General Project Information

Project ID: AIRR19516

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

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Early Detection and Response

Status: COMPLETE

Start Date: 7/20/2015 **End Date:** 12/31/2016

Purpose: The Long Lake Protection District, in partnership with a consultant and the Wisconsin Department of Natural Resources, will

undertake a rapid response project on Long Lake to control and prevent the spread of Starry Stonewort, listed in NR 40 as a prohibited species. The project will include hand pulling, a point intercept plant survey, mapping of Starry Stonewort beds and experimental chemical treatments. The project deliverable will be a report containing the results of the P/I survey (raw data, distribution/density maps of Starry Stonewort, EWM, CLP and the top 7 native plants in terms of frequency of

occurrence), a map denoting the hand pulled areas, results of the chemical treatments, results of the snorkeling survey and a

description of public outreach efforts.

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_BIOLOGI ST	ACTIVE	8/19/2019		Wisconsin DNR		
KRETLOW, AMY L	TEAM_MEMBER	ACTIVE	8/19/2019		Wisconsin DNR		
Long Lake Protection District,	GRANT_RECIPI ENT	ACTIVE	6/8/2016		Long Lake Protection District		

Project Statuses

Date	Reported By	Status	Comments

Actions				
Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AIRR19516 awarded	7/20/2015	12/31/2015	COMPLETE
APM Chemical Permit Request	Chemical Permit Details	3/28/2016	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)	Υ		

Details:	Parameter	Value/Amount	Units	Comments
	Business Location License	N/A		
	CO - # days	2		
	CO - 15 days	Υ		
	CO – Date Sent	3/30/2016		
	CO-Date_Received	3/28/2016		
	CONTROL_INVASIVES	N		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemical Permit ID	2825		
	Chemicals - Approved	Earthtec,Algae Defense, Algimycin, Captain/XTR, Cleargate, Cutrine+/Ultra, F30,Green Clean,Komeen,Phycomycin,Kte a,SeClear/G,Aquastrike,Aquath olk/SuperK,Avast,DMA4,Habitat, Hydrothol,Navigate,Navitrol,Rew ard,SculpinG,Sonar,Stingray,We edestroyAm40,Aquaneat,R		
	Common arrowhead (Sagittaria latifolia)	N		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Control - Algae	Υ		
	Control - Emergent water plants	Υ		
	Control - Floating water plants	Υ		
	Control - Nuissance algae	N		
	Control - PL	N		
	Control - Submerged water plants	Υ		
	Coontail (Ceratophyllum demersum)	N		
	Curly-leaf pondweed (Potamogeton crispus)	Υ		
	Entered in SharePoint	N		
	Estimated Acres	109.19		
	Eurasian water-milfoil (Myriophyllum spicatum)	Υ		
	Expiration Date	10/1/2016		
	Fee	1270		
	Field - 15 days	N		
	Field Issued By	Craig_Helker		
	Filamentous Algae	N		
	Improvement - swimming	N		

Details:	Parameter	Value/Amount	Units	Co	mments	
	Lake Surface Area					
	Large Duckweed (Spirodela polyrhiza)	N				
	Large Scale Treatment Form	N				
	Large-leaf pondweed (Potamogeton amplifolius)	N				
	Maintain - Other Text	Starry Stonewort				
	Maintain navigational channe	el Y				
	Maintain private access - boating	Y				
	Maintain private access - fishing	Υ				
	Muskgrasses (Chara)	N				
	NUISANCE_CAUSED_OTH	ER Y				
	Native Plants	N				
	Next Steps	Sent to Craig				
	Payment Number	13717				
	Permit County	Racine				
	Permit End Year	2016				
	Permit Latitude	42.830671				
	Permit Longitude	-88.172274				
	Permit PLSS Section	7 04N20E				
	Permit Start Year	2016				
	Permit WBIC	761100				
	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	Long Lake				
	Treatment Date	N				
	Treatment Date	N				
	Treatment Record - Receive	d N				
	Treatment Record - Scanned	i N				
	Waterbody Type	LAKE				
M Chemica	I Treatment Record	Chemical treatment details		5/4/2016	5/4/2016	COMPLETE

