

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** AIRR19716

**Name:** WHITE RIVER LAKE MANAGEMENT DISTRICT: White River Flowage Flowering Rush Rapid Response

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Early Detection and Response

**Status:** COMPLETE

**Start Date:** 9/1/2015

**End Date:** 12/31/2017

**Purpose:** The White River Flowage Lake Management District is sponsoring an Early Detection & Response project to control flowering rush on the White River Flowage (WBIC 151500).  
 Project final deliverables include: Annual and Final Reports with all data collected, agendas and minutes for planning meetings, control methodologies, results, and future management alternatives  
 Specific project activities include: 1) Survey flowage for flowering rush (FR); 2) GPS all areas where FR is found; 3) Organize volunteers; 4) Conduct hand-pulling activities; 5) Conduct post control monitoring; 6) Provide regular updates to DNR Lake Coordinator;  
 Special Conditions: 1) All data shall be entered into the SWIMS database  
 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.

Amendment: Herbicide treatment for the control of Flowering Rush is added to the grant. All treatment programs and strategies for removal and control of Flowering Rush shall be approved by the DNR Lake Coordinator. Additionally, all reporting shall include a discussion of herbicide treatment as one of the control activities employed under this grant.

**Objective:****Comments:** Grantee is WHITE RIVER LAKE MANAGEMENT DISTRICT**Outcome:****Study Design:****QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Johnson, Theodore M	LAKE_BIOLOGIST	ACTIVE	8/19/2019		Wisconsin DNR	
Thorstenson, Amy	TEAM_MEMBER	ACTIVE	11/16/2015		Golden Sands Resource Conservation & Development Council, Inc.	
White River Lake District,	GRANT_RECIPIENT	ACTIVE	6/8/2016		White River Lake District	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

**Wisconsin Department of Natural Resources  
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Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AIRR19716 awarded	9/1/2015	12/31/2017	COMPLETE
APM Chemical Permit Request	Chemical Permit Details	11/20/2015	12/22/2015	APPROVED

Details: Parameter	Value/Amount	Units	Comments
APM Plan	N		
APM Plan Agree	N		
Advance Notification	Y		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	3		
CO - 15 days	Y		
CO - Date Sent	11/23/2015		
CO-Date_Received	11/20/2015		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	2342		
Chemicals - Approved	Aquathol Super K for CLP, Navigate 2,4 D for EWM		
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	9.9		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Expiration Date	10/1/2016		
Fee	270		
Field - 15 days	N		

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Details: Parameter	Value/Amount	Units	Comments
Field Issued By	Eric_Evensen		
Filamentous Algae	N		
Improvement - swimming	Y		
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	Y		
Muskgrasses (Chara )	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Next Steps	Sent to Ted/Eric		
Payment Number	543		
Permit County	Waushara		
Permit End Year	2016		
Permit Latitude	44.0343		
Permit Longitude	-89.2621		
Permit PLSS Section	13 18N10E		
Permit Start Year	2016		
Permit WBIC	151500, 148500		
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	White River Flowage		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

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APM Chemical Treatment Record	Chemical treatment details	5/16/2016	5/16/2016	COMPLETE
Details: Parameter	Value/Amount	Units	Comments	
Air Temperature	52			
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	4.51			
Aquathol Super K, # Pounds	225			
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			
Common waterweed (Elodea canadensis)	SP			
Contains Herbicide totals	Y			
Control Comments	EWM-A located entirely within CLP-E.			
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			

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Details: Parameter	Value/Amount	Units	Comments
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		
Duration of Chemical Residualts	21		
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		
Imazapyr Acres	0		
Imazapyr Gallons	0		

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Waushara		
Permit Year	2016		
Person Completing Form	James Scharl		
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	1.7		
Sculpin G Pounds	600		
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	5/16/2016		
Treatment End Time	11:30		
Treatment Start Time	9:00		
Tribune Acres	5.48		
Tribune Gallons	10		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	51		
Water Temperature Units	F		

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Details: Parameter	Value/Amount	Units	Comments
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	5-10		

APM Chemical Permit Request	Chemical Permit Details	3/21/2017	4/10/2017	APPROVED
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Details: Parameter	Value/Amount	Units	Comments
APM Plan	N		
APM Plan Agree	N		
Advance Notification	Y		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	2		
CO - 15 days	N		
CO - Date Sent	3/23/2017		
CO-Date_Received	3/21/2017		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	4121		
Chemicals - Approved	Tribune, Diquat, Habitat,		
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		

