

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AIRR21017

Name: LONG LAKE PROTECTION DISTRICT: Identification and Suppression of SSW on Long Lake II

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Early Detection and Response

Status: COMPLETE

Start Date: 6/1/2016

End Date: 6/30/2018

Purpose: The Long Lake Protection District will hire a consultant to survey and manage a pioneering population of Starry Stonewort (*Nitellopsis obtusa*).

Project deliverables: long term management plan; summary of the 2016 hand pulling efforts; summary of the 2016 chemical treatment efforts, 2016 starry stonewort distribution maps; 2016 plant height data; final report evaluating the effectiveness of hand pulling and chemical treatment, copies of permits, and data entry into SWIMS.

Project activities: 1) Development of plan for the future monitoring and control of Starry Stonewort in Long Lake; 2) Conduct chemical treatments; 3) Conduct hand pulling of Starry Stonewort; 4) Conduct measurements of plant height for all Starry Stonewort beds; 5) Conduct a snorkel/kayak/boat survey to map starry stonewort distribution; 6) Generate a final report containing all the project deliverables.

Special Conditions: 1) All data shall be entered into the SWIMS database; 2) Volunteer and equipment use lists and signatures shall be maintained for reporting in kind volunteer labor and equipment.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. Data, records, and reports, including GIS-based maps, and digital images, must be submitted to the Department in a format specified by the regional Lake Biologist.

If consultant is to provide final report, it is recommended that Grantee provide DNR Lake Coordinator with a draft for comment on report adequacy prior to making final payment to the consultant. DNR to receive both paper and electronic .pdf copies of the final report along with, or prior to submission of grantee's final payment request.

Objective:

Comments: Grantee is LONG LAKE PROTECTION DISTRICT

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Bunk, Heidi J	LAKE_BIOLOGIST	ACTIVE	8/16/2019		Wisconsin DNR	
KRETLOW, AMY L	TEAM_MEMBER	ACTIVE	8/16/2019		Wisconsin DNR	
Long Lake Protection District,	TEAM_MEMBER	ACTIVE	8/16/2019		Long Lake Protection District	
Mosel, Kyle J	TEAM_MEMBER	INACTIVE	8/16/2019	2/23/2023	WISCONSIN DNR	

Project Statuses

Date	Reported By	Status	Comments
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Wisconsin Department of Natural Resources SWIMS Project Summary

Actions				
Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AIRR21017 awarded	6/1/2016	12/31/2017	COMPLETE
APM Chemical Permit Request	Chemical Permit Details	3/29/2017	12/31/2017	APPROVED
Details: Parameter	Value/Amount	Units	Comments	
APM Plan	N			
Algae	N			
Algimycin PWF Algaecide / Cyanobactericide	Y			
Alternative - Drawdown	N			
Alternative - Dredging	N			
Alternative - Manual Removal	Y			
Alternative - Mechanical Harvesting	N			
Alternative - Nutrient Controls	N			
Alternative - Sediment Screens	N			
Alternative - Why Not Drawdown	Studies have shown detrimental effects to nutrient loading			
Alternative - Why Not Dredging	Public lake			
Alternative - Why Not Manual	Some manual removal is done by homeowners			
Alternative - Why Not Mechanical	Too costly and dealing with localized areas			
Alternative - Why Not Nutrient Control	Unknown			
Alternative - Why Not Sediment Screens	Too costly and would not promote beneficial growth			
Aqua Star	N			
AquaPro Herbicide	N			
AquaShade Aquatic Plant Growth Control	N			
AquaStrike	Y			
Aquaneat Aquatic Herbicide	Y			
Aquashadow Black Pond Colorant	N			
Aquathol K Aquatic Herbicide	Y			
Aquathol Super K Granular Aquatic Herbicide	Y			
Avast! SC Aquatic Herbicide	Y			
Business Location License	N/A			
CO – Date Sent	3/29/2017			
CO-Date_Received	3/29/2017			
CONTROL_INVASIVES	Y			
CONTROL_OTHER	Y			
CONTROL_OTHER_LIST	Aesthetics			

