



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER RESOURCES DIVISION

CHEMICAL TABLE TEMPLATE FOR TREATMENT OF
NUISANCE AQUATIC PLANT AND/OR ALGAE GROWTH, OR SWIMMER'S ITCH

Completion of the chemical table template is required by multiple reports in MiWaters. Once complete, upload a copy to the space provided in the associated MiWaters form. Do not alter this template, with the exception of adding additional treatment dates.

ANC Treatment Report:

Upload this chemical table template to the MiWaters treatment report form **no later than November 30**.

ANC Expansion Report:

Upload this chemical table template to the MiWaters expansion report form **within 15 business days after the initial treatment of the expanded area of impact**.

ANC Interim Treatment Report:

Upload this chemical table template to the MiWaters interim treatment report form upon request from the DEQ.

| Permittee Information | |
|------------------------|------------------------------|
| Permit Number: | ANC9803101 |
| Permittee Name: | PLM Lake and Land Management |
| Body of Water Treated: | WB-3739-1 Portage Lake |
| County: | Houghton |

Fill in a separate table for each treatment date.

Please note that the assessment of the effectiveness is only required for the treatment report form.

| Date of treatment (one date per table): 6/20/2017 <i>Pike</i> | | Name of person applying chemical: Jason Broekstra | | Name of Company: PLM Lake and Land Management | |
|--|-------------------------------|--|---------------------------------------|--|---|
| Effectiveness: <input checked="" type="checkbox"/> Good (70-100%) <input type="checkbox"/> Fair (50-69%) <input type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> | | | | | |
| CHEMICAL USED | METHOD OF APPLICATION | RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot) | ACTUAL TREATMENT AREA SIZE (acres) | TOTAL AMOUNT (ex. 4 gallons, 10 lbs.) | FOR CONTROL OF: (Plant and/or Algae names) |
| Chemical Brand: Cygnet Plus EPA Reg #: NoEPA3 | Surface Application/injection | .209gals/acre ft | 4 acres | 2.5 Gallons | Adjuvant |
| Chemical Brand: Renovate 3 EPA Reg #: 62719-37-67690 | Surface Application/injection | 1.25gals/acre ft | 4 acres | 15 Gallons | EWM |
| Chemical Brand: Renovate OTF EPA Reg #: 67690-42 | Surface Application/injection | 33.34lbs/acre ft | 4 acres | 400 Pounds | EWM |

| Date of treatment (one date per table): 6/21/2017 <i>Torch</i> | | Name of person applying chemical: Jason Broekstra | | Name of Company: PLM Lake and Land Management | |
|--|-------------------------------|--|---------------------------------------|--|---|
| Effectiveness: <input checked="" type="checkbox"/> Good (70-100%) <input type="checkbox"/> Fair (50-69%) <input type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> | | | | | |
| CHEMICAL USED | METHOD OF APPLICATION | RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot) | ACTUAL TREATMENT AREA SIZE (acres) | TOTAL AMOUNT (ex. 4 gallons, 10 lbs.) | FOR CONTROL OF: (Plant and/or Algae names) |
| Chemical Brand: Renovate OTF EPA Reg #: 67690-42 | Surface Application/injection | 66.67lbs/acre ft 4' avg depth | .75 acres | 200 Pounds | EWM |

| Date of treatment (one date per table): 8/2/2017 <i>Pike</i> | | Name of person applying chemical: Jason Broekstra | | Name of Company: PLM Lake and Land Management | |
|--|-----------------------|--|---------------------------------------|--|---|
| Effectiveness: <input checked="" type="checkbox"/> Good (70-100%) <input type="checkbox"/> Fair (50-69%) <input type="checkbox"/> Poor (Less than 50%) <input type="checkbox"/> Ineffective (0%) <input type="checkbox"/> | | | | | |
| CHEMICAL USED | METHOD OF APPLICATION | RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 | ACTUAL TREATMENT AREA SIZE (acres) | TOTAL AMOUNT (ex. 4 gallons, 10 lbs.) | FOR CONTROL OF: (Plant and/or Algae names) |



