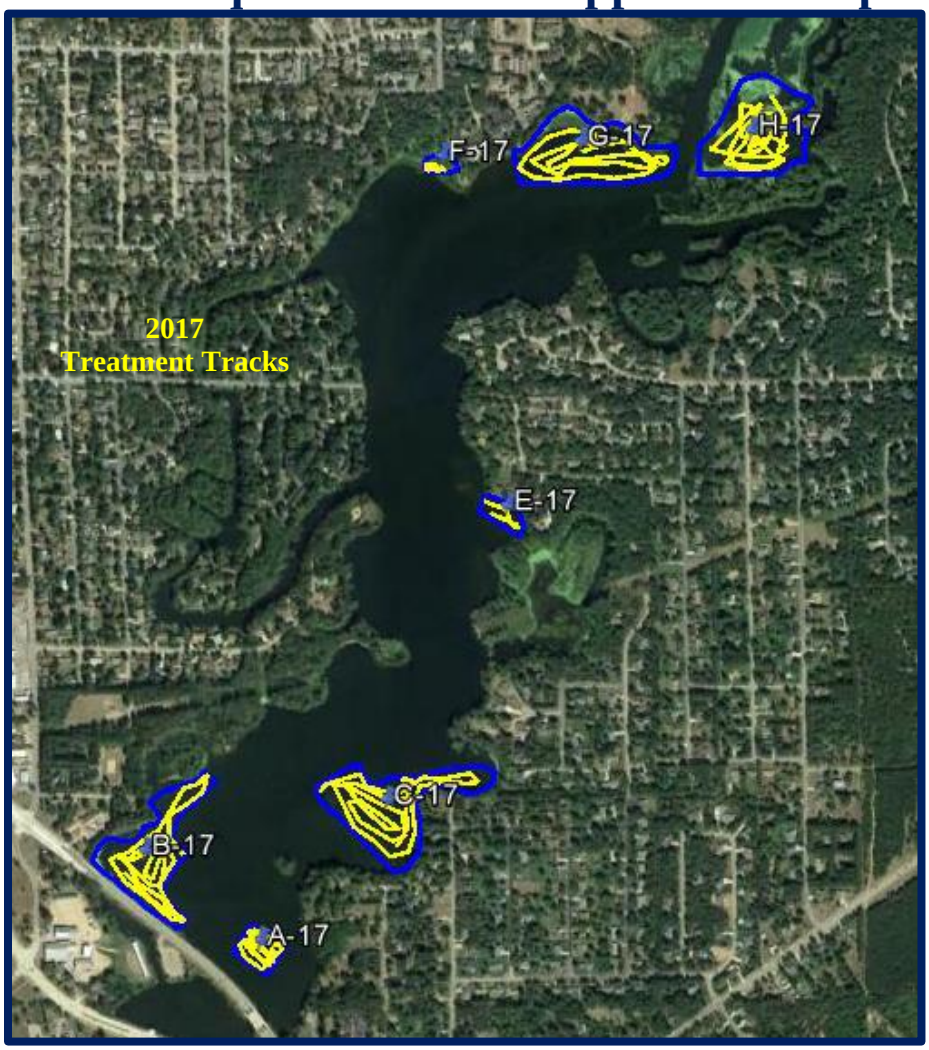
McDill Pond
Portage County, Wisconsin
2017 AIS Aquatic Pesticide Application Report



Prepared By:

CLEAN LAKES

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Prepared For:
McDill Inland Lake Protection and Rehabilitation District
3317 Della Street
Stevens Point, WI 54481

May 2017

AQUATIC PESTICIDE APPLICATIONS:

Clean Lakes, Inc. (CLI) was contracted by the McDill Inland Lake Protection and Rehabilitation District (the District) to perform aquatic pesticide (herbicide) applications to infestations of Eurasian watermilfoil (EWM) and its hybrid (HWM) in the project areas outlined below, in compliance with the published Wisconsin Department of Natural Resources (WDNR) Aquatic Invasive Species (AIS) Treatment Protocols, the March 13, 2012 coverage under the Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit for Aquatic Plant, Algae and Bacteria authorizing coverage for CLI, and the May 10, 2017 WDNR Permit Approval issued to the District (included as part of the attached Aquatic Pesticide Application Plan (APAP)).

The appropriate logs of the work performed, and map of the locations of AIS colonies treated are both included in this report.

