

Lake Lemon Conservancy District
2018 Annual Report
February 26, 2019

This report is a summary of significant operational objectives the LLCD addressed in 2018.

1. BOARD OF DIRECTORS:

Two (2) LLCD Board positions were filled in 2018. Pam Dugan ran unopposed and was elected to a four (4) year term in Sub Area VI. Debra Ladyman ran unopposed and was elected to a four (4) year term in Sub Area II. Board officers for 2018 were Pam Dugan, Chairman; Mary Jane Brown, Vice-Chairman; and Mike Blackwell, Treasurer.

2. PERSONNEL:

Staff for 2018 included Alex Snooks, Andrew O'Malia, Scott Bode, and Matt Hopkins as Gate Attendants; Andrew Manley, Operations Supervisor Intern; Levi Warthan, Barge Operator; Clinton Allender, James Schreiner, Isaac Walls and Branson Gilliland as Push Boat Operators.

3. GATE HOUSE OPERATIONS:

The 2018 boating season started on Monday, March 19th, and ended on Sunday, November 19th. Boat permits and launch fees collected in 2018 totaled \$129,343.00. A \$5,550.00 increase in revenue compared to 2017. The District hosted 15 fishing tournaments in 2018.

4. 2018 AQUATIC PLANT MANAGEMENT:

Lake Lemon, 2018 Treatment Summary

| Date | Acres Treated | Targeted Vegetation | Products Applied |
|---------|---------------|--|---|
| 5/31/18 | 50.6 | Submersed | Renovate, ProcellaCOR, Aquathol & Clipper |
| 8/2/18 | 23.7 | Submersed (13.7) Lotus/Spatterdock (10) | Clipper, ProcellaCOR, AquaPRO |
| 8/16/18 | 3.5 | Lotus/spatterdock | AquaPRO |

LLCD received a 50% match \$5,000 maintenance grant from IDNR's LARE program for treatment of Eurasian watermilfoil areas in 2018. Eurasian watermilfoil growth started later this season than it did in 2017. An initial survey was completed on May 25th and found dense Eurasian watermilfoil in several areas of the lake, however bed sizes were smaller than in 2017. A total of 37.7 acres of Eurasian watermilfoil were treated on May 31st with Renovate or ProcellaCOR herbicides. In addition, 12.9 acres of pondweed and other mixed native plants were treated with Aquathol herbicide. A second treatment for submersed weeds and emergent vegetation was completed on August 2nd.

A total of 23.7 acres were treated, of which 10.9 acres of mixed natives were treated with Clipper, 1.8 acres of Eurasian watermilfoil with ProcellaCOR and 10 acres of spatterdock and lotus were treated with AquaPRO. A pre-planned, third application was completed on August 16th for touch up applications to control 3.5 acres of American lotus and spatterdock that remained in the previously treated areas.

5. 2018 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. 2018 WATER TESTING:

- A. Indiana University's School of Public and Environmental Affairs (SPEA) conducted lake wide testing during 2018. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2018 results are expected in May 2019 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.

7. RIDDLE POINT PARK:

- A. The park opened on Friday, May 25th, 2018. Park admissions were charged daily thru Monday, September 3th, 2018. The season vehicle pass was \$60.00; daily park admission was \$7.00 per vehicle. Total park admissions collected were \$46,338.00. An increase in revenue of \$1,432.00 compared to 2017.
- B. The Riddle Point Park shelter was rented 19 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$2,375.00.
- C. Events hosted by the IU Women's Varsity Rowing Team, generated an additional \$800.00 in revenues.
- D. The LLC Board hosted the Independence Day Fireworks Show at Riddle Point Park on Tuesday July 3rd. Heath Headdy and Bill Hawkins conducted the show at a cost of \$6,500.00. Donations and contributions collected for the event totaled \$7,530.00

8. SHORELINE PROJECT PERMITS:

- A. Six (6) permits were issued to lake freeholders in 2018. These projects dealt primarily with shoreline erosion control, and minor shore-line improvements. Since 1996, 380 shoreline permits have been issued to Conservancy freeholders.

9. 2018 LLC 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 LLC'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 November 16th. As of November 16th, 11,863 cubic yards of sediment had been removed from the lake. This includes 6563 cubic yards from zone 137 in the interior Chitwood Channels, and 5300 cubic yards in zone 208 at Ice Box Cove.

A Summary of 2018 Barge Operation Costs are as follows:

**I. ATTACHMENT A- STAFF COSTS: 2018 LLCDC (DREDGING);
LLCD (OTHER); LLCDC (PRIVATE)**

**II. ATTACHMENT B- 2018 BARGE OPERATING NON-STAFF
COSTS**

III. ATTACHMENT C- 2018 LLCDC 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. LLCDC'S FINANCIAL INSTITUTION:

The Peoples State Bank, Ellettsville, IN.

Attachment A

2018 Barge Operation Staff Costs

| Operation Sub-Category | Position (Line Item) | Hours | Annual Expenditure |
|-----------------------------|--------------------------|--------|--------------------|
| LLCD Dredging | Dredger (6111) | 458 | \$17,633.00 |
| | Assistant Dredger (6113) | 759 | \$15,177.00 |
| | Total | 1,217 | \$32,810.00 |
| LLCD Other* | Dredger (6112) | 426 | \$16,404.63 |
| | Assistant Dredger (6114) | 396 | \$7,915.00 |
| | Total | 822 | \$24,319.63 |
| LLCD Private | Dredger (6115) | 90 | \$3,465.00 |
| | Assistant Dredger (6116) | 89.50 | \$1,702.00 |
| | Total | 179.50 | \$5,167.00 |
| Barge Operation staff Total | | | \$62,296.63 |

* 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

2018 Barge Operation & Equipment Operating Costs (non-staff)

| Category | Line Item | Annual Expenditure |
|--------------------------------|-----------|--------------------|
| Regular Gas | 6200 | \$5,355.46 |
| Diesel | 6210 | \$12,702.02 |
| Dredging Supplies | 6251 | \$9,945.98 |
| Dredging Equipment Maintenance | 6541 | \$1,836.59 |
| Equipment Rental | 6542 | \$5,074.00 |
| Disposal Site Preparation | 6661 | \$3,364.21 |
| Non-staff Total | | \$38,278.26 |

Attachment C

2018 Rip-Rap Summary

| District (# of private jobs) | Shoreline Footage | Project Cost* (Billed) |
|---|-------------------|------------------------|
| I (4) | 213' | \$5,160.00 |
| III (1) | 184' | \$1,570.00 |
| IV (1) | 192' | \$3,820.00 |
| V I(1) | 243' | \$5,600.00 |
| VII(1) | 271' | \$4,398.85 |
| Total 2018 Rip-Rap | 1,103' | \$20,548.85 |
| | Stone Cost | \$16,353.54 |
| | Net Revenue* | \$1,144.31 |
| * 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.)