

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ACEI18116

Name: DEER LAKE IMPROVEMENT ASSOCIATION: Deer Lake Curly Leaf Pondweed Control

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Control

Status: COMPLETE

Start Date: 4/15/2016

End Date: 6/30/2019

Purpose: Deer Lake Improvement Association is sponsoring a 2-yr project to implement approved activities from the Deer Lake Aquatic Plant Management Plan.

Project deliverables include GIS data & maps of areas monitored, aquatic plant & turion monitoring reports, management/treatment summaries.

Specific project activities include: 1) Curly-leaf pondweed herbicide control; 2) Pre-post treatment aquatic plant monitoring; 3) Turion monitoring.

Special Conditions: 1) WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for aquatic plant monitoring; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) AIS monitoring and watercraft inspection personnel shall be trained and follow DNR approved protocols.

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 Lakes Biologist.

Objective:

Comments: Grantee is DEER LAKE IMPROVEMENT ASSOCIATION

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Deer Lake Improvement Associat	GRANT_RECIPIENT	ACTIVE	6/1/2016		Deer Lake Improvement Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	2/8/2016	10/1/2016	APPROVED

Details: Parameter	Value/Amount	Units	Comments
APM Plan	N		
APM Plan Agree	N		
Advance Notification	N		

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

Details: Parameter	Value/Amount	Units	Comments
Broad-leaved cattail (<i>Typha latifolia</i>)	N		
Business Location License	N/A		
CO - 15 days	Y		
CO – Date Sent	2/8/2016		
CO-Date_Received	2/8/2016		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	2387		
Chemicals - Approved	Aquathol K		
Common arrowhead (<i>Sagittaria latifolia</i>)	N		
Common reed (<i>Phragmites australis</i>)	N		
Common waterweed (<i>Elodea canadensis</i>)	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Nuisance algae	N		
Control - PL	N		
Control - Submerged water plants	Y		
Coontail (<i>Ceratophyllum demersum</i>)	N		
Curly-leaf pondweed (<i>Potamogeton crispus</i>)	Y		
Entered in SharePoint	N		
Estimated Acres	23.35		
Eurasian water-milfoil (<i>Myriophyllum spicatum</i>)	N		
Expiration Date	10/1/2016		
Fee	620		
Field - 15 days	N		
Field Issued By	Mark_Sundeen		
Filamentous Algae	N		
Improvement - swimming	N		
Lake Surface Area			
Large Duckweed (<i>Spirodela polyrhiza</i>)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (<i>Potamogeton amplifolius</i>)	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Maintain navigational channel	N				
Maintain private access - boating	N				
Maintain private access - fishing	N				
Muskgrasses (Chara)	N				
NUISANCE_CAUSED_OTHER	N				
Native Plants	N				
Next Steps	Sent to Mark				
Payment Number	1701				
Permit County	Polk				
Permit End Year	2016				
Permit Latitude	45.4084				
Permit Longitude	-92.5493				
Permit PLSS Section	25 35N18W				
Permit Start Year	2016				
Permit WBIC	2619400				
Permit Year	2016				
Pithophora	N				
Planktonic Algae	N				
Private Pond	N				
Purple loosestrife (Lythrum salicaria)	N				
Sensitive Area	N				
Softstem bulrush (Schoenoplectus tabernaemontani)	N				
Sogo pondweed (Stuckenia pectinata)	N				
TREATMENT_AREA	Deer Lake				
Treatment Date	N				
Treatment Date	N				
Treatment Record - Received	N				
Treatment Record - Scanned	N				
Waterbody Type	LAKE				
APM Chemical Permit Request	Chemical Permit Details		2/8/2016	10/1/2016	APPROVED
Details: Parameter	Value/Amount	Units	Comments		
APM Plan	N				
APM Plan Agree	N				
Advance Notification	N				
Broad-leaved cattail (Typha latifolia)	N				
Business Location License	N/A				
CO - 15 days	Y				

