

Lake Lemon Conservancy District
2021 Annual Report
February 24, 2022

This report is a summary of significant operational objectives the LLCD addressed in 2021.

1. BOARD OF DIRECTORS:

Two (2) LLCD Board positions were filled in 2021. Michael Klitzing ran unopposed and was re-elected to a four (4) year term in Sub Area I. Steven Priddy ran unopposed and was re-elected to a four (4) year term in Sub Area IV. Board officers for 2021 were Pam Dugan, Chairman; Mary Jane Brown, Vice-Chairman; and Debra Ladyman, Treasurer.

2. PERSONNEL:

Staff for 2021 included Andrew Brown, Harlan Behrman, Maggie Piercy and Katy Alexander Gate Attendants; Alex Snooks, Park Operations Supervisor; Clinton Allender, Equipment Operations Supervisor; and Leroy Terrell, Push Boat Operator.

3. GATE HOUSE OPERATIONS:

2021 Gatehouse Operations began on Friday, March 26th, and ended on Sunday, November 21st. Boat permits and launch fees collected in 2021 totaled \$155,672.00. A \$4,169.00 (3%) increase in revenue compared to 2020. The District hosted 14 fishing tournaments in 2021.

4. RIDDLE POINT PARK:

- A. The park opened on Friday, May 21st, 2021. Park admissions were charged daily thru Sunday, September 26th, 2021. The season vehicle pass was \$65.00; daily park admission was \$9.00 per vehicle. Total park admissions collected were \$67,126.00. A Decrease in revenue of \$13,790.00 (16%) compared to 2020. However, 2021 revenues were 20% above 2019 revenues of \$51,233.00. The 2021 revenues are more in line with what would be expected in a normal year, 2020 was likely inflated due to Lake Monroe Beaches and Monroe County pools being closed due to Covid-19.
- B. The Riddle Point Park shelter was rented 10 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$1,125.00.
- C. Events hosted by the IU Women's Varsity Rowing Team (Dale England Cup), generated an additional \$800.00 in revenues.
- D. The LLCD hosted the Independence Day Fireworks Show at Riddle Point Park on Friday, July 2nd. Heath Heady and Bill Hawkins conducted the show at a cost of \$8,000.00. Donations collected for the event totaled \$8,357.00.

5. LAKE LEMON ENHANCEMENT FUNDS

A. Monroe County Community Foundation

2020 Beginning Balance: \$39,838.83; 2020 Ending Balance: \$133,827.70

B. Brown County Community Foundation

2021 Beginning Balance: \$20,154.40; 2020 Ending Balance: \$24,603.26

6. 2021/2020 Revenue Comparison

2021 vs. 2020 Revenue Comparison			
	2020	2021	% Increase
Watercraft Permits (4000)	\$127,573.00	\$131,615.00	3.17%
launch fees (4010)	\$23,930.00	\$24,057.00	0.53%
Marina & Club Fees (4020)	\$10,238.00	\$10,237.00	-0.01%
Sublease & Access Fees (4030)	\$24,075.00	\$25,050.00	4.05%
Property Tax- Brown Co. (4040)	\$73,507.00	\$84,771.58	15.32%
Property Tax- Monroe Co. (4050)	\$242,903.00	\$252,426.90	3.92%
Cum. Cons. Tax- Brown	\$0.00	\$11,903.62	100.00%
Cum. Cons. Tax- Monroe	\$0.00	\$35,445.76	100.00%
interest (4060)	\$2,813.00	\$542.34	-80.72%
Grants & Donation (4070)	\$13,615.00	\$37,388.80	174.61%
Fishing Tournaments (4080)	\$1,150.00	\$1,075.00	-6.52%
Park Reservations (4090)	\$1,000.00	\$1,125.00	12.50%
Park Admission Fees (4100)	\$80,916.00	\$67,126.00	-17.04%
Dredging & Rip-Rap (4130)	\$41,287.00	\$85,400.00	106.84%
Loan/Bond Proceeds (4140)	\$1,188,000.00	0	-100.00%
Total	\$1,831,007.00	\$768,164.00	-58.05%
<i>Excluding Bond Proceeds*</i>	<i>\$643,007.00</i>	<i>\$768,164.00</i>	<i>19.46%</i>

LLCD revenue in 2021 was down \$1,062,843.00 (-58%) when compared to 2020. This can be contributed to the 2020 bond sale (\$1,188,000.00) to fund the sediment management project. When the bond proceeds are removed to normalize annual revenue, the LLCD saw a 19.5% increase in revenue from normal sources. New LLCD income sources in 2021 include the Cumulative Conservancy Improvement Tax.

