

Lake Lemon Conservancy District
2020 Annual Report
February 25, 2021

This report is a summary of significant operational objectives the LLCDC addressed in 2020.

1. BOARD OF DIRECTORS:

Two (2) LLCDC Board positions were filled in 2020. Mary Jane Brown ran unopposed and was re-elected to a four (4) year term in Sub Area III. Les Wadzinski ran unopposed and was re-elected to a four (4) year term in Sub Area V. Board officers for 2020 were Pam Dugan, Chairman; Mary Jane Brown, Vice-Chairman; and Mike Blackwell, Treasurer.

2. PERSONNEL:

Staff for 2020 included Scott Bode, Andrew Brown, and Alex Crandall as Gate Attendants; Alex Snooks, Park Operations Supervisor; Clinton Allender, Equipment Operations Supervisor; Roger Edwards, and Leroy Terrell as Push Boat Operators.

3. GATE HOUSE OPERATIONS:

2020 Gatehouse Operations began on Friday, March 20th, and ended on Sunday, November 22nd. Boat permits and launch fees collected in 2020 totaled \$151,503.00. A \$14,525.00 (10.6%) increase in revenue compared to 2019. The District hosted 10 fishing tournaments in 2020.

4. RIDDLE POINT PARK:

- A. The park opened on Tuesday, May 26th, 2020. Park admissions were charged daily thru Sunday, September 13th, 2020. The season vehicle pass was \$60.00; daily park admission was \$8.00 per vehicle. Total park admissions collected were \$80,916.00. An increase in revenue of \$29,683.00 (37%) compared to 2019. This is believed to be correlated with county pools being shut down during the 2020 summer season due to COVID-19 restrictions and Lake Monroe beach closures due to Blue Green Algae blooms.
- B. The Riddle Point Park shelter was rented 8 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$1,000.00.
- C. Events hosted by the IU Women's Varsity Rowing Team, generated an additional \$400.00 in revenues.
- D. The LLCDC hosted the Independence Day Fireworks Show at Riddle Point Park on Saturday, July 4th. Heath Heady and Bill Hawkins conducted the show at a cost of \$8,000.00. Donations collected for the event totaled \$8,590.00.

5. 2020 BOND SALE

A. In order to accomplish the goals of the Sediment Management Project the LLCD held an open market bond sale in 2020. The Conservancy District Bonds of 2020 were awarded to Robert W. Baird & Co., Inc., Milwaukee, Wisconsin ("Underwriter"), at a price of \$1,200,000.00 plus original issue premium of \$22,394.10 and less an Underwriter's discount of \$34,394.10. The received funds totaled \$1,188,000.00.

6. LAKE LEMON ENHANCEMENT FUNDS

A. Monroe County Community Foundation

2020 Beginning Balance: \$9,107.62; 2020 Ending Balance: \$39,838.83

B. Brown County Community Foundation

2020 Beginning Balance: \$19,791.57; 2020 Ending Balance: \$20,154.40

7. 2020/2019 Revenue Comparison

2020 vs. 2019 Revenue Comparison			
	2019	2020	% Increase
Watercraft Permits (4000)	\$112,874.00	\$127,573.00	13.02%
launch fees (4010)	\$24,104.00	\$23,930.00	-0.72%
Marina & Club Fees (4020)	\$9,187.50	\$10,238.00	11.43%
Sublease & Access Fees (4030)	\$26,245.00	\$24,075.00	-8.27%
Property Tax- Brown Co. (4040)	\$77,774.00	\$73,507.00	-5.49%
Property Tax- Monroe Co. (4050)	\$241,253.00	\$242,903.00	0.68%
interest (4060)	\$4,728.00	\$2,813.00	-40.50%
Grants & Donation (4070)	\$14,045.00	\$13,615.00	-3.06%
Fishing Tournaments (4080)	\$900.00	\$1,150.00	27.78%
Park Reservations (4090)	\$2,400.00	\$1,000.00	-58.33%
Park Admission Fees (4100)	\$51,695.00	\$80,916.00	56.53%
Other Income (0.25)	\$5.00	\$0.25	-95.00%
Dredging & Rip-Rap (4130)	\$21,500.00	\$41,287.00	92.03%
Loan/Bond Proceeds (4140)	\$0.00	\$1,188,000.00*	
Total	\$586,710.50	\$1,829,007.25	211.74%
<i>Excluding Bond Proceeds*</i>	<i>\$586,710.50</i>	<i>\$641,007.25</i>	<i>9.25%</i>

LLCD revenue in 2020 was up \$1,242,296.75 (211.74%) when compared to 2019. \$1,188,000.00 of this can be contributed to the 2020 bond sale to fund the sediment management project. When the bond proceeds are removed to normalize annual revenue, the LLCD saw a 9.25% increase in revenue from normal/non-bond sources.

