

**Minutes of the Lake Oakland
Lake Improvement Board Meeting
August 18, 2020**

Mr. Sabina called the Teleconference meeting to order at 3:05 p.m.

PRESENT: Rick Sabina, Citizen Member/Chairperson
George Nichols, Oakland County WRC, Member/Secretary
Margaret Birch, Waterford Township Treasurer, Member/Treasurer
Terri Nallamotheu, Independence Township Member
Tom Middleton, Oakland County Board of Commissioners, Member
Paul Hausler, Progressive AE
Joe Ellsasser, Resident (5015 Timber Lake Trail)

Mr. Nichols started the meeting by reading a statement that the meeting will continue to follow Michigan's Open Meetings Act as well as the Governor's Executive Order 2020-15 temporarily suspending the rules regarding physical presence at public meetings.

All participants stated their name and affiliation for the record.

Approval of the Meeting Agenda:

Ms. Birch, supported by Mr. Middleton, moved to accept the meeting agenda as presented (see Attachment 'A').

Roll Call Motion Carried Unanimously

Approval of Meeting Minutes:

Mr. Middleton, supported by Ms. Birch, moved to accept the minutes as submitted for the meeting of June 17, 2020.

Roll Call Motion Carried Unanimously

Old Business:

A. Herbicide Treatment Update

Mr. Hausler provided a Project Work Journal (see Attachment 'B') dated August 18, 2020 that outlines all the services regarding plant control and associated costs to date for the 2020 calendar year. There is a line item missing acknowledgment of the \$1,500 EGLE permit fee. There is also \$8,000 remaining in contingency funds that have not been used. Therefore, there is roughly \$20,000 remaining in the harvesting and herbicide treatment fund. The next lake survey will take place on August 19, 2020.

Mr. Hausler stated that there was a herbicide treatment administered on July 15, 2020 focusing primarily on milfoil, starry stonewort, and nuisance native plants. There was

another treatment on July 28, 2020 focusing primarily on milfoil, curly-leaf and starry stonewort. Mr. Hausler discussed the different treatments that were administered throughout Lake Oakland as shown on the July 9, 2020 Treatment Map (see Attachment 'C') and the July 21, 2020 Treatment Map (see Attachment 'D').

B. Harvesting Treatment Update

Mr. Hausler discussed the July 9, 2020 Harvest Treatment Map (see Attachment 'E') that will be provide to Mike's Clearwater Harvesting. The map will be updated prior to the actual work being performed.

New Business:

A. Contingency Funds

Ms. Birch, supported by Ns. Nallamotheu, to transfer \$5,000.00 from the contingency fund to the treatment budget to be used as necessary.

Motion Carried Unanimously

B. Treatment Postings

Mr. Sabina mentioned that some riparians were still expressing that the notices that are posted were generic and was not specific as to the type of treatment being done. Mr. Sabina has been telling riparians to check the treatment maps on the website where it provides a more accurate location and treatment type.

Public Comments:

Mr. Joe Ellsasser asked if anyone from the Oakland County sheriff's office could be on the lake to monitor boaters. Ms. Birch stated that the sheriff's department does not work with Lake Boards and only works with the Townships. Funding would have to come from the riparians to offset the cost of any sheriff patrol on Lake Oakland.

Lake Oakland Invoice Ratification:

Mr. Sabina outlined the invoice from Aqua-Weed Control Services (dated June 23, 2020) in the amount of \$9,929.16 that was approved by email acknowledgement since the last Board meeting, as noted in Item '8a'.

Ms. Birch, supported by Mr. Middleton, acknowledging the correspondence and to ratify the approval and payment of the invoice

Motion Carried Unanimously

Mr. Sabina outlined the invoice from Progressive AE (dated July 2, 2020) in the amount of \$5,000.00 that was approved by email acknowledgement since the last Board meeting, as noted in Item '8b'.

Mr. Middleton, supported by Ms. Birch, acknowledging the correspondence and to ratify the approval and payment of the invoice

Motion Carried Unanimously

Mr. Sabina outlined the invoice from Mike's Clearwater Harvesting (dated July 22, 2020) in the amount of \$25,067.63 that was approved by email acknowledgement since the last Board meeting, as noted in Item '8c'.

