

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** AIRR19616

**Name:** LITTLE MUSKEGO LAKE P & R DISTRICT: Containment & Suppression of Starry Stonewort #2

**Type:** Aquatic Invasives Grant

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

**Status:** COMPLETE

**Start Date:** 8/17/2015

**End Date:** 12/31/2016

**Purpose:** The Little Muskego Lake Protection and Rehabilitation District, in partnership with the City of Muskego, the Little Muskego Lake Association and the Wisconsin Department of Natural Resources, will undertake a second rapid response project on Little Muskego Lake to control Starry Stonewort, listed in NR 40 as a prohibited species. The project will include hand pulling by snorkeling; DASH (Diver Assisted Suction Harvesting) in Hillview Bay (focusing on the peninsula area) and hand removal of approximately 10 satellite locations by SNUBA. The project deliverable will be a report containing maps denoting where the Starry Stonewort was hand pulled, removed by DASH and removed by SNUBA/hand pulling. The report will also provide a table listing the dates of removal, approximate times, hours of removal, number of staff and which of the three methods was used.

**Objective:**

**Comments:** Grantee is LITTLE MUSKEGO LAKE P & R DISTRICT

**Outcome:**

**Study Design:**

**QA Measures:**

### People

| Name                           | Role            | Status | Start Date | End Date | Organization                       | Comments |
|--------------------------------|-----------------|--------|------------|----------|------------------------------------|----------|
| Bunk, Heidi J                  | LAKE_BIOLOGIST  | ACTIVE | 8/19/2019  |          | Wisconsin DNR                      |          |
| Little Muskego Lake P & R Dist | GRANT_RECIPIENT | ACTIVE | 6/8/2016   |          | Little Muskego Lake P & R District |          |

### Project Statuses

| Date | Reported By | Status | Comments |
|------|-------------|--------|----------|
|------|-------------|--------|----------|

### Actions

| Action                      | Detailed Description    | Start Date | End Date   | Status   |
|-----------------------------|-------------------------|------------|------------|----------|
| Grant Awarded               | Grant AIRR19616 awarded | 8/17/2015  | 12/31/2016 | COMPLETE |
| APM Chemical Permit Request | Chemical Permit Details | 5/3/2016   | 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            |       |          |

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| <b>Details: Parameter</b>                      | <b>Value/Amount</b>          | <b>Units</b> | <b>Comments</b> |
|--|------------------------------|--------------|-----------------|
| CO – Date Sent                                 | 5/3/2016                     |              |                 |
| CO-Date_Received                               | 5/3/2016                     |              |                 |
| CONTROL_INVASIVES                              | N                            |              |                 |
| CONTROL_OTHER                                  | N                            |              |                 |
| Category 5 Certification Number                | N/A                          |              |                 |
| Chemical Permit ID                             | 2987                         |              |                 |
| Chemicals - Approved                           | Aquathol K, DMA, Captain XRT |              |                 |
| 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                                | 200                          |              |                 |
| Eurasian water-milfoil (Myriophyllum spicatum) | Y                            |              |                 |
| Expiration Date                                | 10/1/2016                    |              |                 |
| Fee  | 1250                         |              |                 |
| Field - 15 days                                | N                            |              |                 |
| Field Issued By                                | Heidi_Bunk                   |              |                 |
| 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                          | Starry Stonewort             |              |                 |
| Maintain navigational channel                  | N                            |              |                 |
| Maintain private access - boating              | N                            |              |                 |

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| Details: Parameter                                | Value/Amount        | Units | Comments |
|---|---------------------|-------|----------|
| Maintain private access - fishing                 | N                   |       |          |
| Muskgrasses (Chara )                              | N                   |       |          |
| NUISANCE_CAUSED_OTHER                             | Y                   |       |          |
| Native Plants                                     | N                   |       |          |
| Next Steps  | Sent to Heidi       |       |          |
| Payment Number                                    | 5296                |       |          |
| Permit County                                     | Waukesha            |       |          |
| Permit End Year                                   | 2016                |       |          |
| Permit Latitude                                   | 42.913759           |       |          |
| Permit Longitude                                  | -88.14307120        |       |          |
| Permit PLSS Section                               | 9 05N20E            |       |          |
| Permit Start Year                                 | 2016                |       |          |
| Permit WBIC                                       | 762700              |       |          |
| 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                                    | Little Muskego 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 | 6/2/2016 | 6/2/2016 | COMPLETE |
|-------------------------------|----------------------------|----------|----------|----------|