7. 2021/2020Expense Comparison

2020 vs. 2019 Expense Comparison			
Year	Expense	% Increase	
2020	\$826,099.04	5.7%	
2021	\$873,370.31		
* Excluding Off-road Dump truck Fixed Asset Value (\$225,610.00)			
2020	\$653,143.16	33.7%	
2021	\$873,370.31		

LLCD expenses in 2021 were up \$47,271.27 (5.7%) when compared to 2020. In 2021, \$237,620.31 can be contributed to the Earthwork contract for the South Shore Disposal site and Bond Repayment. A dump truck was purchased in 2020 for \$225,610.00, which has been added to the LLCD's fixed assets.

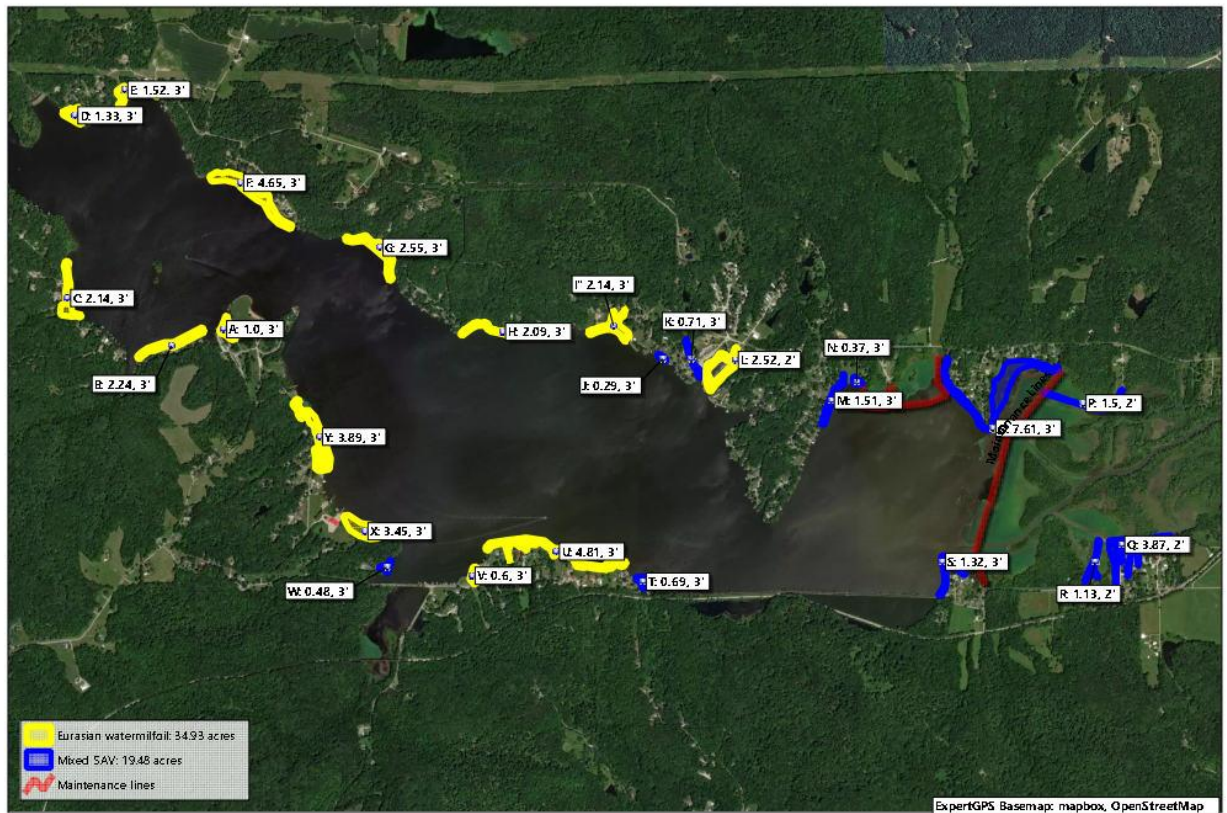
8. 2021 Significant Line Item Transfer Highlights (>\$5,000.00)