Ms. Birch, supported by Mr. Middleton, acknowledging the correspondence and to ratify the approval and payment of the invoice

Motion Carried Unanimously

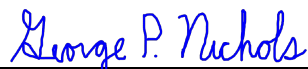
Meeting Schedule:

The next Lake Board meeting will be on Tuesday, October 20, 2020 at 3:00 p.m. via teleconference call in. Mr. Nichols will establish a call-in phone number that will be provided to the Board Members and also listed on the website.

Adjournment:

MS. Birch, supported by Ms. Nallamotheu, moved to adjourn the meeting at 3:42 p.m.

Roll Call Motion Carried Unanimously

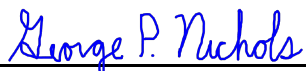


George P. Nichols
Lake Improvement Board Secretary
For Lake Oakland

STATE OF MICHIGAN)
) ss:
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of the minutes of the Lake Improvement Board for Lake Oakland, Oakland County, Michigan held on the 17th day of June 2020, and that the said minutes are on file in the Office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that notice of the meeting was posted at least 18 hours before the meeting at the Office of the Oakland County Water Resources Commissioner, which is the principal office of the Lake Improvement Board for Lake Oakland.



George P. Nichols
Lake Improvement Board Secretary
For Lake Oakland

Dated: October 13, 2020

Attachment 'A'

AGENDA

LAKE OAKLAND LAKE IMPROVEMENT BOARD

Tuesday, August 18, 2020 – 3:00 p.m.

Teleconference with a call-in number of 248-289-9359; Access Code 191969

1. Open Meeting
2. Introductions and Attendance
3. Approval of the Meeting Agenda for August 18, 2020
4. Approval of Meeting Minutes from June 17, 2020
5. Old Business
 - a. Herbicide Treatment Update
 - b. Plant Harvesting Update
6. New Business
7. Public Comments
8. Lake Oakland Invoice Ratification
 - a. Ratification of Aqua-Weed Control Invoice #14776 (dated 6/23/20) for Herbicide Treatment on June 16, 2020. Mr. Sabina, supported by Mr. Nichols, to pay invoice in the amount of \$9,929.16.

- b. Ratification of Progressive AE Invoice #178537 (dated 7/2/20) for Lake Management Administration and Oversight. Mr. Sabina, supported by Mr. Nichols, to pay invoice in the amount of \$5,000.00.
- c. Ratification of Mike's Clearwater Harvesting Invoice #120 (dated 7/22/20) for harvesting work performed on Lake Oakland from July 5, 2020 to July 18, 2020. Mr. Sabina, supported by Mr. Nichols, to pay invoice in the amount of \$25,067.63.

9. Board Member Comments

10. All Else

- a. Schedule next meeting date

11. Adjournment

Attachment 'B'

2020

Beginning Balance: \$73,500.00

Date	Type	Results
5/6/2020	Survey	Significant curly-leaf pondweed growth, milfoil a little less than last year, very sparse SSW. Schedule for week of May 18.

Treatment Date	Type	Target Species	Qty	Dose Rate	Cost	Remaining Balance
5/19/2020	2,4-D ester	Eurasian Milfoil	9.25 acre(s)	150.00 lbs/acre	\$4,440.00	\$69,060.00
5/19/2020	Algae control (filamentous and planktonic)	Filamentous or Planktonic Algae	5.75 acre(s)		\$230.00	\$68,830.00
5/19/2020	Dipotassium salt of endothall for exotics	Curly-leaf Pondweed	6.00 acre(s)		\$960.00	\$67,870.00
5/19/2020	Flumioxazin and contacts	Curly-leaf Pondweed	12.25 acre(s)	100.00 ppb	\$4,287.50	\$63,582.50
		Eurasian Milfoil				
		Starry Stonewort				
5/19/2020	Flumioxazin plus copper ethanolamine complex	Starry Stonewort	1.00 acre(s)	150.00 ppb	\$425.00	\$63,157.50
5/19/2020	Triclopyr dry	Eurasian Milfoil	0.75 acre(s)	180.00 lbs/acre	\$468.75	\$62,688.75
5/19/2020	Triclopyr liquid	Eurasian Milfoil	5.50 acre(s)	3.00 gallons/acre	\$1,375.00	\$61,313.75
5/19/2020	ProcellaCOR	Eurasian Milfoil	0.00 PDU		\$0.00	\$61,313.75
Invoice 14501 Total					\$12,186.25	\$61,313.75

