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9/22/22

302 McConell Dr. Lyons Colorado

RE: **2022 Water Quality Results**

Hello Lyons River Valley,
Overall, the results demonstrated that the current management program continues to be successful. There were no values that tested above or below expected numbers aside from carbon dioxide, which could be considered high in the north pond but we feel that there is nothing to be concerned with at this time. Also included are the chlorophyll values from a sample taken on 8/29/22, again these values are in normal ranges. Please feel free to call me if you have questions about the attached water quality results.

Sincerely,

ECORESOURCE SOLUTIONS, INC.

Ecological Inventories & Studies (aquatic, wetland, rangeland, etc.)
Support
Wetland Delineation, Permit Support & Mitigation
Aquatic & Terrestrial Habitat Evaluation & Enhancement
Design
Stream Habitat Restoration (instream & riparian)
Laboratory Services (water/soil chemistry & biological organisms)

Environmental Compliance Studies &
Fishery & Wildlife Assessment & Management
Lake & Land Mapping / Lake Dredging
Hydrographic and Bathymetric Surveys
Endangered Species Consultation

TABLE 1.(North Pond) – Summary of water quality results from samples collected 2022 (RLR = recommended level or range for optimal lake and fisheries management).

Water Quality Parameter	Result	RLR
Temperature (°F)	68	33 - 85
pH	7	6 - 9
Ammonia nitrogen (mg/L)	<0.05	< 0.5
Nitrite nitrogen (mg/L)	<0.05	< 0.05
Alkalinity, total (as CaCO ₃ ; mg/L)	140ppm	20 – 400
Chloride (mg/L)	10ppm	< 75
Carbon dioxide (mg/L)	12.5ppm	< 10
Hardness, total (as CaCO ₃ ; mg/L)	100ppm	20 - 300
Dissolved oxygen (mg/L)	6ppm	>6
Chlorophyll <i>a</i> (mg/m ³)	10.23	<10

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TABLE 2.(South Pond) – Summary of water quality results from samples collected March 4, 2022 (RLR = recommended level or range for optimal lake and fisheries management).

Water Quality Parameter	Result	RLR
Temperature (°F)	69	33 - 85
pH	7.5	6 - 9
Ammonia nitrogen (mg/L)	<0.05ppm	< 0.5
Nitrite nitrogen (mg/L)	<0.05ppm	< 0.05
Alkalinity, total (as CaCO ₃ ; mg/L)	160ppm	20 – 400
Chloride (mg/L)	20ppm	< 75
Carbon dioxide (mg/L)	10ppm	< 10
Hardness, total (as CaCO ₃ ; mg/L)	180ppm	20 - 300
Dissolved oxygen (mg/L)	7ppm	>6
Chlorophyll <i>a</i> (mg/m ³)	8.9	<10

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