Air Temperature Units F Aqua-Pro Acres 0 Aqua-Pro Gallons 0 Aqua-Pro Gallons 0 Aquanet Acres 0 Aquanet Acres 0 Aquanet Acres 0 Aquashade Acres 0 Aquashade Pounds 0 Aquastar Gallons 0 Aquastar Acres 0 Aquastar Acres 0 Aquathol Acres 0 Aquathol Kacres 0 Aquathol Kacres 0 Aquathol Kacres 0 Aquathol Kacres 0 Aquathol Kyacres 0 Aquathol Kyacres 0 Aquathol Kyacres 0 Aquathol Acres 0 Avast Acres 0 Avast Acres 0 Avast Acres 0 Captain XTR, # Callons 0 Clearcast Acres 0 Clearcast Gallons 0 Common waterweed (Elodea canadensis) Contini Comments SP Control Comments SP Control Comments SP Copper Liquid, # Acres 0 Cutrine Acres 0	Details:	Parameter	Value/Amount	Units	Comments
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(Potamogeton crispus) Cutrine Acres 0		Copper Pounds	0		
		Curly-leaf pondweed (Potamogeton crispus)	TS		
Cutrine Liquid Acres 0		Cutrine Acres	0		
		Cutrine Liquid Acres	0		

Details:	Parameter	Value/Amount	Units	Comments
	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)	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		
	Illinois pondweed (Potamogeton illinoensis)	SP		

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	SP		
	OTHER_Aquatics_Desc	Watermeal		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2016		
	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		
	Sonor AS Acres	0		
	Touchdown Pro Acres	0		
	Touchdown Pro Gallons	0		
	Treatment Date	5/4/2016		
	Treatment End Time	1:05		

Details:	Parameter	Value/Amount	Units	Comments	
	Treatment Start Time	8:37			
	Tribune Acres	0			
	Tribune Gallons	0			
	Vectobac Acres	0			
	Vectobac Gallons	0			
	Water Temperature	53.4			
	Water Temperature Units	F			
	Water Use Restriction - Anima Water	ıl 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)	TS			
	Wind Direction	N			
	Wind Speed	15			
APM Chemica	al Treatment Record Ch	nemical treatment details	6/16	6/2016 6/16/2016	COMPLETE
Details:	Parameter	Value/Amount	Units	Comments	·
	Air Temperature	64			
	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, # Acres Aquathol Super K, # Pounds	0			
	· · · · · · · · · · · · · · · · · · ·				

Details:	Parameter	Value/Amount	Units	Comments
	Avast Acres	0		
	Avast Gallons	0		
	Broad-leaved cattail (Typha latifolia)	SP		
	Captain XTR, # Acres	1.02		
	Captain XTR, # Gallons	10		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	Υ		
	Coontail (Ceratophyllum demersum)	SP		
	Copper Acres	0		
	Copper Liquid, # Acres	0		
	Copper Liquid, # Gallons	0		
	Copper Pounds	0		
	Curly-leaf pondweed (Potamogeton crispus)	SP		
	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		

Details:	Parameter	Value/Amount	Units	Comments
	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		
	Name_supervisor	S. Van Egeren & J. Skogerboe		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry stonewort		
	Onsite Supervision	Yes		
	Permit County	Racine		
	Permit Year	2016		
	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		

Details:	Parameter	Value/Amount	Units	Cor	nments	
	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				
	Sonor AS Acres	0				
	Touchdown Pro Acres	0				
	Touchdown Pro Gallons	0				
	Treatment Date	6/16/2016				
	Treatment End Time	9:36				
	Treatment Start Time	9:08				
	Tribune Acres	0				
	Tribune Gallons	0				
	Vectobac Acres	0				
	Vectobac Gallons	0				
	Water Temperature	72.4				
	Water Temperature Units	F				
	Water Use Restriction - Anim	al N				
	Water Use Restriction - Crop Irrigation	N				
	Water Use Restriction - Drinking Water	N				
	Water Use Restriction - Fish Consumption	N				
	Water Use Restriction - None	e N				
	Water Use Restriction - Othe Irrigation	r N				
	Water Use Restriction - Swimming	N				
	White water lily (Nymphaea odorata)	SP				
	Wind Direction	W/NW				
	Wind Speed	7-14				
M Chemica	I Treatment Record	Chemical treatment details		6/29/2016	6/29/2016	COMPLETE

