

Little Green Lake - Stream Flow Field Data Sheet

Station Info	Station Name: Outlet	Date: 9/9/20	Start Time: 14:10
	SWIMS Station ID: 10060855	WBIC: 162400	End Time: 14:45
	Team Member Name(s): R. Schultz + L. Hays		

Stream Width & Depth	Waterway Width (ft.): 5		# of Intervals: 5		Other Observations: fragmented veg. from lake, foamy
	Length Assessed (ft.): 20		Width of Intervals: 1		
	Interval	Water Depth (ft.)	Interval	Water Depth (ft.)	Total Sum of Depths: 3.08 Average Depth (Total Sum of Depths / # of Intervals): $3.08 / 5 = 0.616$ Cross-Sectional Area (Average Depth x Stream Width): $0.616 \times 5 = 3.08$ Stream Depth Measurement Reminders: • Measure water depth at equal intervals across the stream. • The first depth is always zero to represent the stream edges. • Only measure in decimal feet (not feet and inches)
	1	0.0	11		
	2	1.05	12		
	3	1.00	13		
	4	1.03	14		
	5	0.0	15		
	6		16		
	7		17		
8		18			
9		19			
10		20			

Velocity Measurement	Float Trials	Time (Seconds)
	1	79
	2	73
	3	78
	4	82
	SUM	312

Average Float Time (Sum of Trials / # of Trials): $312 / 4 = 78$
Average Surface Velocity (Length Assessed / Average Float Time): $20 / 78 = 0.2564$

Calculating Stream Flow	Correction Values For rough, loose, coarse, weedy bottom: 0.8 For smooth bottom: 0.9
	Corrected Surface Velocity (Correction Value x Average Surface Velocity): $0.8 \times 0.2564 = 0.2051$
	Final Corrected Stream Flow (Cross-Sectional Area x Corrected Surface Velocity x 0.76): $3.08 \times 0.2051 \times 0.76 = 0.480$
	*Measuring stream flow with the surface float test method overestimates flow by 24%. This is why we must multiply our stream flow by 0.76 for a final corrected stream flow discharge.

Little Green Lake Water Quality Monitoring Data Sheet

Station Info	Station Name: Outlet	Date: 9/9/24	Start Time: 14:10
	SWIMS Station ID: 10060855	WBIC: 162400	End Time: 14:40
	GPS Coordinates in the Field: 43.734527, -88.972258		
	Team Member Name(s): D. Schultz, H. Heyse		

Weather & Site Observations	Staff Gage Level <i>conies</i>	Weather (circle or highlight one): 1 = Sunny 2 = Rain 3 = Partly Cloudy	Weather over the past two days: <i>overcast, rain</i>
	Staff Gage ID:	4 = Cloudy 5 = Snow 6 = Thunderstorm	
	Gage Level (ft.):		
	Water Depth at Site (ft.):	Water Column Appearance (circle or highlight one): 1 = Clear 2 = Murky	Water Color (circle or highlight one): *use the white portion of the secchi disk to determine color 1 = Blue 2 = Green 3 = Brown 4 = Red 5 = Yellow
	Device used: <i>station</i>	3 = Other:	
Algae Perception - Represents the amount of observed blue-green algae in the water at your sample location Circle or highlight one: 1 = Beautiful, could not be nicer 2 = Very minor aesthetic problems; excellent for swimming and boating enjoyment 3 = Swimming and aesthetic enjoyment of the lake slightly impaired because of high algae levels 4 = Desire to swim and enjoyment of the lake is substantially reduced because of algae; would not swim, but boating is OK 5 = Poor aesthetics due to algae prevents swimming and boating Other Observations:			

Transparency	Secchi Depth <i>*Deep Hole monitoring only</i> Record as a decimal. Round to the nearest 1/4 ft.	Trial #1 (ft.)	Trial #2 (ft.)	Average (ft.)	Notes:
	Transparency Tube <i>*Inlet and Outlet monitoring only</i>	Trial #1 (cm) 34	Trial #2 (cm) 36	Average (cm) 35	Notes: foamy

Water Samples	Parameter:	Collected?	Preserved?	On Ice?	Labeled?
	TP	Y N	Y N	Y N	Y N
	TN	Y N	Y N	Y N	Y N
	Orthophosphate	Y N	Y N	Y N	Y N
	NO2 + NO3 as Nitrogen	Y N	Y N	Y N	Y N
	Chlorophyll a	Y N	Y N	Y N	Y N
	For Deep Hole site only: Has 0-6 foot integrated sample AND < 1 meter from bottom sample been collected? Y N				
Has lab "Test Request Form" been completed and photograph taken? (circle one) Ye Y N					
Will samples be shipped or dropped off? (Circle one) Shipped Dropped off					

Additional Metrics	YSI Probe Parameters:
	Temperature: 25.42 °C Dissolved Oxygen (DO): 9.53 ppm / 117.6 % Turbidity: Y tube 35 cm pH: 6.88