

AGENDA

WALLED LAKE LAKE IMPROVEMENT BOARD MEETING

**May 16, 2018
2:00 PM**

**Novi Civic Center
45175 W. Ten Mile Road**

- I. Call Meeting to Order
- II. Roll Call
- III. Public Comment
- IV. Approval of Minutes of November 14, 2017 meeting
- V. Treasurer's Report and 2017 Annual Report
- VI. Discussion of 2018 Treatments
- VII. Request for financial support by the Chairman for attendance to the Michigan Lakes and Streams Associations Conference in Thompsonville, Michigan on April 20 and April 21, 2018
- VIII. City of Novi Department of Parks, Recreation and Cultural Services' Lakeshore Park and Pavilion Shore Park shoreline erosion project
- IX. Goose Nest Destruction Program
- X. Public Comment
- XI. Other Business
- XII. Adjournment

Please visit www.cityofnovi.org/lakeboard for additional information

WALLED LAKE
LAKE IMPROVEMENT BOARD
MEETING MINUTES
November 14, 2017

The meeting of the Lake Improvement Board for Walled Lake was held in the Activities Room at the Novi Civic Center at 45175 10 Mile Road on November 14, 2017. The meeting was called to order by Dave Galloway, Chairman, at 10:10 A.M.

Present:

Hugh Crawford, Oakland County Board of Commissioners' Representative
Dave Galloway, Riparian Owner Representative (Chairperson)
Karen Warren, Oakland County Water Resource Commissioner's Representative

Absent:

Casey Ambrose, City of Walled Lake Representative
Megan Mikus, City of Novi Representative (Secretary-Treasurer)

Also Present:

Victor Cardenas, City of Novi Assistant City Manager
Cortney Hanson, City of Novi City Clerk
Mark Roberts, Attorney, Secrest Wardle

Public comment: None

**Moved by Crawford, Supported by Warren; CARRIED 3-0 (Absent: Ambrose, Mikus):
To approve the Minutes of September 19, 2017 meeting.**

Novi Assistant City Manager Cardenas presented the Treasurer's Report for the third quarter of 2017. The balance on hand as of September 30, 2017 was \$201,803.65.

**Moved by Crawford, Supported by Galloway; CARRIED 3-0 (Absent: Ambrose, Mikus):
To approved the third quarter 2017 Treasurer's report.**

The Board discussed the contract in place with Savin Lake and continuing through 2020, at which point they would consider going to bid again. Mr. Galloway explained that Member Mikus was trying to track down paperwork through Savin Lake, including their insurance and a copy of the MDEQ permit. He explained there was also concern about the timeliness of the notice of treatment. The present members concluded the notice has been satisfactory because it is mostly dependent upon the weather which cannot be predicted. Member Galloway described one situation where the Parks, Recreation and Cultural Services Department was not notified and had the beach open during a treatment. That will be addressed to ensure everyone gets notice accordingly. The consensus was to continue with Savin Lake through 2020 once the terms of the contract are confirmed.

There was discussion about going to bid in the future and if there was a local company that could accommodate it. Member Galloway explained most are too small and do not offer all of the services Walled Lake requires, like harvesting and treatments. He explained that Savin Lake also has sonar equipment, GPS and computers on board their boats that provide excellent data.

Member Galloway discussed the budget for 2018 and explained in addition to the and herbicide treatments and possibly harvesting, they were planning to do a BioBase Survey. A BioBase Survey had not been done for three years mostly due to weather conditions. He spoke about the areas that needed treatments and other areas that just need maintenance.

Member Crawford asked about the 3% increase in the contract. Mr. Roberts said the contract called for a 3% increase each year of the project, which was from 2015-2019.

**Moved by Crawford, Supported by Warren; CARRIED 3-0 (Absent: Ambrose, Mikus):
The approve the 2018 Budget as proposed.**

Public comment: None

ADJOURNMENT: There being was no further business to come before the Lake Improvement Board; the meeting was adjourned at 10:43 A.M.

The Board next meeting was tentatively scheduled for May 15, 2018 at 10:00 AM.