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| Chemical Brand | Application/Injection | lbs/acre - foot | Area | Amount | Control |
|---|-----------------------|--|---|-------------|----------|
| Cygnat Plus EPA Reg #: NoEPA3 | Surface | .084gals/acre ft | 30 acres | 7.5 Gallons | Adjuvant |
| Renovate 3 EPA Reg #: 62719-37-67690 | Surface | .667gals/acre ft, .5gals/acre ft | 10 acres, 20 acres = 30 acres total | 50 Gallons | EWM |
| Renovate OTF EPA Reg #: 67690-42 | Surface | 54lbs/acre ft (5' avg depth), 13.67lbs/acre ft (3' avg depth) | 1 acre, 30 acres = 31 acres total | 1500 Pounds | EWM |
| Tribune EPA Reg #: 100-1390 | Surface | .5gals/acre | 20acres | 10 Gallons | EWM |

Date of treatment (one date per table): **8/3/2017** Name of person applying chemical: **Jason Broekstra** Name of Company: **PLM Lake and Land Management**

Effectiveness: Good (70-100%) Fair (50-69%) Poor (Less than 50%) Ineffective (0%)

| CHEMICAL USED | METHOD OF APPLICATION | RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot) | ACTUAL TREATMENT AREA SIZE (acres) | TOTAL AMOUNT (ex. 4 gallons, 10 lbs.) | FOR CONTROL OF: (Plant and/or Algae names) |
|--|-----------------------|---|------------------------------------|---------------------------------------|--|
| <i>Pike</i> Renovate OTF EPA Reg #: 67690-42 | Surface | 64lbs/acre ft (5' avg depth) | 1 acre | 320 Pounds | EWM |

Touch

| | | | | | |
|---|--------------------|--|-------------------------|------------------------|----------------|
| Renovate OTF EPA Reg #: 67690-42 | Surface | 54.08lbs/acre ft (5' avg depth) | 12.5 acres | 3380 Pounds | EWM |
| Sculpin G EPA Reg #: 67690-49 | Surface | 64lbs/acre ft (5' avg depth) | 11.625 acres | 3720 Pounds | EWM |

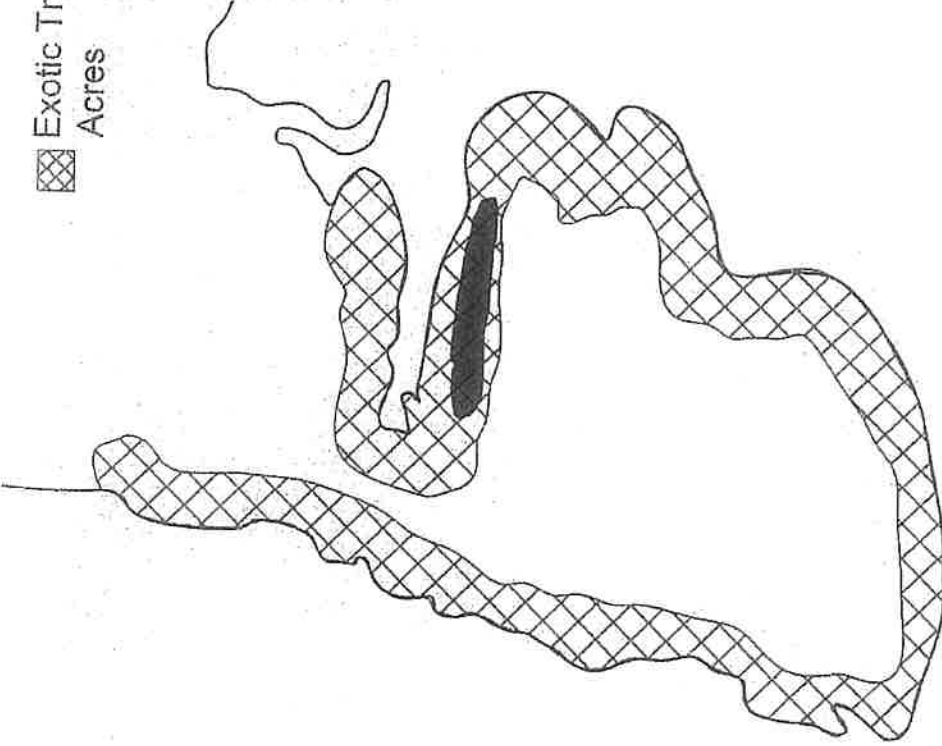
Date of treatment (one date per table): **9/7/2017** Name of person applying chemical: **Jason Broekstra** Name of Company: **PLM Lake and Land Management**