6/10/2020	Survey	Found some milfoil and SSW. Water temp = 78F.
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**Project Work Journal
Lake Oakland**

2020

Beginning Balance: \$73,500.00

Treatment Date	Type	Target Species	Qty	Dose Rate	Cost	Remaining Balance	
6/16/2020	2,4-D ester	Eurasian Milfoil	4.00 acre(s)	150.00 lbs/acre	\$1,920.00	\$59,393.75	
6/16/2020	Algae control (filamentous and planktonic)	Filamentous or Planktonic Algae	2.00 acre(s)		\$80.00	\$59,313.75	
6/16/2020	Diquat dibromide for exotics	Curly-leaf Pondweed Eurasian Milfoil	1.50 acre(s)	1.00 gallons/acre	\$225.00	\$59,088.75	
6/16/2020	Flumioxazin	Curly-leaf Pondweed Eurasian Milfoil Starry Stonewort	1.50 acre(s)	200.00 ppb	\$735.00	\$58,353.75	
6/16/2020	Flumioxazin and contacts	Curly-leaf Pondweed Eurasian Milfoil Starry Stonewort	1.00 acre(s)	100.00 ppb	\$350.00	\$58,003.75	
6/16/2020	Macro-algae control: copper and monoamine salt of endothall	Starry Stonewort	17.25 acre(s)		\$1,207.50	\$56,796.25	
6/16/2020	Triclopyr dry	Eurasian Milfoil	1.50 acre(s)	200.00 lbs/acre	\$1,041.66	\$55,754.59	
6/16/2020	Triclopyr liquid	Eurasian Milfoil	3.50 acre(s)	3.00 gallons/acre	\$875.00	\$54,879.59	
6/16/2020	ProcellaCOR	Eurasian Milfoil Nuisance Native Plants	30.00 PDU		\$3,450.00	\$51,429.59	
6/16/2020	Diquat dibromide @ 2 gal/acre	Curly-leaf Pondweed Eurasian Milfoil	0.25 acre(s)	2.00 gallons/acre	\$45.00	\$51,384.59	
					Invoice 14776 Total	\$9,929.16	\$51,384.59
7/5/2020 - 7/12/2020	Harvesting	Curly-leaf Pondweed Nuisance Native Plants Water Lillies	40.25 acre(s)		\$14,510.12	\$36,874.47	
7/5/2020 - 7/12/2020	Harvesting of starry stonewort	Chara Starry Stonewort	20.50 acre(s)		\$10,557.50	\$26,316.97	
					Invoice 120 Total	\$25,067.62	\$26,316.97

7/1/2020 Survey

Revised harvesting maps.

2020

Beginning Balance: \$73,500.00

7/9/2020 Survey

Found some significant starry stonewort - revised harvesting maps. Water = 89F.

Treatment Date	Type	Target Species	Qty	Dose Rate	Cost	Remaining Balance
7/15/2020	2,4-D ester	Eurasian Milfoil	2.25 acre(s)	150.00 lbs/acre	\$1,080.00	\$25,236.97
7/15/2020	Algae control (filamentous and planktonic)	Filamentous or Planktonic Algae	8.75 acre(s)		\$350.00	\$24,886.97
7/15/2020	Macro-algae control: copper and monoamine salt of endothall	Starry Stonewort	18.25 acre(s)		\$1,277.50	\$23,609.47
7/15/2020	Chelated Copper Complex Granular (Harpoon)	Starry Stonewort Wild Celery	1.50 acre(s)	200.00 lbs/acre	\$487.50	\$23,121.97
7/15/2020	ProcellaCOR	Eurasian Milfoil Nuisance Native Plants	9.00 PDU		\$1,035.00	\$22,086.97
7/15/2020	Diquat dibromide @ 2 gal/acre	Eurasian Milfoil Nuisance Native Plants	2.00 acre(s)	2.00 gallons/acre	\$360.00	\$21,726.97
7/15/2020	dipotassium salt of endothall/diquat-dibromide complex @ 4 gal./acre	Eurasian Milfoil Nuisance Native Plants	0.75 acre(s)		\$375.00	\$21,351.97
Invoice 14977 Total					\$4,965.00	\$21,351.97

7/21/2020 Survey

Found some starry and wild celery, small areas of milfoil.

