

## MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER RESOURCES DIVISION

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

Failure to submit the treatment report form provided by the department is a violation of Part 33, and the rules promulgated thereunder and may result in civil or criminal penalties as specified in Part 33, Aquatic Nuisance Control, of the NREPA

#### Section A

Submit completed report postmarked **no later than November 30**, even if no treatment was undertaken.

#### Submit by e-mail to:

deg-wrd-anc@michigan.gov

Submit by mail to:

Permittee Info	rmation	
Permit Number: ANC9800968		
Permittee Name: PLM Lake and Land Management		
Address: 8865 100 <sup>TH</sup> Street		
City: Alto	State:	Zip: 49302
Phone Number: 616-891-1294 ext. 2000		
E-mail Address: Breg@plmcorp.net		
Body of Water Treated:: Portage Lake	County: Houghton	

AQUATIC NUISANCE CONTROL WATER RESOURCES DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY		Phone Number: 616-891-1294 ext. 2000 E-mail Address: Breg@plmcorp.net			
Section B - Treatment Inform		-			
Fill in a separate table for each					
Date of treatment (one date per table): 6/23/2015	Name Jason	of person applying Broekstra, Benja	g chemical: amin Halbersma	Name of Comp PLM Lake and	oany: d Land Management
Effectiveness:  Good (70-100%) Fair (	50-69%) 🔲 Poor	(Less than 50%)	☐ Ineffective	(0%)	t treat (skip to section E)
CHEMICAL USED	METHOD OF APPLICATION	RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot)	TREATMENT AREA SIZE (acres)	TOTAL AMOUNT (ex. 4 gallons, 10 lbs.)	FOR CONTROL OF: (Plant and/or Algae names)
Chemical Brand: Renovate Max G EPA Reg #: 67690-50	Surface Application/injection	320lbs/acre (5' avg depth)	6.25 acres	2000 lbs	EWM
Chemical Brand: Renovate OTF EPA Reg #: 67690-42	Surface Application/injection	270lbs/acre (5'avg depth)	5.2 acres	1400 lbs	EWM
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	160lbs/acre 320lbs/acre (5' avg depth)	12 acres 6 acres	3840 lbs	EWM
Date of treatment (one date per table): 7/22/2015		of person applying Broekstra	g chemical:	Name of Comp	pany: il Land Management
Effectiveness:  Good (70-100%) Fair (	50-69%) 🔲 Poor	(Less than 50%)	☐ Ineffective	(0%)	t treat (skip to section E)
CHEMICAL USED	METHOD OF APPLICATION	RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot)	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	270lbs/acre (5'avg depth)	.44 acres	120 lbs	EWM
Chemical Brand: Renovate Max G EPA Reg #: 67690-50	Surface Application/injection	320lbs/acre	1 acre	320 lbs	EWM
Chemical Brand: Renovate OTF EPA Reg #: 67690-42	Surface Application/injection	270lbs/acre (5'avg depth)	.74 acres	200 lbs	EWM
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	320lbs/acre (5' avg depth)	3.37 acres	1080 lbs	EWM
Date of treatment (one date per table): 8/18/2015		of person applying Broekstra	g chemical:	Name of Comp	eany: I Land Management
Effectiveness: ☑ Good (70-100%) ☐ Fair (5	50-69%) Poor	(Less than 50%)	☐ Ineffective (	(0%) Did not	t treat (skip to section E)  EQP 2792 (Rev. 3/2012



