



Lake Lemon Conservancy District

Lake Lemon Conservancy District 2015 Annual Report February 3, 2016

This report is a summary of the most significant operational objectives the LLCDD addressed in 2015.

1. BOARD OF DIRECTORS:

Two (2) LLCDD Board positions were filled in 2015. Mike Blackwell ran unopposed and was elected to four (4) year term in Sub Area VII. The LLCDD Board of Directors appointed Andy Hoffman, Sub Area V, to a one year term, expiring at the 2016 Annual Meeting due to a board vacancy. Board officers for 2015 were Pam Dugan, Chairman; Sue Miller, Vice-Chairman; and Lance Eberle, Treasurer.

2. PERSONNEL:

Key staff for 2015 included Joe Hopkins, Chris Nguyen, and Alex Snooks, Gate Attendants; James Van Tassel, Lake Biologist; Levi Warthan, Barge Operator; and Isaac Walls, Push Boat Operator.

3. GATE HOUSE OPERATIONS:

The 2015 boating season started on Saturday, March 21st, and ended on Sunday, November 20th. Boat permits and launch fees collected in 2015 totaled \$139,422.00 The District hosted 28 fishing tournaments in 2015.

4. 2015 BOATING SAFETY/ENFORCEMENT:

- A. There was one boating incident on May 1st, 2015 involving a swamped Jon boat.
- B. IDNR Law Enforcement had a strong presence on the reservoir in 2015. Eight (8) boating citations, three (3) fishing citations, twenty (20) boating warning tickets, three (3) fishing warning tickets, and one (1) hunting warning ticket were issued.

5. 2015 AQUATIC PLANT MANAGEMENT:

Date	Acreage	Description	Cost
6/24/15	21.9	Milfoil (<i>Renovate</i>)	\$11,935.50
7/31/15	11.1	Milfoil (<i>Renovate</i>)	\$6,049.50
	19.4	Submersed	\$8,516.60
	8	Spatterdock	\$2,928.00
8/31/15	1.3	Milfoil (<i>Renovate</i>)	\$708.50
	2.6	Submersed	\$1,365.00
	5.5	Emergent Lotus	\$2,013.00
TOTAL	69.8		\$33,516.10
		DNR LARE Grant	-\$5,000.00
			\$28,516.10

Lake Lemon experienced large amounts of rain and debris in the spring of 2015. Our first treatment was late compared to years past likely due to the excess rain and turbidity delaying the growth of nuisance vegetation. The LLCDC's approach in vegetation control is to keep Freeholder access and main boating areas free of nuisance vegetation. Areas close to the shoreline away from homes/docks are not treated to benefit lake ecology. Throughout the season, milfoil and other submersed vegetation were treated. Once the emergent species (spatterdock and lotus) reached maturity they were treated in two part applications.

The LLCDC received \$5,000.00 from the DNR – Lake and River Enhancement Grant Program for the treatment of Eurasian Water Milfoil. Thirty Four acres of milfoil were treated with Renovate throughout the 2015 season which complied with the LARE Grant.

Overall nuisance vegetation was managed within budget for the 2015 season.

Aquatic Control, Inc treated on three occasions totaling \$33,516.10. Taking into account the \$5,000.00 received from DNR-LARE expenditures totaled \$28,516.10 (\$50,000.00 Budgeted).

6. 2014/2015 WINTER DRAWDOWN:

The LLCDC drew down the lake 3.5' for the 2014/2015 winter season. The sluice gate was opened on December 2, 2014 and shut on December 26, 2014. Due to precipitation the gate was reopened on December 30, 2014, and shut again at 40" below normal pool on January 21, 2015.

7. 2015 WILDLIFE CONTROL:

The LLCDC received permission from the IDNR, Fish and Wildlife Division to treat resident Canada Goose nests and eggs. IDNR only requires registration and a final report on how many nests were treated. In the spring, James Van Tassel, the LLCDC Lake Biologist, treated 14 nests totaling 77 eggs on Cemetery Island in Monroe County. No other accessible nesting areas were treated around the lake. It appears the treatment was effective as little to no goslings were seen around Cemetery Island. The LLCDC will continue its efforts in treating resident Canada Geese in 2016.

8. 2015 WATER TESTING:

- A. Indiana University's School of Public and Environmental Affairs (SPEA) conducted the tests. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2015 results are expected in May 2016 from SPEA. All previous reports may be found on our website.
- B. The LLCB Biologist monitored E. coli concentrations at Riddle Point Park beach once a week starting in May and ending in September. All tests were well below the risk threshold established by the State of Indiana.

9. RIDDLE POINT PARK:

- A. The park opened on Saturday, May 23rd. Park admissions were charged daily thru Monday, September 7th. The season vehicle pass was \$60.00; daily park admission was \$5.00 per vehicle. Total park admissions collected was \$30,100.00.
- B. The Riddle Point Park shelter was rented 14 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$1,750.00.
- C. Events hosted by the IU Women's Varsity Rowing Team, and the Lake Lemon Triathlon generated an additional \$2,000.00 in revenues.
- D. The LLCB Board hosted the Independence Day Fireworks Show at Riddle Point Park on July 3rd. Sky Magic Pyrotechnics, Inc, Brazil, IN, conducted the show at a cost of \$6,500.00. Donations and contributions collected for the event totaled \$6,364.00.

