Little Green Lake Water Quality Monitoring Data Sheet

Station Info

Station Name: Deep Hole	**Date:** 09/23/2026	**Start Time:** 10:25
SWIMS Station ID: 243022	**WBIC:** 162500	**End Time:** 10:45
GPS Coordinates in the Field: 43.736944, -88.985007		
Team Member Name(s): Korin Doering		

Weather & Site Observations

Staff Gage Level Staff Gage ID: Connie's Gage Level (ft.): 2.18 ft	**Weather (circle or highlight one):** Breezy (1 = Sunny) 2= Rain 3 = Partly Cloudy 4 = Cloudy 5= Snow 6 = Thunderstorm	**Weather over the past two days:** Rainy Cooler
Water Depth at Site (ft.): 26 ft *Device used:*	**Water Column Appearance (circle or highlight one):** 1 = Clear (2= Murky) 3 = Other:	**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

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 aestetic 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 **Deep Hole monitoring only* *Record as a decimal. Round to the nearest 1/4 ft.*	**Trial #1 (ft.)**	**Trial #2 (ft.)**	**Average (ft.)**	**Notes:**
	1.5	2.00	1.75	
~~**Transparency Tube**~~ **Inlet and Outlet monitoring only*	~~**Trial #1 (cm)**~~	~~**Trial #2 (cm)**~~	~~**Average (cm)**~~	~~**Notes:**~~

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:	**Turbidity:**
Dissolved Oxygen (DO):	**pH:**

Little Green Lake Water Quality Monitoring Data Sheet

Station Info

Station Name: Inlet A	**Date:** 9/23/2026	**Start Time:** 12:47 pm
SWIMS Station ID: 10060853	**WBIC:** 5027630	**End Time:** 1:10 pm
GPS Coordinates in the Field: 43.739914, -88.973824		
Team Member Name(s): Korin Doering		

Weather & Site Observations

Staff Gage Level Staff Gage ID: Gage Level (ft.):	**Weather (circle or highlight one):** (1 = Sunny) 2= Rain 3 = Partly Cloudy 4 = Cloudy 5= Snow 6 = Thunderstorm	**Weather over the past two days:** Rainy
Water Depth at Site (ft.): Low *Device used:*	**Water Column Appearance (circle or highlight one):** (1 = Clear) 2= Murky 3 = Other:	**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 clear

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 aestetic 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 **Deep Hole monitoring only* *Record as a decimal. Round to the nearest 1/4 ft.*	**Trial #1 (ft.)**	**Trial #2 (ft.)**	**Average (ft.)**	**Notes:**

Transparency Tube **Inlet and Outlet monitoring only*	**Trial #1 (cm)**	**Trial #2 (cm)**	**Average (cm)**	**Notes:**
	>70 cm	>70 cm	>70 cm	

and ammonia

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: 13.61	**Turbidity:**
Dissolved Oxygen (DO): 8.86 ppm 86.0%	**pH:** 8.03

Little Green Lake - Stream Flow Field Data Sheet

n Info

Station Name: Inlet A	**Date:** 9/23/26	**Start Time:** 12:45
SWIMS Station ID: 10060853	**WBIC:** 5027630	**End Time:** 1:10 pm
Team Member Name(s): Korin Doering		

Stream Width & Depth

Waterway Width (ft.): 5 ft
# of Intervals: 10
Other Observations: Very low water
Length Assessed (ft.) 20
Width of Intervals: 5 ft

Interval	Water Depth (ft.)	Interval	Water Depth (ft.)
1	0	11	
2	0.1	12	
3	0.2	13	
4	0.3	14	
5	0.2	15	
6	0.2	16	
7	0.2	17	
8	0.1	18	
9	0.1	19	
10	0.0	20	

Total Sum of Depths: 1.4

Average Depth (Total Sum of Depths/ # of Intervals): 0.14

Cross-Sectional Area (Average Depth x Stream Width): 0.7

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)