Treatment Date	Type	Target Species	Qty	Dose Rate	Cost	Remaining Balance
7/28/2020	2,4-D ester	Eurasian Milfoil	0.75 acre(s)	150.00 lbs/acre	\$360.00	\$20,991.97
7/28/2020	Algae control (filamentous and planktonic)	Filamentous or Planktonic Algae	1.00 acre(s)		\$40.00	\$20,951.97
7/28/2020	Chelated copper complex liquid		2.00 acre(s)		\$640.00	\$20,311.97
7/28/2020	Diquat dibromide for exotics	Curly-leaf Pondweed Eurasian Milfoil	1.75 acre(s)	1.00 gallons/acre	\$262.50	\$20,049.47
7/28/2020	Macro-algae control: copper and monoamine salt of endothall	Starry Stonewort	0.50 acre(s)		\$35.00	\$20,014.47
7/28/2020	Triclopyr liquid	Eurasian Milfoil	0.25 acre(s)	3.00 gallons/acre	\$62.50	\$19,951.97
7/28/2020	Chelated Copper Complex Granular (Harpoon)	Starry Stonewort Wild Celery	7.75 acre(s)	200.00 lbs/acre	\$2,518.75	\$17,433.22
Invoice 14979 Total					\$3,918.75	\$17,433.22

Project Work Journal
Lake Oakland

2020

Beginning Balance: \$73,500.00

8/19/2020 Survey

Found some milfoil re-growth and some SSW.

Treatment Date	Type	Target Species	Qty	Dose Rate	Cost	Remaining Balance	
8/26/2020	2,4-D ester	Eurasian Milfoil	2.75 acre(s)	150.00 lbs/acre	\$1,320.00	\$16,113.22	
8/26/2020	Algae control (filamentous and planktonic)	Filamentous or Planktonic Algae	1.00 acre(s)		\$40.00	\$16,073.22	
8/26/2020	Macro-algae control: copper and monoamine salt of endothall	Starry Stonewort	6.25 acre(s)		\$437.50	\$15,635.72	
8/26/2020	Triclopyr dry	Eurasian Milfoil	1.00 acre(s)	200.00 lbs/acre	\$694.44	\$14,941.28	
8/26/2020	Triclopyr liquid	Eurasian Milfoil	10.25 acre(s)	3.00 gallons/acre	\$2,562.50	\$12,378.78	
8/26/2020	Chelated Copper Complex Granular (Harpoon)	Starry Stonewort Wild Celery	6.75 acre(s)	200.00 lbs/acre	\$2,193.75	\$10,185.03	
8/26/2020	Diquat dibromide @ 2 gal/acre	Eurasian Milfoil Nuisance Native Plants	2.75 acre(s)	2.00 gallons/acre	\$495.00	\$9,690.03	
					Invoice 15072 Total	\$7,743.19	\$9,690.03
9/6/2020 - 9/14/2020	Harvesting	Curly-leaf Pondweed Nuisance Native Plants	11.50 acre(s)		\$4,145.75	\$5,544.28	
9/6/2020 - 9/14/2020	Harvesting of starry stonewort	Chara Starry Stonewort	7.50 acre(s)		\$3,862.50	\$1,681.78	
9/6/2020 - 9/14/2020	Harvesting of starry stonewort		0.25 acre(s)		\$128.75	\$1,553.03	
					Invoice 127 Total	\$8,137.00	\$1,553.03