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Captain Liquid Copper Algaecide	Y		
Captain XTR Liquid Copper Algaecide	Y		
Category 5 Certification Number	N/A		
Chemical Permit ID	4216		
Chemicals - Approved	Algae Defense, Algimycin, Captain/XTR, Cleargate, Cutrine +/Ultra, Earthtec, F-30, Green Clean, Komeen/Granular, Phycomycin, K-Tea, Aquastrike, Aquathol K/Super K, Avast, Current, Clipper, DMA-4, Habitat, Hydrothol, Navigate, Navitrol DPF, Reward, Schooner		
Chemicals Permitted Previous Year	Some		
Chinook	N		
Clearcast (general)	N		
Cleargate	Y		
Clipper Herbicide	Y		
Clipper SC Aquatic Herbicide	N		
Comments	Corrected/added information 7/2/2020 (EAH)		
Common reed (<i>Phragmites australis</i>)	Y		
Common waterweed (<i>Elodea canadensis</i>)	N		
Common/Glossy Buckthorn	N		
Control - Algae	Y		
Control - Emergent water plants	Y		
Control - Floating water plants	Y		
Control - Submerged water plants	Y		
Coontail (<i>Ceratophyllum demersum</i>)	N		
Curly-leaf pondweed (<i>Potamogeton crispus</i>)	Y		
Current	Y		
Cutrine-Plus Algaecide and Herbicide	Y		
Cutrine-Plus Granular Algaecide	N		
Cutrine-Ultra Algaecide / Herbicide / cyanobactericide	Y		
DMA 4 IVM Herbicide	Y		
Earthtec Algaecide / Bactericide	Y		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Element 3A Herbicide	N		
Estimated Acres	109.2		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Fee	1270		
Field Issued By	Craig_Helker		
Flowering Rush	N		
Flumioxazin 51% WDG - NonCrop	N		
Formula F-30 Algae Control	N		
Garlon 3A Herbicide	N		
Green Clean (general)	Y		
Habitat (general)	Y		
Harpoon (general)	N		
Harvester Landscape and Aquatic Herbicide	N		
Havoc Amine	N		
Hybrid Cattail	N		
Hybrid Watermilfoil	N		
Hydrothol 191 Aquatic Algicide and Herbicide	Y		
Hydrothol Granular Aquatic Algaecide and Herbicide	N		
Improvement - swimming	N		
Japanese Knotweed	N		
K-Tea Aquatic Algaecide	Y		
Komeen Aquatic Herbicide	Y		
Komeen Crystal Aquatic Herbicide	N		
Lake Surface Area	109.19		
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Maintain navigational channel	Y		
Maintain private access - boating	Y		
Maintain private access - fishing	Y		
Method of Application	Backpack sprayer, 2" commercial sprayer, Granular Hand Spreader		
Milestone Herbicide	N		
More than 1 Property Owner	Y		
NUISANCE_CAUSED_OTHER	N		
Naiad	N		
Narrow-Leaf Cattail	N		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Nautique Aquatic Herbicide	N		
Navigate	Y		
Navitrol DPF Aquatic Herbicide	Y		
Navitrol Landscape and Aquatic Herbicide	N		
Nutri-Sorb	N		
Orb-3 (general)	N		
Other Plants	White water lily, Cattails		
Overflow Controlled	N		
Permit County	Racine		
Permit End Year	2017		
Permit Latitude	42.830671		
Permit Longitude	-88.172274		
Permit PLSS Section	0704N20E		
Permit Start Year	2017		
Permit WBIC	761100		
Permit Year	2017		
Phycomycin SCP Algaecide and Oxidizer	Y		
Polaris	N		
Polaris AC	N		
Pond-Klear	N		
Pondweeds	N		
Private Pond	N		
ProcellaCOR EC	N		
Purple loosestrife (Lythrum salicaria)	Y		
Reed Canary Grass	N		
Reed Manna Grass	N		
Refuge Herbicide	Y		
Renovate 3	N		
Renovate LZR Aquatic Herbicide	N		
Renovate LZR Max Aquatic Herbicide	N		
Renovate Max G Aquatic Herbicide	N		
Renovate OTF Aquatic Herbicide	N		
Reward Landscape and Aquatic Herbicide	Y		
Rodeo Herbicide	N		
Roundup Custom for Aquatic & Terrestrial Use	N		
SCI-62 Algicide / Bactericide	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Sculpin G Aquatic Herbicide	Y				
SeClear (general)	Y				
SeClear G Algaecide and Water Quality Enhancer	Y				
Sensitive Area	N				
Shoreklear-Plus Aquatic Herbicide	Y				
Shredder Amine 4	N				
Sonar A.S.	N				
Sonar Genesis Aquatic Herbicide	N				
Sonar H4C Aquatic Herbicide	N				
Sonar PR Precision Release	N				
Sonar Q Aquatic Herbicide	N				
Sonar RTU Aquatic Weed Herbicide	N				
Sonar SRP Aquatic Herbicide	N				
SonarOne Aquatic Herbicide	N				
Starry Stonewort	Y				
Stingray Aquatic Herbicide	N				
Surface Water Discharge	Y				
Symmetry NXG	Y				
TREATMENT_AREA	Long Lake				
Touchdown Pro	Y				
Treatment Area Greater Than 5%	Y				
Treatment Date	N				
Treatment Date	N				
Tribune Herbicide	N				
WPDES Coverage	N				
Waterbody Type	LAKE				
Waterbody have Public Access	Y				
Weedar 64 Broadleaf Herbicide	N				
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N				
Wind Direction	N/A				
Yellow Floating Heart	N				
Yellow Iris	N				
APM Chemical Treatment Record	Chemical treatment details		5/4/2017	5/4/2017	COMPLETE
Details: Parameter	Value/Amount	Units	Comments		
Air Temperature	61				
Air Temperature Units	F				
Aqua-Pro Acres	0				