Line Item	Amount of Transfer	Discussion
6000- Manager	\$6,000.00	Annual Healthcare Stipend
6111- Dredger	\$7,970.00	Position transitioned from Salary to Hourly
6115- Dredger (Private)	\$5,247.00	Position transitioned from Salary to Hourly
6320- Attorney	\$6,788.00	Public Access Complaints Freedom of Information Act Requests Natural Resource Commission Hearing(ongoing)
6330-Consulting Engineer	\$18,857.00	Rule 5 addition (valley storage) Project oversight and Communication w/ contractor Request for Payment Review and Certification
6350- Other Prof. Serv.	\$10,308.00	S&P Bond Rating for Bond Sale (\$10,000.00)
6620- Dam Inspection	\$6,231.00	Dam & Sluice Gate Inspection Billed wholly to 6620 Did not split payment with 6540- Sluice Gate Inspection
6730- Patrol Boat	\$12,500.00	Purchase of Lake Patrol Jet Ski

9. 2021 AQUATIC PLANT MANAGEMENT:

Lake Lemon, 2021 Treatment Summary

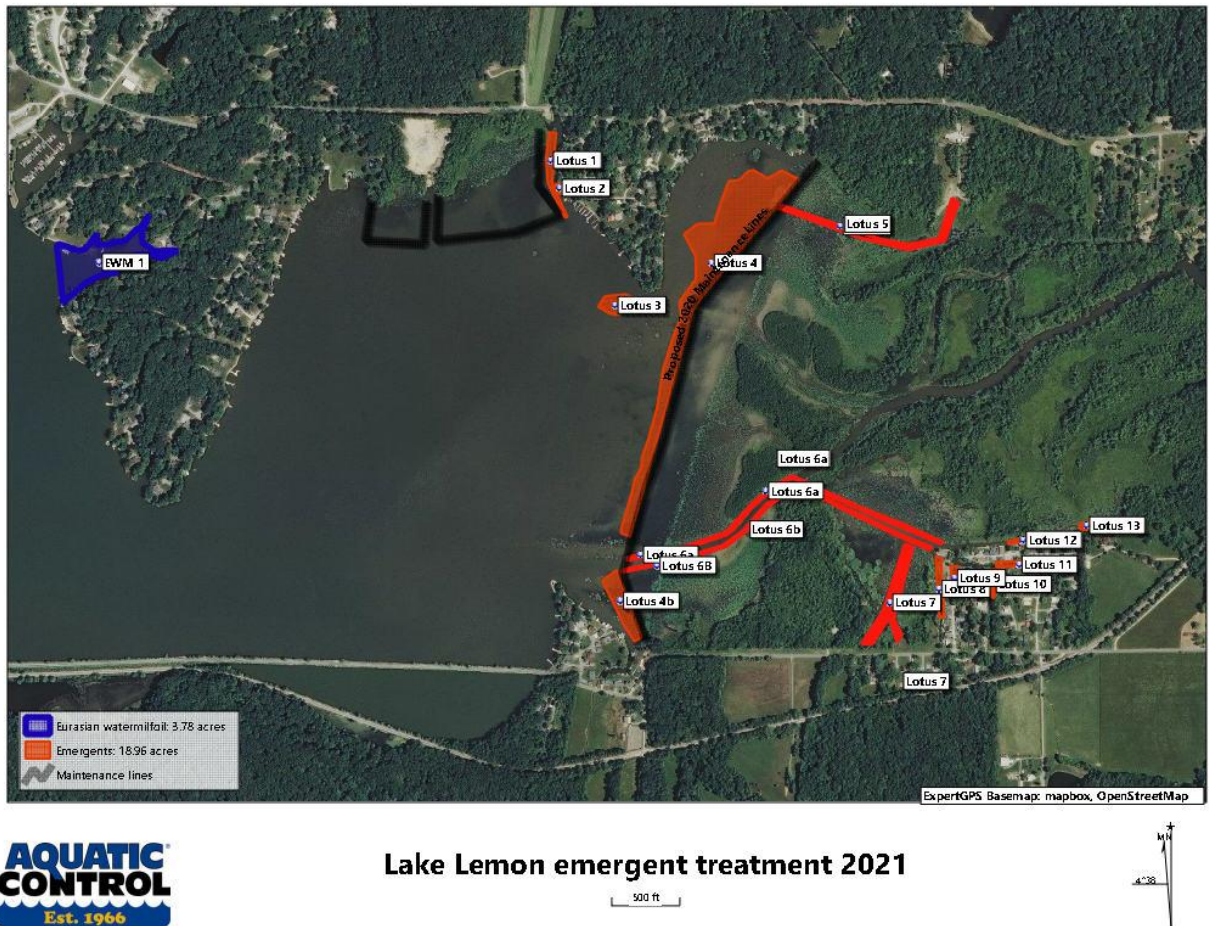
Date	Acres Treated	Targeted Vegetation	Products Applied
6/9/21	34.93	Eurasian Watermilfoil	ProcellaCOR
6/9/21	19.48	Mixed Submersed Veg.	ProcellaCOR , Aquathol & Clipper
8/30/21	3.78	Eurasian Watermilfoil (Free touchup)	ProcellaCOR
8/30/21	18.96	Emergent vegetation (Lotus & Spatterdock)	AquaPRO
9/17/21	19.08	Emergent vegetation (Lotus & Spatterdock)	AquaPRO
2021 Total Vegetation Treatment Cost- \$39,523.57 (Including Permitting)			