9/9/2020 Survey

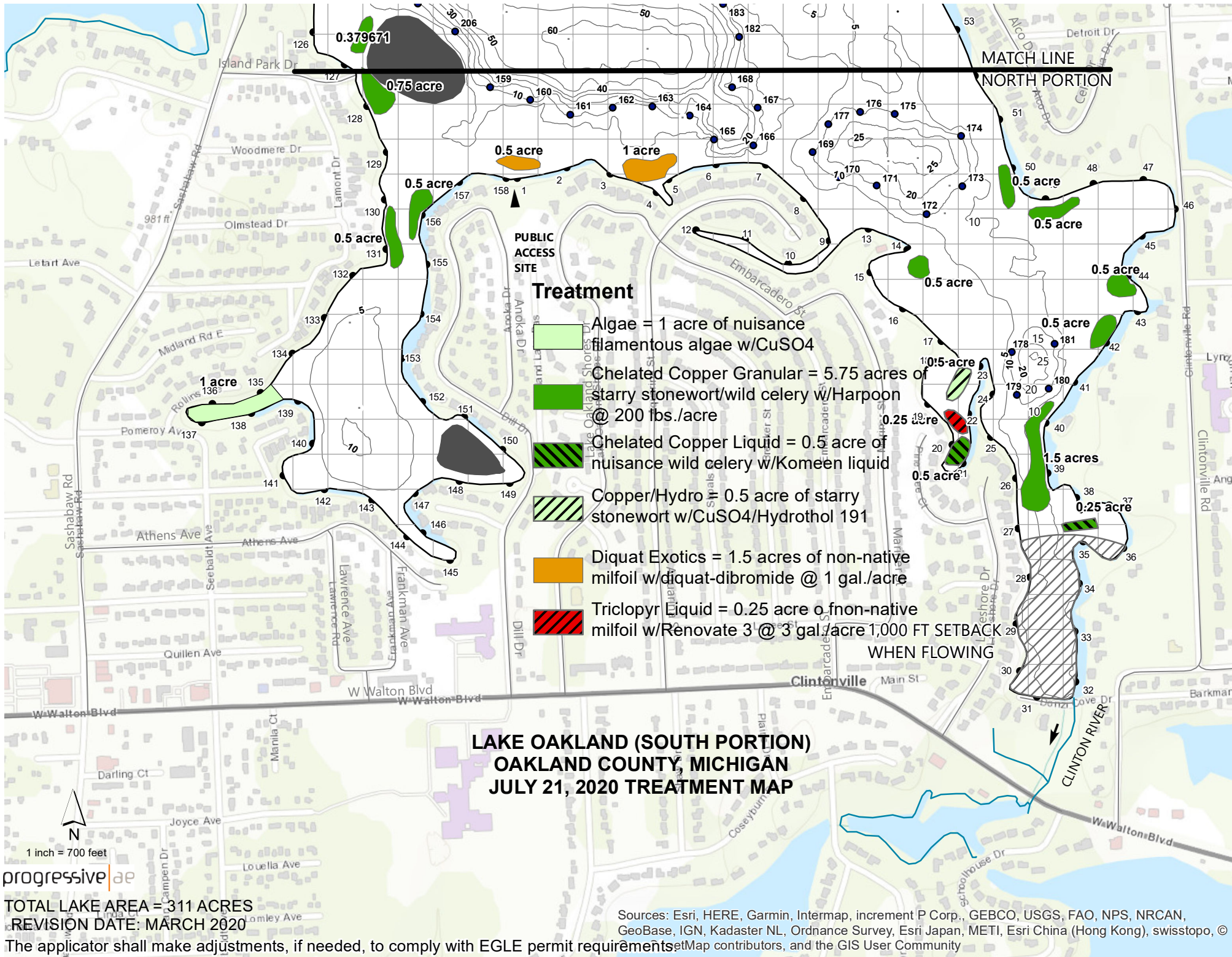
About 50 percent done on harvest

9/15/2020 Survey

Lake looks good overall







Attachment 'C'

Attachment 'D'



MATCH LINE
NORTH PORTION

Treatment

-  Algae = 1 acre of nuisance filamentous algae w/CuSO4
-  Chelated Copper Granular = 5.75 acres of starry stonewort/wild celery w/Harpoon @ 200 lbs./acre
-  Chelated Copper Liquid = 0.5 acre of nuisance wild celery w/Komeen liquid
-  Copper/Hydro = 0.5 acre of starry stonewort w/CuSO4/Hydrothol 191
-  Diquat Exotics = 1.5 acres of non-native milfoil w/diquat-dibromide @ 1 gal./acre
-  Triclopyr Liquid = 0.25 acre of non-native milfoil w/Renovate 3 @ 3 gal./acre