McDill Pond, Portage County
May 9, 2017

McDill Pond, Portage County
May 11, 2017

McDill Pond, Portage County
May 11, 2017

AQUATIC HERBICIDES USED: The Aquatic Herbicide used was Syngenta Crop Production, LLC's Reward (liquid diquat), EPA Registration Number 100-1091 (Label and MSDS included as part of the attached Aquatic Pesticide Application Plan (APAP)).

TREATMENT SCHEDULE: The aquatic pesticide applications were performed on Thursday, May 11, 2017.

EQUIPMENT USED: A 21' Carolina Skiff DLX treatment vessel was used to perform the aquatic herbicide applications. The herbicide applications were made via Clean Lakes' precision application system, LittLine®, a littoral zone treatment technology. The LittLine has been proven to increase Contact Exposure Time (CET) and provide more efficacious control. Achieving necessary CET in McDill Pond is one of the largest challenges with aquatic plant management as the water flows rapidly throughout the system. Between watching the water flows and weather (mainly wind speed and direction), manipulating the dam for lowest flow possible for treatment, using a fast acting contact herbicide (Reward) and performing the application with a LittLine system, the project was positioned for the best CET possible and therefore optimistically satisfactory control in the treatment areas.

The aquatic vegetation treatment area shapefiles created following the 2017 pre-treatment survey completed by Amy Kay of Clean Lakes on May 9, 2017 were loaded into the treatment vessel's computer system for guidance and herbicide application data recording. The treatment tracks were automatically recorded vessel's GPS guidance system in addition to a handheld GPS device supported by GIS software for the production of the final treatment area maps to document the treatment areas and treatment tracks within. Treatment area maps are included in this report.

CLI provided the required support equipment for material handling (unloading trucks, loading boats) as well as support trucks for the vessels assigned to the project. The aquatic herbicides were brought to the site in 2.5 gallon containers. Northwoods Distribution out of Rhinelander, Wisconsin supported the project with herbicide loading and field support.

PERMIT COMPLIANCE: The District provided the required permits and approvals for the herbicide treatments from the Wisconsin Department of Natural Resources as outlined and included in the attached APAP.

CLI obtained coverage for aquatic plant control activities under the Statewide Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit (#WI-0064556-1 Clean Lakes, Inc. Statewide Treatments/FIN 46219) that provided authorization for the herbicide applications.

- **Visual Check Record:** Compliance with the WPDES permit requires a visual check be performed at a representative location during or soon after plant control activities. A visual check was carried out by Amy Kay (Wisconsin Commercial Pesticide Applicator) at multiple representative locations within the treatment area during the applications. During and immediately following the herbicide applications no adverse conditions were observed. Adverse Incidents are defined as death or distress of non-target organisms, disruption of wildlife habitat, risk to recreational activities, risk to human health, etc.
- **Pesticide Application Control:** To ensure that CLI did not exceed the pesticide label maximum rate, a licensed and certified applicator (Amy Kay – certification #90532) performed aquatic herbicide applications. Application equipment was maintained and calibrated prior to the application and discharge monitored during application to ensure effective pesticide application. Maintenance of herbicide transfer and application equipment ensured that no unintended discharges occurred.

PUBLIC NOTIFICATION AND POSTING PESTICIDE TREATMENT AREA WARNING SIGNS:

Pesticide Treatment Area Warning signs were posted along contiguous treated shorelines and those adjacent to them as well as at all public access points in order to adequately inform the public, as defined in NR 107.08 (7)(d) and (e).

WARNING

PESTICIDE TREATMENT AREA

THIS WATERBODY HAS BEEN CHEMICALLY TREATED FOR:

- [X] INVASIVE PLANTS
- [ ] ALGAE
- [ ] NAVIGATION/ACCESS
- [ ] FISH REMOVAL
- [ ] MOSQUITO/BLACK FLY
- [ ] OTHER

PESTICIDE APPLIED	ACTIVE INGREDIENT	DATE TREATED
Reward	diquat	5/11/2017

WATER USE RESTRICTIONS APPLY AS FOLLOWS:

- TO [X] THE ENTIRE WATERBODY
- TO [ ] WATER WITHIN ____ FT OF THIS NOTICE AND ____ FT FROM SHORE

DO NOT USE TREATED WATER FOR THE FOLLOWING PURPOSES UNTIL:

SWIMMING	NOT APPLICABLE	HOUSEHOLD USE (dishes, laundry, etc.)	NOT APPLICABLE
CONSUMING FISH	NOT APPLICABLE	IRRIGATION (CROP)	5/17/2017
DRINKING WATER	NOT APPLICABLE	IRRIGATION (OTHER)	5/17/2017
PET/LIVESTOCK WATER			

Wisconsin Dept. of Natural Resources
101 S. Webster St., P.O. Box 7921
Madison, WI 53707-7921
www.dnr.state.wi.us/lakes/plants/factsheets

SPONSOR McDill Inland Lake Protection & Rehab. District
CONTACT Krista Olson
PHONE (715) 347-8901

PUB-FH-443 2011

There are no swimming or fishing use restrictions. Water from the treatment areas may not be used for irrigation purposes for 5 days. The "Warning" signs need to be posted for the duration of the irrigation use restriction (until May 17, 2017). The District published all other notices per the treatment requirements.