8. 2020/2019 Expense Comparison

2020 vs. 2019 Expense Comparison			
Year	Expense		% Increase
2019	\$653,143.16		
2020	\$826,099.04		26.48%
* Excluding Off-road Dump truck Fixed Asset Value (\$225,610.00)			
2019	\$653,143.16		
2020	\$600,489.04		-8.06%

LLCD expenses in 2020 were up \$172,955.88 (26.48%) when compared to 2019. An articulated dump truck was purchased for the price of \$225,610.00. This purchase has been added to the LLCD’s fixed asset inventory. When operating expenses are normalized by accounting for the increase in fixed asset inventory/value, LLCD operating expenses saw a reduction of \$52,654.12 (-8.06%).

9. 2020 AQUATIC PLANT MANAGEMENT:

Lake Lemon, 2020 Treatment Summary

Date	Acres Treated	Targeted Vegetation	Products Applied
6/5/20	36.27	Submersed	ProcellaCOR, Aquathol & Clipper
7/20/20	8.22	Submersed	Aquathol & Clipper
7/20/20	23.85	Lotus/Spatterdock	AquaPRO
8/10/20	23.85	Lotus/Spatterdock 2 nd Treatment	AquaPRO

LLCD received a 50% match \$5,000 maintenance grant from IDNR’s LARE program for treatment of Eurasian watermilfoil areas in 2020. An initial survey was completed by the LLCD Manager on May 13th, and a similar acreage to that mapped in 2019 was marked for treatment. A total of 36.27 acres of Eurasian watermilfoil were treated on June 5th with ProcellaCOR herbicide (Figure 2). In addition, 8.22 acres of pondweed and other mixed native plants were treated with Aquathol and Clipper herbicides on July 20th (Figure 3). A treatment for emergent vegetation was also completed on July 20th. A total of 23.85 acres of spatterdock and lotus were treated with AquaPRO (Figure 4). A pre-planned, third application was completed on August 10th for touch up applications to control American lotus and spatterdock that remained in the previously treated areas.

10. 2020 WATER TESTING:

- A. Indiana University’s School of Public and Environmental Affairs (SPEA) conducted lake wide testing during 2020. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2020 results will be presented in Spring 2021. All previous reports may be found on our 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.

11. SHORELINE PROJECT PERMITS:

- A. Eight (8) permits were issued to lake freeholders in 2020. These projects dealt primarily with shoreline erosion control/improvements, dock configurations, and drainage projects. Since 1996, 391 shoreline permits have been issued to Conservancy freeholders.

12. 2020 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, 7,651 cubic yards of sediment had been removed from the lake. This includes 5,555 cubic yards from Dorothy Lane, 596 cubic yards from zone 136 in the Chitwood Channels, and 1,500 cubic yards removed from private projects. After the on-water operations were ended, efforts focused on equipment maintenance and South Shore Drive disposal site development.

A Summary of 2020 Lake Lemon Enhancement, Operational Costs are as follows:

2020 Barge Operation Staff Costs

Operation Sub-Category	Position (Line Item)	Hours	Annual Expenditure
LLCD Dredging	Equipment Operations Supervisor (6002)	Salaried	\$40,000.00
	Assistant Dredger (6113)	759	\$9,234.75
	Total		\$49,234.75
LLCD Other*	Equipment Operations Supervisor (6002)	Salaried	N/A
	Assistant Dredger (6114)	396	\$9,226.00
	Total	822	\$9,226.00
LLCD Private	Equipment Operations Supervisor (6002)	Salaried	N/A
	Assistant Dredger (6116)	89.50	\$1,868.50
	Total	179.50	\$1,868.50
Barge Operation staff Total			\$60,329.25

* 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

2020 Barge Operation & Equipment Operating Costs (non-staff)			
Category	Line Item	Annual Expenditure	
Regular Gas	6200	\$5,005.07	
Diesel	6210	\$5697.66	
Dredging Supplies	6251	\$12,141.29	
Dredging Equipment Maintenance	6541	\$12,768.80	
Equipment Rental	6542	\$27,226.26	
Disposal Site Preparation	6661	\$16,601.43	
Off-Road Articulated Dump Truck Purchase*		\$225,610.00*	
Non-staff Total (Excluding Fixed Assets)		\$79,440.51	
*fixed asset			

2020 Private Dredging/Rip-Rap Summary		
District (# Private Dredging Jobs)	Yardage Removed	Project Cost* (Billed)
District V(3)	1,000 Cubic Yards	\$15,000.00
District VII (1)	400 Cubic Yards	\$6,000.00
District (#of Private Rip-Rap Jobs)	Linear Feet	Billed
District I(1)	100'	\$800.00
District II(1)	100'	\$3,000.00
District III(1)	325'	\$6,000.00
District IV(4)	460'	\$10,487.00
Total Private Jobs		Total Private Revenue
11		\$41,287.00

*Project Cost (Billed) - refers to the final invoice 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 2020. 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 2020 the LLCDC successfully obtained funding for the project through the issuance of bonds, competitively bid the hydraulic dredging operations and disposal site earthwork construction, purchased an articulated off-road carrier truck, and have obtained and/or substantially completed requirements for the following permits needed to begin the work:

Indiana Department of Environmental Management-

Rule 5 Land Disturbance permit: Authorizing the creation of the South Shore Dr. upland sediment settling pond.

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 overflow pond adjacent to South Shore dr.

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).

Bond Council: Ice Miller LLP, Indianapolis (Patricia Zelmer)

Financial Advisor: 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