Velocity Measurement

Float Trials	Time (Seconds)
1	80.0
2	75.1
3	80.2
4	78.0
SUM	313.3

Average Float Time (Sum of Trials/ # of Trials): 78.325

Average Surface Velocity (Length Assessed/ Average Float Time): 0.255

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): 0.204

Final Corrected Stream Flow (Cross-Secitonal Area x Corrected Surface Velocity x 0.76): 0.109

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:** 9/23/26	**Start Time:** 1:42 pm
SWIMS Station ID: 10060855	**WBIC:** 162400	**End Time:** 2:10 pm
GPS Coordinates in the Field: 43.734527, -88.972258		
Team Member Name(s): Korin Doering		

Weather & Site Observations

Staff Gage Level Staff Gage ID: Gage Level (ft.):	**Weather (circle or highlight one):** (1 = Sunny) 2= Rain 3 = Partly Cloudy 4 = Cloudy 5= Snow 6 = Thunderstorm	**Weather over the past two days:** Rainy Cooler
Water Depth at Site (ft.): 1.2 ft *Device used:* Ruler	**Water Column Appearance (circle or highlight one):** 1 = Clear (2= Murky) 3 = Other:	**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

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 aestetic 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 **Deep Hole monitoring only* *Record as a decimal. Round to the nearest 1/4 ft.*	**Trial #1 (ft.)**	**Trial #2 (ft.)**	**Average (ft.)**	**Notes:**

Transparency Tube **Inlet and Outlet monitoring only*	**Trial #1 (cm)**	**Trial #2 (cm)**	**Average (cm)**	**Notes:**
	35	38	36.5	

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: 17.83 °C	**Turbidity:**
Dissolved Oxygen (DO): 106% 9.73 ppm	**pH:** 9.38

Little Green Lake - Stream Flow Field Data Sheet

n Info			
	Station Name: Outlet	**Date:** 9/23/26	**Start Time:** 1:45 pm
	SWIMS Station ID: 10060855	**WBIC:** 162400	**End Time:** 2:10 pm
	Team Member Name(s): Kona Doering		

Stream Width & Depth

Waterway Width (ft.): 5 ft	**# of Intervals:** 10	**Other Observations:**	
Length Assessed (ft.) 20 ft	**Width of Intervals:** 0.5 ft		

Interval	Water Depth (ft.)	Interval	Water Depth (ft.)
1	1.22	11	
2	1.20	12	
3	1.25	13	
4	1.25	14	
5	1.10	15	
6	1.20	16	
7	1.25	17	
8	1.22	18	
9	1.25	19	
10	1.22	20	

Total Sum of Depths: 12.16

Average Depth (Total Sum of Depths/ # of Intervals): 1.216

Cross-Sectional Area (Average Depth x Stream Width): 6.08

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)

Velocity Measurement

Float Trials	Time (Seconds)
1	35.72
2	41.59
3	39.16
4	35.16
SUM	

Average Float Time (Sum of Trials/ # of Trials): 37.91

Average Surface Velocity (Length Assessed/ Average Float Time): [redacted] 0.528

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): [redacted] 0.422

Final Corrected Stream Flow (Cross-Secitonal Area x Corrected Surface Velocity x 0.76): 6.08 x 0.422 x 0.76 = 1.95

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 L[illegible] Temperature & DO Profile Field Data Sheet

Date: 09/23/26 Start Time: 8:45 am End Time: 12:30 pm

Target Depth Interval (ft)	Point ID 1					Point ID 2					Point ID 3					Point ID 4				
	Depth	Temp °C	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm
0 (Water Surface)		17.36	8.89	97.7	9.24		17.41	9.22	101.6	9.50	2	17.44	9.23	97.7	9.09		17.44	9.26	99.1	9.37
1.5		17.36	8.97	92.6	9.18		17.42	9.22	100.7	9.48		17.44	9.19	95.4	8.94		17.45	9.26	99.6	9.49
3		17.34	8.97	88.0	9.03		17.42	9.22	99.2	9.34		17.44	9.17	92.9	8.90		17.45	9.21	94.5	8.88
6		17.33	9.04	92.1	8.67		17.41	9.21	98.2	9.13		17.44	9.16	90.3	8.52		17.41	9.17	91.2	8.70
9		17.31	9.08	90.1	8.66		17.39	9.21	95.2	9.05		17.42	9.14	93.2	8.81		17.40	9.16	96.0	9.16
12	11 ft	17.51	9.02	87.0	8.15		17.28	9.17	94.8	8.96		17.36	9.12	91.8	8.69		17.41	9.15	99.6	9.50
15						10.5	17.23	9.15	89.0	8.50		17.38	9.20	87.4	8.32		17.38	9.12	92.6	8.87
18											17	17.22	9.14	83.8	8.10		17.38	9.24	93.1	8.93
21																	17.38	9.23	96.4	9.27
24																				
27																				
30																				
33																				
Notes																				

