



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor
Cathy Stepp, Secretary
John Gozdziński, Regional Director

Northern Region Headquarters
810 W. Maple Street
Spooner, Wisconsin 54801
Telephone 715-635-2101
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May 18, 2017

Permit #NO-2017-16-437

Tom Mahoney
16436 S. Whispering Pines Lane
Box 211
Minong, WI 54859

Dear Mr. Mahoney:

Enclosed you will find your approved Aquatic Plant Management permit for chemical treatment on Red Lake in Douglas County. Your application has been approved for the area described and may not be expanded. Details of the approved treatment area are as follows:

Township 38N Range 3W Sec. 22,27,28

Specific Project Description (as shown on application form).

1. For the spot treatment of EWM, on 2 identified sites covering a maximum of 4.11 acres.
2. Disturbance of wild rice is prohibited.
3. Treatments to be scheduled to avoid inclement weather that would hinder efficacy.
4. All requirements for notification according to NR 107.07 (3) must be satisfied prior to treatment.
5. All riparian residents within 150 feet of a treated areas must be properly notified per NR107.04(4).

Please note these selected permit conditions (refer to Section NR 107.08 for complete details):

1. Four-day advance notification of treatment is required unless exempted in Section VII of the application.
2. Treatment sites must be posted a minimum of one day or as specified in the use restrictions on the chemical label.
3. The Aquatic Plant Treatment Record must be submitted within 30 days after treatment or by October 1 if no treatment occurs.
4. **All equipment used for the project shall be de-contaminated following the most current protocols for invasive and exotic viruses and species prior to use and after use.**

Thank you for complying with the provisions of Wis. Adm. Code NR 107 concerning the use of aquatic pesticides for plant management. Feel free to contact Mark Sundeen at the Spooner Service Center at 715/635-4074 for further information.

