

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lake - North Basin
 Weather: Winds S-10 mph, SE of
 County: Cass
 Date: 5-27-2020
 Sampling Crew: JJ, VT, GT

Site No.

Sechi (D+)

NOTES-	DEPTH (ft-m)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
1	0	26.4	8.8	8.2	296			5.2	113
	1.0	26.4	8.8	8.2	296				
	1.5	25.8	9.0	8.1	298				
	2.0	25.7	8.0	8.1	300				
	2.5	25.6	8.6	8.1	302				
2	0	26.3	9.0	8.2	300				
	1.0	26.3	9.0	8.2	300				
	1.5	25.9	8.9	8.2	302			5.0'	114
	2.0	26.8	8.8	8.3	306				
	2.5	25.9	8.2	8.3	311				
3	0	26.5	9.9	8.4	300				
	1.0	26.5	9.5	8.2	299				
	1.5	25.9	9.5	8.2	299				
	2.0	25.9	9.5	8.2	297			5.0'	115
	2.5	25.8	8.0	8.2	303				
	3.0	22.0	9.0	8.1	306				
	3.5	21.10	8.1	8.1	298				
4	0	26.4	8.9	8.2	311				
	1.0	26.4	9.9	8.2	311				
	1.5	25.7	8.9	8.2	315				
	2.0	25.7	8.8	8.2	299			4.9'	116
	2.5	25.7	8.8	8.2	304				
5	0	26.8	9.9	8.4	340				
	1.0	25.6	9.9	8.4	330				
	1.5	25.6	8.5	8.3	335				
	2.0	25.8	8.5	8.2	329			5.1'	117
	2.5	25.8	8.5	8.2	329				
	3.0	22.1	8.5	8.3	329				
6	0	26.8	9.8	8.4	320				
	1.0	25.9	10.0	8.4	320				
	1.5	25.4	9.5	8.3	320				
	2.0	25.3	8.8	8.3	328				
	2.5	25.3	8.6	8.1	331			5.1'	118

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lk - North Basin
 Weather: 42-60 pg 1
 County: Cass
 Date: 5-27-2020
 Sampling Crew: TS, VT, GJ, R

Side # NOTES	DEPTH (ft/m)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
7	0	26.2	7.5	8.3	299				
	1.0	25.9	9.5	8.3	299				
	1.5	25.4	8.9	8.3	298				
	2.0	25.4	8.9	8.3	228			5.1	118 119
	2.5	25.1	8.9	8.3	225				
	3.0	22.4	8.8	8.3	235				
	3.5	21.5	8.8	8.3	235				
8	0	26.3	10.1	8.2	320				
	1.0	25.8	10.0	8.2	320				
	1.5	25.5	9.0	8.2	320			5.0'	120
	2.0	25.4	9.2	8.2	322				
	2.5	25.2	8.9	8.2	331				
9	0	26.1	10.1	8.1	322				
	1.0	25.9	10.0	8.2	322				
	1.5	25.8	9.7	8.2	328				
	2.0	25.6	9.7	8.2	321			5.1'	121
	2.5	25.4	9.7	8.3	331				
10	3.0	25.4	9.4	8.3	331				
	0	26.1	8.9	8.4	280				
	1.0	25.9	8.9	8.3	280			4.9'	122
	1.5	25.9	8.9	8.3	330				
	2.0	25.7	8.8	8.3	334				

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian LK - North Basin
Weather: Humid, calm winds, 78°F
County: Ross
Date: 7-30-2020
Sampling Crew: JJ, WJ, VT

NOTES	DEPTH (ft) m	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NEU)	SAMPLE NUMBERS
	0	28.1	8.0	8.4	312				
	1.0	28.1	8.0	8.5	312				
	1.5	28.1	8.0	8.5	312			4.1'	268
	2.0	28.1	7.9	8.5	313				
	2.5	28.1	7.9	8.5	312				
2	0	22.9	7.9	8.5	312				
	1.0	28.0	7.9	8.5	312				
	1.5	28.0	7.9	8.5	312			4.1	269
	2.0	28.0	7.8	8.5	312				
	2.5	28.0	7.8	8.5	312				
3	0	28.0	8.0	8.4	312				
	1.0	28.0	7.9	8.4	312				
	1.5	28.0	7.9	8.5	312				
	2.0	28.0	7.6	8.5	313			4.2	270
	2.5	27.9	7.8	8.5	312				
	3.0	27.7	7.8	8.5	312				
	3.5	27.5	7.8	8.4	312				
4	0	28.0	8.1	8.4	311				
	1.0	28.0	8.0	8.4	311				
	1.5	28.0	8.0	8.5	311			4.1	271
	2.0	27.9	7.8	8.5	310				
	2.5	27.9	7.8	8.5	311				
5	0	28.1	8.0	8.4	312				
	1.0	28.0	8.0	8.4	312				
	1.5	28.0	8.0	8.4	312				
	2.0	28.0	8.0	8.4	312			4.0'	272
	2.5	28.0	8.0	8.4	312				
	3.0	27.7	7.9	8.3	311				
6	0	28.0	8.0	8.3	312				
	1.0	28.0	8.0	8.2	311				
	1.5	28.0	8.0	8.3	311			4.1	273
	2.0	28.0	7.9	8.3	310				
	2.5	27.9	7.8	8.2	310				

