

Lake Lemon Conservancy District
2019 Annual Report
February 27, 2020

This report is a summary of significant operational objectives the LLCD addressed in 2019.

1. BOARD OF DIRECTORS:

One (1) LLCD Board positions were filled in 2019. Mike Blackwell ran unopposed and was elected to a four (4) year term in Sub Area VII. Board officers for 2019 were Pam Dugan, Chairman; Mary Jane Brown, Vice-Chairman; and Mike Blackwell, Treasurer.

2. PERSONNEL:

Staff for 2019 included Scott Bode, Andrew Brown, Alex Crandall and Matt Hopkins as Gate Attendants; James Schreiner, Lake Patrol; Alex Snooks, Operations Supervisor; Levi Warthan, Clinton Allender, Barge Operator; Cody Strickler, Caleb Sullivan, Roger Edwards, and Branson Gilliland as Push Boat Operators.

3. GATE HOUSE OPERATIONS:

The 2019 boating season started on Friday, March 22nd, and ended on Monday, November 25th. Boat permits and launch fees collected in 2019 totaled \$135,296.06. A \$5,952.06 increase in revenue compared to 2018. The District hosted 16 fishing tournaments in 2019.

4. 2019 AQUATIC PLANT MANAGEMENT:

Lake Lemon, 2019 Treatment Summary

Date	Acres Treated	Targeted Vegetation	Products Applied
6/14/19	51.1	Submersed	ProcellaCOR, Aquathol & Clipper
7/29/19	27.6	Lotus/Spatterdock	AquaPRO

LLCD received a 50% match \$5,000 maintenance grant from IDNR's LARE program for treatment of Eurasian watermilfoil areas in 2019. Eurasian watermilfoil growth started a couple weeks later this season than it did in 2018. An initial survey was completed on June 6th and found dense Eurasian watermilfoil in several areas of the lake; however, beds were patchier and more fragmented compared to 2018. A total of 36.1 acres of Eurasian watermilfoil were treated on June 14th with ProcellaCOR herbicide. In addition, 15 acres of pondweed and other mixed native plants were treated with Aquathol and Clipper herbicides (Figure 2). A treatment for emergent vegetation was completed on July 29th. A total of 27.6 acres of spatterdock and lotus were treated with AquaPRO (Figure 3). A pre-planned, third application was completed on August 16th for touch up applications to control 21.5 acres of American lotus and spatterdock that remained in the previously treated areas. These treatments are summarized in Table 2.

5. 2019 WILDLIFE CONTROL:

The LLCD received a nuisance wildlife permit from DNR, for the treatment of resident Canada goose nests and eggs. 16 nests were treated on Cemetery Island in Monroe County.

6. 2019 WATER TESTING:

- A. Indiana University's School of Public and Environmental Affairs (SPEA) conducted lake wide testing during 2019. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2019 results will be presented in Spring 2020. 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. State Risk Thresholds were exceeded once during the 2019 season. Resulting in the beach being closed from August 22nd through August 29th.

7. RIDDLE POINT PARK:

- A. The park opened on Friday, May 24th, 2019. Park admissions were charged daily thru Monday, September 2nd, 2019. The season vehicle pass was \$60.00; daily park admission was \$7.00 per vehicle. Total park admissions collected were \$51,233.00. An increase in revenue of \$4,895.00 compared to 2018.
- B. The Riddle Point Park shelter was rented 18 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$2,000.00.
- C. Events hosted by the IU Women's Varsity Rowing Team, generated an additional \$400.00 in revenues.
- D. The LLCD Board hosted the Independence Day Fireworks Show at Riddle Point Park on Friday, July 5th. Heath Heady and Bill Hawkins conducted the show at a cost of \$8,000.00. Donations and contributions collected for the event totaled \$8,855.00

8. SHORELINE PROJECT PERMITS:

- A. Three (3) permits were issued to lake freeholders in 2019. These projects dealt primarily with shoreline erosion control, and minor shore-line improvements. Since 1996, 383 shoreline permits have been issued to Conservancy freeholders.

9. 2019 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 was ended on December 13th. As of December 13th, 15,329 cubic yards of sediment had been removed from the lake. This includes 11,911 cubic yards from zones 136 and 138 in the Chitwood Channels, and 1,489 cubic yards in zone 125 at The Marina.

A Summary of 2019 Barge Operation Costs are as follows:

**I. ATTACHMENT A- STAFF COSTS: 2019 LLCD (DREDGING);
LLCD (OTHER); LLCD (PRIVATE)**

**II. ATTACHMENT B- 2019 BARGE OPERATING NON-STAFF
COSTS**

III. ATTACHMENT C- 2019 LLCD PRIVATE WORK SUMMARY

10. INSURANCE SERVICES:

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

11. ACCOUNTING SERVICES:

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

12. LEGAL SERVICES:

Provided Carmin Parker PC, Bloomington, IN. (Angela Parker).

13. LLCD'S FINANCIAL INSTITUTION:

The Peoples State Bank, Ellettsville, IN.

Attachment A

2019 Barge Operation Staff Costs

Operation Sub-Category	Position (Line Item)	Hours	Annual Expenditure
LLCD Dredging	Dredger (6111)	458	\$23,705.50
	Assistant Dredger (6113)	759	\$12,762.00
	Total	1,217	\$36,467.50
LLCD Other*	Dredger (6112)	426	\$14,964.48
	Assistant Dredger (6114)	396	\$5,087.25
	Total	822	\$20,051.73
LLCD Private	Dredger (6115)	90	\$1,653.00
	Assistant Dredger (6116)	89.50	\$1,044.00
	Total	179.50	\$2,697.00
Barge Operation staff Total			\$59,216.23

* 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

Attachment B

2019 Barge Operation & Equipment Operating Costs (non-staff)

Category	Line Item	Annual Expenditure
Regular Gas	6200	\$8,383.74
Diesel	6210	\$11,954.93
Dredging Supplies	6251	\$16,761.61
Dredging Equipment Maintenance	6541	\$17,943.36
Equipment Rental	6542	\$6,630.06
Disposal Site Preparation	6661	\$12,942.53
Non-staff Total		\$74,616.23

Attachment C

2019 Private Dredging Summary

District (# of private jobs)	Yardage Removed	Project Cost* (Billed)
IV(4)	366 Cubic Yards	\$9,500.00
V (1)	800 Cubic Yards	\$12,000.00
Total 2019 Private Dredging	1,166 Cubic Yards	\$21,500.00

*Project Cost (Billed) - refers to the final invoice cost paid by freeholder; Inclusive of stone cost and labor cost (\$100.00/hr.)