Megan Mikus, Secretary-Treasurer

DRAFT

**WALLED LAKE IMPROVEMENT BOARD
QUARTERLY TREASURER'S REPORT**

December 31, 2017

BALANCE ON HAND: 10/01/17 \$ 202,350.24						
INCOME		<u>Quarter</u>	<u>YTD</u>	<u>Budget</u>	<u>Variance</u>	<u>Notes</u>
Assessments (City of Novi)	\$	524.10	\$ 43,688.18	\$ 42,014.79	\$ 1,673.39	1
Assessments (City of Walled Lake)	\$	-	\$ 25,421.39	\$ 25,421.00	\$ 0.39	2
TOTAL INCOME	\$	524.10	\$ 69,109.57	\$ 67,435.79	\$ (1,673.78)	
EXPENSES						
Harvesting and Herbicide Treatments	\$	34,336.90	\$ 75,553.78	\$ 80,000.00	\$ (4,446.22)	
Lake Management Consultant	\$	-	-	\$ 5,000.00	\$ (5,000.00)	
Permit Fee	\$	1,500.00	\$ 1,500.00	\$ 2,000.00	\$ (500.00)	3
Administrative & Legal	\$	590.80	\$ 642.80	\$ 1,050.00	\$ (407.20)	
Other	\$	764.43	\$ 764.43	-	\$ 764.43	
TOTAL EXPENSES	\$	37,192.13	\$ 78,461.01	\$ 88,050.00	\$ (9,588.99)	
BALANCE ON HAND: 12/31/17 \$ 165,682.21						

Notes

- 1 Novi payment includes assessments paid to date to Novi
- 2 Walled Lake has paid the assessment in full
- 3 Permit for the 2018 season (Approved in the 2018 Budget)

EXPENSE DETAIL

<u>Description</u>	<u>Invoice No.</u>	<u>Vendor</u>	<u>Amount</u>
Legal Services through 9/30/2017	1318205	Secret Wardle	473.80
Conference Reimbursement	20170929-123034	Galloway, David	764.43
Herbicide Treatment	3833	Savin Lake Services	34,336.90
Legal Services through 10/31/17	1320188	Secret Wardle	117.00
MDEQ Permit Fee (2018)	3894	Savin Lake Services	1,500.00

Submitted by Megan K Mikus
Megan Mikus, Secretary/Treasurer
Walled Lake Improvement Board

**WALLED LAKE IMPROVEMENT BOARD
2017 ANNUAL REPORT**

BALANCE ON HAND:	01/01/17	\$175,251.49
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INCOME	Annual Total	Notes
Assessments (City of Novi)	\$ 43,470.34	1
Assessments (City of Walled Lake)	\$ 25,421.39	2
TOTAL INCOME	\$ 68,891.73	

EXPENSES		
Harvesting and Herbicide Treatments	\$ 75,553.78	
Lake Management Consultant	\$ -	
Permit Fee	\$ 1,500.00	
Administrative & Legal	\$ 642.80	
Other	\$ 764.43	
TOTAL EXPENSES	\$ 78,461.01	

BALANCE ON HAND:	12/31/17	\$165,682.21
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Notes

- 1 Novi payment includes assessments paid to date to Novi
- 2 Walled Lake has paid the assessment in full

EXPENSE DETAIL FOR 2017

<u>Description</u>	<u>Invoice No.</u>	<u>Vendor</u>	<u>Amount</u>
Herbicide Treatment	3578	Savin Lake Services	4,975.00
Herbicide Treatment	3635	Savin Lake Services	8,540.00
Herbicide Treatment	3711	Savin Lake Services	16,133.13
Herbicide Treatment	3750	Savin Lake Services	11,568.75
Legal Services through 8/31/2017	1316501	Secrest Wardle	52.00
Legal Services through 9/30/2017	1318205	Secrest Wardle	473.80
Conference Reimbursement	20170929-123034	Galloway, David	764.43
Herbicide Treatment	3833	Savin Lake Services	34,336.90
Legal Services through 10/31/17	1320188	Secrest Wardle	117.00
MDEQ Permit Fee (2018)	3894	Savin Lake Services	1,500.00
TOTAL EXPENSES			\$ 78,461.01

Submitted by Megan K Mikus
Megan Mikus, Secretary/Treasurer
Walled Lake Improvement Board

**WALLED LAKE IMPROVEMENT BOARD
 QUARTERLY TREASURER'S REPORT
 March 31, 2018**

BALANCE ON HAND: 12/31/17 \$165,682.21

INCOME	<u>Quarter</u>	<u>YTD</u>	<u>Budget</u>	<u>Variance</u>	<u>Notes</u>
City of Novi Assessments	\$ 39,318.44	\$ 39,318.44	\$42,014.79	\$ (2,696.35)	1
City of Walled Lake Assessments	\$ 25,421.39	\$ 25,421.39	\$25,421.00	\$ 0.39	2
TOTAL INCOME	\$ 64,739.83	\$ 64,739.83	\$ 67,435.79	\$ (2,695.96)	
EXPENSES					
None	\$ -	\$ -	\$ 87,500.00	\$ (87,500.00)	
TOTAL EXPENSES	\$ -	\$ -	\$ 87,500.00	\$ (87,500.00)	