Effectiveness: Good (70-100%) Fair (50-69%) Poor (Less than 50%) Ineffective (0%)

Touch

| CHEMICAL USED | METHOD OF APPLICATION | RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot) | ACTUAL TREATMENT AREA SIZE (acres) | TOTAL AMOUNT (ex. 4 gallons, 10 lbs.) | FOR CONTROL OF: (Plant and/or Algae names) |
|---|-----------------------|---|------------------------------------|---------------------------------------|--|
| Renovate OTF EPA Reg #: 67690-42 | Surface | 56lbs/acre ft (5' avg depth) | 2 acres | 560 Pounds | EWM |
| Sculpin G EPA Reg #: 67690-49 | Surface | 64lbs/acre ft (5' avg depth) | 2.25 acres | 720 Pounds | EWM |

☒ Exotic Treatment Area = 307 Acres



Date: 6-20-17 Time: 6-8 Temp: 65 F
Wind: L M > H Weather: Sun, Part Sun, Cloudy, Rain
Target: EWM, CLP, Algae, Natives, Emergent, Other
 Treated entire permitted area Treated entire developed area Other

4 Acres
EWM - Remnants of
Remnants of EWM

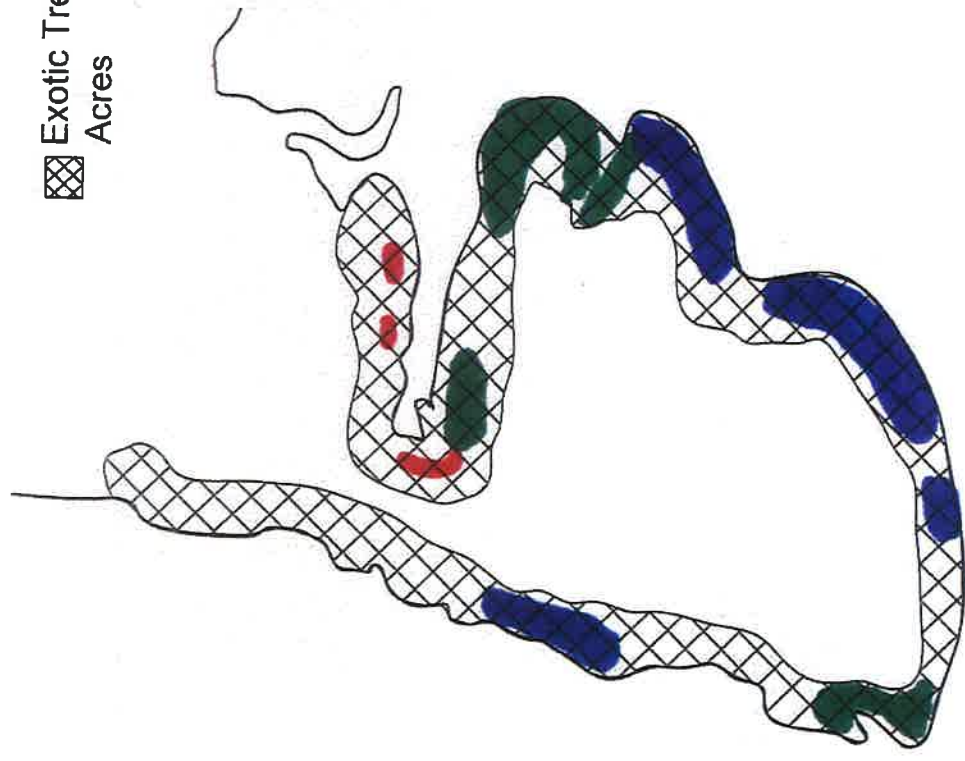
N
△

.4 Miles

PIKE BAY

~450 Surface Acres (as shown)
Houghton County
Chassell Township

☒ Exotic Treatment Area = 307 Acres

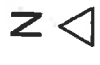


Date: 8-2-12 Time: 2-5:30 Temp: 65°F
 Wind: L M H Weather: Sun, Part Sun, Cloudy, Rain
 Target: (EWM) CLP, Algae, Natives, Emergent, Other
 Treated entire permitted area Treated entire developed area Other
*See treatment report for American used. In water not fish by. All treatment activities followed per permit conditions

