

Lake Lemon Conservancy District
2017 Annual Report
February 22, 2018

This report is a summary of significant operational objectives the LLCD addressed in 2017.

1. BOARD OF DIRECTORS:

Two (2) LLCD Board positions were filled in 2017. Les Wadzinski ran unopposed and was elected to a four (4) year term in Sub Area V. Lora Schell ran unopposed and was elected to a four (4) year term in Sub Area IV. Board officers for 2017 were Pam Dugan, Chairman; Mary Jane Brown, Vice-Chairman; and Mike Blackwell, Treasurer.

2. PERSONNEL:

Staff for 2017 included Alex Snooks, Andrew O'Malia, and Matt Hopkins as Gate Attendants; James Van Tassel, Operations Supervisor (January through June); Levi Warthan, Edwin Bell, and James Walker as Barge Operators; Isaac Walls, James Schreiner and Clinton Allender as Push Boat Operators.

3. GATE HOUSE OPERATIONS:

The 2017 boating season started on Friday, March 20th, and ended on Sunday, November 12th. Boat permits and launch fees collected in 2017 totaled \$123,793.00. An \$11,464.00 reduction in revenue compared to 2016. The District hosted 10 fishing tournaments in 2017.

4. 2017 AQUATIC PLANT MANAGEMENT:

Date	Acreage	Description
5/22/17	70.2	Milfoil (<i>Renovate</i>) & Submersed (Aquathol)
6/29/17	9.2	Milfoil (<i>Renovate</i>) & Submersed (Aquathol)
	5.1	Lotus/Spatterdock (AquaPro)
7/18/17	16.8	Lotus (AquaPro)
8/10/17*		
TOTAL	100.7	

*: Touch Up Treatment

LLCD received a 50% match \$5,000 maintenance grant from IDNR's LARE program for treatment of milfoil areas in 2017. Eurasian watermilfoil growth started earlier this season than it did in the past 3 years. An initial survey was completed on May 16th and found dense milfoil in several areas of the lake. A total of 69.2 acres of milfoil was treated on May 22nd with Renovate herbicide. In addition, 1.0 acre of pondweed was treated with Aquathol herbicide. A second treatment was completed on June 29th. A total of 14.3 acres was treated, of which 9.2 acres was treated with Aquathol and 5.1 acres of spatterdock was treated with AquaPRO. A third application was completed on July 18th for control of 16.8 acres of American lotus. A second preplanned lotus touch-up treatment was completed to the same area on August 10th.

5. 2017 SHUFFLE CREEK TRESTLE REPAIR DRAWDOWN:

Due to the need for trestle footer repair, the LLCD worked with the Indiana Railroad Company and the City of Bloomington Utilities to provide dry access to the Shuffle Creek bay. A two foot lake drawdown was initiated on September 5th. Repair work was initiated on Wednesday the 20th and completed on October 4th, 2017, at which time the sluice gate was closed.

6. 2017 WILDLIFE CONTROL:

The LLCD received a nuisance wildlife permit from DNR, for the treatment of resident Canada goose nests and eggs. 17 nests were treated on Cemetery Island in Monroe County.

7. 2016 WATER TESTING:

- A. Indiana University's School of Public and Environmental Affairs (SPEA) conducted lake wide testing during 2017. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2017 results are expected in May 2018 from SPEA. 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. All tests were below the risk threshold established by the State of Indiana.

8. RIDDLE POINT PARK:

- A.** The park opened on Friday, May 26th, 2017. Park admissions were charged daily thru Monday, September 4th, 2017. The season vehicle pass was \$60.00; daily park admission was \$7.00 per vehicle. Total park admissions collected were \$44,906.00. An increase in revenue of \$4,946.00 compared to 2016.
- B.** The Riddle Point Park shelter was rented 16 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 \$2,475.00 in revenues.
- D.** The LLC Board hosted the Independence Day Fireworks Show at Riddle Point Park on Sunday July 2rd. Heath Headdy and Bill Hawkins conducted the show at a cost of \$6,500.00. Donations and contributions collected for the event totaled \$6,149.00.

9. SHORELINE PROJECT PERMITS:

- A.** Five (5) permits were issued to lake freeholders in 2017. These projects dealt primarily with shoreline erosion control, and minor shore-line improvements. Since 1996, 374 shoreline permits have been issued to Conservancy freeholders.

10. 2016 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 forced to end on Friday August 31st due to the lowering of the lake for trestle repairs. As of August 31st, 5,800 cubic yards of sediment had been removed from the lake. This includes 400 cubic yards from zone 131 on the western side of Point Idalawn, 2,000 cubic yards in zone 304 around the tip of Little Africa, and 3,400 cubic yards removed form zone 137 in the interior Chitwood Channels.

A Summary of 2017 Maintenance Costs are as follows:

**I. ATTACHMENT A- STAFF COSTS: 2017 LLCD (DREDGING);
LLCD (OTHER); LLCD (PRIVATE)**

**II. ATTACHMENT B- 2017 BARGE OPERATING NON-STAFF
COSTS**

III. ATTACHMENT C- 2017 LLCD PRIVATE WORK SUMMARY

11. INSURANCE SERVICES:

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

12. ACCOUNTING SERVICES:

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

13. LEGAL SERVICES:

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

14. LLCD'S FINANCIAL INSTITUTION:

The Peoples State Bank, Ellettsville, IN. (Ashley Hazelrig)

Attachment A

2017 Barge Operation Staff Costs

Operation Sub-Category	Position (Line Item)	Hours	Annual Expenditure
LLCD Dredging	Dredger (6111)	478	\$15,041.50
	Assistant Dredger (6113)	389	\$7,001.00
	Total	867	\$22,042.50
LLCD Other*	Dredger (6112)	391.5	\$15,599.75
	Assistant Dredger (6114)	454	\$8,009.50
	Total	845.5	\$23,609.25
LLCD Private	Dredger (6115)	81.25	\$2,893.50
	Assistant Dredger (6116)	38.5	\$712.25
	Total	119.75	\$3,605.75
Barge Operation staff Total			\$49,257.50

* LLCD Other consist of all not 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

2017 Barge Operation & Equipment Operating Costs (non-staff)

Category	Line Item	Annual Expenditure
Regular Gas	6200	\$1,033.76
Diesel	6210	\$6,569.92
Dredging Supplies	6251	\$12,146.50
Dredging Equipment Maintenance	6541	\$5,837.76
Equipment Rental	6542	\$28,860.05
Disposal Site Preparation	6661	\$11,850.32
Non-staff Total		\$66,298.30
Excavator*	6703	\$87,870.00

* Asset Purchase- Case CX-80

Attachment C

2017 Rip-Rap Summary

District (# of private jobs)	Shoreline Footage	Project Cost* (Billed)
I (2)	170'	\$4,352.42
II (1)	100'	\$2,254.90
IV (3)	525'	\$4,850.94
V (1)	115'	\$2,082.30
VI (2)	250'	\$4,451.60
Total 2017 Rip-Rap	1,160'	\$17,992.16
	Stone Cost	\$14,053.14
	Net Revenue*	\$333.27
* income-(staff cost + Stone cost)= net revenue		

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