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
CO – Date Sent	2/8/2016		
CO-Date_Received	2/8/2016		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	2387		
Chemicals - Approved	Aquathol K		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
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)	Y		
Entered in SharePoint	N		
Estimated Acres	23.35		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Expiration Date	10/1/2016		
Fee	620		
Field - 15 days	N		
Field Issued By	Mark_Sundeen		
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	N		
Maintain private access - boating	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Maintain private access - fishing	N				
Muskgrasses (Chara)	N				
NUISANCE_CAUSED_OTHER	N				
Native Plants	N				
Next Steps	Sent to Mark				
Payment Number	1701				
Permit County	Polk				
Permit End Year	2016				
Permit Latitude	45.4084				
Permit Longitude	-92.5493				
Permit PLSS Section	25 35N18W				
Permit Start Year	2016				
Permit WBIC	2619400				
Permit Year	2016				
Pithophora	N				
Planktonic Algae	N				
Private Pond	N				
Purple loosestrife (Lythrum salicaria)	N				
Sensitive Area	N				
Softstem bulrush (Schoenoplectus tabernaemontani)	N				
Sogo pondweed (Stuckenia pectinata)	N				
TREATMENT_AREA	Deer Lake				
Treatment Date	N				
Treatment Date	N				
Treatment Record - Received	N				
Treatment Record - Scanned	N				
Waterbody Type	LAKE				
Grant Awarded	Grant ACEI18116 awarded		4/15/2016	6/30/2019	COMPLETE
APM Chemical Permit Request	Chemical Permit Details		3/14/2017	10/1/2017	APPROVED
Details: Parameter	Value/Amount	Units	Comments		
APM Plan	N				
APM Plan Agree	N				
Advance Notification	N				
Broad-leaved cattail (Typha latifolia)	N				
Business Location License	93-013996-011211				
CO - 15 days	N				
CO - Date Sent	3/14/2017				

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

Details: Parameter	Value/Amount	Units	Comments
CO-Date_Received	3/14/2017		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	4034		
Chemicals - Approved	Aquathol K		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
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)	Y		
Entered in SharePoint	N		
Estimated Acres	24		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Expiration Date	10/1/2017		
Fee	620		
Field - 15 days	N		
Field Issued By	Mark_Sundeen		
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	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		

**Wisconsin Department of Natural Resources
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Details: Parameter	Value/Amount	Units	Comments
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Next Steps	Mark		
Payment Number	2406		
Permit County	Polk		
Permit End Year	2017		
Permit Latitude	45.4084		
Permit Longitude	-92.5493		
Permit PLSS Section	25 35N18W		
Permit Start Year	2017		
Permit WBIC	2619400		
Permit Year	2017		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
Sensitive Area	N		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		
Sogo pondweed (Stuckenia pectinata)	N		
TREATMENT_AREA	Deer Lake		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

APM Chemical Permit Request	Chemical Permit Details	3/14/2017	10/1/2017	APPROVED
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Details: Parameter	Value/Amount	Units	Comments
APM Plan	N		
APM Plan Agree	N		
Advance Notification	N		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	93-013996-011211		
CO - 15 days	N		
CO - Date Sent	3/14/2017		
CO-Date_Received	3/14/2017		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Category 5 Certification Number	N/A		
Chemical Permit ID	4034		
Chemicals - Approved	Aquathol K		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
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)	Y		
Entered in SharePoint	N		
Estimated Acres	24		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Expiration Date	10/1/2017		
Fee	620		
Field - 15 days	N		
Field Issued By	Mark_Sundeen		
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	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Next Steps	Mark		
Payment Number	2406		
Permit County	Polk		
Permit End Year	2017		
Permit Latitude	45.4084		
Permit Longitude	-92.5493		
Permit PLSS Section	25 35N18W		
Permit Start Year	2017		
Permit WBIC	2619400		
Permit Year	2017		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
Sensitive Area	N		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		
Sogo pondweed (Stuckenia pectinata)	N		
TREATMENT_AREA	Deer Lake		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

APM Chemical Treatment Record	Chemical treatment details	5/5/2017	5/5/2017	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Air Temperature	55		
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		

**Wisconsin Department of Natural Resources
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Details: Parameter	Value/Amount	Units	Comments
Aquathol K Gallons	201		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	22.6		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
COONTAIL_SITE	A,E		
CURLY_LEAF_PONDWEED_ SITE	all		
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		
Curly-leaf pondweed (Potamogeton crispus)	TS		
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		

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

Details: Parameter	Value/Amount	Units	Comments
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
FLAMENTOUS_ALGAE_SITE	all		
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 Y Use Restriction Signs Posted in Accordance with NR 107?			
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	Polk		
Permit Year	2017		
Person Completing Form	Dale Dressel		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
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	5/5/2017				
Treatment End Time	10:00				
Treatment Start Time	7:00				
Tribune Acres	0				
Tribune Gallons	0				
Vectobac Acres	0				
Vectobac Gallons	0				
Water Temperature	51				
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 Speed	calm				
APM Chemical Permit Request	Chemical Permit Details	2/28/2018	2/28/2018	APPROVED	