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lk - North Basin
Weather: 40 deg!
County: Cass
Date: 7-30-2020
Sampling Crew: JJ, GS, VT

Site #

2061 (44)

NOTES	DEPTH (ft) M	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
7	0	28.0	8.1	8.4	313				
	1.0	28.0	8.0	8.4	313				
	1.5	28.0	8.0	8.4	312				
	2.0	28.0	8.0	8.3	312			4.0'	294
	2.5	27.9	7.9	8.3	312				
	3.0	27.9	7.9	8.3	312				
	3.5	27.1	7.9	8.3	312				
8	0	28.0	7.8	8.4	313				
	1.0	28.0	7.8	8.5	313				
	1.5	28.0	7.8	8.5	313			4.1'	295
	2.0	27.9	7.8	8.5	312				
	2.5	27.8	7.8	8.5	312				
9	0	28.0	7.8	8.5	311				
	1.0	27.9	7.8	8.5	311				
	1.5	27.9	7.8	8.4	314				
	2.0	27.9	7.7	8.4	310			4.1'	304
	2.5	27.8	7.7	8.4	310				
	3.0	27.8	7.7	8.4	310				
10	0	28.0	7.9	8.5	311				
	1.0	28.0	7.8	8.5	311			4.0'	265
	1.5	28.0	7.8	8.5	311				
	2.0	28.0	7.8	8.5	311				

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lake - North Basin
Weather: Calm, 62°F
County: Cass
Date: 9-13-2020
Sampling Crew: JJ, CJ

Site #	DEPTH (ft)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
1	0	23.4	7.8	8.1	325				
	1.0	23.4	7.8	8.2	325				
	1.5	23.4	7.8	8.2	325			5.1'	550
	2.0	23.5	7.8	8.3	329				
	2.5	23.1	7.9	8.3	329				
2	0	23.6	7.7	8.3	325				
	1.0	23.6	7.7	8.3	325				
	1.5	23.6	7.6	8.3	325			5.1'	551
	2.0	23.4	7.2	8.2	328				
	2.5	23.2	7.6	8.3	329				
3	0	23.5	7.5	8.3	326				
	1.0	23.5	7.5	8.4	322				
	1.5	22.4	7.5	8.4	322				
	2.0	23.2	7.5	8.4	322			5.2'	552
	2.5	23.1	7.4	8.4	322				
	3.0	23.0	7.1	8.3	322				
4	0	23.3	7.0	8.4	319				
	1.0	23.3	7.2	8.4	319				
	1.5	23.3	7.2	8.4	326			5.0'	553
	2.0	23.1	7.2	8.3	326				
	2.5	23.1	7.0	8.3	311				
5	0	23.5	7.9	8.4	313				
	1.0	23.3	7.9	8.4	313				
	1.5	23.7	7.9	8.4	313			5.1'	554
	2.0	23.1	7.8	8.4	313				
	2.5	23.1	7.8	8.4	313				
6	0	23.4	8.0	8.3	310				
	1.0	23.4	7.9	8.3	310				
	1.5	23.3	7.9	8.3	310			5.0'	555
	2.0	23.3	7.6	8.3	315				
	2.5	23.2	7.6	8.3	313				

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian LK - North Basin
Weather: 10 p.
County: Cass
Date: 9-13-2020
Sampling Crew: JJ, GT