1,000 FT SETBACK
WHEN FLOWING

**LAKE OAKLAND (SOUTH PORTION)
OAKLAND COUNTY, MICHIGAN
JULY 21, 2020 TREATMENT MAP**

1 inch = 700 feet

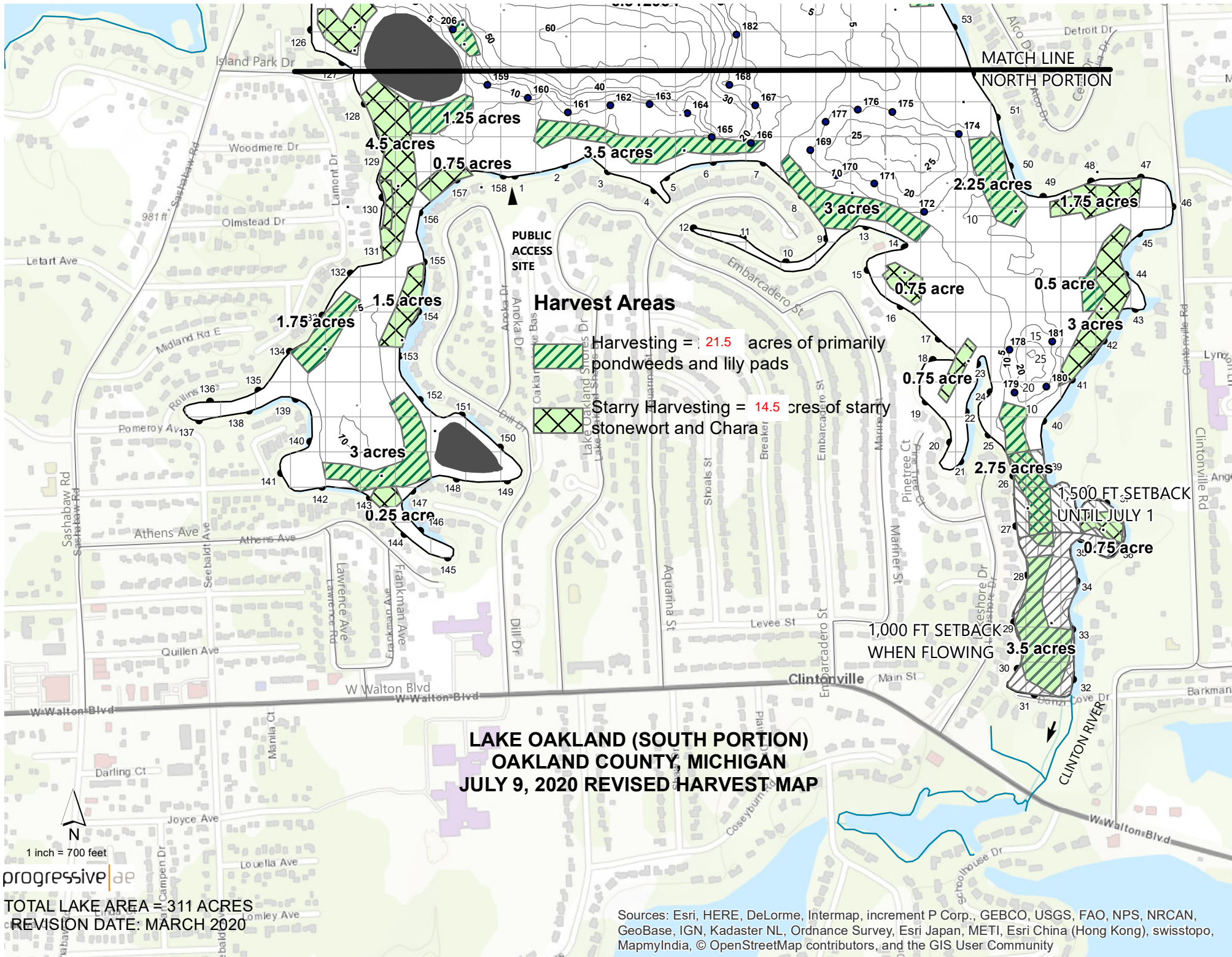
progressive | ae

TOTAL LAKE AREA = 311 ACRES
REVISION DATE: MARCH 2020

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © Map contributors, and the GIS User Community

The applicator shall make adjustments, if needed, to comply with EGLE permit requirements

Attachment 'E'