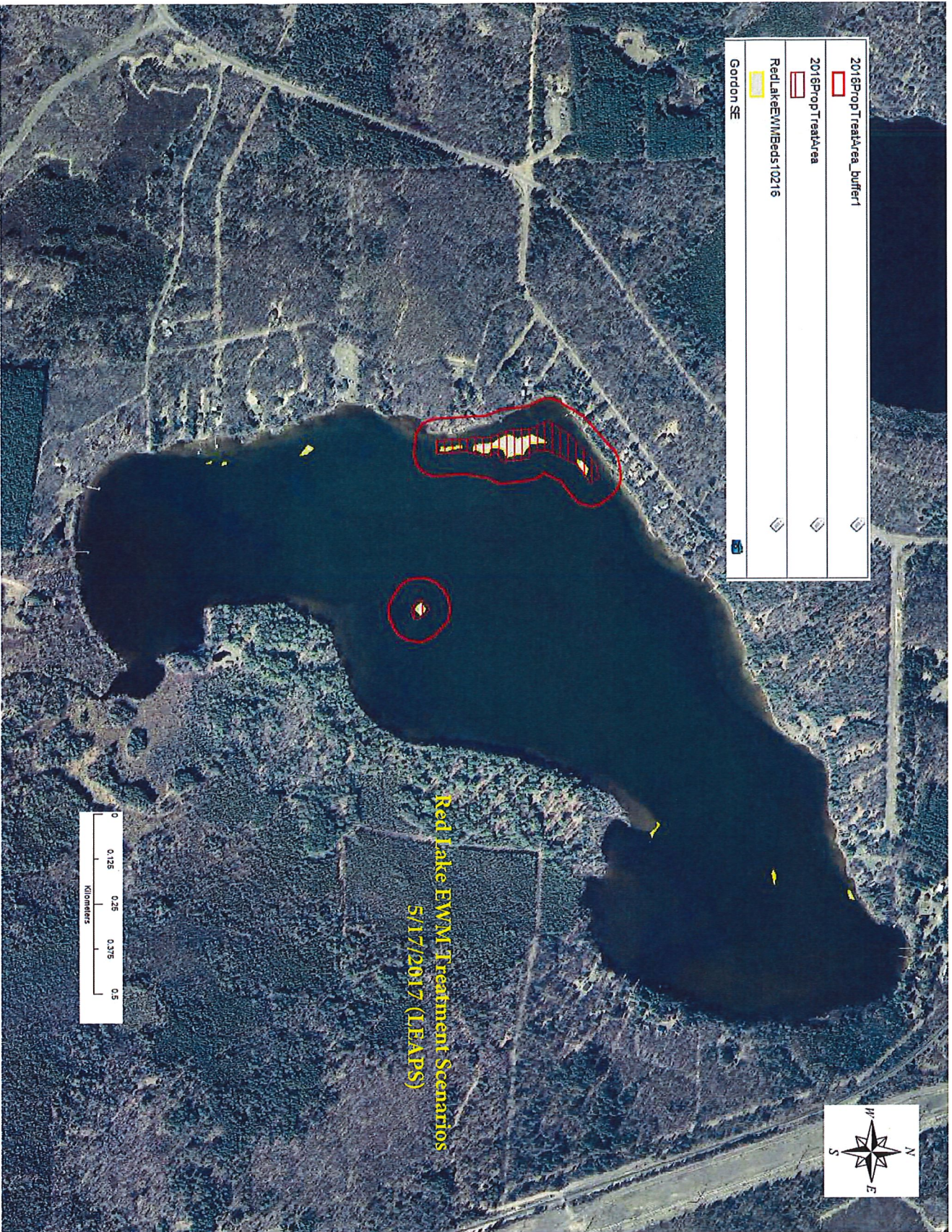
Sincerely,

A handwritten signature in cursive script that reads "Mark Sundeen".

John Gozdziwski
Northern Region Director

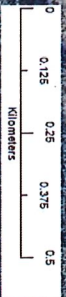
Enc.

Date Mailed May 18-2017



2016PropTreatArea_Buffer1		
2016PropTreatArea		
RedLakeEWMBeds 10216		
Gordon SE		

Red Lake EWM Treatment Scenarios
5/17/2017 (LEAPS)



2017 Red Lake Spring EMM Treatment Proposal Liquid (DMA 4) and Granular (Navigate) 5/17/2017 (LEAPS)									
New Name	Acres	Mean Depth (feet)	Target 2,4-D (DMA 4) (ppm a.e.)	Application rate (gall/acre-foot)	DMA 4 (gallons)	Target 2,4-D (Navigate) (ppm a.e.)	Application rate (lbs/acre-foot)	Navigate (lbs)	Narrative
WestBay-17	3.85	9.00	4.00	2.84	98.41	4.00	56.80	132.91	1st Proposed Treatment
EastBay-17	0.26	9.00	4.00	Not Applicable	98.41	4.00	56.80	132.91	2nd Proposed Treatment
Total Primary	4.11	9.00							

*Most EMM is on the deep water edge of the treatment area - may get rapid dissipation using liquid

98.41	132.91
at \$40.00/gallon	at \$5.00/lbs
\$3,936.24	\$664.56

\$4,600.80

2017 Red Lake Spring EMM Treatment Proposal Granular Only (Navigate) 5/17/2017 (LEAPS)						
New Name	Acres	Mean Depth (feet)	Target 2,4-D (Navigate) (ppm a.e.)	Application rate (lbs/acre-foot)	Navigate (lbs)	Narrative
WestBay-17	3.85	9.00	4.00	56.80	1988.12	1st proposed treatment
EastBay-17	0.26	9.00	4.00	56.80	132.91	2nd proposed treatment
Total Primary	4.11	9.00			2101.03	

*Comes with a 1 day swimming restriction

2101.03	2101.03
at \$5.00/lb	at \$5.00/lb
\$10,505.16	\$10,505.16

Whole Lake Rate = 0.0525 ppm

Target 2,4-D a.i.	Application Rates	
	Target 2,4-D (ppm a.e.)	DMA 4 liquid
1.5	21.3	1.50
2.0	28.4	2.00
2.5	35.5	2.50
3.0	42.6	3.00
3.5	49.7	3.50
4.0	56.8	4.00

2017 Red Lake Spring EMM Treatment Proposal Granular Only (Sculpin G) 5/17/2017 (LEAPS)						
New Name	Acres	Mean Depth (feet)	Target 2,4-D (Sculpin G) (ppm a.e.)	Application rate (lbs/acre-foot)	Sculpin G (lbs)	Narrative
WestBay-17	3.85	9.00	4.00	56.80	1988.12	1st proposed treatment
EastBay-17	0.26	9.00	4.00	56.80	132.91	2nd proposed treatment
Total Primary	4.11	9.00			2101.03	

*no swimming restriction

2101.03	2101.03
at \$4.60/lb	at \$4.60/lb
\$9,664.75	\$9,664.75

Whole Lake Rate = 0.0525 ppm

2017 Red Lake Spring EMM Treatment Proposal Granular Only (Renovate Max G) 5/17/2017 (LEAPS)						
New Name	Acres	Mean Depth (feet)	Target 2,4-D Diftricylpr (Renovate Max G) (ppm a.e.)	Application rate (lbs/acre-foot)	Renovate Max G (lbs)	Narrative
WestBay-17	3.85	9.00	2.50	46.80	1625.09	1st proposed treatment
EastBay-17	0.26	9.00	3.00	56.80	131.74	2nd proposed treatment
Total Primary	4.11	9.00			1756.83	

*Comes with a 120 day watering restriction if within 150-ft of shore

1756.83	1756.83
at \$6.00/lb	at \$6.00/lb
\$10,540.96	\$10,540.96

Whole Lake Rate = 0.0313 ppm

**Red ring on map is the 150-ft restricted area