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Aqua-Pro Gallons	0		
Aquaneat Acres	0		
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		
Aquastar Acres	0		
Aquastar Gallons	0		
Aquathol Acres	0		
Aquathol Gallons	0		
Aquathol K Acres	0		
Aquathol K Gallons	62.5		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	13.29		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
CURLY_LEAF_PONDWEED_ SITE	1, 2, 4-12		
Captain XTR, # Acres	0		
Captain XTR, # Gallons	0		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Common waterweed (Elodea canadensis)	SP		
Contains Herbicide totals	Y		
Control Comments	Whole lake 2,4-D = 0.182 ppm & whole lake Aquathol K = 0.106 ppm.		
Coontail (Ceratophyllum demersum)	SP		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Curly-leaf pondweed (Potamogeton crispus)	TS		
Citrine Acres	0		
Citrine Liquid Acres	0		
Citrine Liquid Gallons	0		
Citrine Plus Acres	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Citrine Plus Liquid Acres	0		
Citrine Plus Liquid Gallons	0		
Citrine Plus Pounds	0		
Citrine Pounds	0		
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Duration of Chemical Residualts	21 days		
EURASIAN_WATERMILFOIL_ SITE	1, 3-12		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		
Filamentous Algae	SP		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large Duckweed (Spirodela polyrhiza)	SP		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry stonewort		
OTHER_Aquatics_SITE	14		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	Jeff Stelzer		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sonar AS Gallons	0		
Sonar AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	5/4/2017		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Treatment End Time	14:15				
Treatment Start Time	8:45				
Tribune Acres	0				
Tribune Gallons	0				
Vectobac Acres	0				
Vectobac Gallons	0				
Water Temperature	58.8				
Water Temperature Units	F				
Water Use Restriction - Animal Water	N				
Water Use Restriction - Crop Irrigation	N				
Water Use Restriction - Drinking Water	N				
Water Use Restriction - Fish Consumption	N				
Water Use Restriction - None	N				
Water Use Restriction - Other Irrigation	N				
Water Use Restriction - Swimming	N				
White water lily (Nymphaea odorata)	SP				
Wind Direction	NE				
Wind Speed	5-10				
APM Chemical Treatment Record	Chemical treatment details		5/4/2017	5/4/2017	COMPLETE