**LAKE OAKLAND (SOUTH PORTION)
OAKLAND COUNTY, MICHIGAN
JULY 9, 2020 REVISED HARVEST MAP**

Harvest Areas

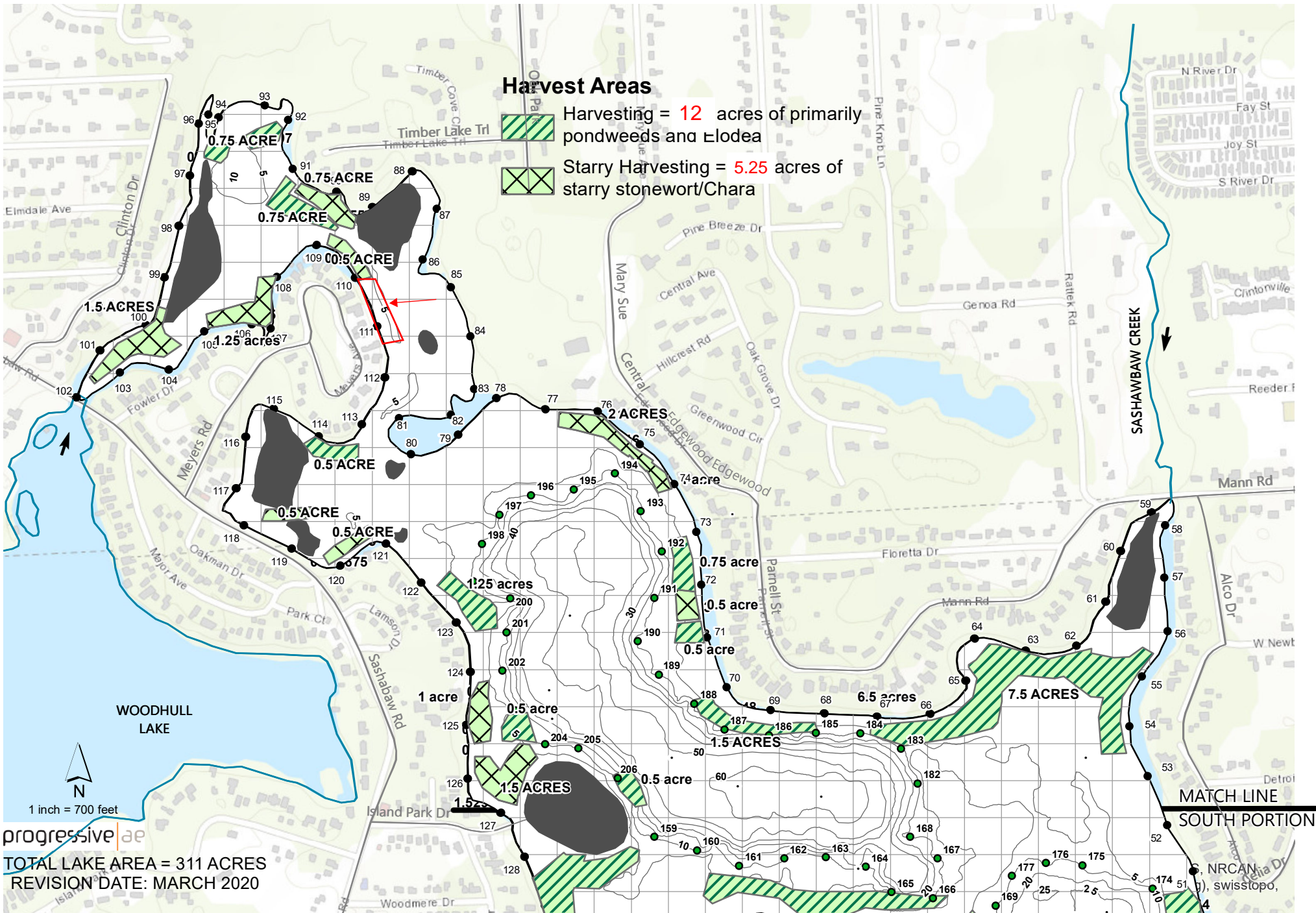
- Harvesting = 21.5 acres of primarily pondweeds and lily pads
- Starry Harvesting = 14.5 acres of starry stonewort and Chara

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TOTAL LAKE AREA = 311 ACRES
REVISION DATE: MARCH 2020

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**LAKE OAKLAND (NORTH PORTION)
OAKLAND COUNTY, MICHIGAN
JULY 9, UPDATED 2020 HARVEST MAP**



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TOTAL LAKE AREA = 311 ACRES
REVISION DATE: MARCH 2020

MATCH LINE
SOUTH PORTION

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