BALANCE ON HAND: 03/31/18 \$230,422.04

Notes

- 1 Novi payment includes assessments paid to date to Novi
- 2 Walled Lake has paid the assessment in full

Submitted by Megan K Mikus
 Megan Mikus, Secretary/Treasurer
 Walled Lake Improvement Board



3088 Hottis Rd. Hale, MI 48739 Hale: 989.728.2200 Clare: 989.386.0600 Fax: 989.516.5900

October 24, 2017

Walled Lake Improvement Board
Attn: David Galloway/ Megan Mikkus
c/o City of Novi Clerk's Office
45175 W Ten Mile Road
Novi, MI 48375

2018 Recommendations and cost analysis

Looking forward into the 2018 season Savin Lake Services recommends to do another whole lake BioBase survey in the Spring around the middle of May depending on how early the ice is out. This survey will be a helpful tool in identifying areas of the lake that have Eurasian Watermilfoil and Curly leaf pondweed. We also recommend continuing the water quality program for trending analysis.

2018 BioBase survey and water quality program = \$4,975.00

In late May to early June Savin Lake Services will plan a treatment for Curly Leaf pondweed and any remaining Eurasian Watermilfoil after the results of the Biobase survey are analyzed. We anticipate this treatment to be around 60 – 80 acres of Curly Leaf pondweed (based on treatment records in the past years) with contact herbicides. Also during this treatment, we anticipate to do approximately 10-15 acres of systemic control of Eurasian Watermilfoil.

60 -80 acre of contact herbicides @ \$251.32/acre = \$15,079.20 - \$20,105.60

10 -15 acres of systemic Milfoil control @ \$626.99/acre = \$6,269.90 - \$9,404.85

Total projected cost range for first treatment in 2018 = \$21,349.10 - \$29,510.45

Then in late June – early July we recommend treating the entire shoreline with algaecides for filamentous algae if necessary. After treating large amounts of vegetation as they are dying off they can produce a lot of algal blooms that usually float into the shoreline areas. The water temperatures are rapidly warming during this time and can also be a contributing factor in the large amount of algal blooms. Also during this timeframe, we would recommend providing some relief and completing a treatment for the riparian owners on the north and west shorelines of the lake for native weeds in and around their docks. During this treatment we will evaluate the Starry Stonewort and treat it also if needed.

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120 acres of shoreline algae control @ \$56.28/acre = \$6,753.60
30 - 40 acres of contact herbicides @ \$251.32/ acre = \$7,539.60 - \$10,052.80
15 -20 acres of Starry Stonewort treatment @ \$291.75/acre = \$4,376.25 - \$ 5,835.00

Total projected cost range for second treatment = \$18,669.45 – \$22,641.40

In August, we will complete another treatment for Starry Stonewort if needed, and complete a touch up treatment for native vegetation on the north and west shore lines in and around docks again.

15 - 20 acres of Starry Stonewort treatment @ \$291.75/acre = \$4,376.25 - \$ 5,835.00
15 - 20 acres of contact herbicides @ \$251.32/acre = \$3,769.80 - \$5,026.40

Total projected cost range for August treatment = \$8,146.05 - \$10,861.40

If needed Savin Lake Services would like to conduct another fall systemic treatment for Eurasian Watermilfoil. This treatment may not be necessary with the 2017 fall treatment and 2018 spring treatment being completed but for budgetary purposes I think it's a good idea to plan for it just in case.

10 -15 acres of systemic Milfoil control @ \$626.99/acre = \$6,269.90 - \$9,404.85

2018 DEQ permit cost = \$1,500.00

Total projected cost range for 2018 = \$60,909.50 - \$78,893.10

Please keep in mind that these are approximate numbers based on treatment record in the past and survey evaluations completed this year. We expect the total overall cost to fall within these parameters. There are many variables in a lakes ecosystem that can change from year to year that make it hard to give an exact number. These figures should get us real close and should not exceed the higher end of the scale. Savin Lake Services will only recommend and treat what we feel is needed to improve the overall health of the lake, and make it more desirable for use by the riparian owners. Our goal is to keep the non-native and exotic plant communities in check throughout the entire lake and treat nuisance natives in and around riparian owner's docks and swim areas to make those areas more desirable for use.

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Savin Lake Services appreciates your business and we look forward to working with the Walled Lake Improvement Board to continuously improve the overall health of Walled Lake in the future. If you have any questions, comments, or require any additional information please feel free to contact us.

Sincerely,

Paul Barber – Operations Manager

Savin Lake Services Inc.

3088 Hottis Road

Hale, Michigan 48739

Hale Office: 989-728-2200

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Michigan Lake and Stream Associations

57th Annual Conference

April 20th & 21st, 2018

Crystal Mountain Resort
Thompsonville, Michigan



Conference Agenda Friday, April 20th, 2018

8:00 AM - 6:00 PM	General Conference Registration	Conference Area
10:00 AM - Noon	<p>Welcome and Opening Remarks ML&SA Treasurer Beth Cook Executive Director Scott Brown</p> <p><u>Keynote Speakers</u> Grenetta Thomassey Watershed Policy Director Tip of Mitt Watershed Council</p> <hr/> <p>Vicki Springstead Chairperson Higgins Lake Foundation</p>	NW Territories B & C
Noon - 1:30 PM	Lunch	James Bay
1:30 PM - 2:30 PM	<p>General Topic Breakout Sessions</p> <p>"Stewardship...It Might Take a Lake Association" Paul J. Sniadecki ML&SA Board of Directors (session repeats)</p> <p>Inland Lake Ecology 101 Patty Hoch-Melluish Kieser & Associates (session repeats)</p> <p>A Review of the Vast Contributions of Inland Lakes to Michigan's Economy Scott Brown ML&SA Executive Director (session repeats)</p>	<p>Conference Area</p> <p>Arctic Bay</p> <p>NW Territories B</p> <p>NW Territories C</p>
2:30 PM - 3:00 PM	Break	Conference Area



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Conference Agenda Friday, April 20th, 2018

General Topic Breakout Sessions

Conference Area

"Stewardship...It Might Take a Lake Association"

Paul J. Sniadecki
ML&SA Board

Arctic Bay

3:00 PM - 4:00 PM

Inland Lake Ecology 101

Patty Hoch-Melluish
Kieser & Associates

NW Territories B

A Review of the Vast Contributions of Inland Lakes to Michigan's Economy

Scott Brown
ML&SA Executive Director

NW Territories C

5:00 PM - 6:00 PM

ML&SA Annual "Happy Hour"
Beer, Wine & Pop Compliments of Exhibitors & ML&SA
(Mixed Drinks / Liquor Available on Cash Basis)

Conference Area

6:30 PM - 9:00 PM

*Michigan Lake and Stream Associations
57th Annual Banquet
Invocation
Dinner
Awards Ceremony
ML&SA "Lake Association of the Year" Award
Annual ML&SA "Masters" Award
Annual "Peanut" Awards
Keynote Addresses
Michigan State Senator Rebekah Warren
MDNR Parks and Recreation Division Chief Ron Olson*

NW Territories

9:00 PM - 9:45 PM

Michigan Riparian Rights and Water Law Question & Answer Session

Clifford H. Bloom
Attorney-at-Law
Bloom Sluggett Law
ML&SA Chief Legal Counsel

Arctic Bay



Michigan Lake and Stream Associations

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Crystal Mountain Resort

Thompsonville, MI



Conference Agenda Saturday, April 21st, 2018

6:30 AM - 8:30 AM	Breakfast	James Bay
8:00 AM - 10:00 AM	General Conference Registration	Conference Area
9:00 AM - 10:30 AM	General Topic Breakout Sessions	Conference Area
	<p>Aquatic Plant Identification Jo Latimore, PhD, Aquatic Ecologist, MSUE Outreach Educator Erick Elgin, MSUE Water Resources Educator (session does not repeat)</p>	NW Territories A
	<p>MI Shoreland Stewards Program: A Tool for Lake Associations Julia Kirkwood MDEQ WRD Non-Point Source Program (session repeats)</p>	NW Territories C
	<p>Annual Michigan Riparian & Water Law Review Clifford H. Bloom, Attorney-at-Law Bloom Sluggett Law, Grand Rapids, MI (session repeats)</p>	Arctic Bay
	<p>Establishing the Value of a Lake Association Stacy LeRoy Daniels, PhD President pro tem, Benzie County River Improvement Co. (session repeats)</p>	NW Territories B
	10:30 AM - 11:00 AM	Break
11:00 AM - 12:00 PM	General Topic Breakout Sessions	
	<p>MI Shoreland Stewards Program: A Tool for Lake Associations Julia Kirkwood MDEQ WRD Non-Point Source Program</p>	NW Territories C
	<p>Annual Michigan Riparian & Water Law Review Clifford H. Bloom, Attorney-at-Law Bloom Sluggett Law, Grand Rapids</p>	Arctic Bay
	<p>Establishing the Value of a Lake Association Stacy LeRoy Daniels, PhD President Pro tem, Benzie County River Improvement Co.</p>	NW Territories B
12:00 PM - 1:30 PM	Buffet Lunch	James Bay