| Details: Parameter    | Value/Amount | Units | Comments |
|-----------------------|--------------|-------|----------|
| Air Temperature       | 21.7         |       |          |
| Air Temperature Units | C            |       |          |
| Aqua-Pro Acres        | 0            |       |          |
| Aqua-Pro Gallons      | 0            |       |          |
| Aquaneat Acres        | 0            |       |          |
| Aquaneat Gallons      | 0            |       |          |
| Aquashade Acres       | 0            |       |          |
| Aquashade Pounds      | 0            |       |          |
| Aquastar Acres        | 0            |       |          |

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| <b>Details: Parameter</b>                    | <b>Value/Amount</b> | <b>Units</b> | <b>Comments</b> |
|--|---------------------|--------------|-----------------|
| Aquastar Gallons                             | 0                   |              |                 |
| Aquathol Acres                               | 0                   |              |                 |
| Aquathol Gallons                             | 0                   |              |                 |
| Aquathol K Acres                             | 0                   |              |                 |
| Aquathol K Gallons                           | 43.6                |              |                 |
| Aquathol Super K, # Acres                    | 0                   |              |                 |
| Aquathol Super K, # Pounds                   | 0                   |              |                 |
| Aquathol, # Acres Gallons                    | 14.5                |              |                 |
| 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                   |              |                 |
| Copper Acres                                 | 0                   |              |                 |
| Copper Liquid, # Acres                       | 0                   |              |                 |
| Copper Liquid, # Gallons                     | 0                   |              |                 |
| Copper Pounds                                | 0                   |              |                 |
| Curly-leaf pondweed<br>(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                              | 93.4                |              |                 |
| DMA 4 IVM Gallons                            | 935                 |              |                 |
| Diquat Acres                                 | 0                   |              |                 |
| Diquat Gallons                               | 0                   |              |                 |
| Diquat Liquid Acres                          | 0                   |              |                 |
| Diquat Pounds                                | 0                   |              |                 |
| Duration of Chemical<br>Residualts           | <30 days            |              |                 |

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| <b>Details: Parameter</b>  | <b>Value/Amount</b> | <b>Units</b> | <b>Comments</b> |
|--|---------------------|--------------|-----------------|
| Endotholl Acres  | 0                   |              |                 |
| Endotholl Liquid Acres   | 0                   |              |                 |
| Endotholl Liquid Gallons   | 0                   |              |                 |
| Endotholl Pounds   | 0                   |              |                 |
| Eurasian water-milfoil<br>(Myriophyllum spicatum)  | TS                  |              |                 |
| 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<br>Water Use Restriction Signs<br>Posted in Accordance with NR<br>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   | No                  |              |                 |
| Permit County  | Waukesha            |              |                 |
| Permit Year  | 2016                |              |                 |
| Person Completing Form   | Amy Kay Wensink     |              |                 |
| Phycomycin Acres   | 0                   |              |                 |
| Phycomycin Pounds  | 0                   |              |                 |
| Polaris Acres  | 0                   |              |                 |
| Polaris Gallons  | 0                   |              |                 |
| Refuge Acres   | 0                   |              |                 |
| Refuge Gallons   | 0                   |              |                 |
| Reward Acres   | 0                   |              |                 |

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| 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                           | 6/2/2016     |       |          |
| Treatment End Time                       | 16:57        |       |          |
| Treatment Start Time                     | 11:56        |       |          |
| Tribune Acres                            | 0            |       |          |
| Tribune Gallons                          | 0            |       |          |
| Vectobac Acres                           | 0            |       |          |
| Vectobac Gallons                         | 0            |       |          |
| Water Temperature                        | 24.2         |       |          |
| Water Temperature Units                  | C            |       |          |
| 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                           | West         |       |          |
| Wind Speed                               | 1-6          |       |          |

|                               |                            |           |           |          |
|-------------------------------|----------------------------|-----------|-----------|----------|
| APM Chemical Treatment Record | Chemical treatment details | 6/29/2016 | 6/29/2016 | COMPLETE |
|-------------------------------|----------------------------|-----------|-----------|----------|