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

Details: Parameter	Value/Amount	Units	Comments
Broad-leaved cattail (<i>Typha latifolia</i>)	N		
Business Location License	N/A		
CO - # days	0		
CO - 15 days	Y		
CO – Date Sent	2/28/2018		
CO-Date_Received	2/28/2018		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	5517		
Chemicals - Approved	Aquathol K		
Comments	N/A		
Common arrowhead (<i>Sagittaria latifolia</i>)	N		
Common reed (<i>Phragmites australis</i>)	N		
Common waterweed (<i>Elodea canadensis</i>)	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Nuisance algae	N		
Control - PL	N		
Control - Submerged water plants	Y		
Coontail (<i>Ceratophyllum demersum</i>)	N		
Curly-leaf pondweed (<i>Potamogeton crispus</i>)	Y		
Entered in SharePoint	Y		
Estimated Acres	24		
Eurasian water-milfoil (<i>Myriophyllum spicatum</i>)	N		
Fee	620		
Field - # days	Y		
Field Issued By	Mark_Sundeen		
Filamentous Algae	N		
Improvement - swimming	N		
Lake Surface Area			
Large Duckweed (<i>Spirodela polyrhiza</i>)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (<i>Potamogeton amplifolius</i>)	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Maintain navigational channel	N				
Maintain private access - boating	N				
Maintain private access - fishing	N				
Muskgrasses (Chara)	N				
NUISANCE_CAUSED_OTHER	N				
Native Plants	N				
Next Steps	Mark Sundeen				
Other Plants	CLP				
PLSS_DIRECTION	W				
PLSS_RANGE	18				
PLSS_SECTION	25				
PLSS_TOWNSHIP	35				
Payment Number	1834				
Permit County	Polk				
Permit End Year	2018				
Permit Latitude	45.4084				
Permit Longitude	-92.5493				
Permit PLSS Section	25 35N18W				
Permit Start Year	2018				
Permit WBIC	2619400				
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	Deer Lake				
Treatment Date	N				
Treatment Date	N				
Treatment Record - Received	N				
Treatment Record - Scanned	N				
Waterbody Type	LAKE				
APM Chemical Permit Request	Chemical Permit Details		2/28/2018	2/28/2018	APPROVED
Details: Parameter	Value/Amount	Units	Comments		
Broad-leaved cattail (Typha latifolia)	N				
Business Location License	N/A				

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
CO - # days	0		
CO - 15 days	Y		
CO – Date Sent	2/28/2018		
CO-Date_Received	2/28/2018		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	5517		
Chemicals - Approved	Aquathol K		
Comments	N/A		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
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)	Y		
Entered in SharePoint	Y		
Estimated Acres	24		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	620		
Field - # days	Y		
Field Issued By	Mark_Sundeen		
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	N		
Maintain private access - boating	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Next Steps	Mark Sundeen		
Other Plants	CLP		
PLSS_DIRECTION	W		
PLSS_RANGE	18		
PLSS_SECTION	25		
PLSS_TOWNSHIP	35		
Payment Number	1834		
Permit County	Polk		
Permit End Year	2018		
Permit Latitude	45.4084		
Permit Longitude	-92.5493		
Permit PLSS Section	25 35N18W		
Permit Start Year	2018		
Permit WBIC	2619400		
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	Deer Lake		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

APM Chemical Permit Request	Chemical permit details	2/21/2019	2/21/2019	APPROVED
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Details: Parameter	Value/Amount	Units	Comments
APM Plan	Y		
Algae	N		
Algimycin PWF Algaecide / Cyanobactericide	N		
Alternative - Drawdown	N		