NOTES	DEPTH (ft)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
	0	22.3	7.7	8.4	324				
	1.0	22.2	7.7	8.4	324				
	1.5	22.2	7.7	8.4	324				
	2.0	23.1	7.5	8.4	319			5.0'	556
	2.5	23.1	7.5	8.3	302				
	3.0	23.1	7.2	8.3	322				
	3.5	23.0	6.8	8.3	320				
7	0	23.3	8.0	8.3	325				
	1.0	23.3	8.0	8.4	325			5.2'	557
	1.5	23.2	7.7	8.3	325				
	2.0	23.2	7.4	8.4	338				
	2.5	23.2	7.3	8.4	338				
9	0	23.2	8.1	8.3	325				
	1.0	23.2	8.0	8.4	332			5.1'	558
	1.5	23.0	7.8	8.4	332				
	2.0	23.0	7.8	8.4	332				
	2.5	23.0	7.8	8.4	332				
	3.0	23.0	7.8	8.3	332				
10	0	23.4	8.0	8.4	326				
	1.0	23.2	7.9	8.4	329				
	1.5	23.2	7.9	8.4	329			5.0'	559
	2.0	23.2	7.8	8.4	324				

09/1

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lake - South Basin
Weather: Winds ~ 5-10 mph, 62°F
County: Cass
Date: 5-27-2020
Sampling Crew: JJ, GT

Site #

Secchi (ft)

NOTES	DEPTH (ft)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
#1	0	26.3	9.1	8.2	299				123
	0.5	26.3	9.1	8.4	299				
	1.0	26.2	9.0	8.4	299				
	1.5	25.9	8.9	8.4	298			5.4'	124
	2.0	25.5	8.9	8.4	298				
	2.5	25.4	8.9	8.4	295				
	3.0	22.9	9.0	8.4	295				125
#2	0	26.4	8.8	8.5	300				126
	0.5	26.4	8.8	8.5	301				
	1.0	26.3	8.7	8.5	301				
	1.5	26.0	8.7	8.5	301				
	2.0	25.9	8.9	8.4	301				
	2.5	25.8	8.9	8.4	301				
	3.0	23.5	8.8	8.4	300				127
	3.5	23.5	8.8	8.4	300			6.1'	
	4.0	22.4	8.8	8.4	297				
	4.5	22.4	8.8	8.4	297				
	5.0	22.1	8.8	8.4	297				
	5.5	22.0	8.8	8.4	297				128

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lake - S. Basin
Weather: Calm ~ 80°F
County: Cass
Date: 7-30-2020
Sampling Crew: JJ, GJ, KJ

Station	NOTES	DEPTH (ft/m)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	Secchi (ft)	SAMPLE NUMBERS
	1	0	27.9	7.9	8.5	319					266
		0.5	27.9	7.9	8.5	319					
		1.0	27.9	8.1	8.5	319					
		1.5	27.6	8.0	8.5	322				5.1'	267
		2.0	27.5	7.8	8.5	314					
		2.5	27.3	7.9	8.5	309					
		3.0	26.8	7.6	8.5	315					276
	2	0	27.8	8.1	8.4	320					277
		0.5	27.6	8.1	8.4	320					
		1.0	27.6	8.0	8.4	320					
		1.5	27.4	8.0	8.4	320					
		2.0	27.2	8.0	8.4	320					
		2.5	26.5	8.0	8.4	320				5.9'	278
		3.0	26.5	8.0	8.4	318					
		3.5	26.1	8.0	8.4	318					
		4.0	25.9	8.0	8.4	318					
		4.5	25.8	7.8	8.4	319					
		5.0	25.8	7.8	8.4	312					
		5.5	25.8	7.8	8.3	315					279

LIMNOLOGICAL DATA FIELD SAMPLING LOG

Project Name: Indian Lake - S. Basin
Weather: Calm 65°F
County: Cass County
Date: 9-13-2020
Sampling Crew: JJ, GJ

Site #

Depth (ft)

NOTES	DEPTH (ft)	TEMP (°C)	DO (mg/l)	pH (SU)	COND. (mS/cm)	ORP.	TDS	TURB. (NTU)	SAMPLE NUMBERS
1	0	23.6	8.1	8.6	325				560
	0.5	23.6	8.1	8.6	325				
	1.0	23.4	8.0	8.5	325				
	1.5	23.1	7.8	8.5	325			5.9	561
	2.0	23.1	7.8	8.5	325				
	2.5	23.0	7.8	8.5	329				
	3.0	23.0	7.9	8.5	331				562
2	0	23.6	7.5	8.1	326				563
	0.5	23.5	7.7	8.1	329				
	1.0	23.4	7.5	8.1	329				
	1.5	23.4	7.4	8.1	322				
	2.0	23.3	7.6	8.1	322				
	2.5	23.0	7.4	8.1	320				
	3.0	23.0	7.3	8.2	318			5.2	564
	3.5	22.9	7.4	8.2	314				
	4.0	21.9	7.6	8.3	268				
	4.5	21.5	7.4	8.3	311				
	5.0	21.5	7.2	8.3	322				
	5.5	21.6	7.6	8.1	320				565