Renovate OTE, Renovate 3
 11/25/12 + Eggnet Plus

Renovate OTE, Renovate 3
 10/25/12 + Eggnet Plus + Eggnet Plus

Renovate OTE
 1/2/13

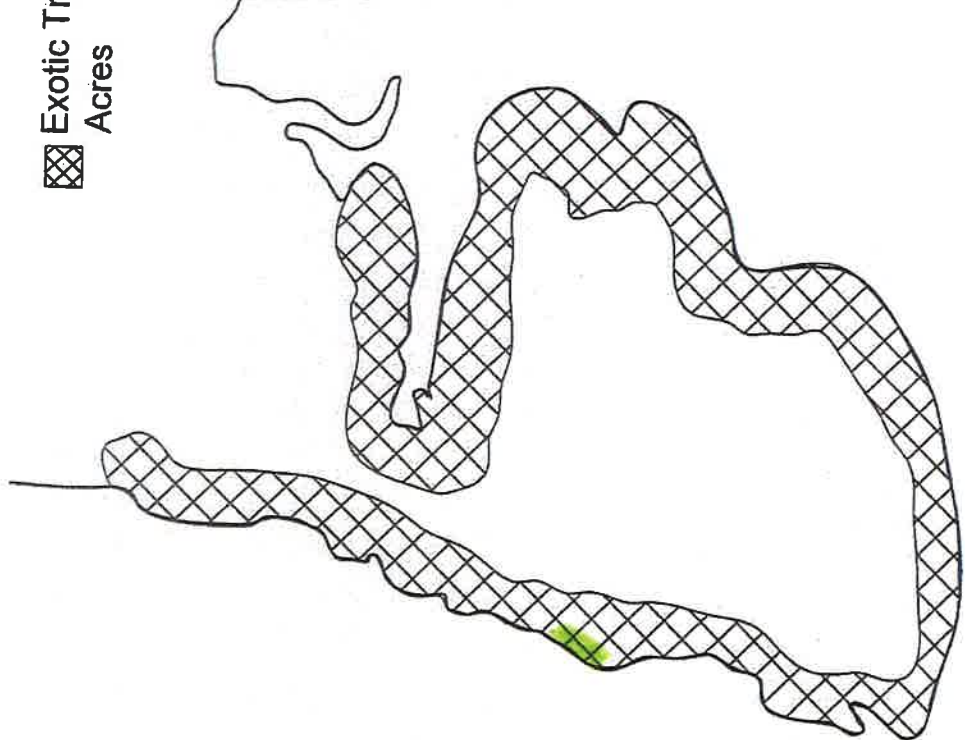


4 Miles


PIKE BAY
 ~450 Surface Acres (as shown)
 Houghton County
 Chassell Township

Professional Lake Management, P.O. Box 132, Chassell, MI 49316 Phone (500) 302-4414

 Exotic Treatment Area = 307
Acres



Date: 9-3-17 Time: 2-3 Temp: F
Wind: L M H Weather: Sun, Part Sun, Cloudy, Rain
Target: EWM, CLP, Algae, Natives, Emergent, Other
 Treated entire permitted area Treated entire developed area Other
*See treatment report for additional notes. E-mail road photo, and treatment observations submitted per permit conditions.

 Reservoir OFF
Lake

N 

.4 Miles

PIKE BAY
~450 Surface Acres (as shown)
Houghton County
Chassell Township
Professional Lake Management, P.O. Box 132, Caledonia, MI 49318 Phone (601) 352-4414