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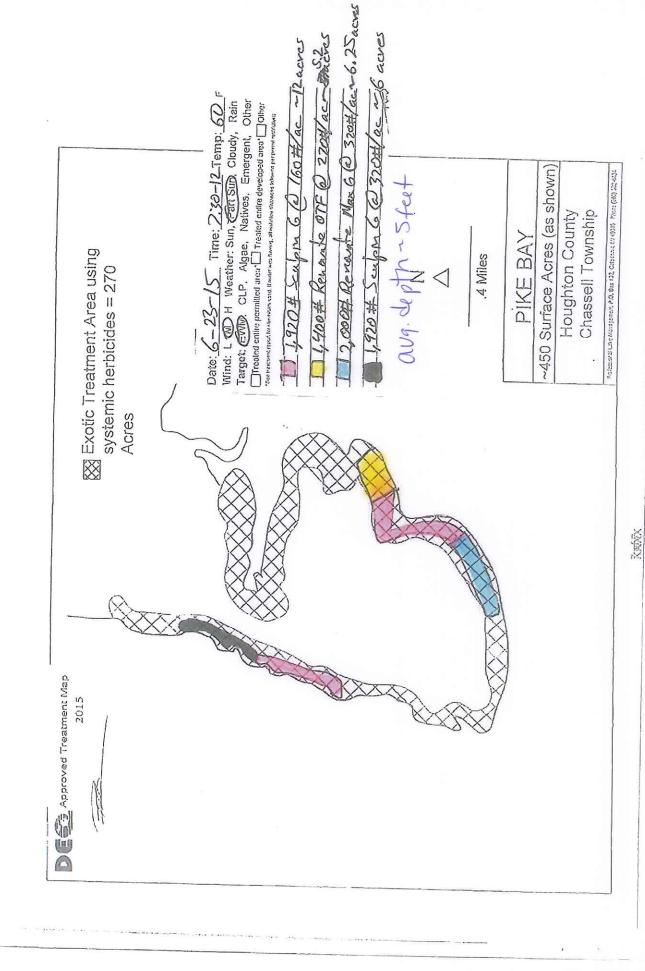
NOIDANOL A	QUATIC FLAI	NI ANDION A	LUAE GRUN	TIH, OR SVVIIV	INIER'S ITCH	
CHEMICAL USED	METHOD OF APPLICATION	RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot)	TREATMENT AREA SIZE (acres)	TOTAL AMOUNT (ex. 4 gallons, 10 lbs.)	FOR CONTROL OF: (Plant and/or Algae names)	
Chemical Brand: Renovate OTF EPA Reg #: 67690-42	Surface Application/injection	270lbs/acre n (5' avg depth)	4.75 acres	1280 lbs	EWM	
01						
Chemical Brand: Renovate OTF EPA Reg #: 67690-42	Surface Application/injection	270lbs/acre n (5' avg depth)	2.25 acre	600 lbs	EWM	
Chemical Brand: Sculpin G EPA Reg #: 67690-49	Surface Application/injection	320lbs/acre (5' avg depth)	4 acres	1280 lbs	EWM	
Data standard	L					
Date of treatment (one date per table): 9/28/2015		e of person applying on Broekstra	g chemical: Name of Company: PLM Lake and Land Management			
Effectiveness:	paso	II DIOCKSUA		PLIVI Lake and	Land Wanagement	
	(50-69%) Pod	or (Less than 50%)	☐ Ineffective	(0%) Did not	treat (skip to section E)	
CHEMICAL USED	METHOD OF APPLICATION	RATE OF APPLICATION (ex. 100 lbs/acre, 2.6 lbs/acre - foot)	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	270lbs/acre (5' avg depth)	~2 acres	520lbs	EWM	
Chemical Brand: Sculpin G	Surface	320lbs/acre	2	0.4011		
EPA Reg #: 67690-49	Application/injection	(5' avg depth)	~2 acres	640lbs	EWM	
Section D - Aquatic Plant Marequired to fill out Section D at 1. Do you or a lake management that is not required by the Area of the so, and you are willing, 2. If you or the lake management watermilfoil population(s)?	ent consultant ha NC permit?   please submit a  ent consultant is  X Yes	to Section E).  Ive a recent Aqua Yes  No  Copy of the field records  managing watern	tic Vegetation Sumap and survey s	urvey or other lake summary or lake r	e management report	
Determination of genetic ar	P-0			locations.		
Date(s) of sample(s): Number of sample locations:						
HERBICIDE RESISTANCE MANAGEMENT QUESTIONS:		CHECK ONE	IF YES, PLEASE EX	XPLAIN:		
Do you have an herbicide colerance/resistance management plan for his waterbody?			See NPDES/PDMP			
Has native watermilfoil occurred in this vaterbody historically?		Genetic Analysis Required to Confirm				
waterbody historically?				Genetic Analysis Required to Confirm		
Have you monitored field response to Nerbicides?			Monitored After Each Treatment			