Details: Parameter	Value/Amount	Units	Comments		
Aqua-Pro Acres	0				
Aqua-Pro Gallons	0				
Aquaneat Acres	0				
Aquaneat Gallons	0				
Aquashade Acres	0				
Aquashade Pounds	0				
Aquastar Acres	0				
Aquastar Gallons	0				
Aquathol Acres	0				
Aquathol Gallons	0				
Aquathol K Acres	0				
Aquathol K Gallons	62.5				
Aquathol Super K, # Acres	0				
Aquathol Super K, # Pounds	0				
Aquathol, # Acres Gallons	25.81				
Aquathol, # Pounds	0				
Avast Acres	0				

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Avast Gallons	0		
Captain XTR, # Acres	0		
Captain XTR, # Gallons	0		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	N		
Control Comments	DUPLICATE RECORD		
Copper Acres	1.97		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	120		
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	N/A		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sonar AS Gallons	0		
Sonar AS Acres	0		
Touchdown Pro Acres	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Touchdown Pro Gallons	0		
Treatment Date Series	DUPLICATE RECORD		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		

APM Chemical Treatment Record	Chemical treatment details	5/23/2017	5/23/2017	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Air Temperature	62		
Air Temperature Units	F		
Aqua-Pro Acres	0		
Aqua-Pro Gallons	0		
Aquaneat Acres	0		
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		
Aquastar Acres	0		
Aquastar Gallons	0		
Aquathol Acres	0		
Aquathol Gallons	0		
Aquathol K Acres	0		
Aquathol K Gallons	0		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	0		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
CHARA_SITE	A,B,C,D		
COONTAIL_SITE	A,B,C,D		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
CURLY_LEAF_PONDWEED_SITE	B		
Captain XTR, # Acres	0.9		
Captain XTR, # Gallons	8.5		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Curly-leaf pondweed (Potamogeton crispus)	SP		
Citrine Acres	0		
Citrine Liquid Acres	0		
Citrine Liquid Gallons	0		
Citrine Plus Acres	0		
Citrine Plus Liquid Acres	0		
Citrine Plus Liquid Gallons	0		
Citrine Plus Pounds	0		
Citrine Pounds	0		
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
EURASIAN_WATERMILFOIL_SITE	B,C		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
FLAMENTOUS_ALGAE_SITE	B,C,D		
Filamentous Algae	SP		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
ILLINOIS_PONDWEED_SITE	B		
Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	Jeff Stelzer		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sonar AS Gallons	0		
Sonar AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	5/23/2017		
Treatment End Time	10:49		
Treatment Start Time	9:25		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
WHITE_WATER_LILY_SITE	A,C,D		
Water Temperature	60.5		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
White water lily (Nymphaea odorata)	SP		
Wind Direction	S		
Wind Speed	5-10		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

APM Chemical Treatment Record	Chemical treatment details	6/7/2017	6/7/2017	COMPLETE
Details: Parameter	Value/Amount	Units	Comments	
Air Temperature	75			
Air Temperature Units	F			
Aqua-Pro Acres	0			
Aqua-Pro Gallons	0			
Aquaneat Acres	0			
Aquaneat Gallons	0			
Aquashade Acres	0			
Aquashade Pounds	0			
Aquastar Acres	0			
Aquastar Gallons	0			
Aquathol Acres	0			
Aquathol Gallons	0			
Aquathol K Acres	0			
Aquathol K Gallons	0			
Aquathol Super K, # Acres	0			
Aquathol Super K, # Pounds	0			
Aquathol, # Acres Gallons	0			
Aquathol, # Pounds	0			
Avast Acres	0			
Avast Gallons	0			
Captain XTR, # Acres	0			
Captain XTR, # Gallons	0			
Clearcast Acres	0			
Clearcast Gallons	0			
Clearigate Acres	0			
Clearigate Gallons	0			
Contains Herbicide totals	Y			
Coontail (Ceratophyllum demersum)	SP			
Copper Acres	1.41			
Copper Liquid, # Acres	0			
Copper Liquid, # Gallons	0			
Copper Pounds	84			
Citrine Acres	0			
Citrine Liquid Acres	0			
Citrine Liquid Gallons	0			
Citrine Plus Acres	0			
Citrine Plus Liquid Acres	0			
Citrine Plus Liquid Gallons	0			
Citrine Plus Pounds	0			