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| <b>Details: Parameter</b>   | <b>Value/Amount</b>                                     | <b>Units</b> | <b>Comments</b> |
|-----------------------------|---|--------------|-----------------|
| Air Temperature             | 23.9  |              |                 |
| Air Temperature Units       | C   |              |                 |
| 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        | 120   |              |                 |
| Captain XTR, # Gallons      | 0   |              |                 |
| Clearcast Acres             | 0   |              |                 |
| Clearcast Gallons           | 0   |              |                 |
| Clearigate Acres            | 0   |              |                 |
| Clearigate Gallons          | 0   |              |                 |
| Contains Herbicide totals   | Y   |              |                 |
| Control Comments            | Herbicide applied with rhodamine dye to track movement. |              |                 |
| 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   |              |                 |

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| <b>Details: Parameter</b>   | <b>Value/Amount</b> | <b>Units</b> | <b>Comments</b> |
|---|---------------------|--------------|-----------------|
| 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   | <30 days            |              |                 |
| 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                   |              |                 |
| 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                   |              |                 |
| Muskgrasses (Chara )  | SP                  |              |                 |
| Nautique Acres  | 0                   |              |                 |
| Nautique Gallons  | 0                   |              |                 |
| Navigate Acres  | 0                   |              |                 |
| Navigate, # Pounds  | 0                   |              |                 |
| Onsite Supervision  | No                  |              |                 |
| Permit County   | Waukesha            |              |                 |



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| Details: Parameter                      | Value/Amount    | Units | Comments |
|---|-----------------|-------|----------|
| Permit Year                             | 2016            |       |          |
| Person Completing Form                  | Amy Kay Wensink |       |          |
| 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               |       |          |
| Starry Stonewort                        | TS              |       |          |
| Touchdown Pro Acres                     | 0               |       |          |
| Touchdown Pro Gallons                   | 0               |       |          |
| Treatment Date                          | 6/29/2016       |       |          |
| Treatment End Time                      | 13:05           |       |          |
| Treatment Start Time                    | 10:38           |       |          |
| Tribune Acres                           | 0               |       |          |
| Tribune Gallons                         | 0               |       |          |
| Vectobac Acres                          | 0               |       |          |
| Vectobac Gallons                        | 0               |       |          |
| Water Temperature                       | 26.3            |       |          |
| Water Temperature Units                 | C               |       |          |
| Water Use Restriction - Animal Water    | N               |       |          |
| Water Use Restriction - Crop Irrigation | N               |       |          |
| Water Use Restriction - Drinking Water  | N               |       |          |

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| 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            |       |          |
| Wind Direction                           | NWN          |       |          |
| Wind Speed                               | 5-7          |       |          |

### Monitoring Stations

| Station ID | Name                | Comments |
|------------|---------------------|----------|
| 10007183   | Little Muskego Lake |          |

### Assessment Units

| WBIC   | Segment | Local Name          | Official Name       |
|--------|---------|---------------------|---------------------|
| 762500 | 1       | Muskego Creek       | Muskego Creek       |
| 762700 | 1       | Little Muskego Lake | Little Muskego Lake |

### Lab Account Codes

| Account Code | Description | 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        |
|-----------------|----------|----------|------------|---------------------|
| 9/16/2014 12:00 | COMPLETE |          | 10007183   | Little Muskego Lake |

### Documents

| Title | Description | Author | Published | Comments |
|-------|-------------|--------|-----------|----------|
|-------|-------------|--------|-----------|----------|

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:** \$0.00

### Funding

| Organization | Source | Type | Amount | Start Date | End Date |
|--------------|--------|------|--------|------------|----------|
|--------------|--------|------|--------|------------|----------|