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Details: Parameter	Value/Amount	Units	Comments
Control - PL	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	N		
Entered in SharePoint	N		
Estimated Acres	3		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Expiration Date	10/1/2017		
Fee	95		
Field - # days	1		
Field - 15 days	Y		
Field Issued By	Chris_Kolasinski		
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 - Other Text	Flowering Rush		
Maintain navigational channel	Y		
Maintain private access - boating	Y		
Maintain private access - fishing	N		
Muskgrasses (Chara )	N		
NUISANCE_CAUSED_OTHER	Y		
Native Plants	N		
Next Steps	Ted		
Payment Number	584		
Permit County	Waushara		
Permit End Year	2017		
Permit Latitude	44.031650		
Permit Longitude	-89.260470		
Permit PLSS Section	13 18N10E		
Permit Start Year	2017		
Permit WBIC	148500		
Permit Year	2017		
Pithophora	N		



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Details: Parameter	Value/Amount	Units	Comments		
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	White River Flowage				
Treatment Date	N				
Treatment Date	N				
Treatment Record - Received	N				
Treatment Record - Scanned	N				
Waterbody Type	LAKE				
APM Chemical Treatment Record	Chemical treatment details		5/25/2017	5/25/2017	COMPLETE
Details: Parameter	Value/Amount	Units	Comments		
24D Granular, # Acres	0				
24D Granular, # Pounds	0				
24D Liquid, # Acres	0				
24D Liquid, # Pounds	0				
Air Temperature	70				
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				

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
CHEMICAL_TREATMENT_ID	6807		
Captain XTR, # Acres	0		
Captain XTR, # Gallons	0		
Chemical Permit ID	4121		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
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		
Did Treatments Occur	Y		
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		

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
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	N		
Permit County	Waushara		
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		

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Details: Parameter	Value/Amount	Units	Comments		
Sonar AS Gallons	0				
Sonar AS Acres	0				
Touchdown Pro Acres	0				
Touchdown Pro Gallons	0				
Treatment Date	5/25/2017				
Tribune Acres	3				
Tribune Gallons	3				
Vectobac Acres	0				
Vectobac Gallons	0				
Water Temperature	63				
Water Temperature Units	F				
Wind Direction	N/A				
Wind Speed	0-5				
APM Chemical Treatment Record	Chemical treatment details		9/8/2017	9/8/2017	COMPLETE

Details: Parameter	Value/Amount	Units	Comments		
24D Granular, # Acres	0				
24D Granular, # Pounds	0				
24D Liquid, # Acres	0				
24D Liquid, # Pounds	0				
Air Temperature	60				
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				
CHEMICAL_TREATMENT_ID	7059				
Captain XTR, # Acres	0				

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Captain XTR, # Gallons	0		
Chemical Permit ID	4121		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
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		
Did Treatments Occur	Y		
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		
H2O2 Acres	0		

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
H2O2 Pounds	0		
Habitat Acres	3		
Habitat Gallons	0.375		
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		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	N		
Permit County	Waushara		
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		

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Details: Parameter	Value/Amount	Units	Comments
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	9/8/2017		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	55		
Water Temperature Units	F		
Wind Direction	N/A		
Wind Speed	0-5		

### Monitoring Stations

Station ID	Name	Comments
10007423	White River Flowage	

### Assessment Units

WBIC	Segment	Local Name	Official Name
148500	2	White River	White River
148500	3	White River	White River
151500	1	White River FI (Lower Pond)	White River FI (Lower Pond)
151625	1	Unnamed	Wilcox Lake

### Lab Account Codes

Account Code	Description	Start Date	End Date
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### Forms

Form Code	Form Name
AIS_PRES_ABS_21	Citizen Aquatic Invasives Surveillance Monitoring (03/21)

### Methods

Method Code	Method Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
9/24/2015 8:00	COMPLETE		10007423	White River Flowage

### Documents

Title	Description	Author	Published	Comments
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### Budget

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## Wisconsin Department of Natural Resources SWIMS Project Summary

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:** \$0.00

Funding					
Organization	Source	Type	Amount	Start Date	End Date