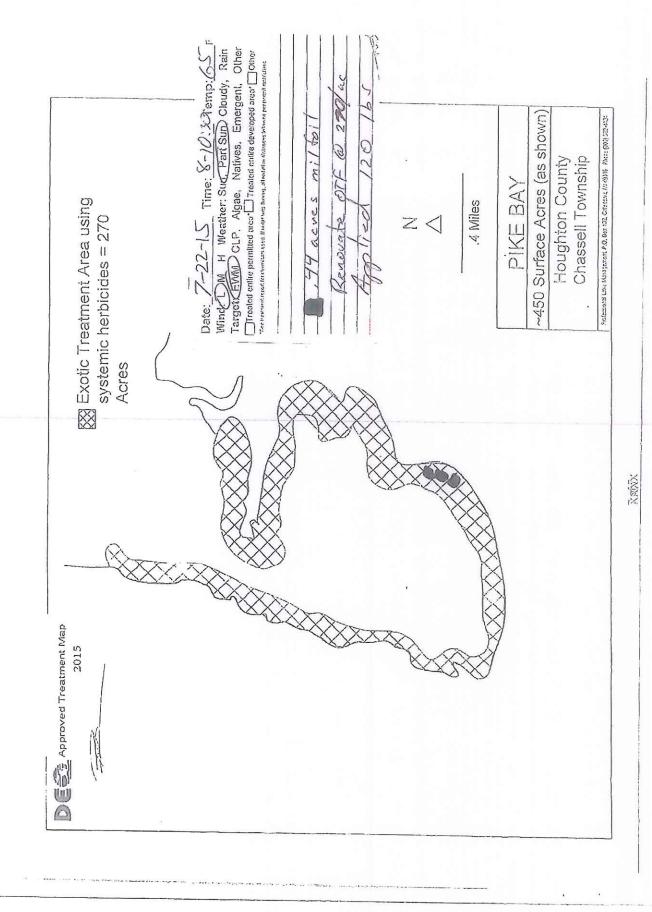


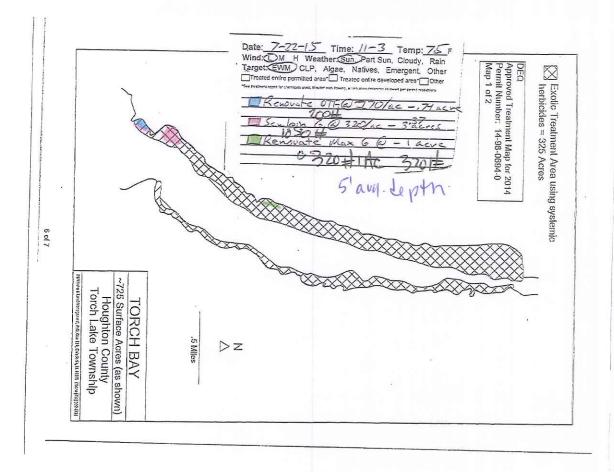
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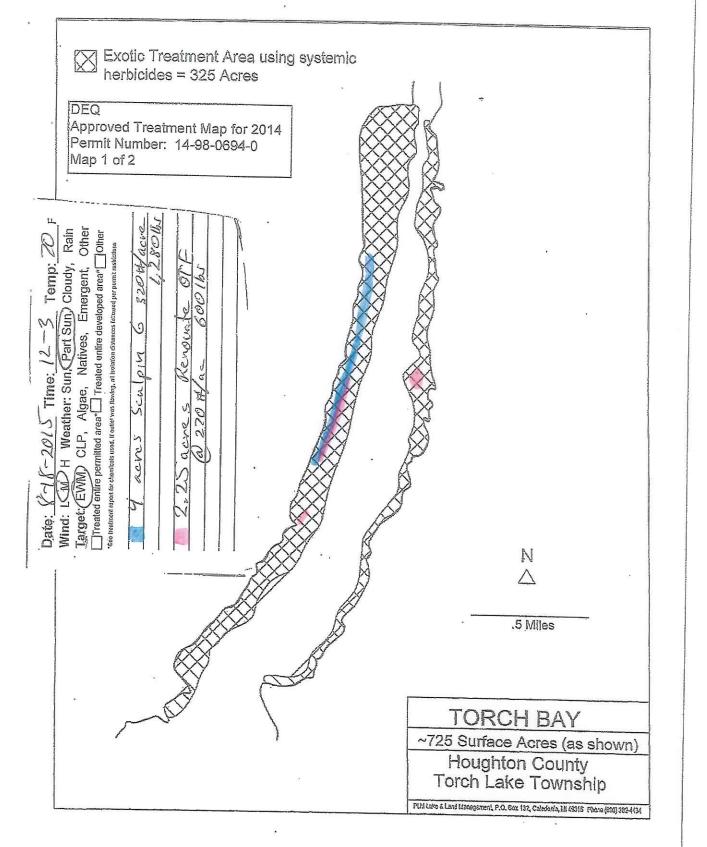
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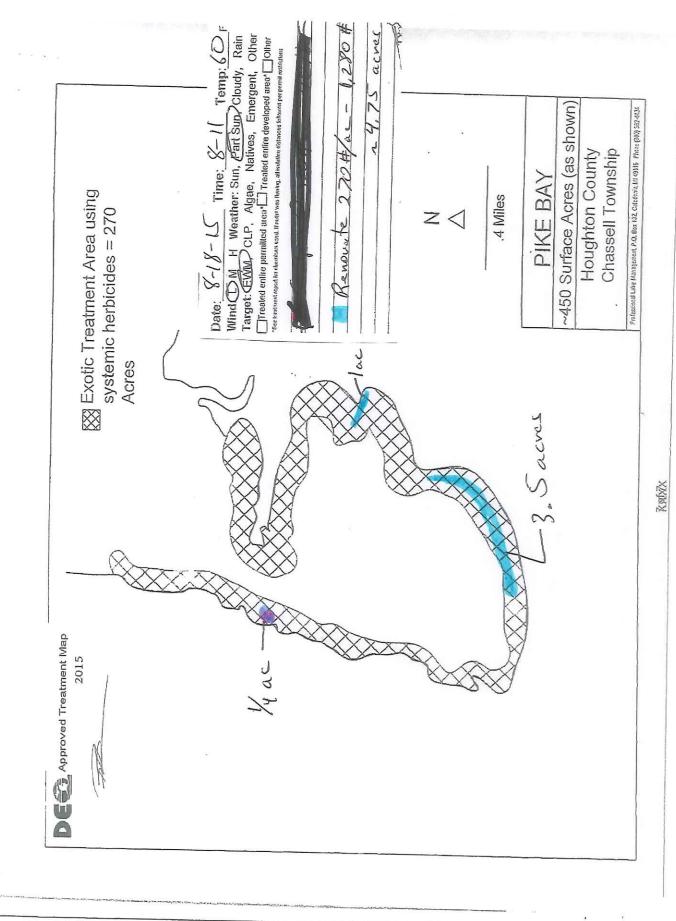
NOIDANGE AQUATIC FLA	4141 1-414	DIOKA	LGAE GROWTH, OR SWIIVIER'S [[CH		
Have you obtained an herbicide susceptibility analysis (e.g., PlanTest)?	Yes	X No			
Are you field testing different chemical protocols?	X Yes	□No	If Required and If Appropriate		
Are you rotating active ingredients so as to avoid herbicide resistance issues?	X Yes	□No	When Ever Possible		
Have you obtained a laboratory assay for response to treatment (e.g., EffecTEST)?	Yes	X No			
Section E - Adverse Incident Documentation and Reporting  1. Was any person or non-target organism exposed to a chemical during or after the treatment which caused the person or non-target organism to suffer a toxic or adverse effect?  Yes (if yes, please fill out the attached addendum to Section E)  No (if no, proceed to Section F)  Section F - Certification and Signature					
I, the undersigned, swear and affirm that the statements contained herein are true and correct and that the chemical treatments listed above were undertaken in accordance with the requirements of the permit and Part 33, Aquatic Nuisance Control, Natural Resources and Environmental Protection Act, 1994 PA, as amended.					
Submitter's Signature			BreAnne Grabill Submitter's Name (print)  12/1/2015 Date		