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

Details: Parameter	Value/Amount	Units	Comments
Alternative - Dredging	N		
Alternative - Manual Removal	N		
Alternative - Mechanical Harvesting	N		
Alternative - Nutrient Controls	Y		
Alternative - Sediment Screens	N		
Aqua Star	N		
AquaPro Herbicide	N		
AquaShade Aquatic Plant Growth Control	N		
AquaStrike	N		
Aquaneat Aquatic Herbicide	N		
Aquashadow Black Pond Colorant	N		
Aquathol K Aquatic Herbicide	N		
Aquathol Super K Granular Aquatic Herbicide	N		
Avast! SC Aquatic Herbicide	N		
Business Location License	N/A		
CO - # days	1		
CO - Date Sent	02/21/2019		
CONTROL_INVASIVES	Y		
CONTROL_OTHER	N		
Captain Liquid Copper Algaecide	N		
Captain XTR Liquid Copper Algaecide	N		
Category 5 Certification Number	61742		
Chemical Permit ID	0		
Chemicals - Approved	Aquathol K		
Chemicals Permitted Previous Year	All		
Chinook	N		
Clearcast (general)	N		
Clearigate	N		
Clipper Herbicide	N		
Clipper SC Aquatic Herbicide	N		
Comments	MISSING - Large-Scale Treatment Worksheet, Form 3200-004A		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Common/Glossy Buckthorn	N		

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

Details: Parameter	Value/Amount	Units	Comments
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	Y		
Current	N		
Cutrine-Plus Algaecide and Herbicide	N		
Cutrine-Plus Granular Algaecide	N		
Cutrine-Ultra Algaecide / Herbicide / cyanobactericide	N		
DMA 4 IVM Herbicide	N		
Earthtec Algaecide / Bactericide	N		
Element 3A Herbicide	N		
Estimated Acres	20		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	520		
Field - Date Issued	03/12/2019		
Field - Date Received	02/21/2019		
Field Issued By	Mark_Sundeen		
Flowering Rush	N		
Flumioxazin 51% WDG - NonCrop	N		
Formula F-30 Algae Control	N		
Garlon 3A Herbicide	N		
Green Clean (general)	N		
Habitat (general)	N		
Harpoon (general)	N		
Harvester Landscape and Aquatic Herbicide	N		
Havoc Amine	N		
Hybrid Cattail	N		
Hybrid Watermilfoil	N		
Hydrothol 191 Aquatic Algicide and Herbicide	N		
Hydrothol Granular Aquatic Algaecide and Herbicide	N		
Improvement - swimming	N		

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

Details: Parameter	Value/Amount	Units	Comments
Japanese Knotweed	N		
K-Tea Aquatic Algaecide	N		
Komeen Aquatic Herbicide	N		
Komeen Crystal Aquatic Herbicide	N		
Lake Surface Area	812		
Large Duckweed (Spirodela polyrhiza)	N		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	Subsurface application using weighted drop lines from a metered pump on a gps guided boat		
Milestone Herbicide	N		
More than 1 Property Owner	Y		
NUISANCE_CAUSED_OTHER	N		
Naiad	N		
Narrow-Leaf Cattail	N		
Nautique Aquatic Herbicide	N		
Navigate	N		
Navitrol DPF Aquatic Herbicide	N		
Navitrol Landscape and Aquatic Herbicide	N		
Nutri-Sorb	N		
Orb-3 (general)	N		
Overflow Controlled	N		
PLSS_DIRECTION	W		
PLSS_RANGE	18		
PLSS_SECTION	25		
PLSS_TOWNSHIP	35		
Payment Number	1873		
Permit County	Polk		
Permit End Year	2019		
Permit Latitude	45.4084000		
Permit Longitude	-92.5493000		
Permit PLSS Section	25 T35N R18W		
Permit Start Year	2019		
Permit WBIC	2619400		
Phycomycin SCP Algaecide and Oxidizer	N		
Polaris	N		

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

Details: Parameter	Value/Amount	Units	Comments
Polaris AC	N		
Pond-Klear	N		
Pondweeds	N		
Private Pond	N		
ProcellaCOR EC	N		
Purple loosestrife (Lythrum salicaria)	N		
Reed Canary Grass	N		
Reed Manna Grass	N		
Refuge Herbicide	N		
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	N		
Rodeo Herbicide	N		
Roundup Custom for Aquatic & Terrestrial Use	N		
SCI-62 Algicide / Bactericide	N		
Sculpin G Aquatic Herbicide	N		
SeClear (general)	N		
SeClear G Algaecide and Water Quality Enhancer	N		
Sensitive Area	Y		
SharePoint_Number	AP-IP-NO-2019-49-2033		
Shoreklear-Plus Aquatic Herbicide	N		
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	N		
Stingray Aquatic Herbicide	N		

