Flow Vol =</i>	

CHEMICAL DATA			
<i>Readings deemed unusual for the site should be questioned</i>			
Every 6 visits, perform a duplicate for quality assurance			
Parameter	*Water Quality Guidelines*	Original Reading	Duplicate Reading
pH ¹ (pH Units)	6.0 – 9.0		
Dissolved Oxygen ¹ (mg/l)	≥ 6.0 mg/l		
Specific Conductivity ² (µS/cm)	50 – 1,500 µS/cm		
Nitrates ¹ (ppm = mg/l)	≤ 10 mg/l as Nitrogen		
Phosphates (ppm)	-		
Salinity ³ (ppt)	≤ 1 ppt		
Total Alkalinity ¹ (mg/l)	≥ 20 mg/l		
TDS ¹ (mg/l)	≤ 750 mg/l		
Turbidity (FAU=NTU)	-		
Calibration Data	Specific Conductivity	pH	
Calibration Std.		4.01	7.01
Std. Solution Readback (Check)			

Water Quality Guidelines derived from PA Code 25, Chapter 93¹, US EPA², and USGS³. These values help indicate the health of a stream and should only be used as a reference. They do not indicate the range of the instrument

Reagent Lot Numbers/Exp Date:



- Nitrate:
- Phosphate:
- Bromocresol Green:

Equipment

- pH Probe ID:
- Colorimeter #:

Observations/Notes: