

Welcome to the Cedar Lake Improvement Board

Public & Conference Call-In Meeting

December 10, 2021

Board Members

Carolyn Brummund

Harry Harvey

Dave Dailey

Steve Wusterbarth

Rob Huebel

Fred Strauer

Rex Vaughn

Alcona County Commissioner

Alcona County Road Commission

Greenbush Twp. Representative

Oscoda Twp. Trustee

Iosco County Commissioner

Iosco County Drain Commissioner

Citizen Riparian Representative

Cedar Lake Improvement Board  
Public & Conference Call-In Meeting  
Greenbush Township Hall  
Friday, Dec. 10, 2021  
10:00 AM EST

*See Page 2 for Conference Call-In Instructions*

Proposed Agenda

1. Call to Order.
2. Conference Call-In Operating Protocol.
3. Roll Call - CLIB Board.
4. Election of a Citizen Riparian to new four (4) year term on the Board.
  - a. The Board can re-elect the incumbent Citizen Riparian or has the option to select and appoint a new riparian.
5. Election of Board Chairperson.
6. Public Comment.
7. Approval of 12-10-2021 Agenda as presented.
8. Approval of Minutes of 5-7-2021 Meeting.
9. Old Business.
  - a. Status of TCF Bank Certificate of Deposit (informational).
    - i. Maturity date: 10/21/2022, moved to TCF/Huntington Checking Account on 10/27/2021, transferred balance of \$158, 253.56.
  - b. Creation of CLIB By-Laws Update.
    - i. Draft received from Bloom Sluggett.
    - ii. Completion date planned for 2022.
10. New Business.
  - a. Doug Pullman 2021 Lake LakeScan Aquatic Plant Management Interim Reports (reports included in info packet email, hard copy available upon request).
    - i. Two lake herbicide treatments, 6-16-2021 & 9-28-2021, 31.75 total acres treated for the 2021 season, versus 160.5 acres in 2020.
  - b. Mark Kieser, K&A Update on the 2021 seasonal activities.
    - i. Lake Level Augmentation Project Phase III progress, findings, & status of preliminary engineering report.
      1. Water testing and purging of existing 12" well, PFAS non-detect.
      2. Hard copy of lab results available upon request.
    - ii. Changes in summer work plan due to Alcona County RC/DC permit delays.
      1. Postponed 2021 Task 4(a), New Dam Hydrology, to 2022. Replaced with Lake Sediment Toxic Compounds Screening (proposed for 2020 but not selected).
      2. Sediment Screening Results.
  - c. Review and approve bills that were paid since the 5-7-2021 meeting or are now due.
    - i. Bloom Sluggett, PC, legal services.
      1. Inv. 18103, \$270.00 (paid, as corrected)
      2. Inv. 21762, \$202.50 (paid).

- ii. Clarke Aquatics, Herbicide Lake Treatments.
    - 1. July Inv. 10091, \$13,413.25 (paid) – 21.25 acres.
    - 2. Nov. Inv. 10859, \$6,482.00 (paid) – 10.5 acres.
  - iii. Doug Pullman/ Aquest Corp. (billed by Kieser & Associates):
    - 1. July 2021 LakeScan partial payment, Inv. 21-185, \$4,050.00 (paid).
    - 2. Sept. 2021 LakeScan partial payment, Inv. 21-228, \$3,910.00 (paid).
  - iv. Kieser & Associates:
    - 1. Professional Services, May 2021, Inv. 21-165, \$2,117.50 (paid).
    - 2. Professional Services, June 2021, Inv. 21-194, \$6,204.64 (paid)
    - 3. Professional Services, Aug. 2021, Inv. 21-229, \$12,062.50 (paid).
    - 4. Professional Services, Nov. 2021, Inv. 21-250, \$4,820.00 (paid).
    - 5. Professional Services, Dec. 2021, Inv. 21-255, \$9,372.50 (new).
  - v. USPS, Annual PO Box Fee, \$65.00 (paid).
  - vi. EGLE 2022 Aquatic Herbicide Permit Fee, \$1,500.00, pre-authorize Treasurer/Fiduciary to make payment when due beginning in 2022.
- d. Jones Creek & Wetland Property Opportunity
- i. Jones Creek Memo – Rex Vaughn
  - ii. Technical Memo – Kieser & Associates.
  - iii. Parcel Survey Sketch (source: David Ries).
  - iv. Realtor.com info sheet.
  - v. Regrid Parcel Info.

11. Public Comment.

12. Next Meeting Date: To be set by Board.

13. Adjournment.

**Cedar Lake Improvement Board Public & Conference Call-In Meeting  
Public Access Instructions**

Friday, December 10, 2021, at 10:00 AM EDT

**CONFERENCE CALL-IN MEETING PUBLIC ACCESS INFORMATION:**

To join the conference call, participants should call 302-202-1110 & enter Conference Code: 639770

Cedar Lake Improvement Board Meeting Minutes

Online & Public Meeting

Friday, May 7, 2021 10:00 a.m.

1. Call to order 10:00 a.m.
2. Online Meeting Operating Protocol was presented and discussed.
3. Board Roll Call: Present---Vaughn, Brummund, Dailey, Wusterbarth, Strauer, Huebel. Absent—Harvey. There was a quorum. Total of 10 participants joined zoom meeting. Board members Dailey, Strauer, & Heuber joined via Zoom.
4. Public Comments: Mark Laszlo had questions re: his 10-15-2020 letter, but audio was having troubles. He waited until final public comments. Brian Vokel commented that he would appreciate 2 week notice of CLIB meetings.
5. Agenda: Motion made by Dailey/Brummund to approve Agenda as presented. Roll call vote on motion: Ayes: Vaughn, Brummund, Dailey, Wusterbarth, Strauer, Huebel. Nays: none. Motion passed.
6. Minutes: Motion made by Brummund/Dailey to approve Minutes of the 9/25/2020 meeting as presented. Roll call vote on motion: Ayes: Dailey, Brummund, Vaughn, Strauer, Wusterbarth, Huebel, . Nays: none. Motion passed.
7. Old Business: None
8. New Business:
  - a.) TCF Bank CD matured and has been renewed for a short time. Review it in October 2021.
  - b.) Correspondence from Dr Mark Laszlo will be addressed later because of audio problems.
  - c.) Doug Pullman highlighted items from his report “2020 Lake LakeScan Aquatic Plant Management Report”. All is trending in a positive direction. A hard copy of his report is available upon request. Motion to acknowledge receipt and approval of D Pullman’s report was made by Brummund/Dailey. Roll call vote on motion: Ayes: Huebel, Wusterbarth, Strauer, Vaughn, Brummund, Dailey. Nays: none. Motion passed.
  - d.) Mark Kieser gave a report on the “K&A 2020 Lake Level/Hydrology Report”. He highlighted the items from the Executive Summary report. The full report and executive summary is on file. Motion to accept this report and executive summary was made by Dailey/Wusterbarth. Roll call vote on motion: Ayes: Brummund, Dailey, Wusterbarth, Strauer, Huebel, Vaughn. Nays: none. Motion passed.
  - e.) 2020 CLIB Budget review: Expenditures in excess of originally budgeted for lake treatment and implementing the Assessment District were discussed. Motion by Brummund/Dailey to accept the amendments to the line items of the budget with an increase in the amount of \$46,474.21. Roll call vote on motion: Dailey, Wusterbarth, Vaughn, Huebel, Strauer, Brummund. Nays: none. Motion passed. Motion to approve final 2020 Budget made by Brummund/Dailey. Roll call vote on motion: Brummund, Wusterbarth, Vaughn, Strauer, Huebel, Dailey. Nays: none. Motion passed.
  - f.) 2021 CLIB budget reviewed. Motion to approve 2021 Budget as presented made by Brummund/Dailey. Roll call vote on motion: Ayes: Huebel, Strauer, Wusterbarth, Brummund, Dailey, Vaughn. Nays: none. Motion passed.
  - g.) Motion to accept the following 2021 Estimates, Proposals and Contracts: i. Aquatic Services 2021 Aquatic Herbicide Treatment Services, ii. Doug Pullman (Kieser & Associates) LakeScan Aquatic Plant Management Services for 2021, iii. Kieser & Associates 2022 Professional Services Proposal made by Dailey/Brummund. Roll call vote on motion: Vaughn, Dailey, Brummund, Strauer, Huebel, Wusterbarth. Nays: none. Motion passed.
  - h.) Review and approve bills since 9-25-2020 meeting: Motion to approve new bills to pay and accept bills that have been paid since 9-25-2020 meeting as follows: i. Bloom Sluggett Inv 20884 \$112.50 (paid) ii. Aquatic Services Herbicide Permit Fee \$1,500.00 (paid) iii. Pullman services billed by K&A Inv 20-108 \$4,062.00 (paid) and Inv 21-139 \$2,075.00 (new) iv. Kieser & Associates: Inv 20-128- \$2,036.25 (paid), Inv. 20-138- \$2,541.25 (paid), Nov 2020-April 2021 Services \$22,381.25 (new) was made by Dailey/Wusterbarth. Roll call vote on motion: Ayes: Dailey, Huebel, Vaughn, Brummund, Strauer, Wusterbarth. Nays: none. Motion passed.
  - i.) A recommendation from our lawyer to create by-laws to cost approximately \$600.00 was discussed. Motion to approve authorizing the Chair to proceed with this recommendation from our lawyer and report to the board was made by Brummund/Wusterbarth. Roll call vote on motion: Brummund, Wusterbarth, Vaughn, Dailey, Huebel, Strauer. Nays: none. Motion passed.

11:04am Dailey had to leave the meeting for a prior commitment.

9. Public Comments: began 11:05 am

Steve Wusterbarth introduced himself. He is new to the board and replaces Jim Baier. He had a question regarding the dam.

John Teller also had questions regarding the dam.

Anthony Mannarino also had questions regarding the dam.

Mark Laszlo had questions regarding his letter of November 2020.

Kelly Brown had a comment regarding “peppering your comments”.

Public Comments: ended 11:28 am

10. Next meeting to be set at a later date.

11. Adjournment



## EARLY SEASON VEGETATION SURVEY REPORT

**To:** Rex Vaughn  
Cedar Lake Improvement Board

**Date:** July 20, 2021

**From:** Mark Kieser, Senior Scientist  
Jacob Utrie, Project Scientist,  
Kieser & Associates, LLC (K&A)

**cc:** Gabby Metzner-Gustafson, K&A  
Josh Kieser, K&A  
Doug Pullman, Aquest

**RE:** Cedar Lake (North) Early Season Vegetation Survey Results

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**K&A Survey Staff:** Jacob Utrie & Gabby Metzner-Gustafson

**Date of Vegetation Survey:** 6/30/21

*NOTE: Herbicide treatments usually take at least 10 days for full effect.*

### Notes from Early Season Vegetation Survey

The Cedar Lake North early season vegetation survey was conducted on Wednesday, June 30, 2021. Weather was 75°F and sunny with 5 mph winds out of the west. Visibility was good with a Secchi disk depth reaching the maximum bottom depth of the lake at 8ft. Water levels were very low for this time of year.

Native aquatic plant species commonly observed during the early season survey were variable-leaf watermilfoil (native) (*Myriophyllum heterophyllum*), elodea (*Elodea sp.*), variable pondweed (*Potamogeton gramineus*), clasping-leaf pondweed (*Potamogeton richardsonii*), bladderwort (*Utricularia vulgaris*), wild celery (*Vallisneria americana*), sago pondweed (*Stuckenia pectinata*), and Chara (*Chara sp.*). Chara, bladderwort, variable-leaf watermilfoil, variable pondweed, and clasping-leaf pondweed were species regularly found throughout much of the lake.

Variable and clasping-leaf pondweed as well as variable-leaf watermilfoil were the most prominent species found within the 400 and 500 tiers of Cedar Lake North. These species were observed to be causing nuisance conditions most notably in the northern half of Cedar Lake North. Lower than normal water levels in 2021 may be creating more nuisance conditions than in a normal water level year.

Figure 3b shows variable-leaf watermilfoil coverage in early-season 2021. In the late-season of 2020, variable-leaf watermilfoil was observed to be causing major recreational hazards, leading to a treatment conducted on September 15, 2020, to help alleviate these conditions (refer to Figure 4). According to herbicide applicator information, this treatment was projected to have lasting effects noticeable for up to three years. Results of the early season vegetation survey conducted on June 30, 2021, indicate that variable-leaf watermilfoil is currently exhibiting light density and distribution in many of the areas treated in September 2020. However, given the timing of nuisance condition observations in 2020, the full efficacy of the September 2020 treatment will be better understood once the August 2021, late season survey results are analyzed.

In Cedar Lake North, the only aquatic invasive species observed was Eurasian watermilfoil hybrid, or Ebrid (*Myriophyllum spicatum x sibiricum*). Ebrid was observed at low densities and abundances in only seven of Cedar Lake North’s AROSs including: 580, 579, 567, 566, 375, 365, and 361 (see Figure 3a). Treatment of Ebrid and other nuisance aquatic plant species was conducted on June 16, 2021, fourteen days prior to the early season vegetation survey. Treatment was focused on the trenches and areas close to shore, located on the northern half of Cedar Lake North. When comparing early season survey information to pre-season survey Ebrid information (collected before treatment occurred), Ebrid density and distribution specifically in AROS 566 and 567 appears to have been reduced after treatment. On the other hand, Ebrid was observed in more AROSs (580, 579, 375, 365, and 361) than what was observed in the pre-season survey. Nevertheless, the density and distribution of Ebrid in all AROS where it was observed, was very light and not widely distributed following treatment.

## Results for Important LakeScan™ Metrics

This 2021 Early Season Vegetation Report provides findings on the health of your lake based on important lake characteristics and aquatic plant conditions. Keep in mind that these are preliminary ratings based on a single survey. The final report for the year will include ratings based on both early and late season surveys, giving a more comprehensive view of lake conditions. Early season survey ratings are also compared here to last year’s score and include:

- **Biodiversity** – a measure of the quantity and distribution of aquatic plant species in your lake
- **Structural Diversity** – reflects the habitat value of vegetation for fish and other aquatic animals
- **Vegetation Quality** – a value indicative of the health of the plant community in your lake
- **Nuisance Conditions** – provides a value depicting the percentage of survey sites that contain plants determined to be a recreational nuisance
- **Algal Bloom Risk**: – the risk of algal bloom issues, as determined by an analysis of watershed conditions

*(Red scores indicate improvements are needed; yellow indicate marginal conditions; green are desirable)*

Category	Early Season 2020 Rating	Early Season 2021 Rating	Management Goal	LakeScan Metric
<b>Biodiversity</b>	8.6	9.3	Above 6.7	Shannon Biodiversity Index
<b>Structural Diversity</b>	7.8	8.3	Above 5.0	Shannon Morphological Index
<b>Vegetation Quality</b>	23.3	23.9	Above 20.0	Floristic Quality Index
<b>Nuisance Conditions</b>	21%	35%	Below 10%	Recreational Nuisance Presence
<b>Algal Bloom Risk</b>	Low	Low	Low	Algal Bloom Risk

If you have any questions on these scores, please do not hesitate to contact us. Contact information is available at the end of this document.

## Other Findings

The LakeScan™ survey process provides a wealth of other important information, some of which is summarized in the following figures for your lake using early season vegetation survey results.

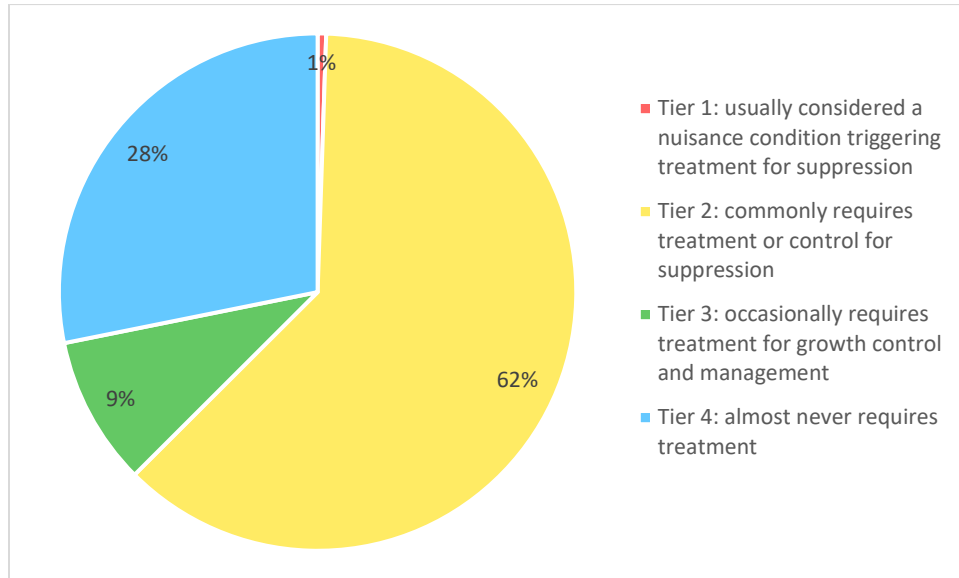


Figure 1. Aquatic vegetation composition, grouped according to species-specific management considerations (e.g., EWM is a T1 species that typically trigger treatment to control their growth).





Figure 2. Density of All Vegetation by AROS. This estimates the fraction of AROS occupied by vegetation.



Figure 3a. June 30, 2021 Ebrid Watermilfoil coverage by AROS.



Figure 3b. June 30, 2021 Variable-Leaf Watermilfoil coverage by AROS.

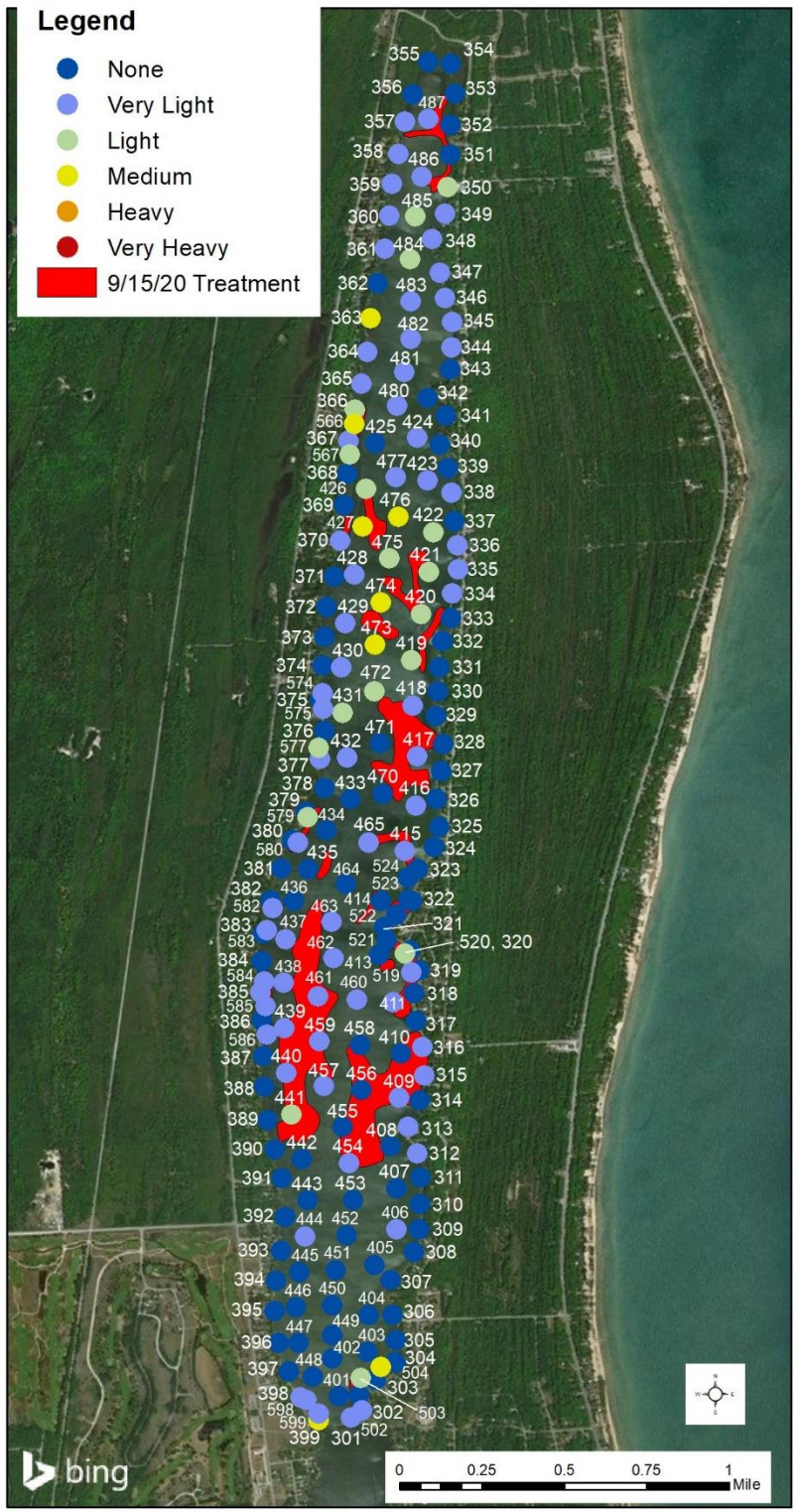


Figure 4. June 30, 2021 Variable-Leaf Watermilfoil coverage by AROS with September 15, 2020 treatment areas.

## A Final Note on LakeScan™ Surveys

When scheduling aquatic vegetation surveys, your LakeScan™ team focuses on three important considerations including: survey goals, survey effectiveness and lake-user convenience.

**Survey Goals:** We recognize it is important to have a solid baseline of information on aquatic vegetation each year in your lake to characterize ecological conditions balanced with management needs. We therefore attempt to survey your lake before or within 10 days of early summer treatments to observe densities and distributions of treatment-targeted and non-targeted vegetation.

**Survey Effectiveness:** Weather plays a key role here. Rain and wind, in addition to creating safety hazards, obstruct the water surface and make it difficult to see plants in the water column. Rain can damage the onboard electronic equipment during the six or more hours of survey time on the lake. Wind can make it difficult to stay in one Aquatic Resource Observation Site (AROS) without being blown into an adjacent AROS or into a dock while we focus on detailed characterization of vegetation.

**Lake-user Convenience:** Your LakeScan™ team tries to avoid surveys on Fridays, Saturdays or Sundays due to boat activity on the lake. We also prefer to have early summer surveys completed prior to the 4th of July, and late summer surveys completed before Labor Day so that if any problems with out-of-control nuisance species are noted on the lake, they can be addressed before the holidays if budgeted. Where desired, your team can also schedule mid-season checks. Feel free to contact us on costs for additional visits.

## Questions?

Contact your LakeScan™ representative:

Josh Kieser, Field Services Manager, Kieser & Associates, LLC: (269) 344-7117; [jkieser@kieser-associates.com](mailto:jkieser@kieser-associates.com)



## EARLY SEASON VEGETATION SURVEY REPORT

**To:** Rex Vaughn  
Cedar Lake Improvement Board

**Date:** July 20, 2021

**From:** Mark Kieser, Senior Scientist  
Jacob Utrie, Project Scientist  
Kieser & Associates, LLC (K&A)

**cc:** Gabby Metzner-Gustafson, K&A  
Josh Kieser, K&A  
Doug Pullman, Aquest

**RE:** Cedar Lake (South) Early Season Vegetation Survey Results

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**K&A Survey Staff:** Jacob Utrie & Gabby Metzner-Gustafson

**Date of Vegetation Survey:** 6/30/21 - 7/1/21

*NOTE: Herbicide treatments usually take at least 10 days for full effect.*

### Notes from Early Season Vegetation Survey

The Cedar Lake South early season vegetation survey was initiated on Wednesday June 30<sup>th</sup> and finished on Thursday, July 1<sup>st</sup>, 2021. Weather on June 30<sup>th</sup> was 75°F and sunny with 5 mph winds out of the west and on July 1<sup>st</sup> it was 65°F and overcast with 15 mph winds out of the northwest. Visibility was good with a Secchi disk depth reaching the maximum bottom depth of the lake at 10.8ft.

Variable pondweed (*Potamogeton gramineus*), clasping-leaf pondweed (*Potamogeton perfoliatus*), water celery (*Vallisneria americana*), and Chara (*Chara sp.*) were the most abundant native aquatic plant species observed in Cedar Lake South during the early season vegetation survey. Additionally, emergent species which include waterlily (*Nymphaea odorata*) and spatterdock (*Nuphar advena*) were observed more frequently in Cedar Lake South than Cedar Lake North.

Chara was observed at high density and coverage throughout much of Cedar Lake South and could be considered the most dominant species in the southern lobe. Waterlily and spatterdock were observed exhibiting higher densities within nearshore AROSs. These emergent species did reach nuisance conditions; however, these were confined to only a few instances nearshore. This year, water levels are well below the normal high-water levels, which may be creating more nuisance conditions than a standard year. Variable-leaf watermilfoil (native) (*Myriophyllum heterophyllum*), was also observed in Cedar Lake South and exhibited low density and distribution in the AROS that it was observed (Figure 3b).

Eurasian watermilfoil hybrid, or Ebrid (*Myriophyllum spicatum x sibiricum*) was the only invasive species observed in Cedar Lake South during the early season vegetation survey. Ebrid was observed in only a few of Cedar Lake South's AROSs and at low densities and distribution each instance (Figure 3a). Treatment for this species did not occur in Cedar Lake South on June 16, 2021 when areas of Cedar Lake North were treated. In the past, starry stonewort (*Nitellopsis obtusa*) has exhibited low densities within Cedar Lake South. During the 2021 early season survey, no starry stonewort was observed. Chara, however, was observed at high densities in Cedar Lake South where starry stonewort has previously been observed and may be limiting the spread of starry stonewort. Because starry stonewort has

historically been observed in Cedar Lake South, we will continue to closely watch these areas for any increases in its abundance.

## Results for Important LakeScan™ Metrics

This 2021 Early Season Vegetation Report provides findings on the health of your lake based on important lake characteristics and aquatic plant conditions. Keep in mind that these are preliminary ratings based on a single survey. The final report for the year will include ratings based on both early and late season surveys, giving a more comprehensive view of lake conditions. Early season survey ratings are also compared here to last year’s score and include:

- **Biodiversity** – a measure of the quantity and distribution of aquatic plant species in your lake
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- **Nuisance Conditions** – provides a value depicting the percentage of survey sites that contain plants determined to be a recreational nuisance
- **Algal Bloom Risk:** – the risk of algal bloom issues, as determined by an analysis of watershed conditions

*(Red scores indicate improvements are needed; yellow indicate marginal conditions; green are desirable)*

Category	Early Season 2020 Rating	Early Season 2021 Rating	Management Goal	LakeScan Metric
<b>Biodiversity</b>	10.2	9.4	Above 6.7	Shannon Biodiversity Index
<b>Structural Diversity</b>	8.7	8.1	Above 5.0	Shannon Morphological Index
<b>Vegetation Quality</b>	26.4	25.8	Above 20.0	Floristic Quality Index
<b>Nuisance Conditions</b>	5%	32%	Below 10%	Recreational Nuisance Presence
<b>Algal Bloom Risk</b>	Low	Low	Low	Algal Bloom Risk

If you have any questions on these scores, please do not hesitate to contact us. Contact information is available at the end of this document.

## Other Findings

The LakeScan™ survey process provides a wealth of other important information, some of which is summarized in the following figures for your lake using early season vegetation survey results.

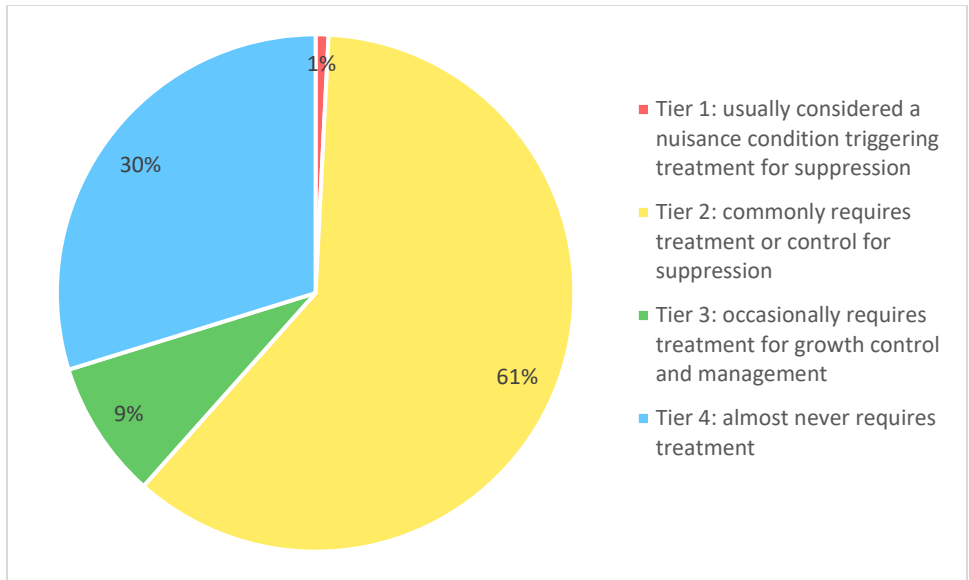


Figure 1. Aquatic vegetation composition, grouped according to species-specific management considerations (e.g., EWM is a T1 species that typically trigger treatment to control their growth).



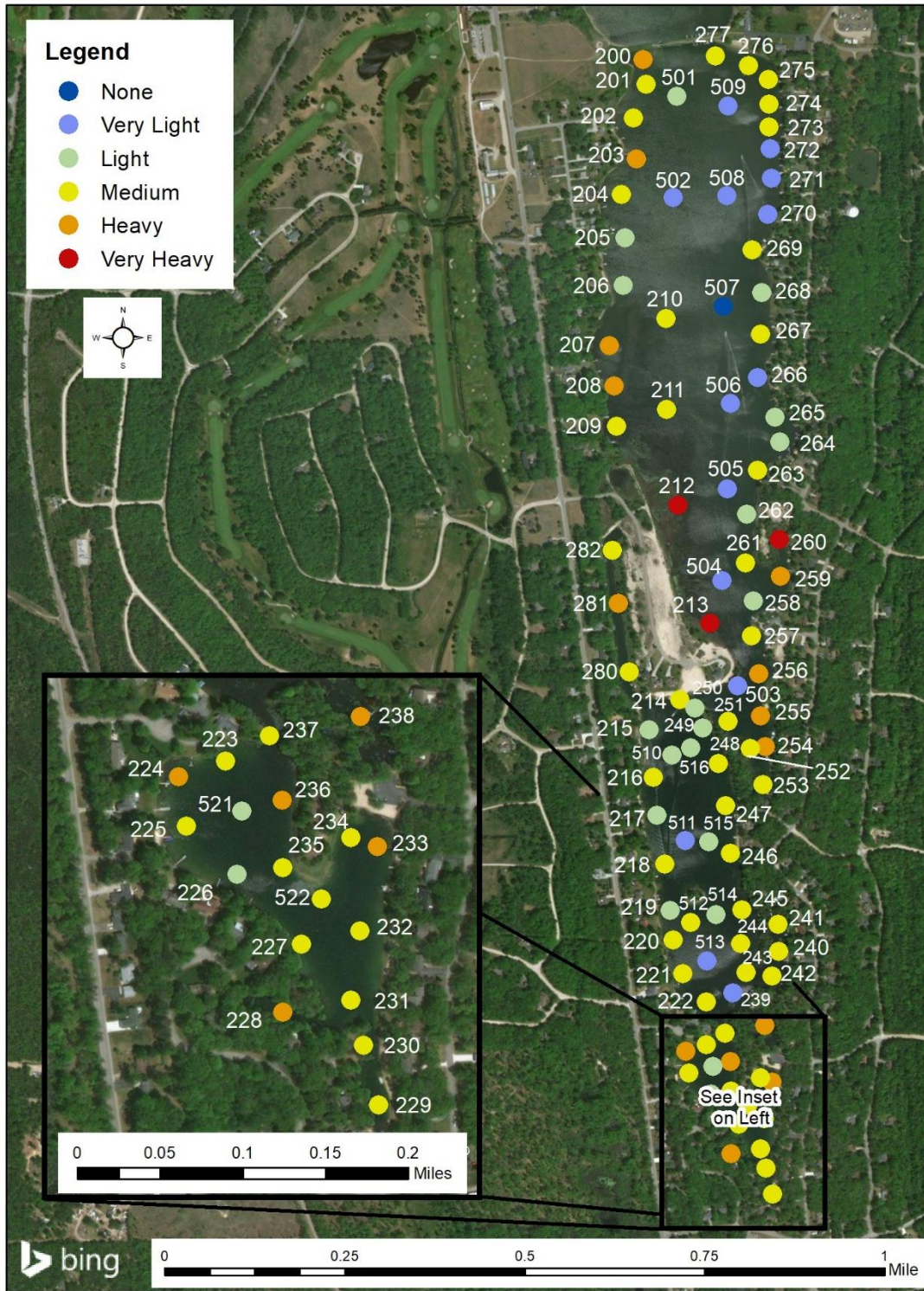


Figure 2. Density of All Vegetation by AROS. This estimates the fraction of AROS occupied by vegetation.

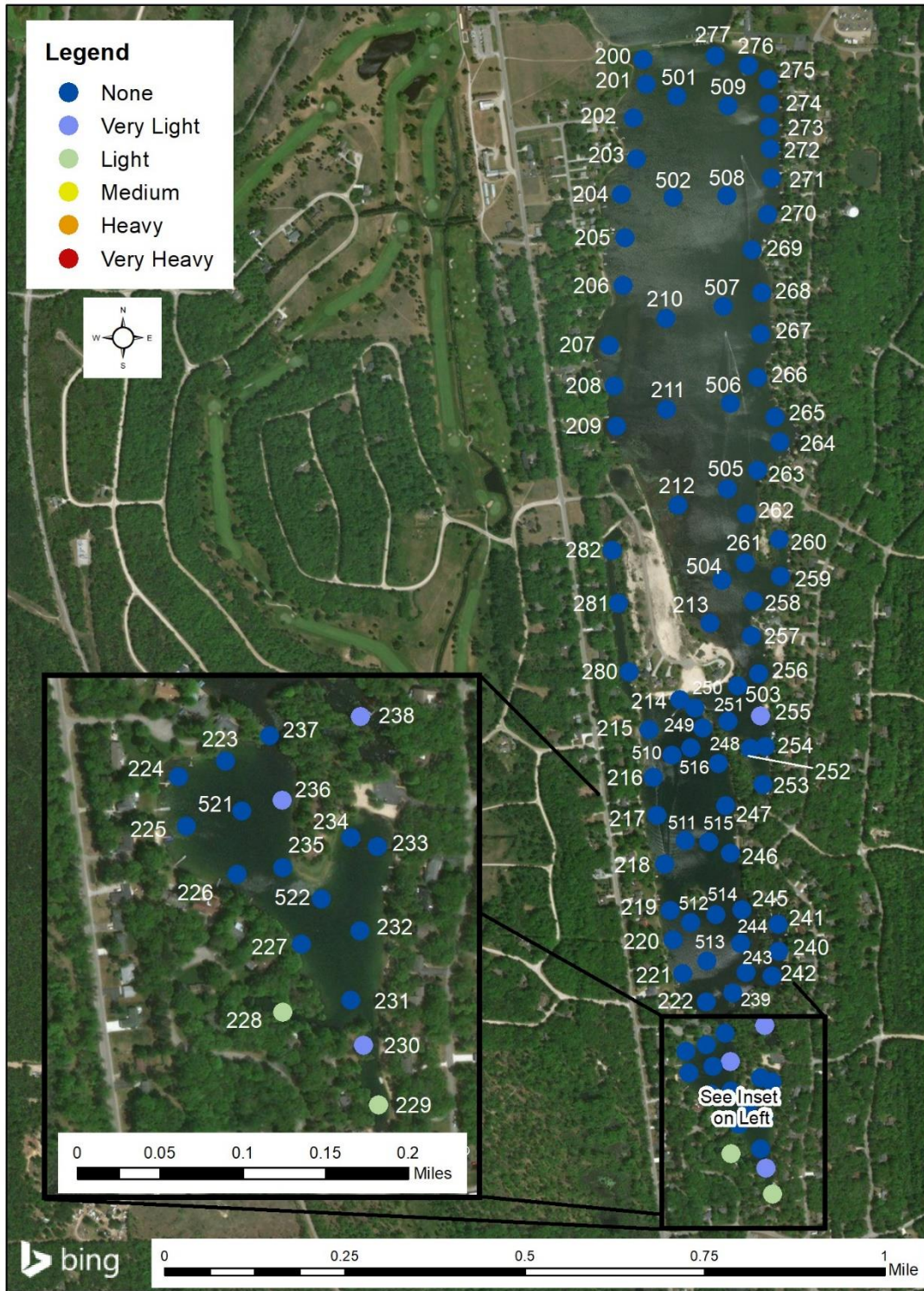


Figure 3a. Ebrid Watermilfoil coverage by AROS.

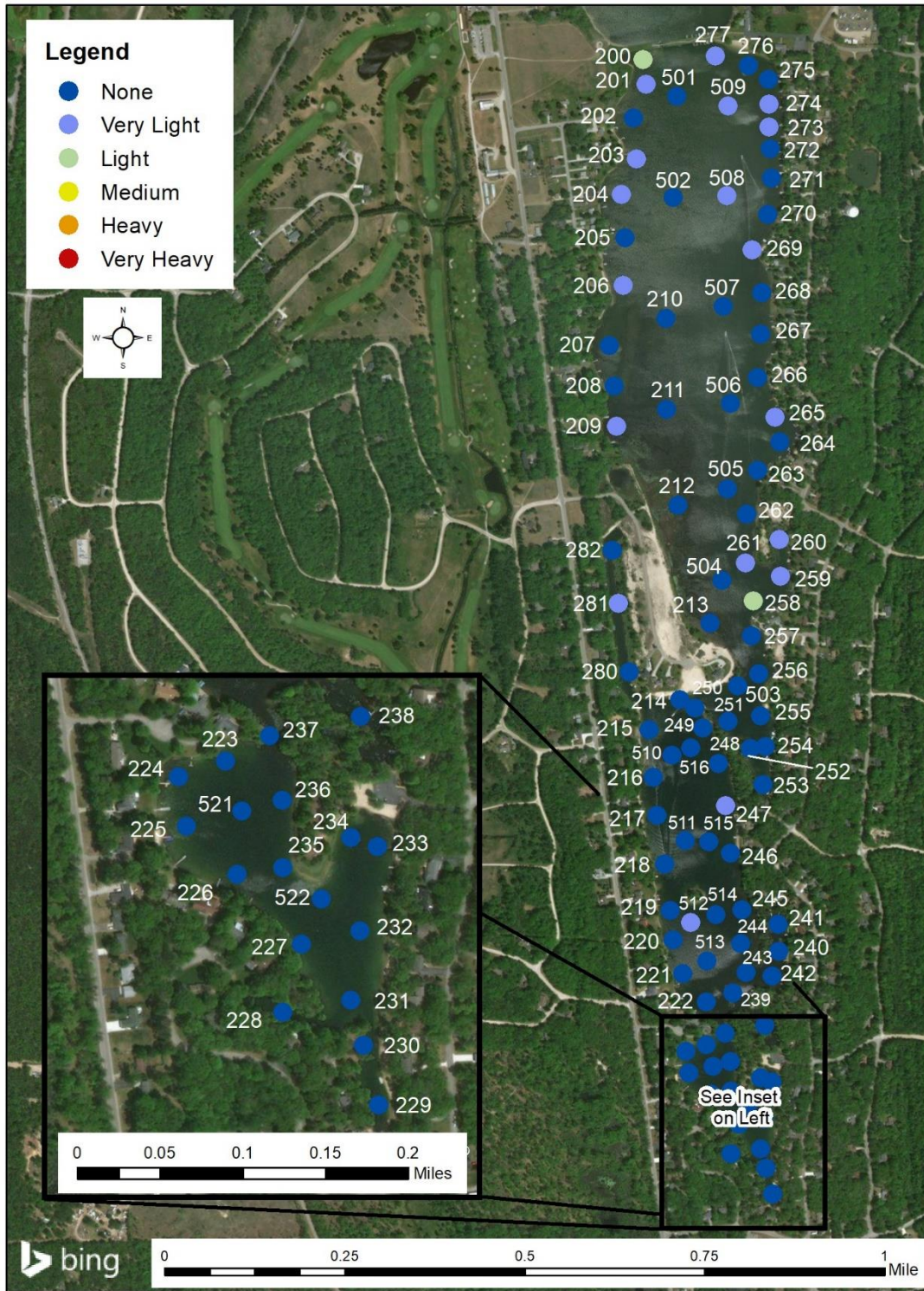


Figure 3b. Variable-Leaf Watermilfoil coverage by AROS.

## A Final Note on LakeScan™ Surveys

When scheduling aquatic vegetation surveys, your LakeScan™ team focuses on three important considerations including: survey goals, survey effectiveness and lake-user convenience.

**Survey Goals:** We recognize it is important to have a solid baseline of information on aquatic vegetation each year in your lake to characterize ecological conditions balanced with management needs. We therefore attempt to survey your lake before or within 10 days of early summer treatments to observe densities and distributions of treatment-targeted and non-targeted vegetation.

**Survey Effectiveness:** Weather plays a key role here. Rain and wind, in addition to creating safety hazards, obstruct the water surface and make it difficult to see plants in the water column. Rain can damage the onboard electronic equipment during the six or more hours of survey time on the lake. Wind can make it difficult to stay in one Aquatic Resource Observation Site (AROS) without being blown into an adjacent AROS or into a dock while we focus on detailed characterization of vegetation.

**Lake-user Convenience:** Your LakeScan™ team tries to avoid surveys on Fridays, Saturdays or Sundays due to boat activity on the lake. We also prefer to have early summer surveys completed prior to the 4th of July, and late summer surveys completed before Labor Day so that if any problems with out-of-control nuisance species are noted on the lake, they can be addressed before the holidays if budgeted. Where desired, your team can also schedule mid-season checks. Feel free to contact us on costs for additional visits.

## Questions?

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Josh Kieser, Field Services Manager, Kieser & Associates, LLC: (269) 344-7117; [jkieser@kieser-associates.com](mailto:jkieser@kieser-associates.com)

# Bloom Sluggett, PC

161 Ottawa Ave NW, Ste. 400  
Grand Rapids, MI 49503  
(616) 965-9340

June 8, 2021

Alcona-Iosco Cedar Lake Association  
Attn: Rex Vaughn, President  
PO Box 53  
Greenbush, MI 48738

Re: 14421-001  
Alcona-Iosco Ced Lk - General

Enclosed is invoice 18103, which covers services through 5/31/2021. This invoice, dated 6/8/2021, is for \$0.00. Prompt payment of your total balance is appreciated and is due 30 days from invoice date.

## Billing Summary

Total for services rendered	\$0.00
Total expenses	\$0.00
Total previous balance	\$540.00
Total payments and other transactions	\$0.00
<b>Balance Due</b>	<b>\$540.00</b>

If you have questions, please call us at (616) 965-9340. Thank you.

Enclosure

# Bloom Sluggett, PC

15 Ionia Ave, SW, Suite 640  
Grand Rapids, MI 49503  
(616) 965-9340

Invoice submitted to:  
Alcona-Iosco Cedar Lake Association  
Attn: Rex Vaughn, President  
PO Box 53  
Greenbush, MI 48738

June 8, 2021

	<u>Amount</u>
Previous balance	\$540.00
Balance due	<u>\$540.00</u>

A \$25 returned check fee will be charged for each occurrence, in addition to bank charges.

# Bloom Sluggett, PC

161 Ottawa Ave NW, Ste. 400  
Grand Rapids, MI 49503  
(616) 965-9340

August 5, 2021

Cedar Lake Improvement Board  
Attn: Rex Vaughn, Chairperson  
PO Box 53

Greenbush, MI 48738

Re: 19627-001  
Cedar Lake Improvement Board

Enclosed is invoice 21762, which covers services through 7/31/2021. This invoice, dated 8/5/2021, is for \$472.50. Prompt payment of your total balance is appreciated and is due 30 days from invoice date.

## Billing Summary

Total for services rendered	\$472.50
Total expenses	\$0.00
Total previous balance	\$0.00
Total payments and other transactions	(\$270.00)
<b>Balance Due</b>	<b>\$202.50</b>

If you have questions, please call us at (616) 965-9340. Thank you.

Enclosure

# Bloom Sluggett, PC

15 Ionia Ave, SW, Suite 640  
Grand Rapids, MI 49503  
(616) 965-9340

Invoice submitted to:  
Cedar Lake Improvement Board  
Attn: Rex Vaughn, Chairperson  
PO Box 53

Greenbush, MI 48738

August 5, 2021

Invoice # 21762

## Professional Services

	<u>Hours</u>	<u>Amount</u>
7/20/2021 CHB Draft the Cedar Lake Improvement Board bylaws.	1.00	225.00
7/21/2021 CHB Draft the By-Laws.	0.30	67.50
7/23/2021 CHB Draft the by-laws.	0.80	180.00
For professional services rendered	<u>2.10</u>	<u>\$472.50</u>
Accounts receivable transactions		
8/4/2021 Payment - Thank You. Check No. 1670		<u>(\$270.00)</u>
Total payments and adjustments		<u>(\$270.00)</u>
Balance due		<u><u>\$202.50</u></u>

A \$25 returned check fee will be charged for each occurrence, in addition to bank charges.



# Bloom Sluggett, PC

COUNSELORS & ATTORNEYS

**Clifford H. Bloom**  
Direct Dial (616) 965-9342  
Direct Fax (616) 965-9350  
cliff@bloomsluggett.com

June 3, 2021

Mr. Rex Vaughn  
Chairperson  
Lake Improvement Board  
PO Box 53  
Greenbush, Michigan 48738

**Re: The Bloom Sluggett, PC bill for July, 2020 time**

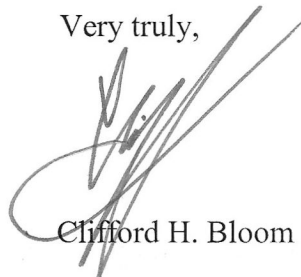
Dear Rex:

As we discussed recently, our bill for July, 2020 legal services was mistakenly placed on the client number for Alcona-Iosco Cedar Lake Association rather than for the Cedar Lake Improvement Board. We apologize for any inconvenience that such error caused. As we also discussed, if the Lake Board will pay us one half of the bill or \$270, we will write off the rest.

This will also confirm my estimate for preparing By-Laws for the Lake Board of between \$400 and \$600.

Please do not hesitate to contact me should you wish to discuss either of these matters further. Thank you.

Very truly,



Clifford H. Bloom



INVOICE

www.clarke.com
TOLL-FREE: 800-323-5727
PHONE: 630-894-2000
AR Email: accountsreceivable@clarke.com,
AR Dept. Ext.: 3139

Payment Instructions: Clarke Aquatic Services, Inc.
Electronic: Bank of America - Account: 8666607118 - Routing: 071000039
Check: 16308 Collections Center Drive, Chicago, IL 60693

Customer #: 090644
Customer PO #: NA

Invoice #: 000010091
Invoice Date: 07/16/21
Terms: Net 30 Days
Due Date: 08/16/21

B
I Cedar Lake Improvement Board
L PO Box 53
L Greenbush, MI 48738-0053
T
O Rex Vaughn

Agreement no 1000009260 Consultant Peter Flipansick

Table with 2 columns: Description, Total

CLARKE AQUATIC MAINTENANCE SERVICES

W9's can be found on our website at www.clarke.com

Cedar Lake Improvement Board Treatment Completed on 6/16/2021:

14.5 acres for control of invasive milfoil with 2,4-D Ester (200 lbs/acre) at \$715.00 per acre = \$10,367.50

2.25 acres for broad-spectrum algae & plant control with Chelated Copper, Diquat, and Carfentrazone at \$435.00 per acre = \$978.75

4.5 acres of broad-spectrum algae & plant control with ProcellaCOR, Diquat, and Chelated Copper at \$689.00 per acre = \$3,100.50

Adjustment - No charge for treatment of the north trench based on inadequate treatment results in 2020 (1.5 Acres at \$689 per acre = -\$1,033.50)

Revised Treatment Total = \$13,413.25

Invoice Due July 2021

Clarke Aquatic Services, Inc. is a Clarke Company

\*\*\* We accept ACH Payments \*\*\*

Clarke will charge applicable sales taxes unless a valid exemption certificate is Emailed to: accountsreceivable@clarke.com or faxed to: 630-672-7439



INVOICE

www.clarke.com  
TOLL-FREE: 800-323-5727  
PHONE: 630-894-2000  
AR Email: accountsreceivable@clarke.com,  
AR Dept. Ext.: 3139

*Payment Instructions: Clarke Aquatic Services, Inc.*  
**Electronic:** Bank of America - Account: 8666607118 - Routing: 071000039  
**Check:** 16308 Collections Center Drive, Chicago, IL 60693

Customer #: 090644  
Customer PO #: NA

Invoice #: 000010091  
Invoice Date: 07/16/21  
Terms: Net 30 Days  
Due Date: 08/16/21

B  
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T  
O  
Cedar Lake Improvement Board  
PO Box 53  
Greenbush, MI 48738-0053  
Rex Vaughn

Agreement no 1000009260      Consultant Peter Flipansick

Description	Total
<b>Order total</b>	<b>13,413.25</b>

Clarke Aquatic Services, Inc. is a Clarke Company

\*\*\* We accept ACH Payments \*\*\*

**Total:**

**13,413.25**

Clarke will charge applicable sales taxes unless a valid exemption certificate is Emailed to: accountsreceivable@clarke.com or faxed to: 630-672-7439



INVOICE

www.clarke.com
TOLL-FREE: 800-323-5727
PHONE: 630-894-2000
AR Email: accountsreceivable@clarke.com,
AR Dept. Ext.: 3139

Payment Instructions: Clarke Aquatic Services, Inc.
ACH Banking: Bank of America - Account: 8666607118 - Routing: 071000039
Electronic Check or Credit Card: Please call - 800-323-5727 x3139
Paper Check: 16308 Collections Center Drive, Chicago, IL 60693

Customer #: 090644
Customer PO #: NA

Invoice #: 000010859
Invoice Date: 10/25/21
Terms: Net 37 Days
Due Date: 12/01/21

B
I Cedar Lake Improvement Board
L PO Box 53
L Greenbush, MI 48738-0053
T
O Rex Vaughn

Agreement no 1000009260 Consultant Peter Flipansick

Table with 2 columns: Description, Total

CLARKE AQUATIC MAINTENANCE SERVICES

W9's can be found on our website at www.clarke.com

Cedar Lake Improvement Board, customer number 090644, for the following work on 9/28/2021:

9.5 acres of invasive milfoil control with ProcellaCOR (12 PDU/acre) and Captain XTR (1.0 gal/acre) at \$646.00 per acre = \$6,137.00

1.0 acres of nuisance native floating-leaf plant control with Triclopyr Liquid at \$345.00 per home = \$345.00

Treatment Total = \$6,482.00

Order total 6,482.00

Clarke Aquatic Services, Inc. is a Clarke Company

Table with 2 columns: Fraud Alert, Total: 6,482.00

Clarke will charge applicable sales taxes unless a valid exemption certificate is Emailed to: accountsreceivable@clarke.com or faxed to: 630-672-7439

536 E. Michigan Avenue  
 Suite 300  
 Kalamazoo, MI 49007

# Invoice

DATE	INVOICE #
6/16/2021	21-165

**BILL TO:**

Cedar Lake Improvement Bd.  
 C/o Rex Vaughn  
 PO Box 53  
 Greenbush, MI 48738

DESCRIPTION	QTY	P.O. NO.	TERMS
		2021-2021 Budget	Net 30
DESCRIPTION	QTY	RATE	AMOUNT
Professional Engineer - Task 1	2	150.00	300.00
Senior Scientist/ Principal - Task 1	2	190.00	380.00
Field Services Manager - Task 2	0.5	65.00	32.50
Environmental Engineer I - Task 2	1	95.00	95.00
Professional Engineer - Task 4	1.5	150.00	225.00
Senior Scientist/ Principal - Task 4	3.25	190.00	617.50
Field Services Manager - Task 4	3.5	65.00	227.50
Field Services Manager - Task 6	1.5	65.00	97.50
Senior Scientist/ Principal - Task 6	0.75	190.00	142.50
<p>This invoice is for professional services rendered through May 31, 2021, as related to Cedar Lake Improvement Bd. 2021-2022 Budget.</p>			
<b>Total</b>			USD 2,117.50

Please remit payment to Kieser & Associates, LLC  
 For questions, please contact Becky Hough.

Phone #	Fax #
2693447117	(269) 344-2493

**Kieser & Associates, LLC**  
**Time by Job Detail**  
April 19 through May 31, 2021

Cedar Lake Improvement Bd. (2021)	Date	Name	Duration	Cost	Notes
<b>Cedar Lake Improvement Bd. (2021-2022): Task 1 - Client Coordination</b>					
	04/21/2021	Jacobson, John	1.00	150.00	Cedar Lake Discussions: 2021 Timberlake's proposal & Outlet Proposal
	04/22/2021	Jacobson, John	1.00	150.00	Cedar Lake Discussions 2021 Outlet Proposal
	05/07/2021	Kieser, Mark	2.00	380.00	Board call participation; follow-up
<b>Total Cedar Lake Improvement Bd. (2020-2021): Task 1:</b>			<b>4.00</b>	<b>680.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 2 - Watershed Management Plan Update</b>					
	04/20/2021	Kieser, Josh	0.50	32.50	Edits to WMP.
	04/21/2021	Foster, Mike	1.00	95.00	Data and model flow analysis
<b>Total Cedar Lake Improvement Bd. (2020-2021): Task 2:</b>			<b>1.50</b>	<b>127.50</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 4 - Lake Hydrology</b>					
	05/20/2021	Jacobson, John	1.50	225.00	Cedar Lake Outlet Review and elevation review
	05/20/2021	Kieser, Mark	2.50	475.00	Lake Levels and Hydrology
	05/25/2021	Kieser, Mark	0.50	95.00	Outlet Legal Issues; Flow Metering
	05/26/2021	Kieser, Mark	0.25	47.50	Outlet Flow metering issues discussion with John Jacobson
	05/14/2021	Kieser, Josh	1.50	97.50	Preparations for AV order and quote and accesory inquires.
	05/17/2021	Kieser, Josh	1.50	97.50	Final decisions on lake outlet monitoring device, specs. & function review, coord.
	05/19/2021	Kieser, Josh	0.50	32.50	Coordination with HESCO on outlet flow logger order placement.
<b>Total Cedar Lake Improvement Bd. (2020-2021): Task 4:</b>			<b>8.25</b>	<b>1,070.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 6 - Phase III Augmentation Assesment - Stage 1</b>					
	05/21/2021	Kieser, Josh	1.50	97.50	Augmentation well -background research & planning for sampling.
	05/21/2021	Kieser, Mark	0.75	142.50	Sampling Strategy
<b>Total Cedar Lake Improvement Bd. (2020-2021): Task 6 - Stage 1:</b>			<b>2.25</b>	<b>240.00</b>	
<b>TOTAL - CEDAR LAKE IMPROVEMENT BD. (2021-2022):</b>			<b>16.00</b>	<b>2,117.50</b>	

536 E. Michigan Avenue  
 Suite 300  
 Kalamazoo, MI 49007

# Invoice

DATE	INVOICE #
8/9/2021	21-194

**BILL TO:**

Cedar Lake Improvement Bd.  
 C/o Rex Vaughn  
 PO Box 53  
 Greenbush, MI 48738

DESCRIPTION	QTY	P.O. NO.	TERMS
		2021-2022 Budget	Net 30
		RATE	AMOUNT
Field Services Manager - Task 1	0.5	65.00	32.50
Professional Engineer - Task 4	0.5	150.00	75.00
Field Services Manager - Task 6	25.75	65.00	1,673.75
Senior Scientist/ Principal - Task 6	2.25	190.00	427.50
Professional Engineer - Task 6	4.5	150.00	675.00
Project Scientist II - Task 6	6.5	65.00	422.50
Project Scientist II - Task 6	6.5	65.00	422.50
Environmental Engineer I - Task 6	1	95.00	95.00
Mileage - to/from lake 6/16/21 - Approx. 520 Miles - Task 6	520	0.56	291.20
Mileage - 7/01/21 - Approx. 260 Miles (one-way) - Task 6	260	0.56	145.60
Enviro Lab Services - Invoice# 100748, 6/16/21 - Task 6		700.00	700.00
Merit Labs - Invoice ID: 25871 - Task 6		1,086.00	1,086.00
Speedway - Food, 6/30/21 - Task 6		10.00	10.00
Family Fare, Sampling Supply, 7/01/21 - Task 6		6.22	6.22
Fresh Kitchen, G. Metzner & J. Utrie, 7/01/21 - Task 6		30.00	30.00
Culvers, Food, G. Metzner & J Utrie, 7/01/21 - Task 6		14.37	14.37
Field Services Manager - Task 7	1.5	65.00	97.50
<p>This invoice is for professional services rendered between June 1, 2021 &amp; July 31, 2021, as related to Cedar Lake Improvement Board, 2021-2022 Budget.</p>			
<p>Please remit payment to Kieser &amp; Associates, LLC          For questions, please contact Becky Hough.</p>		<b>Total</b>	USD 6,204.64

Phone #	Fax #
(269) 344-7117	(269) 344-2493

# Kieser & Associates, LLC

## Time by Job Detail

June 1, 2021 - July 31, 2021

Cedar Lake Improvement Bd. ('21-'22)	Date	Name	Duration	Cost	Notes
<b>Cedar Lake Improvement Bd. (2021-2022): Task 1 - Client Coordination</b>					
	07/15/2021	Kieser, Josh	0.50	32.50	Communciations with lab for client update on sediment sample costs.
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 1:</b>			<b>0.50</b>	<b>32.50</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 4A-Lake Hydrology-Flow Meter/Logger</b>					
	06/17/2021	Jacobson, John	0.50	75.00	Cedar Lake Outlet Structure Calculations
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 4A:</b>			<b>0.50</b>	<b>75.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 6-Phase 3 Augmentation Assmt-Stage 1</b>					
	06/09/2021	Kieser, Josh	2.50	162.50	Develope PFAS sampling strategy, lab communications, draf strategy email to R. Vaughn.
	06/10/2021	Kieser, Josh	0.50	32.50	Laboratory communications and drafting comparison table.
	06/14/2021	Kieser, Josh	2.00	130.00	Final communications w/ analytical lab & client, mobilization of sampling gear & protocol rev
	06/16/2021	Kieser, Josh	9.75	633.75	Travel to site, lab coord, augmentation well sampling, lake outlet measurements, lab sample
	06/17/2021	Kieser, Josh	3.00	195.00	Demobilize, data review & entry, review flow estimates w/ J.Jacobson, communication
	06/22/2021	Kieser, Josh	2.00	130.00	Review Augmentation well results, communications with client on results & website updates
	06/24/2021	Kieser, Josh	2.00	130.00	Augmentation Well PFAS Sampling - follow up with R.Vaughn. Cedar Lake Website
	06/29/2021	Kieser, Josh	0.50	32.50	Planning and lab coordination for second round of augmentation well sampling.
	07/06/2021	Kieser, Josh	1.00	65.00	Augmentation well sampling communications with EGLE.
	07/26/2021	Kieser, Josh	2.50	162.50	Review Merit PFAS sample results & craf comparison table, review regional PFAS data
	06/09/2021	Kieser, Mark	1.25	237.50	PFAS Sampling Strategy
	07/26/2021	Kieser, Mark	2.25	427.50	PFAS - Discussion of resurts/ next steps/ Rex V. Coord.
	07/26/2021	Jacobson, John	2.00	300.00	Cedar Lake Augmentation Review and discussions
	07/28/2021	Jacobson, John	2.50	375.00	Cedar Lake Task 6 Phase III Augmentation Assessment - Review of WW Report
	07/01/2021	Metzner, Gabrielle	6.50	422.50	PFAS Sampling and Dropping off samples at Merit Lab
	07/01/2021	Utrie, Jacob	6.50	422.50	PFAS Sampling and Dropping off samples at Merit Lab
	06/22/2021	Foster, Mike	1.00	95.00	Well and PFAS calculations
	06/16/2021	Mileage		291.20	Mileage to/from Cedar Lake - Approx 520 Miles
	07/01/2021	Mileage		145.60	Mileage from Cedar Lake (1-way only... other way charged to LakeScan)
	06/21/2021	Enviro Lab Srvc		700.00	Invoice# 100748, Groundwater Samples Collected 6/16/21
	07/28/2021	Merit Labs		1,086.00	Invoice ID: 25871



# Kieser & Associates, LLC

## Time by Job Detail

June 1, 2021 - July 31, 2021

<b>Cedar Lake Improvement Bd. ('21-'22)</b>	<b>Date</b>	<b>Name</b>	<b>Duration</b>	<b>Cost</b>	<b>Notes</b>
	06/30/2020	Speedway-Food		10.00	Speedway - Food, 6/30/21
	07/01/2021	FamilyFare		6.22	FamilyFare, 7/1/21, Sampling Supplies
	07/01/2021	Fresh Kitchen		30.00	The Fresh Kitchen, Oscoda - Food for G. Metzner & J. Utrie
	07/01/2021	Culvers		14.37	Culvers, Charlotte, MI - Food - Gabby Metzner & Jacob Utrie, 7/01/21
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 6:</b>			<b>47.75</b>	<b>6,237.14</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 7 - Web Maint. &amp; Hosting Fees</b>					
	07/15/2021	Kieser, Josh	1.00	65.00	Initial draft updates to website.
	07/23/2021	Kieser, Josh	0.50	32.50	Editing website.
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 7:</b>			<b>1.50</b>	<b>97.50</b>	
<b>TOTAL - CEDAR LAKE IMPROVEMENT BD. (2021-2022):</b>			<b>50.25</b>	<b>6,442.14</b>	

Enviro Lab Services  
 7149 Cedar Lake Road  
 Oscoda, MI 48750

# Invoice

Date	Invoice #
6/21/2021	100748

Bill To
Kieser & Associates, LLC. 536 E. Michigan Ave. Suite 300 Kalamazoo, MI 49007

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
2	Groundwater Samples collected on 6/16/21  <i>Cedar Lake Augmentation Well Sampling</i>	350.00	700.00
Thank you for choosing our lab for your PFAS testing needs.		<b>Total</b>	\$700.00

SPEEDWAY 0005503-Oscoda, MI  
 5211 N US Highway 23 48750-9560  
 (989)739-0422 6/30/2021 7:27:01 PM  
 Trans# 961316 Reg: 2  
 Subrina A.

4 SMARTWATER 1LITER SINGLE 10.36  
 2 SPEEDY CHOICE DONUT MINI 2.98  
 1 SPEEDY CHOICE DONUTS 2 FO -0.98  
 1 SMARTWATER 2F4.00 -1.18  
 1 SMARTWATER 2F4.00 -1.18

Sub. Total: \$10.00  
 Tax: \$0.00  
 Total: \$10.00

Visa: \$10.00  
 Change \$0.00

CARD TYPE: Visa  
 Card Num : XXXXXXXXXXXX2390  
 ENTRY METHOD: Chip Card

TRANS TYPE: SALE  
 APPROVAL CODE: 09739D

USD\$ 10.00

CAPITAL ONE VISA  
 AID: A0000000031010

www.speedway.com

# FAMILY FARE.

KEEPING IT REAL™

5463 N. Huron Rd. Oscoda MI 48750

Phone (989) 739-0090

Thursday, 07/01/21 8:08 AM  
 Your Cashier is: BRENDA

ZIPLOC FREEZER BAG 3.99 T  
 BAG ICE CUBES  
 1 @ 1.99 1.99  
 Tax .24 Total 6.22

Visa 6.22

Acct # \*\*\*\*\*2390  
 CHIP  
 Purchase

Label: CAPITAL ONE VISA  
 AID: A0000000031010  
 TVR: 0880008000  
 IAD: 06011203A02000  
 TSI: E800  
 ARC: 00

Authorization # 04925D 3968

CHANGE .00

07/01/21 08:08 Good Morning! Lane 005  
 Cashier 226038 Store 1519 Trx 4

You could have saved \$\$\$ today  
 with a yes card. Sign-up today!

Dulver's 763  
 Charlotte, MI  
 517-977-6207

Reg# Trn# 201207 7/1/2021 6:58:39 PM

## \*To Go

1 FRY SH 2.99  
 1 FRY 2.99  
 1 CONCRETE SHRT 4.00  
 Sub Chor  
 Cookie Dough  
 FB Dip  
 1 CONCRETE ACS 4.00  
 Sub Chor  
 Dner

Subtotal: \$13.96  
 Tax: \$0.01  
 Total: \$14.37  
 Discount Total: \$0.00

Visa: \$14.37  
 Change \$0.00

Welcome to Delicious!  
 BUCST 63

Gabby Metzner

From:  
 To:  
 Subject:

The Fresh Kitchen (via Clover) <app@clover.com>  
 Thursday, July 1, 2021 2:22 PM  
 Gabby Metzner  
 Your receipt from The Fresh Kitchen



## The Fresh Kitchen

2665 SHORT RD, LUPTON, MI 48635  
 +1 989-240-1176

July 01, 2021 2:21 PM

**\$30.00**



# Invoice

**Merit Laboratories**  
2680 East Lansing Drive  
East Lansing, MI 48823  
Phone: (517) 332-0167 Fax: (517) 332-6333

Invoice ID: 25871  
Invoice Date: 07/28/2021

Federal Tax #: 38-2690076  
Customer Billing Code: KIE01A

Invoice to:  
Attention: Becky Hough  
Kieser & Associates  
536 E. Michigan Ave.  
Suite 300  
Kalamazoo, MI 49007

Report to:  
Attention: Josh Kieser  
Kieser & Associates  
536 E. Michigan Ave. Ste 300  
Kalamazoo, MI 49007

Phone: 369-344-7117 FAX:  
Email: BHough@kieser-associates.com

Phone: 269-344-7117 FAX:  
Email: JKieser@kieser-associates.com

Samples Submitted: 07/02/2021 Samples First Reported: 07/23/2021  
Project: Cedar Lake - TPW-1

Purchase Order #:

*Cedar Lake*

Invoiced Sample ID(s): S25871.01-S25871.03

Invoice Total Due: \$ 1086.00 Payment Due Date: 08/27/2021	Remit payment to: Merit Laboratories Accounts Receivable 2680 East Lansing Drive East Lansing, MI 48823
Authorized by: <i>Meyer Mushak</i>	

For a detailed list of the samples billed on this invoice and the itemized billing parameters see attached pages.

Please return the page marked 'Customer Return Copy' with payment. Thank you for using Merit Laboratories.  
If you have any questions, please contact Barbara Ball (bball@meritlabs.com) or John Laverty (johnlaverty@meritlabs.com).

536 E. Michigan Avenue  
 Suite 300  
 Kalamazoo, MI 49007

# Invoice

DATE	INVOICE #
10/8/2021	21-229

**BILL TO:**

Cedar Lake Improvement Bd.  
 C/o Rex Vaughn  
 PO Box 53  
 Greenbush, MI 48738

DESCRIPTION	QTY	P.O. NO.	TERMS
		2021-2022 Budget	Net 30
		RATE	AMOUNT
Senior Scientist/ Principal - Task 2	2.5	190.00	475.00
Field Services Manager - Task 2	5.5	65.00	357.50
Field Services Manager - Task 4D	3	65.00	195.00
Field Services Manager - Task 4E	2	65.00	130.00
Professional Engineer - Task 4E	0.5	150.00	75.00
Senior Scientist/ Principal - Task 4E	0.5	190.00	95.00
Senior Scientist/ Principal - Task 6A	2.5	190.00	475.00
Field Services Manager - Task 6A	11	65.00	715.00
Merit Labs - Invoice ID: 27503, 9/26/21 - Task 6A		1,086.00	1,086.00
Professional Engineer - Task 6B	10.5	150.00	1,575.00
Senior Scientist/ Principal - Task 6B	3	190.00	570.00
Field Services Manager - Task 10	11	65.00	715.00
Environmental Engineer I - Task 10	1	95.00	95.00
Senior Scientist/ Principal - Task 10	1.5	190.00	285.00
Project Technician - Task 10	14	45.00	630.00
Merit Labs - Invoice ID: 27505, 9/26/21 - Task 10		2,896.00	2,896.00
Merit Labs - Invoice ID: 27504, 9/28/21 - Task 10		1,544.00	1,544.00
Boat & Meter Use Fee, 8/25/21 - Task 10		150.00	150.00
<p>This invoice is for professional services rendered between August 1, 2021 &amp; September 30, 2021, as related to Cedar lake Improvement Bd. 2021-2022 Budget.</p>			
		<b>Total</b>	USD 12,063.50

Please remit payment to Kieser & Associates, LLC  
 For questions, please contact Becky Hough.

Phone #	Fax #
(269) 344-7117	(269) 344-2493

**Kieser & Associates, LLC**  
**Time by Job Detail**  
**August - September, 2021**

Cedar Lake Improvement Bd. (2021-2022)	Date	Name	Duration	Cost	Notes
<b>Cedar Lake Improvement Bd. (2021-2022): Task 2 - Watershed Management Plan Rollout/ Finalization</b>					
	09/08/2021	Kieser, Mark	2.50	475.00	WMP update needs/ discussions with Josh Kieser
	09/08/2021	Kieser, Josh	2.00	130.00	WMP Discussions
	09/23/2021	Kieser, Josh	3.50	227.50	WMP Updates/ Next Steps
<b>Total Cedar Lake: Task 2 - Watershed Management Plan Rollout/ Fin.:</b>			<b>8.00</b>	<b>832.50</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 4D-Annual Hydrology Report-2021 Data</b>					
	09/07/2021	Kieser, Josh	3.00	195.00	Preparing 2021 Hydrology Data Templates and drafting 2021 Hydrology Report Template.
<b>Total Cedar Lake: Task 4D-Annual Hydrology Report-21 Data:</b>			<b>3.00</b>	<b>195.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 4E-Late 2020 Lake Level Fluc. Assess</b>					
	09/01/2021	Kieser, Josh	2.00	130.00	Assessing lake outlet flow measurements and communication with client.
	09/01/2021	Jacobson, John	0.50	75.00	Assessing outflow measurements
	09/01/2021	Kieser, Mark	0.50	95.00	Outflow measurement review
<b>Total Cedar Lake: Task 4E-Late 2020 Lake Level Fluc. Assess:</b>			<b>3.00</b>	<b>300.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022) - Task 6: Phase 3 Augmentation Assessment - Stage 1</b>					
	08/23/2021	Kieser, Mark	2.50	475.00	Prep of field purging equipment and procedure QA/QC
	08/24/2021	Kieser, Josh	11.00	715.00	Mobilize, lab coord, travel, purge augmentation well, sampling augmentation well
	09/26/2021	Merit Labs		1086.00	Invoice ID: 27503, 9/26/21
<b>Total Cedar Lake: Task 6: Phase 3 Augmentation Assessment - Stage 1:</b>			<b>13.50</b>	<b>2,276.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 6: Phase 3 Augmentation Assmt- Stage 2</b>					
	09/22/2021	Jacobson, John	1.50	225.00	Cedar Lake Augmentation and Review
	09/23/2021	Jacobson, John	3.50	525.00	Cedar Lake Augmentation and Review; discussion with Rex.
	09/27/2021	Jacobson, John	2.00	300.00	Cedar Lake Augmentation and Review - video with Rex
	09/28/2021	Jacobson, John	1.50	225.00	Cedar Lake Augmentation and Review - Notes and plan going forward
	09/29/2021	Jacobson, John	2.00	300.00	Cedar Lake Augmentation and Review - review lake levels and database

**Kieser & Associates, LLC**  
**Time by Job Detail**  
**August - September, 2021**

Cedar Lake Improvement Bd. (2021-2022)	Date	Name	Duration	Cost	Notes
	09/27/2021	Kieser, Mark	2.00	380.00	Review historic data and call with Rex V.
	09/28/2021	Kieser, Mark	1.00	190.00	Strategy for assessing implementation benefits
<b>Total Cedar Lake: Task 6-Phase 3 Augmentation Assmt-Stage 2:</b>			<b>13.50</b>	<b>2,145.00</b>	
 <b>Cedar Lake Improvement Bd. (2021-2022) - Task 10: Sediment Sampling:</b>					
	08/17/2021	Kieser, Josh	1.00	65.00	Sediment Sampling - reviewing requirements and drafting plan.
	08/25/2021	Kieser, Josh	5.00	325.00	Sediment Toxicity Sampling -mobilize, sediment sampling, lab coord & sample processing
	08/30/2021	Kieser, Josh	3.00	195.00	Sediment Sampling - draft technical memo for sediment sampling efforts.
	09/21/2021	Kieser, Josh	2.00	130.00	Sediment Sampling: coord with laboratory on results, comparison of results to WRD
	08/04/2021	Foster, Mike	1.00	95.00	Review of previous sediment and pumping reports
	09/21/2021	Kieser, Mark	1.50	285.00	Review of sediment sampling results
	08/25/2021	Harrison, Zach	11.00	495.00	Sediment sampling with Josh and Jake, and drive home from Cedar Lake
	08/26/2021	Harrison, Zach	1.50	67.50	Equipment Clean-up
	09/03/2021	Harrison, Zach	1.50	67.50	Sediment Sampling powerpoint creation from august survey
	09/26/2021	Merit Labs		2896.00	Invoice ID: 27505, 9/26/21
	09/28/2021	Merit Labs		1544.00	Invoice ID: 27504, 9/28/21
	08/25/2021	Boat & Meter Use Fee		150.00	Boat & Meter Use Fee, 8/25/21
<b>Total Cedar Lake (2021-2022): Task 10: Sediment Sampling:</b>			<b>27.50</b>	<b>6,315.00</b>	
 <b>TOTAL - CEDAR LAKE IMPROVEMENT BD. (2021-2022):</b>			<b>68.50</b>	<b>12,063.50</b>	



# INVOICE

**Merit Laboratories**  
**2680 East Lansing Drive**  
**East Lansing, MI 48823**

**Phone: (517) 332-0167 Fax: (517) 332-6333**

Invoice ID: 27503  
Invoice Date: 09/26/2021

Federal Tax #: 38-2690076  
Customer Billing Code: KIE01A

Invoice to:  
\_\_\_\_\_  
Attention: Becky Hough  
Kieser & Associates  
536 E. Michigan Ave.  
Suite 300  
Kalamazoo, MI 49007

Report to:  
\_\_\_\_\_  
Attention: Josh Kieser  
Kieser & Associates  
536 E. Michigan Ave. Ste 300  
Kalamazoo, MI 49007

\_\_\_\_\_  
Phone: 369-344-7117      FAX:  
Email: BHough@kieser-associates.com

\_\_\_\_\_  
Phone: 269-344-7117      FAX:  
Email: JKieser@kieser-associates.com

Samples Submitted: 08/25/2021      Samples First Reported: 09/16/2021  
Project: Cedar Lake

Purchase Order #:

Invoiced Sample ID(s): S27503.01-S27503.03

*Aug-Well Sampling*

Invoice Total Due: \$ 1086.00 Payment Due Date: 10/26/2021	Remit payment to: Merit Laboratories Accounts Receivable 2680 East Lansing Drive East Lansing, MI 48823
Authorized by: <i>Maya Moshko</i>	

For a detailed list of the samples billed on this invoice and the itemized billing parameters see attached pages.

Please return the page marked 'Customer Return Copy' with payment. Thank you for using Merit Laboratories.  
If you have any questions, please contact Barbara Ball (bball@meritlabs.com) or John Laverty (johnlaverty@meritlabs.com).





# INVOICE

**Merit Laboratories**  
**2680 East Lansing Drive**  
**East Lansing, MI 48823**  
**Phone: (517) 332-0167 Fax: (517) 332-6333**

Invoice ID: 27505  
Invoice Date: 09/26/2021

Federal Tax #: 38-2690076  
Customer Billing Code: KIE01A

Invoice to:  
\_\_\_\_\_  
Attention: Becky Hough  
Kieser & Associates  
536 E. Michigan Ave.  
Suite 300  
Kalamazoo, MI 49007

Report to:  
\_\_\_\_\_  
Attention: Josh Kieser  
Kieser & Associates  
536 E. Michigan Ave. Ste 300  
Kalamazoo, MI 49007

Phone: 369-344-7117 FAX:  
Email: BHough@kieser-associates.com

Phone: 269-344-7117 FAX:  
Email: JKieser@kieser-associates.com

Samples Submitted: 08/25/2021 Samples First Reported: 09/16/2021  
Project: Cedar Lake

Purchase Order #:

Invoiced Sample ID(s): S27505.01-S27505.08

*Cedar Lake Sediment Sampling - Task #10*

Invoice Total Due: \$ 2896.00 Payment Due Date: 10/26/2021	Remit payment to: Merit Laboratories Accounts Receivable 2680 East Lansing Drive East Lansing, MI 48823
Authorized by: <i>Maya Mushak</i>	

For a detailed list of the samples billed on this invoice and the itemized billing parameters see attached pages.

Please return the page marked 'Customer Return Copy' with payment. Thank you for using Merit Laboratories.  
If you have any questions, please contact Barbara Ball (bball@meritlabs.com) or John Laverty (johnlaverty@meritlabs.com).



# INVOICE

Merit Laboratories  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 Fax: (517) 332-6333

Invoice ID: 27504  
Invoice Date: 09/28/2021

Federal Tax #: 38-2690076  
Customer Billing Code: KIE01A

Invoice to:  
Attention: Becky Hough  
Kieser & Associates  
536 E. Michigan Ave.  
Suite 300  
Kalamazoo, MI 49007

Report to:  
Attention: Josh Kieser  
Kieser & Associates  
536 E. Michigan Ave. Ste 300  
Kalamazoo, MI 49007

Phone: 369-344-7117 FAX:  
Email: BHough@kieser-associates.com

Phone: 269-344-7117 FAX:  
Email: JKieser@kieser-associates.com

Samples Submitted: 08/25/2021 Samples First Reported: 09/02/2021  
Project: Cedar Lake

Purchase Order #:

Invoiced Sample ID(s): S27504.01-S27504.08

Cedar Lake Sediment Sampling  
Task #10

Invoice Total Due: \$ 1544.00 Payment Due Date: 10/28/2021	Remit payment to: Merit Laboratories Accounts Receivable 2680 East Lansing Drive East Lansing, MI 48823
Authorized by: <i>Marya Mushahy</i>	

For a detailed list of the samples billed on this invoice and the itemized billing parameters see attached pages.

Please return the page marked 'Customer Return Copy' with payment. Thank you for using Merit Laboratories.  
If you have any questions, please contact Barbara Ball (bball@meritlabs.com) or John Laverty (johnlaverty@meritlabs.com).

536 E. Michigan Avenue  
 Suite 300  
 Kalamazoo, MI 49007

# Invoice

DATE	INVOICE #
11/16/2021	21-250

**BILL TO:**

Cedar Lake Improvement Bd.  
 C/o Rex Vaughn  
 PO Box 53  
 Greenbush, MI 48738

P.O. NO.	TERMS
2021-2022	Net 30

DESCRIPTION	QTY	RATE	AMOUNT
Senior Scientist/ Principal - Task 2	2.5	190.00	475.00
Professional Engineer - Task 6B	24	150.00	3,600.00
Environmental Engineer I - Task 6B	2.5	95.00	237.50
Senior Scientist/ Principal - Task 6B	1	190.00	190.00
Environmental Engineer I - Task 7	0.5	95.00	47.50
Project Scientist III - Task 7	4.5	60.00	270.00
<p>This invoice is for professional services rendered between Oct. 1, 2021 &amp; Oct. 31, 2021, as related to the Cedar Lake Improvement Bd., 2021-2022 Budget.</p>			

Please remit payment to Kieser & Associates, LLC  
 For questions, please contact Becky Hough.

<b>Total</b>	USD 4,820.00
--------------	--------------

Phone #	Fax #
(269) 344-7117	(269) 344-2493

**Kieser & Associates, LLC**  
**Time by Job Detail**  
October 2021

<b>Cedar Lake Improvement Bd. (2021-2022)</b>	<b>Date</b>	<b>Name</b>	<b>Duration</b>	<b>Cost</b>	<b>Notes</b>
<b>Cedar Lake Improvement Bd. (2021-2022): Task 2 - Watershed Mgmt. Plan Rollout</b>					
	10/21/2021	Kieser, Mark	2.50	475.00	WMP DRAFT wrap up & submission to Rex
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 2:</b>			<b>2.50</b>	<b>475.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 6-Phase 3 Augmentation Assmt- Stage 2</b>					
	10/04/2021	Jacobson, John	5.00	750.00	Augmentation & Review - Notes & plan going forward
	10/11/2021	Jacobson, John	5.00	750.00	Review and analysis of lake data
	10/13/2021	Jacobson, John	4.00	600.00	Cedar Lake Augmentation Stud
	10/14/2021	Jacobson, John	2.50	375.00	Cedar Lake Augmentation Study Review of Well Data.
	10/18/2021	Jacobson, John	5.00	750.00	Augmentation Study Review of Well Data & past hydraulic reports.
	10/20/2021	Jacobson, John	2.50	375.00	Augmentation Study Review of Well Data & past hydraulic reports.
	10/04/2021	Foster, Mike	1.00	95.00	Meeting with John Jacobson on flow analysis
	10/18/2021	Foster, Mike	1.00	95.00	Meetings with John Jacobson on Cedar Lake water balance
	10/18/2021	Foster, Mike	0.50	47.50	Water balance calculations
	10/18/2021	Kieser, Mark	1.00	190.00	Augmentation mass balance review
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 6- Phase 3-Stage 2:</b>			<b>27.50</b>	<b>4,027.50</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 7 - Web Maint. &amp; Hosting Fees</b>					
	10/18/2021	Foster, Mike	0.50	47.50	Webpage troubleshooting
	10/18/2021	Harrison, Zach	2.50	150.00	Updating the Cedar Lake Website
	10/20/2021	Harrison, Zach	1.00	60.00	Work on the Cedar Lake Website
	10/21/2021	Harrison, Zach	1.00	60.00	Finished Updates/Work on Cedar Lake Website
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 7:</b>			<b>5.00</b>	<b>317.50</b>	
<b>TOTAL - CEDAR LAKE IMPROVEMENT BD. (2021-2022):</b>			<b>35.00</b>	<b>4,820.00</b>	

536 E. Michigan Avenue  
 Suite 300  
 Kalamazoo, MI 49007

# Invoice

DATE	INVOICE #
12/7/2021	21-255

**BILL TO:**

Cedar Lake Improvement Bd.  
 C/o Rex Vaughn  
 PO Box 53  
 Greenbush, MI 48738

DESCRIPTION	QTY	P.O. NO.	TERMS
		2021-2022 Budget	Net 30
		RATE	AMOUNT
Professional Engineer - Task 1	2	150.00	300.00
Senior Scientist/ Principal - Task 1	3	190.00	570.00
Senior Scientist/ Principal - Task 4A	4.5	190.00	855.00
Professional Engineer - Task 4A	13	150.00	1,950.00
Project Scientist III - Task 4B	10.5	60.00	630.00
Environmental Engineer I - Task 4B	8.25	95.00	783.75
Senior Scientist/ Principal - Task 4B	0.25	190.00	47.50
Field Services Manager - Task 4B	8.25	65.00	536.25
Project Scientist III - Task 4D	21.5	60.00	1,290.00
Professional Engineer - Task 4D	4.5	150.00	675.00
Senior Scientist/ Principal - Task 4D	2.5	190.00	475.00
Professional Engineer - Task 6- Phase 3- Stage 2	8	150.00	1,200.00
Project Scientist III - Task 6 - Phase 3 - Stage 2	1	60.00	60.00
<p>This invoice is for professional services rendered between November 1, 2021 &amp; November 30, 2021, as related to the Cedar Lake Improvement Bd. 2021-2022 Budget.</p>			
		<b>Total</b>	USD 9,372.50

Please remit payment to Kieser & Associates, LLC  
 For questions, please contact Becky Hough.

Phone #	Fax #
(269) 344-7117	(269) 344-2493

**Kieser & Associates, LLC**  
**Time by Job Detail**  
November 2021

<b>Cedar Lake Improvement Bd. ('21-'22)</b>	<b>Date</b>	<b>Name</b>	<b>Duration</b>	<b>Cost</b>	<b>Notes</b>
<b>Cedar Lake Improvement Bd. (2021-2022): Task 1 - Client Coordination</b>					
	11/11/2021	Jacobson, John	2.00	300.00	Cedar Lake Jones Creek Support - Discussion & prep. with Rex
	11/04/2021	Kieser, Mark	0.25	47.50	CLIB meeting coordination
	11/11/2021	Kieser, Mark	1.00	190.00	Call with Rex V.
	11/19/2021	Kieser, Mark	0.50	95.00	Jones Creek property purchase considerations
	11/22/2021	Kieser, Mark	0.25	47.50	Considerations for purchase
	11/22/2021	Kieser, Mark	0.25	47.50	Jones Creek logger damage/ alternatives
	11/29/2021	Kieser, Mark	0.75	142.50	Jones Creek site considerations/ memo
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 1:</b>			<b>5.00</b>	<b>870.00</b>	
 <b>Cedar Lake Improvement Bd. (2021-2022): Task 4A Flow Meter/ Logger for New Outlet Structure</b>					
	11/22/2021	Kieser, Mark	1.75	332.50	Outlet hydrology consideration/ monitoring
	11/30/2021	Kieser, Mark	2.75	522.50	Options for outlet loggers/ mass balance
	11/22/2021	Jacobson, John	6.00	900.00	Cedar Lake outlet monitoring needs
	11/24/2021	Jacobson, John	7.00	1050.00	Permit for Outlet / Coord
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 4A:</b>			<b>17.50</b>	<b>2,805.00</b>	
 <b>Cedar Lake Improvement Bd. (2021-2022): Task 4B- Lake Hydrology-Seasonal Logger Data Download/Retrieval (November)</b>					
	11/11/2021	Harrison, Zach	0.50	30.00	Coord. Cedar Lake logger removal with Mike, Josh, & Rex
	11/16/2021	Harrison, Zach	1.75	105.00	Preparing for Cedar Lake logger pickup on 11/17
	11/17/2021	Harrison, Zach	8.25	495.00	logger collection and winter logger re-deploy,
	11/17/2021	Foster, Mike	8.25	783.75	End of season logger retrieval and winter setup
	11/16/2021	Kieser, Mark	0.25	47.50	Field Team Coord.
	11/17/2021	Kieser, Josh	8.25	536.25	Seasonal Level Logger Removal/Replacement with winter loggers
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 4B:</b>			<b>27.25</b>	<b>1,997.50</b>	
 <b>Cedar Lake Improvement Bd. (2021-2022): Task 4D- Annual Hydrology Report-2021 Data</b>					
	11/18/2021	Harrison, Zach	7.50	450.00	Creating figures for Cedar Lake data
	11/19/2021	Harrison, Zach	6.50	390.00	Hydrology data review + consolidation

**Kieser & Associates, LLC**  
**Time by Job Detail**  
November 2021

<b>Cedar Lake Improvement Bd. ('21-'22)</b>	<b>Date</b>	<b>Name</b>	<b>Duration</b>	<b>Cost</b>	<b>Notes</b>
	11/23/2021	Harrison, Zach	7.50	450.00	Working on Hydrology report narrative
	11/24/2021	Jacobson, John	1.50	225.00	Lake level updates
	11/29/2021	Jacobson, John	3.00	450.00	Lake level hydrology computations
	11/29/2021	Kieser, Mark	2.50	475.00	Lake level hydraulics computations with John
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 4D:</b>			<b>28.50</b>	<b>2,440.00</b>	
<b>Cedar Lake Improvement Bd. (2021-2022): Task 6- Phase 3 Augmentation Assmt-Stage 2</b>					
	11/18/2021	Jacobson, John	2.00	300.00	Cedar Lake - Review of field data and lake augmentation
	11/29/2021	Jacobson, John	6.00	900.00	Lake augmentation - Well update and lake level update
	11/24/2021	Harrison, Zach	1.00	60.00	Helping John with Cedar Lake precip + lake level figures.
<b>Total Cedar Lake Improvement Bd. (2021-2022): Task 6- Phase 3-Stage 2:</b>			<b>9.00</b>	<b>1,260.00</b>	
<b>TOTAL - CEDAR LAKE IMPROVEMENT BD. (2021-2022):</b>			<b>87.25</b>	<b>9,372.50</b>	

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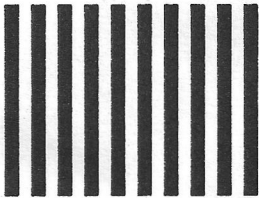
City, State, ZIP Code

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GREENBUSH MI 48738-9998

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Thank you.

- Annual
- Semiannual

\$ \_\_\_\_\_ Amount

Box #53 48738  
CEDAR LAKE IMPROVEMENT BOARD  
6 Months: \$31.00 12 Months: \$62.00  
Due Date: 09/30/2021

## Post Office Box Service Fee Due



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- By check or money order through the mail, using this envelope. Do not send cash by mail. Make your check or money order payable to "U.S. Postal Service." Please write your PO Box number on the check or money order. You will receive a receipt in your PO Box.
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Physical Address \_\_\_\_\_

City, State, ZIP Code™ \_\_\_\_\_

Telephone Number (include area code) \_\_\_\_\_

E-mail Address \_\_\_\_\_

Change to PO Box Use:  Business Use  Residential Use

To: Cedar Lake Improvement Board

Re: Memorandum on Informational Meeting with Diane & David Ries on 10/11/2021

Submitted by: Rex Vaughn

Here is a recap of my meeting with Diane & David Ries, the owners of two (2) parcels in Greenbush Township (040-015-400-100-00 & 041-196-000-068-00). Mr. & Mrs. Ries recently listed their property for sale with Heritage House Realty Oscoda/ AuSable (Mark Kilmer), and that motivated me to dig into the physical details of their two parcels and how the property impacts the suitability of Jones Creek as a source of surface water flow into Cedar Lake.

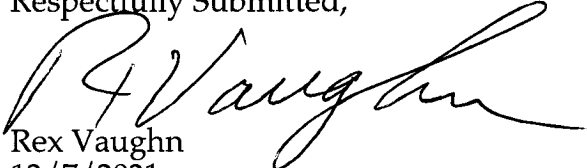
Their property fully encompasses the course of Jones Creek starting on the west side of Cedar Lake Road all the way to the water's edge of Cedar Lake. Their property also extends further west of Cedar Lake Road and includes some of the wetlands that are the source of surface water flowing into Jones Creek. Mr. Ries and I walked the extent of the property and the course of the creek, and he clearly identified the property boundaries. From this layman's point of view, there is no doubt he owns the whole creek.

My interest in meeting with Mr. & Mrs. Ries relates to my obligations as the riparian member and chairman of the Cedar Lake Improvement Board (CLIB). One of the Board's missions, as outlined in the EGLE/EPA approved Cedar Lake Watershed Management Plan (CLWMP), is to undertake projects that will augment and improve the lake level during the recreational season. We have completed two projects on CLIB owned property north of Kings Corner Road, and both projects have met project expectations for enhancing lake level. However, as the 2020/2021 drought has taught us, we need to do more to protect the lake level during extreme weather conditions. The CLWMP identified Jones Creek as an additional seasonal source of surface water flow, that if properly managed, can help augment lake level.

During my visit with Mr. & Mrs. Ries, I broached the topic of them granting a permanent maintenance easement along the creek to allow for future maintenance efforts along the creek, regardless of ownership. They pushed back on that concept as they feared it would affect their ability to sell the property, which is their ultimate objective.

On 10/12/21, I called and talked with Jesse Campbell, ACRC Director/Drain Commissioner, about the Ries property and the opportunity it presented for Cedar Lake level enhancement. We discussed some of the options available to various governmental agencies to protect and maintain the creek in the future. Jesse thought the establishment of a county recognized "drain" could be a good approach, other than the outright purchase of the two parcels by a governmental agency like what the CLIB did with the McDaniels and Aldridge properties in the south end of the county. He indicated he would explore the "drain" concept with his superiors, and I would investigate options with the CLIB at the next Board meeting.

Respectfully Submitted,



Rex Vaughn  
12/7/2021

**To:** Rex Vaughn, Chair  
Cedar Lake Improvement Board

**Date:** November 29, 2021

**From:** Mark Kieser, Senior Scientist  
John Jacobson, PE, Senior Engineer  
Kieser & Associates, LLC

**cc:** Project Files

**RE:** Cedar Lake Hydrology Considerations for CLIB Purchase of the Ries Property

---

K&A is providing relevant Cedar Lake level and hydrology consideration associated with the possible purchase of private property surrounding Jones Creek in the watershed drainage of northwest cedar swamp. These considerations relate to approved Watershed Management Plan recommendations to manage Jones Creek hydrology to benefit lake level needs; both for natural control and potential augmentation well applications.

K&A has completed a preliminary review of the Ries Property described as:

- Parcel ID 040-015-400-100-00 & 041-196-000-068-00
- Address of 3325 W. Cedar Lake Road
- Containing two parcels; one 11.71 acres and one 0.81 acres adjacent to and south of the larger parcel. The larger parcel lies on both sides of W. Cedar Lake Road. The smaller parcel encompasses Jones Creek between W. Cedar Lake Road and Cedar Lake.

Preliminary Site Review Considerations:

- The Ries Property is unique as it encompasses the outflow of the Jones Creek Marsh and Jones Creek from the outflow at W. Cedar Lake Road to Cedar Lake.
- The 2011 Augmentation Study and current K&A pumping calculations suggest that at least two well sites, each producing 500 gallons per minute, will likely be needed to maintain desirable lake levels during dry recreational seasons on Cedar Lake. Locating a well site closer to the north end of the lake, particularly within or near the Jones Creek Marsh, is advantageous. The Ries Parcel would facilitate this need in addition to the Sherman Creek property already under CLIB control. The Ries property will accomplish this by providing:
  - A location for one or more of the wells associated with this potential northern augmentation well site.
  - Access to a possible well site for electricity.
  - A pathway for discharge of the well water through Jones Creek Marsh and Jones Creek.
- The Ries Property, once purchased may be split into appropriate parcels to minimize further ownership and needs; that is:
  - A parcel containing Jones Creek and appurtenances to be petitioned to be a county drain.

- A parcel containing well locations, power access and controls for a possible northern augmentation well site.
- A lake access property with a residence that could be sold off to mitigate any costs of purchasing and development for augmentation.
- The Ries Property appears to be an advantageous purchase for the CLIB under the Watershed Management Plan:
  - It provides for ownership of a parcel of land that is identified in the watershed management plan to be improved for Cedar Lake augmentation of both surface flows and infiltration.
  - It provides for ownership of a parcel that provides access to land for installation of augmentation wells.
  - It supports the control of surface water flows to the Lake.

It is K&A's opinion that if the CLIB has the opportunity to purchase this property, CLIB control will benefit long-term lake level management needs.

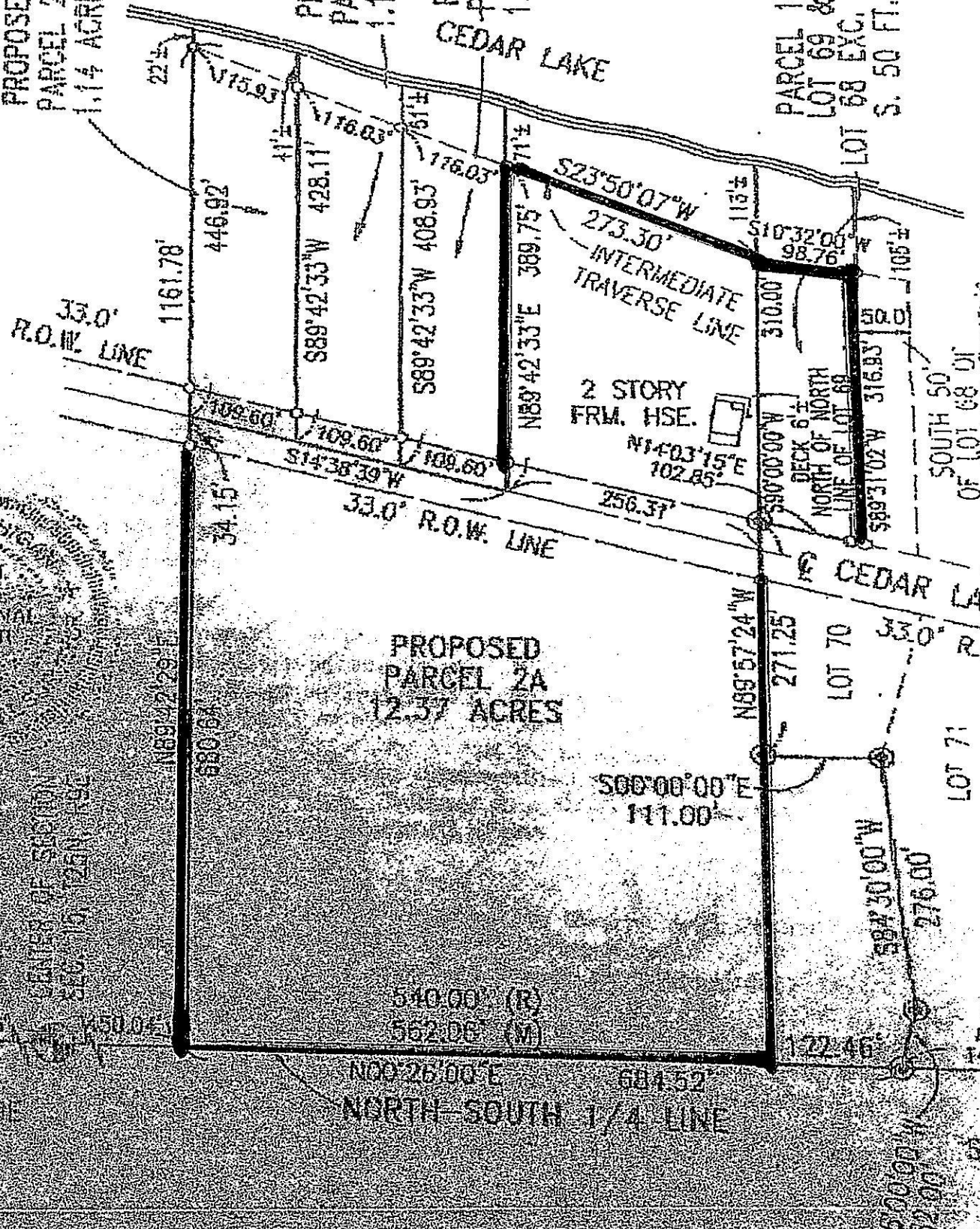
OF THE SOUTHEAST 1/4 OF SECTION 15, T25N, R9E, GREENBUSH TOWNSHIP, ALCONA COUNTY

PROPOSED  
PARCEL 2B  
1.14 ACRES

PROPOSED  
PARCEL 2C  
1.13 ACRES

PROPOSED  
PARCEL 2D  
1.12 ACRES

PARCEL 1  
LOT 69 &  
LOT 68 EXC. THE  
S. 50 FT.



STATE OF MICHIGAN  
 WILLIAM J. RICE  
 PROFESSIONAL SURVEYOR  
 No. 25300

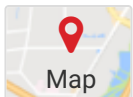
CORNER  
 T25N, R9E

SOUTH 50'  
 OF LOT 68 OF  
 1ST ADD TO McCLATCHIE'S



**Interested in selling your home?**

[See your selling options](#)



<b>2</b>	<b>2</b>	<b>1,018</b>	<b>15.29</b>
beds	baths	sq ft	acres lot

Commute Time

# 3325 W Cedar Lake Rd,

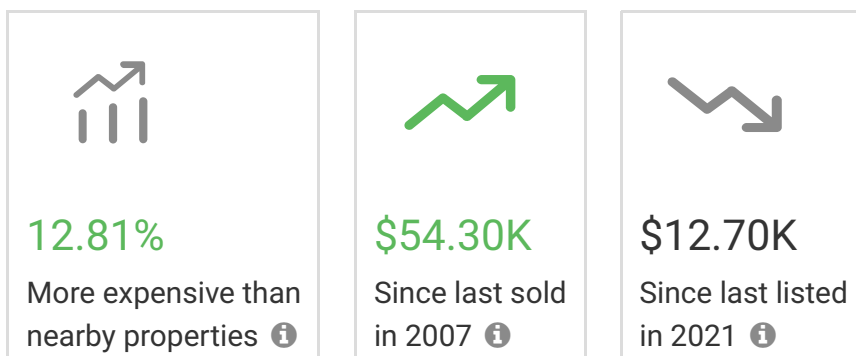
Greenbush, MI 48738

 FEMA Zone X (est.) • Flood Factor  1/10 

[US Military & Veterans \\$100K Home Giveaway. See Off. Rules](#)

**Property Overview** - With 372 feet of frontage on Cedar Lake and an additional 12+ heavily wooded acres across the road, this 2-bedroom cottage is a sportsman's paradise! This cottage sits among 15 total acres located on the far North end of Cedar lake. The frontage on the lake is great for those seeking a little seclusion. Although the waterfront is not conducive for swimming, you can still enjoy having a dock to fish from and a place to moor your boat. The cottage is in need of some TLC but with a few mechanical skills and someone that's not afraid of work, this just might be the diamond in the rough you have been looking for. Across the street you'll find some great deer and turkey hunting and down the street a couple of miles are 3-challenging 18-hole golf courses. So if you or your family members enjoy the outdoors, this could be your little piece of paradise you have been looking for.

This property overview is from the previous listing when the home was listed for sale in Jun 18, 2021.






## Own this home?

Check out your owner dashboard to:

- Track your home's value and comps
- Update the important details and photos
- Easily compare similar homes in your area

## Property History for 3325 W Cedar Lake Rd

This property was sold once in the last 14 years.

- Today  **Estimated at \$197,300**
- Aug 8, 2021  **Price Changed to \$195,000**
- Jun 18, 2021  **Listed for \$210,000**



Listing presented by Christine Kilmer with Heritage House Realty, Oscoda/AuSable

- Aug 10, 2007  **Sold for \$143,000**

History data displayed is obtained from public records and/or MLS feeds from the local jurisdiction. Contact your REALTOR® directly in order to obtain latest information.

## Property Details for 3325 W Cedar Lake Rd





Status

**Off Market**

Price/Sq Ft

**\$194**

Type

**Single Family Home**

## Public Records

- Beds: 2
- House size: 1,018 sq ft
- Stories: 1
- Lot size: 538837
- Property type: Single family
- Date updated: 10/30/2021



## Nearby Schools

Rating*	School Name	Grades	Distance
6	<a href="#">Richardson Elementary School</a>	K-6	9.6 mi
5	<a href="#">Oscoda Area High School</a>	7-12	9.7 mi
NR	<a href="#">Greenbush Christian Academy Private School</a>	K-12	1.9 mi

\* School data provided by National Center for Education Statistics, Pitney Bowes, and GreatSchools. Intended for reference only. The GreatSchools Rating is based on a variety of school quality indicators, including test scores, college readiness, and equity data. To verify enrollment eligibility, contact the school or district directly.



## Neighborhood

3325 W Cedar Lake Rd is located in the city of [Greenbush, MI](#).

**\$174,900**

Median Listing Price

**\$272,350**

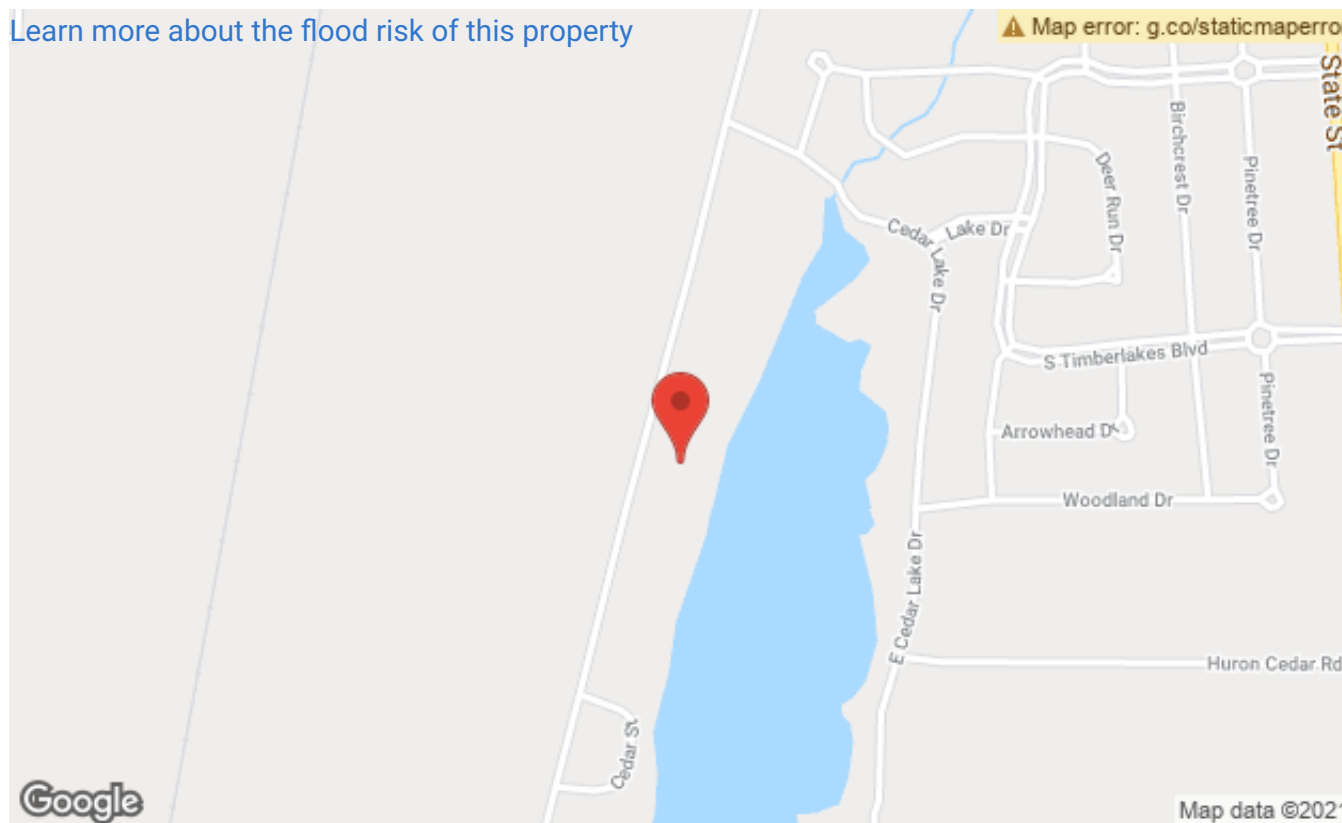
Median Sales Price

**47**Median Days on  
Market**\$173**

Price Per Sq Ft

## Explore Schools, Safety, Noise and Lifestyle around W Cedar Lake Rd

[Learn more about the flood risk of this property](#)



## Price & Tax History for 3325 W Cedar Lake Rd

### Property Price

Date	Event	Price	Price/Sq Ft	Source
Today	Estimated	\$197,300	—	
08/08/2021	Price Changed	\$195,000	\$192	RMLSmultilist
06/18/2021	Listed	\$210,000	\$206	RMLSmultilist
08/10/2007	Sold	\$143,000	—	

### Property Tax


Year	Taxes	Land	Additions	Total Assessment
------	-------	------	-----------	------------------

2021	\$2,420	-	+	N/A	=	\$81,400
2020	\$3,351	-	+	N/A	=	\$78,900
2019	\$2,933	-	+	N/A	=	\$75,100
2018	\$2,884	-	+	N/A	=	\$75,100
2017	\$2,804	-	+	N/A	=	\$72,100
2016	\$2,797	-	+	N/A	=	\$73,200
2015	\$2,891	-	+	N/A	=	\$76,900
2014	\$2,869	-	+	N/A	=	\$74,500
2013	\$2,788	-	+	N/A	=	\$75,400
2012	\$2,958	-	+	N/A	=	\$80,600
2011	\$3,178	-	+	N/A	=	\$86,900

#### About History & Taxes Data


The price and tax history data displayed is obtained from public records and/or MLS feeds from the local jurisdiction. Contact your REALTOR® directly in order to obtain the most up-to-date information available.

## Recently Sold Homes Near 3325 W Cedar Lake Rd




**\$406,000**

2925 N Us Highway 23, Greenbush, ...  
3 bd • 3 ba • 2,190 sq ft



**\$55,000**

2599 W Cedar Lake Rd, Greenbush, ...  
1 bd • 1 ba • 837 sq ft



**\$85,000**

E Tait Rd

[View all](#)

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# Editors' Picks

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TRENDS

**Exclusive:  
Competition Will  
Be Fierce for**

HOME IMPROVEMENT

**Tarek El Moussa  
and Christina  
Haack Back**

TRENDS

**Will COVID-19's  
Omicron Variant  
Infect the**

SPONSORED  
CONTENT

**The Road Home:  
A Look at the VA  
Loan Process**

Sponsored by  
Veterans United

UNIQUE HOMES

**\$15M Florida  
Mansion Has an  
Other-Worldly**

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- Overview
- Save
- Share
- Bookmarks
- Filter
- Style
- List
- Datasets
  - Import
  - Export
  - Census
- Survey
- Need to download county data?  
Visit the Data Store

## 3325 W Cedar Lake Rd

Parcel Data ACTIONS

Imagery is unavailable here

Fields with this color can be unlocked with a Pro subscription

### Parcel Address

Parcel ID	040-015-400-100-00
Site Address	3325 W CEDAR LAKE RD
Site City	GREENBUSH
Site Zip	48738

### Owner Information

Owner Name	RIES, DAVID E & DIANE K
------------	-------------------------

### Zoning, Land Use & Vacancy

#### Residential & Vacancy Indicators

USPS Vacancy Indicator Date	Unlock with Pro
USPS Delivery Point Validation	Unlock with Pro
Delivery Point Validation Codes	Unlock with Pro
Delivery Point Validation Notes	Unlock with Pro
Delivery Point Match Type	Unlock with Pro
CASS Error Codes	Unlock with Pro

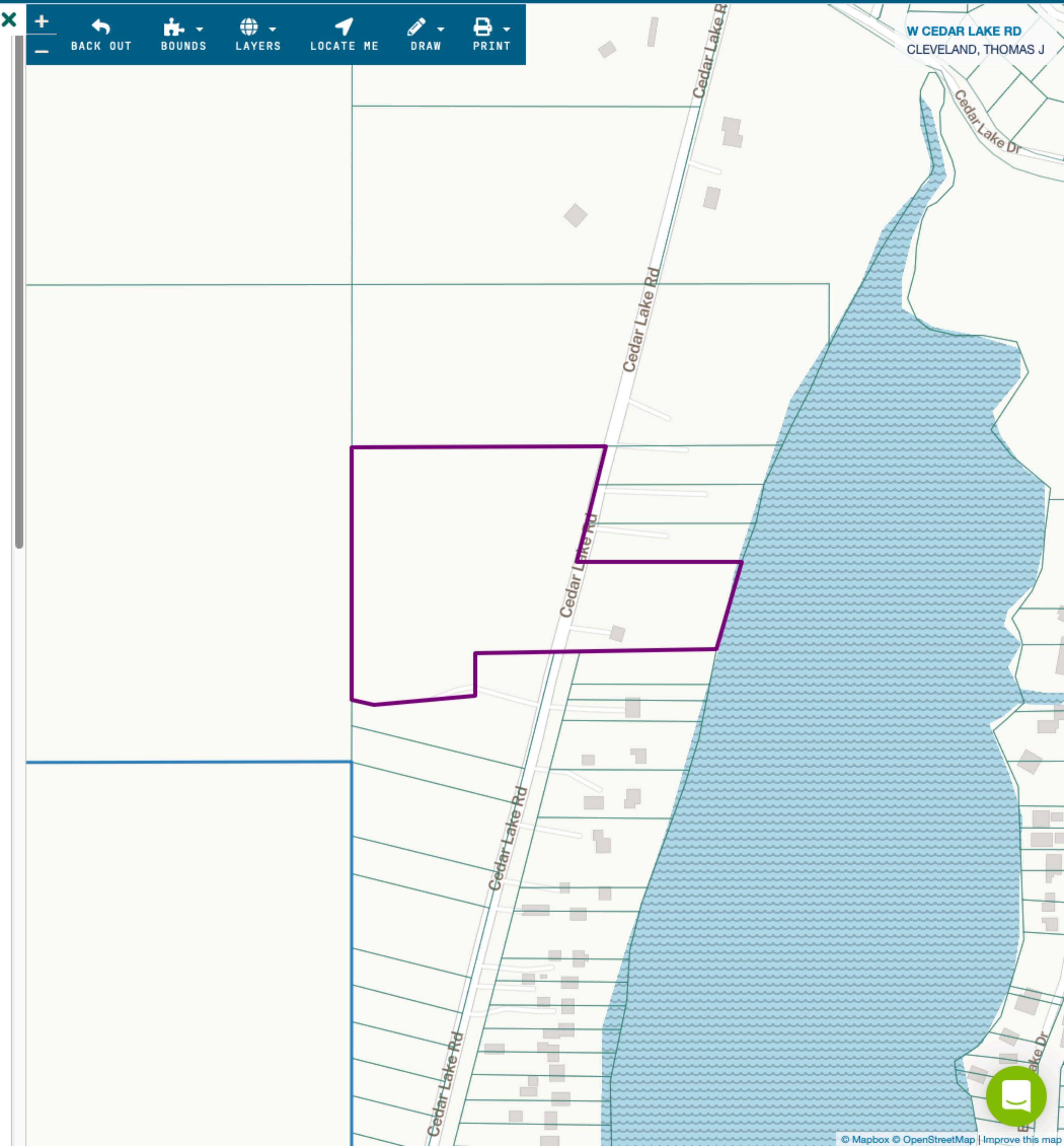
#### Cropland Data Layer Information

Cropland Data Layer Majority Category	Unlock with Pro
Cropland Data Layer Majority Percent	Unlock with Pro

### Structure Details

#### Loveland Calculated Data

Loveland Calculated Building Count	Unlock with Pro
Loveland Calculated Building	Unlock with Pro



- Overview
- Save
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# W Cedar Lake Rd

Parcel Data ACTIONS

Imagery is unavailable here

Fields with this color can be unlocked with a Pro subscription Unlock with Pro

### Parcel Address

Parcel ID	041-196-000-068-00
Site Address	W CEDAR LAKE RD
Site City	GREENBUSH
Site Zip	48738

### Owner Information

Owner Name	RIES, DAVID E & DIANE K
Owner Type	Subdivision

### Zoning, Land Use & Vacancy

#### Residential & Vacancy Indicators

USPS Vacancy Indicator Date	Unlock with Pro
USPS Delivery Point Validation	Unlock with Pro
Delivery Point Validation Notes	Unlock with Pro
CASS Error Codes	Unlock with Pro

### Structure Details

#### Loveland Calculated Data

Loveland Calculated Building Count	Unlock with Pro
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### Geographic Information

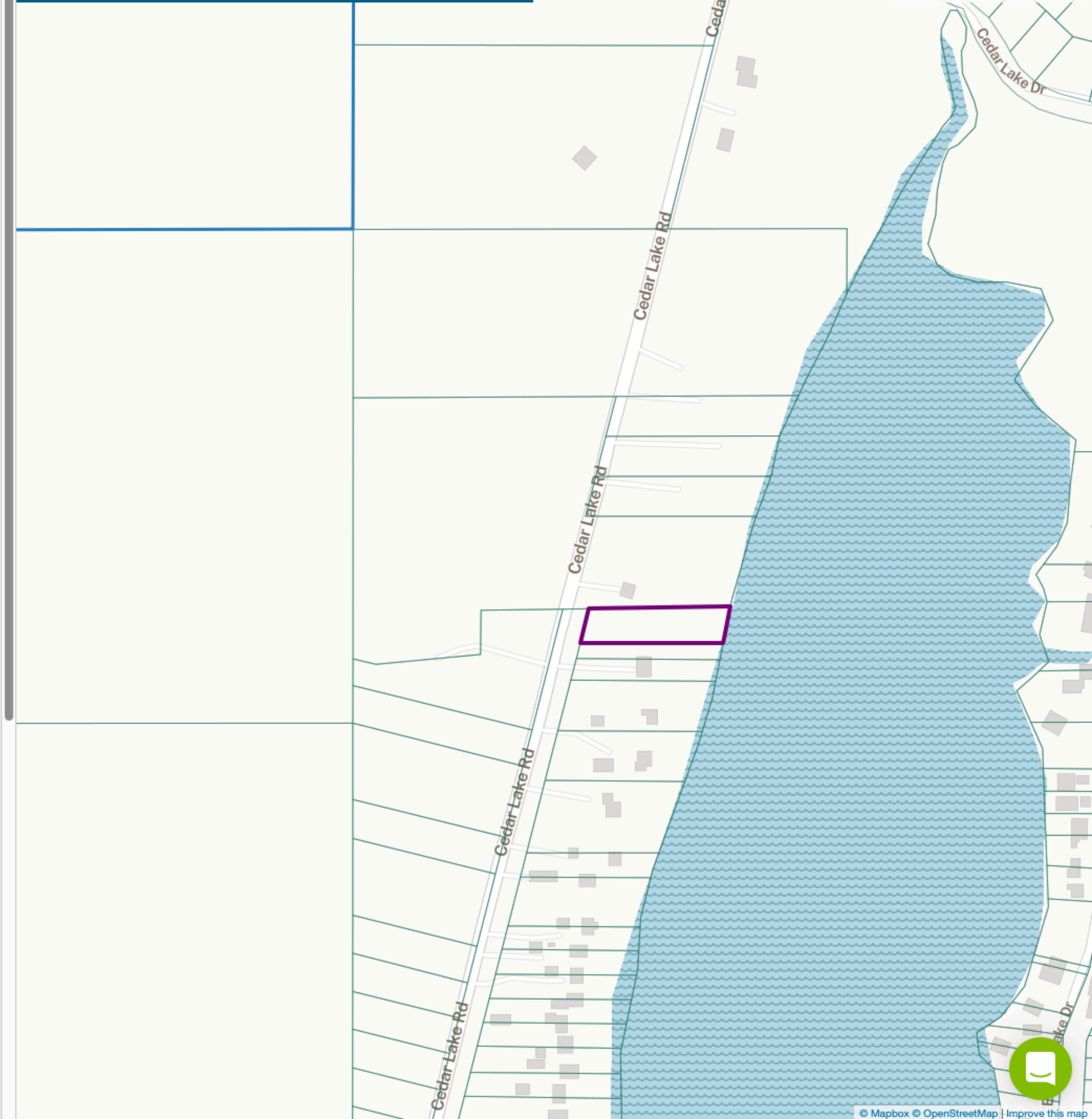
County-Provided Acres	0.807745011313473
Centroid Coordinates	44.559323, -83.328319

### Opportunity Zones

Federal Qualified Opportunity Zone	No
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#### Loveland Calculated Data

Map navigation controls: +, -, BACK OUT, BOUNDS, LAYERS, LOCATE ME, DRAW, PRINT



4790 E WISSMILLER RD  
GUPPY LAKE RESTORATION

