

Leisure Ponds is building a database for your Water Feature

Water Feature - MONTHLY WATER QUALITY DATA 2021

Park Charles

November

2021

Basic Limnology Tests

		Lake 1 Weatherby
X	DATE	11/8/2021
X	TIME	11:00
X	TEMPERATURE	56
X	pH	7.1
X	ALKALINITY	100
X	HARDNESS	100
X	SECCHI DEPTH	18
X	TOTAL CHLORINE	0.00
X	FREE CHLORINE	0.00

Lake 2
Lake Pershing

		Lake 2 Lake Pershing
	DATE	11/8/2021
	TIME	16:30
	TEMPERATURE	57
	pH	7.0
	ALKALINITY	100
	HARDNESS	100
	SECCHI DEPTH	40
	TOTAL CHLORINE	0.00
	FREE CHLORINE	0.00

Lake 3
Lake Superior

		Lake 3 Lake Superior
	DATE	11/8/2021
	TIME	16:00
	TEMPERATURE	57
	pH	7.1
	ALKALINITY	80
	HARDNESS	80
	SECCHI DEPTH	28
	TOTAL CHLORINE	0.00
	FREE CHLORINE	0.00

Lake Nutrients

		Lake 1 Weatherby
	NITROGEN Kjeldahl TKN	
X	AMMONIA NITROGEN NH3-N	0.06
X	UN-IONIZED AMMONIA NH3	0.07
X	IONIZED AMMONIA NH4	0.08
X	NITRATE NO3	0.00
X	NITRITE NO2	0.00
X	TOTAL PHOSPHOROUS P	0.03
X	ORTHO-PHOSPHATES PO4	0.09

		Lake 2 Lake Pershing
	NITROGEN Kjeldahl TKN	
	AMMONIA NITROGEN NH3-N	0.64
	UN-IONIZED AMMONIA NH3	0.78
	IONIZED AMMONIA NH4	0.83
	NITRATE NO3	0.00
	NITRITE NO2	0.00
	TOTAL PHOSPHOROUS P	0.03
	ORTHO-PHOSPHATES PO4	0.10

		Lake 3 Lake Superior
	NITROGEN Kjeldahl TKN	
	AMMONIA NITROGEN NH3-N	0.00
	UN-IONIZED AMMONIA NH3	0.00
	IONIZED AMMONIA NH4	0.00
	NITRATE NO3	0.00
	NITRITE NO2	0.00
	TOTAL PHOSPHOROUS P	0.05
	ORTHO-PHOSPHATES PO4	0.16

Aquatic Activity & Fish Health

		Lake 1 Weatherby
	DISSOLVED OXYGEN	
	AMMONIA TOXICITY LEVEL	
	CARBON DIOXIDE	
	ALKALINITY - P	
	ALKALINITY - M	
	CHLOROPHYLL a	
	CHLOROPHYLL b	
	CHLOROPHYLL c	
	SILICA	

		Lake 2 Lake Pershing
	DISSOLVED OXYGEN	
	AMMONIA TOXICITY LEVEL	
	CARBON DIOXIDE	
	ALKALINITY - P	
	ALKALINITY - M	
	CHLOROPHYLL a	
	CHLOROPHYLL b	
	CHLOROPHYLL c	
	SILICA	

		Lake 3 Lake Superior
	DISSOLVED OXYGEN	
	AMMONIA TOXICITY LEVEL	
	CARBON DIOXIDE	
	ALKALINITY - P	
	ALKALINITY - M	
	CHLOROPHYLL a	
	CHLOROPHYLL b	
	CHLOROPHYLL c	
	SILICA	

Watershed & Stormwater Inputs

		Lake 1 Weatherby
X	CONDUCTIVITY	390
	SODIUM CHLORIDE	
	TOTAL SUSPENDED SOLIDS - TSS	
	VOLATILE SS - organic	
	NONVOLATILE SS - minerals	
	TURBIDITY - NTU	
	SETTLABLE - Imhoff cones	