10. SHORELINE PROJECT PERMITS:

- A. Fifteen (15) permits were issued to lake freeholders in 2015. These projects dealt primarily with shoreline erosion control, sea wall construction, and minor shoreline improvements. Since 1996, 362 shoreline permits have been issued to Conservancy freeholders.

11. 2014 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 sediment/debris disposal site(s) development and maintenance.

These functions are accomplished through LLCD's self managed barge operation. Operation consists of two (2) seasonal employees 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; and F. Maintenance Utility Truck.

A Summary of 2014 Maintenance Functions are as follows:

- I. ATTACHMENT A- 2014 LAKE DEBRIS/STUMP REMOVAL:
FINAL FINANCIAL SUMMARY**
- II. ATTACHMENT B- FINAL FINANCIAL 2014 SHORE-LINE
STABILIZATION (RIP-RAP) SUMMARY**
- III. ATTACHMENT C- 2014 FINAL FINANCIAL SUMMARY OF
LLCD DREDGING (SEDIMENT REMOVAL)**
- IV. ATTACHMENT D- 2014 FINAL POSSOM TROT DISPOSAL SITE
PREPARATION EXPENSES**

12. INSURANCE SERVICES:

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

13. ACCOUNTING SERVICES:

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

14. LEGAL SERVICES:

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

15. LLCD'S FINANCIAL INSTITUTION:

The Peoples State Bank, Ellettsville, IN. (Johnny Lindsey)

2015 Lake Debris

Financial Summary

EXPENSES	
Staff Costs: Dredger 120 hours @ \$36.50/hr	\$4,380.00
Assistant Dredger 120 hours @ \$18.00/hr	\$2,160.00
Fuel (Estimated)	7 Gallons/hour @ \$2.13/gallon x 65 hours = \$969.15
Contractual / Rental Services	\$2,220.35
Grand Total	\$9,729.50

Note: 2014 Grand Total - \$5,237.72
2013 Grand Total - \$8,147.10

Debris Removal - East End of Long Causeway

Staff Cost	Contractual	Rental	Total
\$872.00	\$1,000.00	\$1,220.35	\$3,092.35

2014	2013
\$1,447.02	\$3,000.00

2015 Shore-Line Stabilization (Rip-Rap)

Financial Summary

Service Zone (District)	Total Tons (Rip-Rap) Stone
111 (I)	81
118 (II)	101.39
123 (IV)	142.78
128 (IV)	364.48
101 (V)	100.22
103 (V)	100.79
Total	890.66 Private 890.66

Note: 1,120 Lineal Feet of Shoreline were stabilized

Total Cost of Rip-Rap Stone: \$14,829.49
LLCD Cost of Rip-Rap Stone (CBU Property): \$0.00
Total Staff Costs: \$1,781.50 (35 Hours @ \$36.50/hour),
(28 Hours @ \$18.00/hour)
Total Fuel (estimated): \$417.48
(7 Gallons/hour @ \$2.13/gallon x 28 hours)

Total Cost: \$17,028.47
Private Cost: \$17,675.82*

*: The LLCD for 2015 did all private shoreline stabilization. This is effectively cost neutral for the LLCD.

Attachment "C"

2015 Sediment Removal

Financial Summary

Personnel Costs	Actual 2015	Budgeted 2015
Dredger 406.75 Hours @ \$36.50/Hr.	\$14,846.38	\$21,900.00
Assistant Dredger 397 Hours @ \$18.00/Hr.	\$7,146.00	\$10,800.00
Total Personnel	\$21,992.38	\$32,700.00

Supply Costs	Actual 2015	Budgeted 2015
Diesel Fuel*	\$1,228.42	\$12,000.00
Dredging Supplies	\$7,947.57	\$19,000.00
Total Supply Cost	\$9,175.99	\$31,000.00

Services & Charges	Actual 2015	Budgeted 2015
Insurance	\$9,346.00	\$9,346.00
Repair/Maintenance	\$964.24	\$7,000.00
Loan Service	\$0.00	\$46,000.00
Total Services & Charges	\$10,310.24	\$62,346.00

Grand Total	Actual 2015	Budgeted 2015
	\$41,478.61	\$126,046.00

*: Diesel tanks were full at start of season from 2014 Budget

Attachment "D"

2015 Possom Trot Disposal Site Preparation

Financial Summary

Category	Cost
2015 Expenses	
Staff Dredger	\$6,570.00 (180 Hours @ \$36.50/hr)
Assistant Dredger	\$1,620.00 (90 Hours @ \$18.00/hr)
Total Staff Costs	\$8,190.00
Supplies Stone	\$1,507.72
Erosion Control (silt fencing)	\$473.00
Diesel (estimated) (7 gal/hr @ \$2.13/gal x 90 hrs)	\$1,341.90
Contractual Equipment Rental	\$818.90
Total Supply/Contractual Costs	\$4,141.52
2015 Grand Total	\$12,331.52

Other Staff Costs

Equipment Maintenance

Dredger (75 Hours @ \$36.50/hr) = \$2,737.50
 Assistant Dredger (10 Hours @ \$18.00) = \$180.00
 Total = **\$2,917.50**

Private Dredging

Dredger (0 Hours @ \$36.50/hr) = \$0.00
 Assistant Dredger (0 Hours @ \$18.00/hr) = \$0.00
 Total = **\$0***

Office/Park Work

Dredger (80 Hours @ \$36.50/hr) = \$2,920.00
 Assistant Dredger (20 Hours @ \$18.00/hr) = \$360.00
 Total = **\$3,280.00**

*: Private Dredging is effectively cost neutral for the LLCD