2021 Lemon Spring Submersed Weed Treatment

0.25 mi





10. 2021 WATER TESTING:

- A. Indiana University's School of Public and Environmental Affairs (SPEA) conducted lake wide testing during 2021. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2021 results will be presented in Spring 2022. All previous reports may be found on the LLCD website.
- B. Fecal Coliform concentrations at Riddle Point Park beach were tested once a week starting in May and ending in September.
- C. Blue Green Algae concentrations at Riddle Point Park beach were tested biweekly starting in May and ending in September. Additional testing occurred in the South Shore Dr. long causeway pond and open water locations on the lake. Hazardous Algae Recreation Warning signs have been placed at the public boat ramp, public beach, and South Shore Dr. overflow pond.

11. SHORELINE PROJECT PERMITS:

- A. Four (4) permits were issued to lake freeholders in 2021. These projects dealt primarily with shoreline alteration and dock configurations. Since 1996, 395 shoreline permits have been issued to Conservancy freeholders.

12. 2021 LLCD LAKE ENHANCEMENT PROGRAM:

The Lake Enhancement Program consists of four primary maintenance functions: lake debris and stump removal; shore-line erosion control stabilization (rip-rap stone); lake dredging (sediment removal); and disposal site(s) development and maintenance.

These functions are accomplished through LLCD's self-managed barge operation. Operation consisted of two (2) seasonal positions and the following pieces of equipment: A. 66 foot long x 36 foot wide steel barge; B. Excavator; C. Push boat; D. Bulldozer; E. Articulated off road truck; F. Maintenance Utility Truck; and G. 40 foot long x 20 foot wide steel barge.

The dredging operation ended on October 1st. As of October 1st, 10,541 cubic yards of sediment had been removed from the lake. This includes LLCD paid dredging in zones 128 (Tip of Reed Point), 131 (Possum Trot Tributary, West Idalawn), and 100 (Richardson Rd. Tributary). Of the total yardage, 3593 cubic yards were removed through private projects.

A Summary of 2021 Lake Lemon Enhancement, Operational Costs are as follows:

	2021 Barge Operation Staff Costs		
Operation Sub-Category	Position (Line Item)	Hourly/Salary	Annual Expenditure
LLCD Dredging	Equipment Operations Supervisor (6002)	Salary	\$20,600.06
	LLCD Dredger (6111)	Hourly (\$33.00/hr.)	\$7,969.50
	Assistant Dredger (6113)	Hourly (\$18.50/hr.)	\$6,308.50
	Total		\$34,878.00
LLCD Other*	Equipment Operations Supervisor (6002)	Salary	N/A
	LLCD Dredger (6112)	Hourly (\$33.00/hr.)	\$792.00
	Assistant Dredger (6114)	Hourly (\$18.50/hr.)	\$9,565.75
	Total		\$10,357.75
LLCD Private	Equipment Operations Supervisor (6002)	Salary	N/A
	LLCD Dredger (6115)	Hourly (\$33.00/hr.)	\$5,247.00
	Assistant Dredger (6116)	Hourly (\$18.50/hr.)	\$6,447.25
	Total		\$11,694.25
Barge Operation staff Total			\$56,930.00