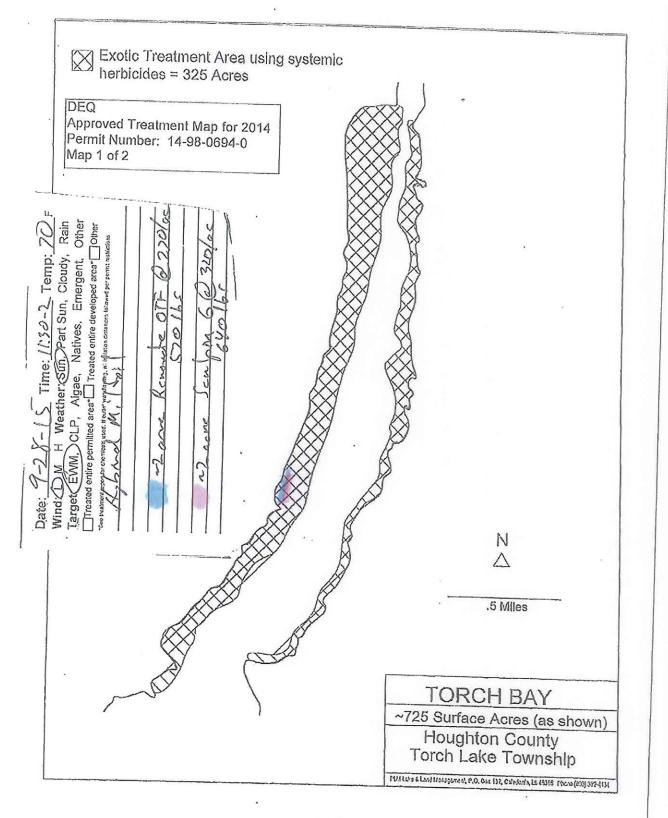












### PLM Lake & Land Management Corp.



December 3, 2015

Aquatic Nuisance Control Water Resources Division MDEQ P.O. Box 30458 Lansing, MI 48909-7958

RE: Vegetation Surveys, Management Plans and other Reports.

Within the 2015 permit it references several additional items (Vegetation Surveys, Management Plans and other reports) to be included with our annual treatment reports. To fulfill this requirement, PLM Lake & Land Management Corp (PLM) is providing our version of a Lake Management Plan as part of our 2015 Treatment Report when available. PLM provides some of our customers with a "Lake Management Plan" and/or "Results and Recommendations", which includes the basic intent of our management program. Some of these reports are produced at the initiation of our contract/Special Assessment District or at the time of renewal or on an annual basis. Many lakes also work with an independent consultant which provides the customer the Lake Management Plan. If a consultant is involved, PLM does not have the right to submit their confidential information. Confidential Business Information (CBI) not only applies to private consultants; many activities, documents and management recommendations that PLM provides to their customers would also be viewed as CBI. In addition to CBI, many of the services that PLM offers our clients take place in different formats of communication; email, phone calls, face to face, etc.

Many permits already specifically require Aquatic Vegetation Assessment Surveys (AVAS) if Sonar is being used or if there is a unique necessity for a particular waterbody. If proposing a lake wide treatment or evaluation treatment, we are required to provide a defined Lake Management Plan. PLM understands that unique situations and/or questions may arise regarding the management activities, plant communities, water quality which may require additional communication and sharing of specific data. If these situations occur, as in the past, please just let us know and we will provide you any support information that we have and/or we will obtain the information for you.

Please contact us if you have any questions and/or need any additional information.

Sincerely,

Jason Broekstra, Biologist

Vice President of Great Lake Operations

PLM Lake & Land Management Corp