Little Green L **Temperature & DO Profile Field Data Sheet**

Date: 9/23/26 Start Time: 8:45 am End Time: 12:30pm

Target Depth Interval (ft)	Point ID 5					Point ID * DEEP HOLE *					Point ID 6					Point ID 7				
	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm
0 (Water Surface)	~~5~~	17.44	9.25	99.6	9.54		17.48	9.31	103.8	9.93		17.47	9.28	102.4	9.8~~3~~		17.50	9.28	104.2	9.95
1.5		17.45	9.22	98.6	9.44		17.44	9.29	101.5	9.70		17.4~~3~~	9.29	104.7	10.04		17.49	9.29	103.8	9.90
3		17.43	9.21	97.0	9.28		17.42	9.25	102.9	9.84		17.45	9.29	104.5	9.98		17.50	9.29	99.0	9.41
6		17.43	9.20	97.2	9.33		17.38	9.22	100.1	9.61		17.42	9.28	103.7	9.93		17.46	9.27	98.9	9.38
9		17.41	9.19	95.9	9.11		17.36	9.22	94.4	9.04		17.43	9.26	101.0	9.68		17.44	9.26	98.6	9.39
12		17.38	9.19	91.4	8.99		17.34	9.21	94.5	9.12		17.36	9.25	102.9	9.91		17.38	9.21	95.8	9.27
15		17.36	9.16	98.4	9.45		17.30	9.21	98.2	9.48		17.31	9.23	103.2	9.94		17.35	9.19	94.1	9.12
18		17.32	9.28	92.9	8.99		17.25	9.21	98.1	9.46		17.32	9.23	103.3	9.92		17.30	9.18	89.1	8.69
21		17.32	9.27	99.1	9.55		17.25	9.21	98.2	9.46		17.33	9.24	96.1	9.28		17.29	9.18	83.4	8.23
24		17.33	9.27	96.0	9.24		17.25	9.21	98.3	9.53							17.30	9.17	91.1	8.89
27						25	17.25	9.19	99.7	9.65										
30																				
33																				
Notes																				

Little Green L **Temperature & DO Profile Field Data Sheet**

Date: 9/23/26 Start Time: 8:45 am End Time: 12:30 pm

Target Depth Interval (ft)	Point ID 8					Point ID 9					Point ID 10					Point ID EXTRA				
	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm	Depth	Temp	pH	DO %	DO ppm
0 (Water Surface)		17.59	9.22	101.4	9.72		17.64	9.23	104.2	9.96		17.64	9.24	103.1	9.92					
1.5		17.55	9.23	103.5	9.89		17.63	9.24	102.8	9.88		17.67	9.24	102.6	9.80					
3		17.58	9.25	104.5	9.97		17.63	9.25	101.8	9.80		17.64	9.25	101.4	9.70					
6		17.56	9.25	102.5	9.80		17.61	9.25	103.0	9.84		17.54	9.25	100.1	9.65					
9		17.50	9.25	101.0	9.62		17.53	9.24	97.7	9.30		17.47	9.25	100.6	9.63					
12		17.43	9.22	97.5	9.4		17.49	9.24	100.4	9.68		17.02	9.26	98.5	9.5					
15		17.39	9.21	100.3	9.61		17.16	9.24	97.5	9.44										
18		17.22	9.20	96.9	9.37															
21	20	17.20	9.18	95.3	9.24															
24																				
27																				
30																				
33																				
Notes:																				