* LLCD Other consist of all non-dredging and private work activities. Including but not limited to debris removal, disposal site prep, equipment maintenance, Riddle Point Park work, office work

2021 Barge Operation & Equipment Operating Costs (non-staff)			
Category	Line Item	Annual Expenditure	
Regular Gas	6200	\$7,648.37	
Diesel	6210	\$13,632.77	
Dredging Supplies	6251	\$14,102.81	
Rip-Rap Stone	6252	\$13,621.30	
Dredging Equipment Maintenance	6541	\$14,682.62	
Equipment Rental	6542	\$21,286.31	
Disposal Site Preparation	6661	\$17,822.63	
Non-staff Total		\$102,796.81	

2021 Private Dredging/Rip-Rap Summary		
#Private Dredging Jobs	Yardage Removed	Project Cost* (Billed)
13	3,593	\$1,500/ Large Barge \$1,000/ Small Barge \$2000 Combined Barge
# of Private Rip-Rap Jobs	Linear Feet	Billed
12	>1,000.00	\$500.00/Tri-axle stone + \$100.00/ hr.
Total Private Jobs		Total Private Revenue
25		\$85,400.00

*Project Cost (Billed) - refers to the cost paid by freeholder; Dredging is per load; Rip-Rap is inclusive of stone cost and labor cost (\$100.00/hr.)

13. Sediment Management Project

The Lake Lemon sediment management project was a major focus during 2021. The project strives to remove upwards of 100,000 cubic yards of sediment, through hydraulic dredging, from the eastern bay of lake lemon. Impacts of sedimentation are of particular concern in this region of the lake due to the Bean Blossom Creek tributary depositing a large portion of non-point source sediment pollution in this area. In 2021 the LLCDC Successfully Awarded contracts for both Disposal Site Development and Hydraulic Dredging. Obtained permitting was obtained to expand the footprint of the South Shore Dr. disposal site. A substantial portion of the receiving pond construction was completed. The LLCDC is still going through the process of a challenged permit for the use of the South Shore Dr. long causeway pond. A hearing with the Indiana Natural Resource Commission is expected in April/May. The hydraulic dredging and use of the upland receiving pond is not being contested and is moving along and planned.

Indiana Department of Environmental Management-

Rule 5 Land Disturbance permit: Authorizing the creation of the South Shore Dr. upland sediment settling pond. Authorized expansion of pond and material storage

401 Water Quality Permit: Authorizing the discharge of return water from hydraulic dredging operations into Lake Lemon; additionally authorizing the disposal of hydraulic dredging spoils in the Long Causeway pond adjacent to South Shore dr.. Currently the use of the Long Causeway pond is being contested.

Army Corps of Engineers-

Nationwide Permit #27: Authorizing the restoration of Lake Lemon through the process of hydraulic dredging; additionally authorizing the enhancement of water quality through wetland creation in the Long Causeway overflow pond adjacent to South Shore dr.

Indiana Department of Natural Resource-

Construction in a Floodway Permit- Authorizing dredging activities and the creation of wetland within the Lake Lemon floodplain as indicated by the 2016 FEMA floodplain mapping.

14. INSURANCE SERVICES:

Provided by First Insurance Group, Bloomington, IN. (Lance Eberle).

15. ACCOUNTING SERVICES:

Provided by Watkins Accounting, Bloomington, IN. (Shirley Watkins).

16. LEGAL & ADVISORY SERVICES :

Attorney: Carmin Parker PC, Bloomington, IN. (Angela Parker).

Financial Advisor and continuing reporting Agent: Baker Tilly LLC, Indianapolis
(Brian Colton: Isaac Bales)

17. LLCD'S FINANCIAL INSTITUTIONS:

The Peoples State Bank, Ellettsville, IN.: Checking and Savings

Old National Wealth Management: Bond Registrar/Paying Agent