Michigan Lake and Stream Associations

57th Annual Conference

April 20th & 21st, 2018

Crystal Mountain Resort

Thompsonville, MI



	<p align="center">Conference Agenda Saturday, April 21st, 2018</p>	<p align="center">Conference Area</p>
<p align="center">1:30 PM - 3:30 PM</p>	<p align="center">Exotic Aquatic Invasive Species Management Seminar</p> <p align="center"> “The selective-site use of flumioxazin for the effective control of Starry stonewort in Houghton Lake, Roscommon County Michigan” Jennifer L. Jermalowicz-Jones, PhD Water Resources Director, Restorative Lake Sciences </p> <hr/> <p align="center"> “Non-chemical control of invasive phragmites” Mike West & Ron Cousineau Upper Long Lake, Oakland County (session does not repeat) </p>	<p align="center">NW Territories B & C</p>
<p align="center">1:30 PM - 3:30 PM</p>	<p align="center">Swimmer’s Itch Seminar</p> <p align="center"> “Swimmer’s Itch: Encouraging Results from Control and Research Efforts in 2017” Michigan Swimmer’s Itch Partnership Co-chairs Jim Vondale & Joel Buzzell Dr. Curt Blankespoor, Swimmer’s Itch Solutions Ron Reimink, Freshwater Solutions Wayne Swallow, Owner, SiLotions LLC (session does not repeat) </p>	<p align="center">Arctic Bay</p>

ML&SA 57th Annual Conference Adjourns! Thank you very much for your participation!

**Cost for Chairman to Attend
2018 Michigan Lake & Stream Associations Conference in Thompsonville, MI**

Michigan Lake & Stream Association Conference Fee	\$ 210.00
Room	
Hotel April 19, 2018	\$ 66.60
Hotel April 20, 2018	\$ 166.14
Hotel April 21, 2018	\$ 72.15
Mileage	
452 miles to/from Novi and Thompsonville @ \$0.545 IRS Mileage Rate	\$ 246.34
	Total \$ 761.23

MEMORANDUM



TO: PETE AUGER, CITY MANAGER

FROM: JEFF MUCK, DIRECTOR
PARKS, RECREATION AND CULTURAL SERVICES

SUBJECT: SHORELINE EROSION

DATE: NOVEMBER 15, 2017

Novi Parks, Recreation and Cultural Services (PRCS), Parks Maintenance and Department of Public Services (DPS)/Engineering staff met with a representative from the Michigan Department of Environmental Quality (DEQ) in June 2017 to review the erosion status on the Walled Lake shorelines at both Lakeshore Park and Pavilion Shore Park.

When Pavilion Shore Park was developed in 2013, several trees with 2-3-inch trunk diameters were removed along the shoreline. Coir logs were installed with the intent to slow erosion and spur the growth of new shoreline plants. Coir logs are tube-shaped, erosion-control devices filled with straw, flax, rice, coconut fiber material or composted material. Each roll is wrapped with UV-degradable polypropylene netting with 100-percent biodegradable materials like burlap, jute or coir. Unfortunately, the logs failed due to wave action and the down current of the lake. Additionally, the winter ice flow has contributed to the breakdown of the logs and plantings.

Lakeshore Park has also experienced erosion of the shoreline due to wave action and ice flow. While sand is added to the beach area annually, a long term stabilization solution is necessary for the rest of the park's lakefront areas.

The DEQ informed staff that concrete retaining walls would not be accepted and the use of stone and natural features was preferred. Staff is planning to bring forward a proposed project for Council consideration that includes:

Pavilion Shore Park

- Restore shoreline erosion using techniques such as soil wrapped in geotextile liner, heavy riprap over geotextile liner, cobble blocks, etc.
- Use new slope protection system to deter geese, if possible.

Lakeshore Park

- Shoreline restoration as listed for Pavilion Shore Park.
- Add handicap-accessible ramp to beach at end of sidewalk on east end.
- Improve the emergency vehicle/park maintenance access ramp to the beach. No docks are included.

The estimated total cost for the project is \$318,563.



Pavilion Shore facing east (Aug. 2013 Grand Opening)



Pavilion Shore facing west (Sept. 2017)



Pavilion Shore facing east (Sept. 2017)



Pavilion Shore facing east (July 2013)



Lakeshore east beach end meeting shoreline (July 2015)



Lakeshore east beach end meeting shoreline (Sept. 2017)



Lakeshore east shoreline (Sept. 2017)



Lakeshore west shoreline (Sept. 2017)