

CHEMICAL AND FLOW MONITORING DATA SHEET

Sample Site: _____ Date: _____ Time: _____

Sample Site Location: _____ Latitude: _____ Longitude: _____

Current Weather Conditions: _____ Weather last 24 hours: _____

Predominant Surrounding Land Use Type: _____

Turbidity (e.g., muddy, opaque, clear/ clear but tea-colored): _____

Monitor's Name(s): _____

Have you calibrated your meter? YES NO

Calculate Stream Discharge

Part 1 Determine the stream's cross-sectional area (m²)

Measure **stream width**: _____ meters

Measure 3 depths across width of stream: (1) _____ (2) _____ (3) _____

Calculate average **stream depth**: (1) _____ + (2) _____ + (3) _____ / 3 = _____ meters

Multiply **stream width** by average **stream depth** to find cross-sectional area

_____ meters x _____ meters = _____ m²
(width) (depth) (cross-sectional area)

Part 2 Determine the velocity of the stream (m/sec)

Float time of twig/ping pong ball _____ seconds

Multiply float time by length of run (10 m)

_____ seconds x 10 meters = _____ meters/second

(Float time)

Part 3 Calculate stream discharge

Multiply the stream's cross-sectional area (m²) by its velocity (m/sec)

_____ m² x _____ m/sec = _____ m³/sec

Parameter	Units	Value	
Conductivity	µS/cm		
pH	pH		
Temperature	°F		
DO	mg/L		
Alkalinity	mg/L		
Cl ⁻	mg/L		
SO ₄	mg/L		
Nitrogen Ammonia	mg/L		
Phosphate	mg/L		
Aluminum	mg/L		
Iron	mg/L		

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