Details:	Parameter	Value/Amount	Units	Comments
	Air Temperature	78		
	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		
	Broad-leaved cattail (Typha latifolia)	SP		
	Captain XTR, # Acres	0		
	Captain XTR, # Gallons	0		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	Υ		
	Coontail (Ceratophyllum demersum)	SP		
	Copper Acres	4.71		
	Copper Liquid, # Acres	4.71		
	Copper Liquid, # Gallons	42.75		
	Copper Pounds	34.5		
	Curly-leaf pondweed (Potamogeton crispus)	SP		
	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 Pounds 0 Cutrine Pounds 0 Cutrine Pounds 0 Cutrine Ultra Acres 0 Cutrine Ultra Acres 0 Cutrine Ultra Gallons 0 DMA 4 IVM Acres 0 DMA 4 IVM Gallons 0 Diquat Acres 0 Diquat Acres 0 Diquat Liquid Acres 0 Diquat Liquid Acres 0 Diquat Pounds 0 Endotholl Liquid Acres 0 Endotholl Liquid Acres 0 Endotholl Liquid Acres 0 Endotholl Liquid Gallons 0 Endotholl Acres 0 Endotholl Pounds 0 Endotholl Acres 0 Endotholl Pounds 0 Eurasian water-miltiol (Myriophyllum spicatum) Filamentous Algae SP Floridone Acres 0 Glyphosate Acres 0 Green Clean Acres 0 Green Clean Gallons 0 Habitat Gallons 0 Habitat Callons 0 Habitat Callons 0 Harvester Acres 0 Harvester Acres 0 Harvester Acres 0 Harvester Acres 0 Harvester Gallons 0 Harvester Acres 0 Harvester Gallons 0 Herbicido Treatment and YArar Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Acres 0 Illinois pondweed SP (Potamogeton illinoensis) Illinois pondweed SP (Potamogeton illinoensis)	Details:	Parameter	Value/Amount	Units	Comments
Cutrine Ultra Acres 0 Cutrine Ultra Acres 0 DMA 4 IVM Acres 0 DMA 4 IVM Gallons 0 Diquat Acres 0 Diquat Callons 0 Diquat Edulors 0 Diquat Pounds 0 Endotholl Acres 0 Endotholl Liquid Acres 0 Endotholl Liquid Gallons 0 Endotholl Pounds 0 Endotholl Pounds 0 Eurasian water-milloll (Myriophyllum spicatum) SP Filamentous Algae SP Filoridone Acres 0 Glyphosate Acres 0 Glyphosate Gallons 0 Glyphosate Dunds 0 Glyphosate Liquid Acres 0 Glyphosate Dunds 0 Glyphosate Clean Acres 0 Glyphosate Dunds 0 Green Clean Acres 0 Green Clean Gallons 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Acres		Cutrine Plus Liquid Gallons	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 Liquid Acres 0 Endotholl Liquid Gallons 0 Endotholl Pounds 0 Endotholl Pounds 0 Eurasian water-milfoll (Myriophyllum spicatum) SP Filoridone Acres 0 Floridone Acres 0 Floridone Acres 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Pounds 0 Green Clean Acres 0 Green Clean Gallons 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Gallons 0 Harvester Gallons		Cutrine Plus Pounds	0		
Cutrine Ultra Gallons 0 DMA 4 NM Acres 0 DMA 4 NM Gallons 0 Diquat Acres 0 Diquat Gallons 0 Diquat Liquid Acres 0 Diquat Pounds 0 Endotholl Acres 0 Endotholl Liquid Gallons 0 Endotholl Pounds 0 Endotholl Pounds 0 Endotholl Pounds 0 Eurasian water-milfoil (Myriophyllum spicatum) SP Filoridone Acres 0 Floridone Acres 0 Floridone Acres 0 Floridone Gallons 0 Glyphosate Acres 0 Glyphosate Gallons 0 Glyphosate Pounds 0 Green Clean Acres 0 H2O2 Acres 0 H2O2 Acres 0 Habitat Acres 0 Habitat Acres 0 Harryester Acres 0 Harryester Gallons 0 Harryester Gallons 0		Cutrine Pounds	0		
DMA 4 IVM Acres 0 DMA 4 IVM Gallons 0 Diquat Acres 0 Diquat Lajuid Acres 0 Diquat Pounds 0 Endotholl Acres 0 Endotholl Liquid Acres 0 Endotholl Liquid Gallons 0 Endotholl Liquid Gallons 0 Endotholl Pounds 0 Endotholl Pounds 0 Eurasian water-milfoil (Myriophyllum spicatum) SP Filamentous Algae SP Floridone Acres 0 Glyphosate Acres 0 Glyphosate Acres 0 Glyphosate Liquid Acres 0 Glyphosate Pounds 0 Green Clean Acres 0 Green Clean Acres 0 Green Clean Acres 0 H2O2 Acres 0 Habitat Callons 0 Habitat Callons 0 Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR Y		Cutrine Ultra Acres	0		
DMA 4 IVM Gallons Diquat Acres Diquat Liquid Acres Diquat Liquid Acres Diquat Liquid Acres Diquat Pounds Endotholl Liquid Gallons Endotholl Liquid Gallons Endotholl Liquid Gallons Endotholl Liquid Gallons Endotholl Pounds Diquat Pounds Endotholl Pounds Endotholl Pounds Diquat Pounds Endotholl Liquid Gallons Endotholl Pounds Diquater-milloil (Myriophyllum spicatum) Filamentous Algae SP Floridone Acres Diquid Gallons Diquid Cares Di		Cutrine Ultra Gallons	0		