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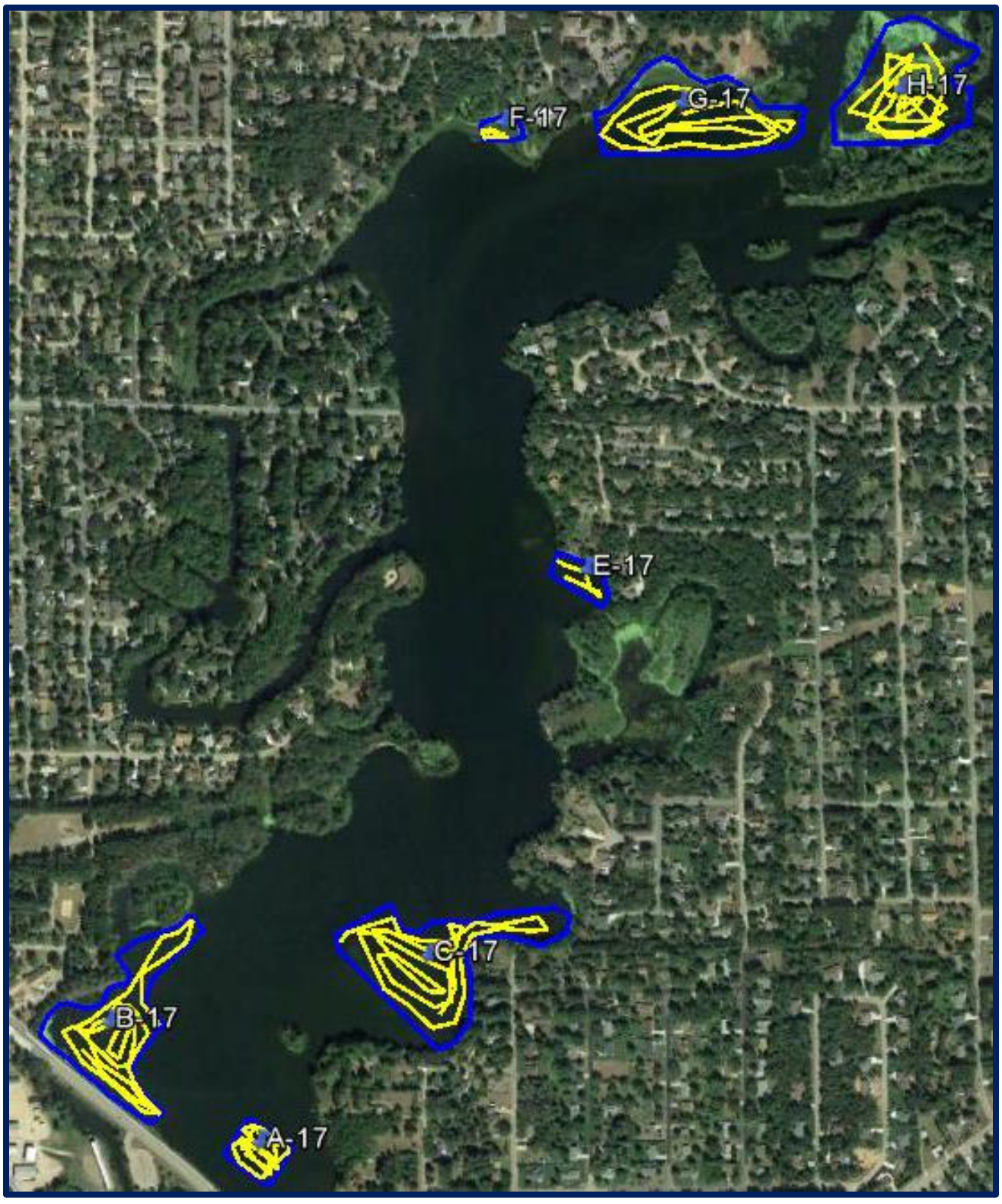
2017 Treatment Site Layout and Area & Herbicide Rate Data

