



# *Lake Lemon Conservancy District*

**Lake Lemon Conservancy District**  
2014 Annual Report  
February 4, 2015

This report is a summary of the most significant operational objectives the LLCDD addressed in 2014.

**1. BOARD OF DIRECTORS:**

Three (3) LLCDD Board positions were filled in 2014. Sue Miler ran unopposed and was elected to a four (4) year term in Sub Area II. Term will expire in 2018. Pam Dugan ran unopposed and was re-elected for another four (4) year term in Sub Area VI. Term will expire in 2018. The LLCDD Board of Directors appointed Kim Mayer, Sub Area III, to a one year term, expiring at the 2015 Annual Meeting. Board officers for 2014 were John Schell, Chairman; Pam Dugan, Vice-Chairman; and Lance Eberle, Treasurer.

**2. PERSONNEL:**

Key staff for 2014 included Joe Hopkins, Chris Nguyen, and Connor Creek, Gate Attendants; James Van Tassel, Lake Biologist; Levi Warthan, Barge Operator; and Clinton Allender, Push Boat Operator.

**3. GATE HOUSE OPERATIONS:**

The 2014 boating season started on Saturday, March 15<sup>th</sup>, and ended on Sunday, November 30<sup>th</sup>. Boat permits and launch fees collected in 2014 totaled \$136,241.00. The District hosted 29 fishing tournaments in 2014.

**4. 2014 BOATING SAFETY/ENFORCEMENT:**

- A. There were no boating accidents reported to LLCDD or IDNR Law Enforcement in 2014.
- B. IDNR Law Enforcement had a visible presence on the reservoir in 2014. Ten (10) citations and twenty seven (27) warning tickets were issued.

## 5. 2014 AQUATIC PLANT MANAGEMENT:

Date	Acreage	Description	Cost
6/12/14	7.8	Emergent Spatterdock	\$2,800.20
	25.7	Submersed Vegetation – <i>Aquathol</i>	\$11,051.00
	8.1	Eurasian Water Milfoil - <i>Renovate</i>	\$4,333.50
7/1/14	13.5	Submersed Vegetation – <i>Aquathol</i>	\$6,345.00
	3.6	Eurasian Water Milfoil - <i>Renovate</i>	\$1,926.00
7/23/14	11.2	Emergent Spatterdock & American Lotus	\$4,020.80
	4.6	Eurasian Water Milfoil - <i>Renovate</i>	\$2,737.00
8/20/14	4.7	Submersed Vegetation – <i>Aquathol</i>	\$2,209.00
	5.4	Eurasian Water Milfoil - <i>Renovate</i>	\$2,889.00
<b>TOTAL</b>	<b>84.6</b>		<b>\$38,311.50</b>
		DNR-LARE Grant	-\$5,000.00
			<b>\$33,311.50</b>

Lake Lemon experienced an unusually cold and wet winter/spring. Ice covered most of the lake until early March. The delay in warm weather caused nuisance vegetation to appear a few weeks later than normal. 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 was awarded a \$5,000.00 DNR-LARE grant for Exotic Vegetation Treatment in 2014. The LLCDC treated 21.8 acres of Milfoil this season, which complied with the grant. The LLCDC will receive \$5,000.00 towards the 21.8 acres of milfoil treated.

Last year the bay East of Reed Point experienced a large amount of Eurasian water milfoil. With the help of a DNR-LARE grant from 2013, almost all of the milfoil in this bay was eradicated. Renovate, a systemic chemical, was used in this treatment and can provide up to a two year kill. No treatments were needed this year in the bay most likely from the effectiveness of renovate from 2013.

Overall nuisance vegetation was well managed throughout the 2014 season. Aquatic Control, Inc treated on four occasions totaling \$38,311.50. Taking into account the \$5,000.00 to be received from DNR-LARE expenditures totaled \$33,311.50 (\$50,000.00 Budgeted).

## 6. 2013/2014 WINTER DRAWDOWN:

There was no drawdown for the 2013/2014 Winter Season. Ice cover was significant (up to 10 inches) during January and February 2014. Two flood events (2-4') occurred during the winter season which caused damage to several shorelines and docking systems due to ice movement. These flood events also left an abnormally high amount of debris on Freeholders' shoreline, most notably on the north shore. The sluice gate was opened and shut on March 24, 2014 to test the system.

## **7. 2014 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 18 nests totaling 113 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 2015.

## **8. 2014 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 2014 results are expected in May 2015 from SPEA. All previous reports may be found on our website.
- B.** The LLCDC 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 24<sup>th</sup>. Park admissions were charged daily thru Monday, September 1<sup>st</sup>. The season vehicle pass was \$60.00; daily park admission was \$5.00 per vehicle. Total park admissions collected was \$27,340.00.
- B.** The Riddle Point Park shelter was rented 10 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$1,250.00.
- C.** Events hosted by the IU Women's Varsity Rowing Team, and the Lake Lemon Triathlon generated an additional \$2,775.00 in revenues.
- D.** The LLCDC Board hosted the Independence Day Fireworks Show at Riddle Point Park on July 4<sup>th</sup>. Sky Magic Pyrotechnics, Inc, Brazil, IN, conducted the show at a cost of \$6,500.00. Donations and contributions collected for the event totaled \$7,032.69.