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Citrine Pounds	0		
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Endothol Acres	0		
Endothol Liquid Acres	0		
Endothol Liquid Gallons	0		
Endothol Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
Filamentous Algae	SP		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large Duckweed (Spirodela polyrhiza)	SP		
Muskgrasses (Chara)	SP		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	Jeff Stelzer		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sogo pondweed (Stuckenia pectinata)	SP		
Sonar AS Gallons	0		
Sonor AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	6/7/2017		
Treatment End Time	12:47		
Treatment Start Time	11:41		
Tribune Acres	0		
Tribune Gallons	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	71.2		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
White water lily (Nymphaea odorata)	SP		
Wind Direction	E		
Wind Speed	0-5		

APM Chemical Treatment Record	Chemical treatment details	6/23/2017	6/23/2017	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Air Temperature	79		
Air Temperature Units	F		
Aqua-Pro Acres	0		
Aqua-Pro Gallons	0		
Aquaneat Acres	0		
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		
Aquastar Acres	0		
Aquastar Gallons	0		
Aquathol Acres	0		
Aquathol Gallons	0		
Aquathol K Acres	0		
Aquathol K Gallons	0		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	0		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
Captain XTR, # Acres	2.16		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Captain XTR, # Gallons	17.5		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
Filamentous Algae	SP		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large Duckweed (Spirodela polyrhiza)	SP		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	Jeff Stelzer		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sogo pondweed (Stuckenia pectinata)	SP		
Sonar AS Gallons	0		
Sonar AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	6/23/2017		
Treatment End Time	13:52		
Treatment Start Time	11:45		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	74.5		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
White water lily (Nymphaea odorata)	SP		
Wind Direction	NW		
Wind Speed	10-15		

APM Chemical Treatment Record	Chemical treatment details	6/23/2017	6/23/2017	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Aqua-Pro Acres	0		
Aqua-Pro Gallons	0		
Aquaneat Acres	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		
Aquastar Acres	0		
Aquastar Gallons	0		
Aquathol Acres	0		
Aquathol Gallons	0		
Aquathol K Acres	0		
Aquathol K Gallons	0		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	0		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
Captain XTR, # Acres	2.16		
Captain XTR, # Gallons	17.5		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	N		
Control Comments	DUPLICATE RECORD		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Citrine Acres	0		
Citrine Liquid Acres	0		
Citrine Liquid Gallons	0		
Citrine Plus Acres	0		
Citrine Plus Liquid Acres	0		
Citrine Plus Liquid Gallons	0		
Citrine Plus Pounds	0		
Citrine Pounds	0		
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Diquat Liquid Acres	0		
Diquat Pounds	0		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	N/A		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sonar AS Gallons	0		
Sonar AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date Series	DUPLICATE RECORD		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		