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

Details: Parameter	Value/Amount	Units	Comments
Surface Water Discharge	Y		
Symmetry NXG	N		
TREATMENT_AREA	Deer Lake		
Touchdown Pro	N		
Treatment Area Greater Than 5%	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	61742		
Yellow Floating Heart	N		
Yellow Iris	N		

APM Chemical Permit Request	Chemical permit details	2/21/2019	2/21/2019	APPROVED
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Details: Parameter	Value/Amount	Units	Comments
APM Plan	Y		
Algae	N		
Algimycin PWF Algaecide / Cyanobactericide	N		
Alternative - Drawdown	N		
Alternative - Dredging	N		
Alternative - Manual Removal	N		
Alternative - Mechanical Harvesting	N		
Alternative - Nutrient Controls	Y		
Alternative - Sediment Screens	N		
Aqua Star	N		
AquaPro Herbicide	N		
AquaShade Aquatic Plant Growth Control	N		
AquaStrike	N		
Aquaneat Aquatic Herbicide	N		
Aquashadow Black Pond Colorant	N		
Aquathol K Aquatic Herbicide	N		
Aquathol Super K Granular Aquatic Herbicide	N		
Avast! SC Aquatic Herbicide	N		
Business Location License	N/A		
CO - # days	1		

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

Details: Parameter	Value/Amount	Units	Comments
CO – Date Sent	02/21/2019		
CONTROL_INVASIVES	Y		
CONTROL_OTHER	N		
Captain Liquid Copper Algaecide	N		
Captain XTR Liquid Copper Algaecide	N		
Category 5 Certification Number	61742		
Chemical Permit ID	0		
Chemicals - Approved	Aquathol K		
Chemicals Permitted Previous Year	All		
Chinook	N		
Clearcast (general)	N		
Clearigate	N		
Clipper Herbicide	N		
Clipper SC Aquatic Herbicide	N		
Comments	MISSING - Large-Scale Treatment Worksheet, Form 3200-004A		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Common/Glossy Buckthorn	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	Y		
Current	N		
Citrine-Plus Algaecide and Herbicide	N		
Citrine-Plus Granular Algaecide	N		
Citrine-Ultra Algaecide / Herbicide / cyanobactericide	N		
DMA 4 IVM Herbicide	N		
Earthtec Algaecide / Bactericide	N		
Element 3A Herbicide	N		
Estimated Acres	20		

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

Details: Parameter	Value/Amount	Units	Comments
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	520		
Field - Date Issued	03/12/2019		
Field - Date Received	02/21/2019		
Field Issued By	Mark_Sundeen		
Flowering Rush	N		
Flumioxazin 51% WDG - NonCrop	N		
Formula F-30 Algae Control	N		
Garlon 3A Herbicide	N		
Green Clean (general)	N		
Habitat (general)	N		
Harpoon (general)	N		
Harvester Landscape and Aquatic Herbicide	N		
Havoc Amine	N		
Hybrid Cattail	N		
Hybrid Watermilfoil	N		
Hydrothol 191 Aquatic Algicide and Herbicide	N		
Hydrothol Granular Aquatic Algaecide and Herbicide	N		
Improvement - swimming	N		
Japanese Knotweed	N		
K-Tea Aquatic Algaecide	N		
Komeen Aquatic Herbicide	N		
Komeen Crystal Aquatic Herbicide	N		
Lake Surface Area	812		
Large Duckweed (Spirodela polyrhiza)	N		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	Subsurface application using weighted drop lines from a metered pump on a gps guided boat		
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	N		
Navitrol DPF Aquatic Herbicide	N		
Navitrol Landscape and Aquatic Herbicide	N		
Nutri-Sorb	N		
Orb-3 (general)	N		
Overflow Controlled	N		
PLSS_DIRECTION	W		
PLSS_RANGE	18		
PLSS_SECTION	25		
PLSS_TOWNSHIP	35		
Payment Number	1873		
Permit County	Polk		
Permit End Year	2019		
Permit Latitude	45.4084000		
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Permit PLSS Section	25 T35N R18W		
Permit Start Year	2019		
Permit WBIC	2619400		
Phycomycin SCP Algaecide and Oxidizer	N		
Polaris	N		
Polaris AC	N		
Pond-Klear	N		
Pondweeds	N		
Private Pond	N		
ProcellaCOR EC	N		
Purple loosestrife (Lythrum salicaria)	N		
Reed Canary Grass	N		
Reed Manna Grass	N		
Refuge Herbicide	N		
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	N		