Diquat Acres 0		DMA 4 IVM Acres	0		
Diquat Cludid Acres 0 Diquat Pounds 0 Endotholl Acres 0 Endotholl Liquid Acres 0 Endotholl Liquid Gallons 0 Endotholl Liquid Gallons 0 Endotholl Liquid Gallons 0 Endotholl Liquid Sallons 0 Endotholl Liquid Sallons 0 Endotholl Liquid Gallons 0 Eurasian water-milloil (Myriophyllum spicatum) Filamentous Algae SP Floridone Acres 0 Floridone Acres 0 Floridone Acres 0 Glyphosate Acres 0 Glyphosate Pounds 0 Glyphosate Pounds 0 Green Clean Acres 0 Glyphosate Pounds 0 Green Clean Acres 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Acres 0 Harvester Acres 0 Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis)		DMA 4 IVM Gallons	0		
Diquat Liquid Acres 0 Diquat Pounds 0 Endotholl Liquid Acres 0 Endotholl Liquid Gallons 0 Endotholl Liquid Gallons 0 Endotholl Pounds 0 Eurasian water-milfoll (Myriophyllum spicatum) SP Filamentous Algae SP Floridone Acres 0 Floridone Acres 0 Glyphosate Acres 0 Glyphosate Acres 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Gyphosate Liquid Acres 0 Green Clean Acres 0 Green Clean Acres 0 H2O2 Acres 0 H2O2 Acres 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Y Posted in Accordance with NR 107? Y Hydrothol Acres		Diquat Acres	0		
Diquat Pounds 0		Diquat Gallons	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 Callons 0 Glyphosate Liquid Acres 0 Glyphosate Pounds 0 Green Clean Gallons 0 Green Clean Gallons 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Callons 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 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) SP		Diquat 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 Callons 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 Harvester Gallons 0 Harvester Gallons on the Accordance with NR 107? Y Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) SP		Diquat Pounds	0		
Endotholl Liquid Gallons 0 Endotholl Pounds 0 Eurasian water-milfoll (Myriophyllum spicatum) Filamentous Algae SP Floridone Acres 0 Floridone Gallons 0 Glyphosate Acres 0 Glyphosate Callons 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Pounds 0 Green Clean Acres 0 Green Clean Acres 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Gleans 1 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Endotholl Acres	0		
Endotholl Pounds 0 Eurasian water-milfoil (Myriophyllum spicatum) Filamentous Algae SP Floridone Acres 0 Floridone Gallons 0 Glyphosate Acres 0 Glyphosate Edilons 0 Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Glyphosate Pounds 0 Green Clean Acres 0 Green Clean Acres 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Acres 0 Habitat Acres 0 Habitat Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Acres 4.71 Hydrothol Gallons 3 Euraphyr Acres 0 Imazapyr Acres 0		Endotholl Liquid Acres	0		
Eurasian water-milfoil (Myriophyllum spicatum) 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 Acres 0 H202 Acres 0 H202 Pounds 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Acres 0 Harvester Gallons 0 Harvester Acres 1 Harvester Acres 0 Harvester Acres 3 Harvester Acres 4 Harvester Acres 5 Harvester Acres 5 Harvester Acres 6 Harvester Acres 5 Harvester Acres 6 Harvester Acres 7 Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Endotholl Liquid Gallons	0		
Myriophyllum spicatum) Filamentous Algae SP Floridone Acres 0 Floridone Gallons 0 Glyphosate Acres 0 Glyphosate Edallons 0 Glyphosate Edallons 0 Glyphosate Pounds 0 Green Clean Acres 0 Green Clean Acres 0 Green Clean Gallons 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Gallons 0 Habitat Gallons 0 Harvester Acres 0 Harvester Acres 0 Harvester Gallons 0 Harvester Acres 0 Harvester Acres 0 Hydrothol Acres 4.71 Hydrothol Gallons SP Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 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 Acres 0 Green Clean Gallons 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Acres 0 Habitat Acres 0 Harvester Acres 0 Harvester Gallons 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0			SP		