APM Chemical Treatment Record	Chemical treatment details	7/20/2017	7/20/2017	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Air Temperature	80		
Air Temperature Units	F		
Aqua-Pro Acres	0		
Aqua-Pro Gallons	0		
Aquaneat Acres	0		
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Aquastar Acres	0		
Aquastar Gallons	0		
Aquathol Acres	0		
Aquathol Gallons	0		
Aquathol K Acres	0		
Aquathol K Gallons	0		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	0		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
Captain XTR, # Acres	0		
Captain XTR, # Gallons	0		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
Filamentous Algae	SP		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large Duckweed (Spirodela polyrhiza)	SP		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Person Completing Form	Eric Rudzinski		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sogo pondweed (Stuckenia pectinata)	SP		
Sonar AS Gallons	0		
Sonor AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	7/20/2017		
Treatment End Time	11:44		
Treatment Start Time	9:30		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	78.5		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Water Use Restriction - Fish Consumption	N				
Water Use Restriction - None	N				
Water Use Restriction - Other Irrigation	N				
Water Use Restriction - Swimming	N				
White water lily (Nymphaea odorata)	SP				
Wind Direction	NW				
Wind Speed	5-10				
APM Chemical Treatment Record	Chemical treatment details		8/11/2017	8/11/2017	COMPLETE
Details: Parameter	Value/Amount	Units	Comments		
Air Temperature	73				
Air Temperature Units	F				
Aqua-Pro Acres	0				
Aqua-Pro Gallons	0				
Aquaneat Acres	0				
Aquaneat Gallons	0				
Aquashade Acres	0				
Aquashade Pounds	0				
Aquastar Acres	0				
Aquastar Gallons	0				
Aquathol Acres	0				
Aquathol Gallons	0				
Aquathol K Acres	0				
Aquathol K Gallons	0				
Aquathol Super K, # Acres	0				
Aquathol Super K, # Pounds	0				
Aquathol, # Acres Gallons	0				
Aquathol, # Pounds	0				
Avast Acres	0				
Avast Gallons	0				
Captain XTR, # Acres	0.78				
Captain XTR, # Gallons	5				
Clearcast Acres	0				
Clearcast Gallons	0				
Clearigate Acres	0				
Clearigate Gallons	0				
Contains Herbicide totals	Y				
Coontail (Ceratophyllum demersum)	SP				
Copper Acres	0				

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Citrine Acres	0		
Citrine Liquid Acres	0		
Citrine Liquid Gallons	0		
Citrine Plus Acres	0		
Citrine Plus Liquid Acres	0		
Citrine Plus Liquid Gallons	0		
Citrine Plus Pounds	0		
Citrine Pounds	0		
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
Filamentous Algae	SP		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large Duckweed (Spirodela polyrhiza)	SP		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2017		
Person Completing Form	Eric Rudzinski		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Sogo pondweed (Stuckenia pectinata)	SP				
Sonar AS Gallons	0				
Sonar AS Acres	0				
Touchdown Pro Acres	0				
Touchdown Pro Gallons	0				
Treatment Date	8/11/2017				
Treatment End Time	11:49				
Treatment Start Time	10:56				
Tribune Acres	0				
Tribune Gallons	0				
Vectobac Acres	0				
Vectobac Gallons	0				
Water Temperature	74.4				
Water Temperature Units	F				
Water Use Restriction - Animal Water	N				
Water Use Restriction - Crop Irrigation	N				
Water Use Restriction - Drinking Water	N				
Water Use Restriction - Fish Consumption	N				
Water Use Restriction - None	N				
Water Use Restriction - Other Irrigation	N				
Water Use Restriction - Swimming	N				
White water lily (Nymphaea odorata)	SP				
Wind Direction	NW				
Wind Speed	5-15				
APM Chemical Permit Request	Chemical Permit Details		4/16/2018	4/30/2018	APPROVED

Details: Parameter	Value/Amount	Units	Comments		
Broad-leaved cattail (Typha latifolia)	N				
Business Location License	N/A				
CO - # days	10				
CO - 15 days	Y				
CO - Date Sent	4/30/2018				
CO-Date_Received	4/16/2018				
CONTROL_OTHER	Y				
CONTROL_OTHER_LIST	Aesthetics				
Category 5 Certification Number	N/A				

