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			
choose one		*choose one*	
CURRENT		**PAST 24 HR**	
	Storm		Storm
	Rain (continuous)		Rain (continuous)
	Shower (intermittent)		Showers (intermittent)
	Overcast		Overcast
	Clear		Clear

WATER APPEARANCE			
choose at least one by check mark			
	Clear		Foamy
	Orange/red		Milky/white
	Dark brown		Muddy/cloudy
	Green		Multi-colored
	Other (describe below):		

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

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

STREAM TYPE			
choose at least one by check mark			
	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			
At least one entry			
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

Lancaster County Conservation District

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PREDOMINANT SURROUNDING LAND USE

Estimated by percentage

At least one entry required

	%		%
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

Conversion: _____ ft * 0.3048 = _____ meters

Average *(m)*:	
Non-Wadable	

AVERAGE STREAM WIDTH

Conversion: _____ ft * 0.3048 = _____ meters

Average *(m)*:	
Non-Wadable	

AVERAGE STREAM VELOCITY

Velocity (m/s) = distance (m) / average time (s)

Velocity *(m/s)*:

STREAM FLOW VOLUME

*Flow Volume = width (m) * depth (m) * velocity (m/s)*

Flow Meter ID *(if applicable)*	
Flow Volume *(m^3/s)*	
Non-wadable stream	

Internal Use: (Vol * Factor) → **Final Flow Vol** =

For questions or concerns, contact noellelafaver@lancasterconservation.org or gracechamberlain@lancasterconservation.org

CHEMICAL DATA

Readings deemed unusual for the site should be questioned

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 93[1], US EPA[2], and USGS[3]. 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:

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