Floridone Gallons 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 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Filamentous Algae	SP		
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 Acres 0 Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Floridone Acres	0		
Glyphosate Liquid Acres 0 Glyphosate Liquid Acres 0 Green Clean Acres 0 Green Clean Acres 0 Green Clean Gallons 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Acres 0 Harvester Acres 4 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 5P (Potamogeton illinoensis) Imazapyr Acres 0		Floridone 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? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Glyphosate Acres	0		
Glyphosate Pounds 0 Green Clean Acres 0 Green Clean Gallons 0 H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Acres 0 Harvester Acres 1 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Glyphosate Gallons	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 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) SP Imazapyr Acres 0		Glyphosate Liquid 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? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Glyphosate Pounds	0		
H2O2 Acres 0 H2O2 Pounds 0 Habitat Acres 0 Habitat Gallons 0 Harvester Acres 0 Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Green Clean 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? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Green Clean Gallons	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? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		H2O2 Acres	0		
Habitat Gallons 0 Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		H2O2 Pounds	0		
Harvester Acres 0 Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Habitat Acres	0		
Harvester Gallons 0 Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Habitat Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Harvester Acres	0		
Water Use Restriction Signs Posted in Accordance with NR 107? Hydrothol Acres 4.71 Hydrothol Gallons 4.25 Illinois pondweed (Potamogeton illinoensis) Imazapyr Acres 0		Harvester Gallons	0		
Hydrothol Gallons 4.25 Illinois pondweed SP (Potamogeton illinoensis) Imazapyr Acres 0		Water Use Restriction Signs Posted in Accordance with NR	Y		
Illinois pondweed SP (Potamogeton illinoensis) Imazapyr Acres 0		Hydrothol Acres	4.71		
(Potamogeton illinoensis) Imazapyr Acres 0		Hydrothol Gallons	4.25		
Imazapyr Acres 0		Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Gallons 0		· · · · · · · · · · · · · · · · · · ·	0		
		Imazapyr Gallons	0		

Details:	Parameter	Value/Amount	Units	Comments
	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	2016		
	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	1.41		
	Reward Liquid Acres	4.71		
	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	6/29/2016		
	Treatment End Time	15:34		
	Treatment Start Time	10:30		

Details:	Parameter	Value/Amount	Units	Comments
	Tribune Acres	0		
	Tribune Gallons	0		
	Vectobac Acres	0		
	Vectobac Gallons	0		
	Water Temperature	75.6-83.6		
	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	N/SW		
	Wind Speed	3-7		

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	S	Start Date	End Date
Forms				

Form Code	Form Name	
Methods		
Method Code	Method Description	

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

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 (Nitellopsis obtusa) southeast of the boat launch by the WDNR. The Long Lake Protection District (LLPD) took immediate steps to assess its extent by applying for an Aquatic Invasive Species (AIS) Rapid Response Grant 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.		1/12/2017			

Budget

Combined Budgets: Combined WSLH:

Combined Total: \$0.00

Funding					
Organization	Source	Туре	Amount	Start Date	End Date