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Chemical Permit ID	6169		
Chemicals - Approved	N/A		
Comments	N/A		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	Y		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Nuisance algae	N		
Control - PL	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	N		
Entered in SharePoint	Y		
Estimated Acres	10		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	270		
Field - # days	Y		
Field Issued By	Craig_Helker		
Filamentous Algae	N		
Improvement - swimming	N		
Lake Surface Area			
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (Potamogeton amplifolius)	N		
Maintain navigational channel	Y		
Maintain private access - boating	Y		
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Next Steps	Craig Helker		
Other Plants	SSW		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
PLSS_DIRECTION	E		
PLSS_RANGE	20		
PLSS_SECTION	05		
PLSS_TOWNSHIP	04		
Payment Number	14828		
Permit County	Racine		
Permit End Year	2018		
Permit Latitude	42.830671		
Permit Longitude	-88.172274		
Permit PLSS Section	5-7 T4N R20E		
Permit Start Year	2018		
Permit WBIC	761100		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
SharePoint Submittal	N		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		
Sogo pondweed (Stuckenia pectinata)	N		
TREATMENT_AREA	Long Lake		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		
APM Chemical Treatment Record		7/22/2019	COMPLETE

Details: Parameter	Value/Amount	Units	Comments
Air Temperature	71		
Air Temperature Units	F		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
Filamentous Algae	SP		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Large Duckweed (Spirodela polyrhiza)	SP		

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

Details: Parameter	Value/Amount	Units	Comments
Muskgrasses (Chara)	SP		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry Stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2018		
Person Completing Form	Eric Rudzinski		
Treatment Date	06/06/2018		
Treatment End Time	2:00		
Treatment Start Time	1:30		
Water Temperature	69.7		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
Wind Direction	SW		
Wind Speed	10-15		

APM Chemical Treatment Record		7/22/2019		COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Air Temperature	75		
Air Temperature Units	F		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Curly-leaf pondweed (Potamogeton crispus)	SP		
Duration of Chemical Residualts	5 days		
Eurasian water-milfoil (Myriophyllum spicatum)	SP		
Filamentous Algae	SP		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Large Duckweed (Spirodela polyrhiza)	SP		
Muskgrasses (Chara)	SP		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Starry Stonewort		
Onsite Supervision	No		
Permit County	Racine		
Permit Year	2018		
Person Completing Form	Eric Rudzinski		
Treatment Date	06/25/2018		
Treatment End Time	6:05		
Treatment Start Time	4:53		
Water Temperature	73.5		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
Wind Direction	SE		
Wind Speed	10-15		

Monitoring Stations

Station ID	Name	Comments
10005277	Lake Kec-Nong-Ga-Mong	
10017726	Long Lake -- Kec-Nong-Ga-Mong Lake -- N End	

Assessment Units

WBIC	Segment	Local Name	Official Name
760700	1	Unnamed Stream	Unnamed
761100	1	Long Lake	Long Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Wisconsin Department of Natural Resources SWIMS Project Summary

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
7/6/2015	COMPLETE		10017726	Long Lake -- Kec-Nong-Ga-Mong Lake -- N End
7/15/2015 13:00	COMPLETE		10005277	Lake Kec-Nong-Ga-Mong

Documents

Title	Description	Author	Published	Comments
Long Lake Starry Stonewort Grant Summary	Long Lake is a 109-acre lake located within U.S. Public Land Survey Township 4 North, Range 20 East, Sections 5, 6, and 7, Town of Norway, in Racine County, Wisconsin. The Lake is a valuable natural resource offering a variety of recreational and related opportunities to the resident community and its visitors. In the summer of 2015, the recreational and aesthetic values of Long Lake were threatened by the discovery of Starry Stonewort (<i>Nitellopsis obtusa</i>) southeast of the boat launch by the WDNR. The Long Lake Protection District (LLPD) took immediate steps to assess its extent by applying for back to back Aquatic Invasive Species (AIS) Rapid Response Grants and contracting with Lake and Pond Solutions Co. This plan is prepared at the request of the LLPD and the WDNR to assist lake managers and regulatory agencies in directing future plant management activities.	Lake and Pond Solutions Co.	12/21/2017	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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