		Lake 2 Lake Pershing
	CONDUCTIVITY	353
	SODIUM CHLORIDE	
	TOTAL SUSPENDED SOLIDS - TSS	
	VOLATILE SS - organic	
	NONVOLATILE SS - minerals	
	TURBIDITY - NTU	
	SETTLABLE - Imhoff cones	

		Lake 3 Lake Superior
	CONDUCTIVITY	244
	SODIUM CHLORIDE	
	TOTAL SUSPENDED SOLIDS - TSS	
	VOLATILE SS - organic	
	NONVOLATILE SS - minerals	
	TURBIDITY - NTU	
	SETTLABLE - Imhoff cones	

Public Safety

		Lake 1 Weatherby
	FECAL COLIFORM	
	E. COLI	
	HYDROGEN SULFIDE - odor	
	SULFATE -	
	SULFIDE	

		Lake 2 Lake Pershing
	FECAL COLIFORM	
	E. COLI	
	HYDROGEN SULFIDE - odor	
	SULFATE -	
	SULFIDE	

		Lake 3 Lake Superior
	FECAL COLIFORM	
	E. COLI	
	HYDROGEN SULFIDE - odor	
	SULFATE -	
	SULFIDE	

As Irrigation WQ

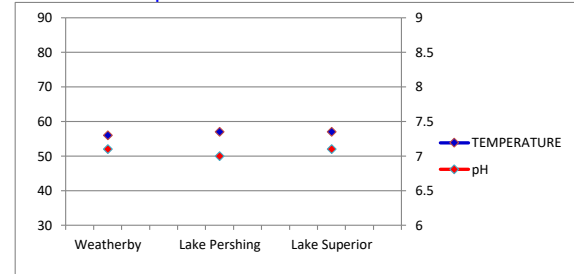
		Lake 1 Weatherby
	CALCIUM	
	MAGNESIUM	
	POTASSIUM	
	SODIUM	
	SODIUM ABSORPTION RATIO	
	CHLORIDE	
X	TOTAL DISSOLVED SOLIDS - TDS	273
X	LAKE LEVEL Gage	0

		Lake 2 Lake Pershing
	CALCIUM	
	MAGNESIUM	
	POTASSIUM	
	SODIUM	
	SODIUM ABSORPTION RATIO	
	CHLORIDE	
	TOTAL DISSOLVED SOLIDS - TDS	247
	LAKE LEVEL Gage	-2

		Lake 3 Lake Superior
	CALCIUM	
	MAGNESIUM	
	POTASSIUM	
	SODIUM	
	SODIUM ABSORPTION RATIO	
	CHLORIDE	
	TOTAL DISSOLVED SOLIDS - TDS	170
	LAKE LEVEL Gage	-1

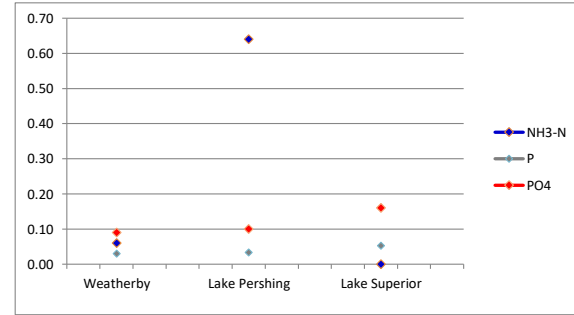
TEMPERATURE & pH TRENDS CURRENT YEAR

F
6.5-8.5
inches
< .30 mg/L
< .30 mg/L
< 0.03 mg/L
< 0.09 mg/L
> 5 mg/L %
< 7 ug/L
< 1500 umhos/cm %
< 15 mg/L
< 200 c / 100 ml
< 126 c / 100 ml
< 1 mg/L
< 100 mg/L



NUTRIENT TREND CURRENT YEAR

< 1500 umhos/cm %
< 15 mg/L
< 200 c / 100 ml
< 126 c / 100 ml
< 1 mg/L
< 100 mg/L



PLANT PRODUCTIVITY ZONE

secchi depth plus negative gage

< 1 mg/L
< 100 mg/L