2017 McDill Pond Treatment Area & Herbicide Rate Data				Reward (liquid diquat)	
ID	Acreage	Mean Depth Estimate	Volume	Gallons/Acre	Total Gallons
A-17	1.3	7.00	9.1	2	2.6
B-17	6.1	4.00	24.4	2	12.2
C-17	7.7	3.70	28.5	2	15.4
E-17	0.9	1.50	1.4	1	0.9
F-17	0.5	1.70	0.9	1	0.5
G-17	7.7	3.20	24.6	2	15.4
H-17	7.4	3.70	27.4	2	14.8
Totals	31.6		116.2		61.8

2017 Treatment Areas with Treatment Tracks



EQUIPMENT DECONTAMINATION

PROCEDURES: Equipment decontamination measures were performed prior to entering McDill Pond and moving CLI's vessel to another waterbody per the current decontamination procedures (Reference NR40).

Little Green Lake, Green Lake County
May 3, 2017

Project Cost Data: The table below outlines the quantities of herbicide used, herbicide costs, application costs, total costs, and cost per acre. Bullet pointed below describes this and the other program costs associated with the 2016-2017 control project.

2017 McDill Pond Herbicide Rate/Cost Data				Reward (liquid diquat)		Application Costs/Acre	Application Costs/Site	Herbicides Costs/Acre	Herbicides Costs/Site	Total
ID	Acreage	Mean Depth Estimate	Volume	Qty/Acre	Total	Application	Application	Herbicides	Herbicides	Application +Herbicides
A-17	1.3	7.00	9.1	2	2.6	$95.00	$123.50	$210.00	$273.00	$396.50
B-17	6.1	4.00	24.4	2	12.2	$95.00	$579.50	$210.00	$1,281.00	$1,860.50
C-17	7.7	3.70	28.5	2	15.4	$95.00	$731.50	$210.00	$1,617.00	$2,348.50
E-17	0.9	1.50	1.4	2	0.9	$95.00	$85.50	$105.00	$94.50	$180.00
F-17	0.5	1.70	0.9	2	0.5	$95.00	$47.50	$105.00	$52.50	$100.00
G-17	7.7	3.20	24.6	2	15.4	$95.00	$731.50	$210.00	$1,617.00	$2,348.50
H-17	7.4	3.70	27.4	2	14.8	$95.00	$703.00	$210.00	$1,554.00	$2,257.00
Totals	31.6		116.2		61.8		$3,002.00		$6,489.00	$9,491.00

- 2016 Fall BioBase Mapping for spring treatment planning cost is $1,440.00
- 2017 Spring Growing Season Pre-Treatment Mapping cost is $680.00
- The Reward costs were $105.00 per gallon including delivery to the project site. The total herbicide costs were $6,489.00.
- The herbicide application costs were $95.00 per acre for a total herbicide application cost of $3,002.00.
- Mobilization costs for the 2017 project were $3,500.00.
- A credit of $360.00 was provided to the District for posting the Treatment Area Warning signs according to NR107 and WDNR issued permit.
- The total 2017 project costs as outlined in the table and detailed above are: **$14,751.00**

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LIST OF PROJECT PERSONNEL

PROJECT MANAGER:

Amy Kay Wensink (Amy Kay)
WI Commercial Pesticide Applicator
Applicators Certification No. 90532
Cell Phone: 715-891-6798
Email: akay@cleanlakesmidwest.com

SITE SAFETY AND HEALTH OFFICER:

Amy Kay
Cell Phone: 715-891-6798

EMERGENCY RESPONSE COORDINATOR:

Amy Kay
Cell Phone: 715-891-6798

FIELD SUPPORT PERSONNEL:

Steve Dahlquist
WI Certified Mixer/Loader
Northwoods Distribution
Cell Phone: 715-493-9901

MCDILL POND CONTACT:

Krista Olson
Cell Phone: 715-347-8901
Email: mcdillpond@charter.net

Attachments:

- **Wisconsin DNR Aquatic Plant Management Herbicide Treatment Record for May 11, 2017.**
- **McDill Pond 2017 Aquatic Pesticide Application Plan (APAP) that includes:**
  - Wisconsin DNR Approval Letter & Permit Application
  - Product Label and MSDS for Reward
  - Site Specific Safety Plan for the project, May 11, 2017

END OF PESTICIDE APPLICATION REPORT (See Attachments)