## **10. SHORELINE PROJECT PERMITS:**

- A.** Thirteen (13) permits were issued to lake freeholders in 2014. These projects dealt primarily with shoreline erosion control, sea wall construction, and minor shore-line improvements. Since 1996, 347 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)

**2014 Lake Debris**

**Financial Summary**

<b>EXPENSES</b>	
<b>Staff Costs:</b> <b>Dredger</b> 58.5 hours @ \$36/hr	\$2,106.00
<b>Assistant Dredger</b> 55.5 hours @ \$17.50/hr	\$971.25
<b>Fuel (Estimated)</b>	7 Gallons/hour @ \$3.23/gallon x 45 hours= \$1,017.45
<b>Contractual / Rental Services</b>	\$1,143.02
<b>Grand Total</b>	<b>\$5,237.72</b>

Note: 2013 Grand Total - \$8,147.10

**Debris Removal - East End of Long Causeway / Point Idalawn**

<b>Staff Cost</b>	<b>Contractual</b>	<b>Rental</b>	<b>Total</b>
\$304.00	\$700.00	\$443.02	<b>\$1,447.02</b>

<b>2014</b>	<b>2013</b>
\$1,447.02	\$3,000.00

**2014 Shore-Line Stabilization (Rip-Rap)**

**Financial Summary**

Service Zone (District)	Total Tons (Rip-Rap) Stone	Total Linear Feet
111 (I)	160.09	102'
122 (IV)	99.82	130'
123 (IV)	160.25	171'
125 (IV)*	60.33*	180'*
127 (IV)	101.86	117'
<b>Total</b>	60.33 City 522.02 Private <b>582.35</b>	180' City 620' Private <b>700'</b>

\*: CBU Shore-line

Total Cost of Rip-Rap Stone: \$9,201.13  
 LLCD Cost of Rip-Rap Stone (CBU Property): \$953.21  
 Total Staff Costs: \$1,551.50 (29 Hours @ \$36/hour),  
 (29 Hours @ \$17.50/hour)  
 Total Fuel (estimated): \$655.69  
 (7 Gallons/hour @ \$3.23/gallon x 29 hours)

**Total Cost: \$11,417.32**  
**Private Cost: \$10,547.92\***

\*: The LLCD for 2014 primarily did private shoreline stabilization. This is effectively cost neutral for the LLCD.

Attachment "C"

**2014 Sediment Removal**

**Financial Summary**

<b>Personnel Costs</b>	<b>Actual 2014</b>	<b>Budgeted 2014</b>
Dredger 381 Hours @ \$36/Hr.	\$13,716.00	\$21,600.00
Assistant Dredger 355.5 Hours @ \$17.50/Hr.	\$6,221.25	\$10,500.00
<b>Total Personnel</b>	<b>\$19,937.25</b>	<b>\$32,100.00</b>

<b>Supply Costs</b>	<b>Actual 2014</b>	<b>Budgeted 2014</b>
Diesel Fuel	\$5,695.76	\$14,000.00
Dredging Supplies	\$16,855.13	\$9,000.00
<b>Total Supply Cost</b>	<b>\$22,550.89</b>	<b>\$23,000.00</b>

<b>Services &amp; Charges</b>	<b>Actual 2014</b>	<b>Budgeted 2014</b>
Insurance	\$8,356.00	\$8,356.00
Repair/Maintenance	\$4,557.24	\$7,000.00
Loan Service	\$69,141.00	\$46,000.00
<b>Total Services &amp; Charges</b>	<b>\$82,054.24</b>	<b>\$61,356.00</b>

<b>Grand Total</b>	<b>Actual 2014</b>	<b>Budgeted 2014</b>
	<b>\$124,542.38</b>	<b>\$116,456.00</b>

Attachment "D"

**2014 Possom Trot Disposal Site Preparation**

**Financial Summary**

<b>Category</b>	<b>Cost</b>
<b>2014 Expenses</b>	
<b>Staff</b> Dredger	\$7,587.00 (210.75 Hours @ \$36.00/hr)
Assistant Dredger	\$2,940.00 (168 Hours @ \$17.50/hr)
<b>Total Staff Costs</b>	<b>\$10,527.00</b>
<b>Supplies</b> Stone	\$257.92
Diesel (estimated) (7 gal/hr @ \$3.23/gal x 110 hrs)	\$2,487.10
<b>Contractual</b> Equipment Rental	\$1,198.00
<b>Total Supply/Contractual Costs</b>	<b>\$3,943.02</b>
<b>2014 Grand Total</b>	<b>\$14,470.02</b>

**Other Staff Costs**

Equipment Maintenance

Dredger (83.5 Hours @ \$36.00/hr) = \$3,006.00  
 Assistant Dredger (34.75 Hours @ \$17.50) = \$608.13  
 Total = **\$3,614.13**

Private Dredging

Dredger (24 Hours @ \$36.00/hr) = \$864.00  
 Assistant Dredger (24 Hours @ \$17.50/hr) = \$420.00  
 Total = **\$1,284.00\***

Office Work

Dredger (23 Hours @ \$36.00/hr) = \$828.00  
 Assistant Dredger (4 Hours @ \$17.50/hr) = \$70.00  
 Total = **\$898.00**

\*: Private Dredging is effectively cost neutral for the LLCD