8/28/2024

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

Details: Parameter	Value/Amount	Units	Comments
Rodeo Herbicide	N		
Roundup Custom for Aquatic & Terrestrial Use	N		
SCI-62 Algicide / Bactericide	N		
Sculpin G Aquatic Herbicide	N		
SeClear (general)	N		
SeClear G Algaecide and Water Quality Enhancer	N		
Sensitive Area	Y		
SharePoint_Number	AP-IP-NO-2019-49-2033		
Shoreklear-Plus Aquatic Herbicide	N		
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	N		
Stingray Aquatic Herbicide	N		
Surface Water Discharge	Y		
Symmetry NXG	N		
TREATMENT_AREA	Deer Lake		
Touchdown Pro	N		
Treatment Area Greater Than 5%	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	61742		
Yellow Floating Heart	N		
Yellow Iris	N		
APM Chemical Treatment Record		6/28/2019	COMPLETE

8/28/2024

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Air Temperature	65		
Air Temperature Units	F		
COONTAIL_SITE	abcd		
CURLY_LEAF_PONDWEED_SITE	all		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Curly-leaf pondweed (Potamogeton crispus)	TS		
Did Treatments Occur	Y		
Duration of Chemical Residualts	24 hours		
FLAMENTOUS_ALGAE_SITE	all		
Filamentous Algae	SP		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Permit County	Polk		
Permit Year	2018		
Person Completing Form	Dale Dressel		
Treatment Date	05/21/2018		
Treatment End Time	12:00		
Treatment Start Time	9:00		
WHITE_WATER_LILY_SITE	abcd		
Water Temperature	58.2		
Water Temperature Units	F		
Wind Direction	E		
Wind Speed	0-4		

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
2619400	1	Deer Lake	Deer Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Wisconsin Department of Natural Resources SWIMS Project Summary

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
Herbicide Treatment Analysis for Potamogeton crispus 2016	<p>On April 29, 2016 22.6 acres of Potamogeton crispus-curly leaf pondweed (CLP) were treated with endothall(broad spectrum herbicide) to reduce the frequency and density of the CLP within 5 different beds. An April 21, 2016 pretreatment survey revealed CLP present in 47.5% of the sample points within the delineated beds. A June 10, 2016 post treatment survey revealed a frequency of 13.7% of the same sample points within the delineated beds. The treatment resulted in a frequency reduction of 71.2%. This reduction was statistically significant ($P=9.5 \times 10^{-10}$). Comparing the pretreatment survey results in 2015 to the pretreatment survey results in 2016, a slight increase in CLP frequency of occurrence in the five beds occurred. The frequency of occurrence after treatment (post treatment survey) in 2015 compared to 2016 showed an increase from 2.1% to 13.7%. The mean density increased from 0.03 in 2015 to 0.2 in 2016 (scale of 0-3). There was a statistically significant reduction (chi-square analysis) in two native species and a statistically significant increase in two other native species from 2015 to 2016. The turion analysis showed an increase in turion density in three of the five treatment beds. Some increase is likely due to increased CLP growth after treatment. It also demonstrates that CLP growth will likely be returning with fairly high density in these beds in 2017.</p>	Ecological Integrity Service	10/1/2016	

Wisconsin Department of Natural Resources SWIMS Project Summary

<p>Herbicide Treatment Analysis for Potamogeton crispus 2017</p>	<p>On May 5, 2017 22.6 acres of Potamogeton crispus-curly leaf pondweed (CLP) were treated with endothall(broad spectrum herbicide) to reduce the frequency and density of the CLP within 5 different beds. The treatment resulted in a significant reduction (based upon chi-square analysis) comparing the frequency of occurrence before treatment from April 2017 to after treatment surveyed June 2017. There was also a significant reduction comparing the post treatment survey frequency in 2016 to the post treatment frequency in 2017. There was a slight reduction (not significant) from the 2016 to 2017 in pretreatment frequency. There was a significant reduction in three native species and an increase in one species. Only 0.04 acres of CLP were observed outside of the treatment areas in the entire lake. The turion analysis resulted in a mean turion density decrease in all beds from 84.7 turions/m2 in 2016 to 41.7 turions/m2 in 2017.</p>	<p>Ecological Integrity Service</p>	<p>10/1/2017</p>	
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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