

## Flowering Rush

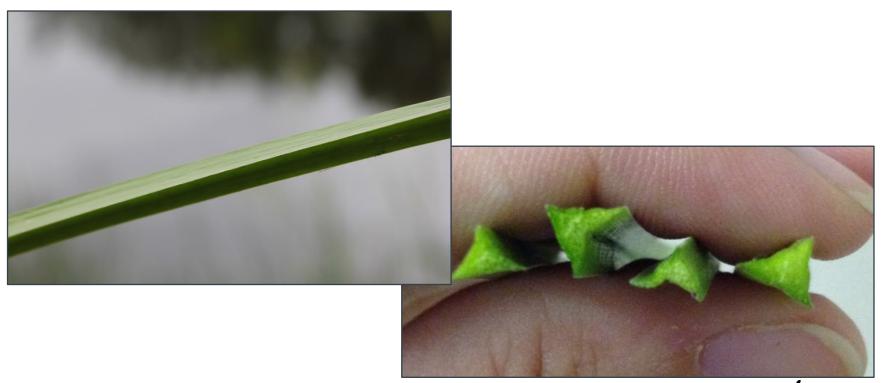
Identification





- Aquatic perennial plant
- Linear, sword-like leaves
- Showy umbel of pink flowers





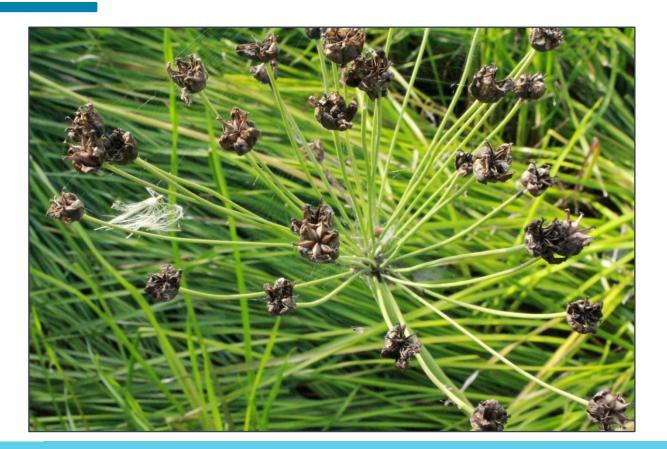










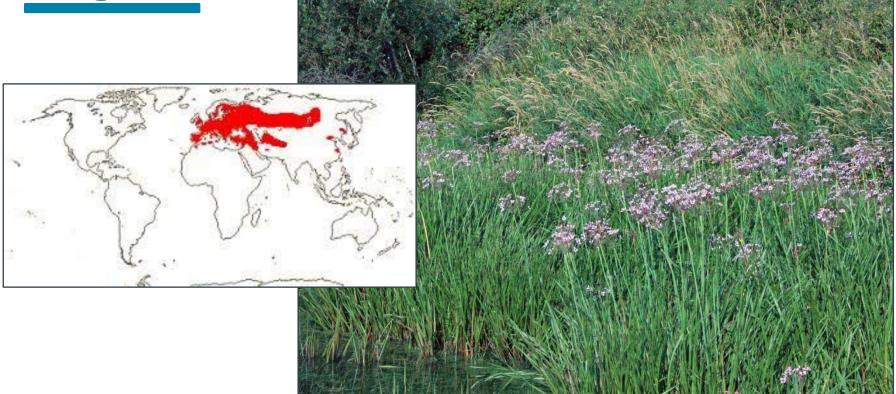


## Flowering Rush

Origin, Uses, and Problems



## **Origins**



#### How was it introduced?

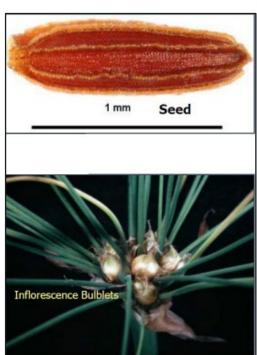
Common plant for water gardens

Commonly obtained through horticulture trade



## **Vigorous Aquatic Perennial**







## **Rhizome fragments**



- Large carbohydrate reserves
- Buoyancy
- Preformed roots



## **Growth Depth**



Max depth reported is 4.5 meters

 Grows in submerged or emergent forms



**Displaces Beneficial Plants** 

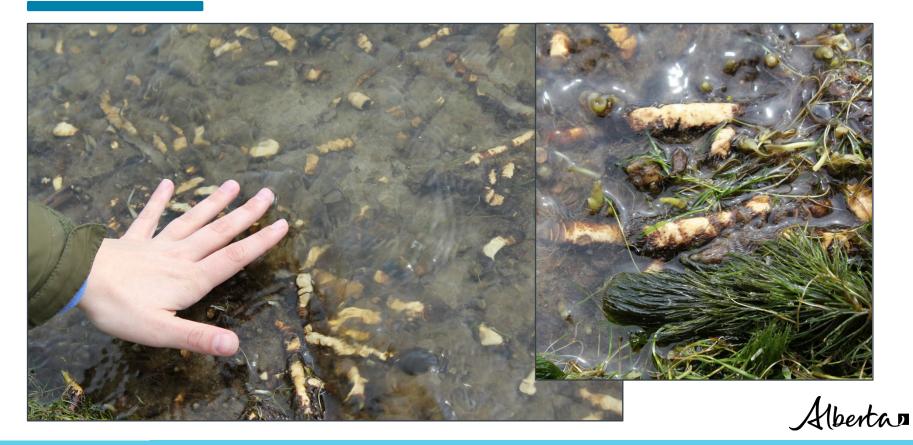


## **Grows Early in Spring - April**





## Disturbances encourages growth



#### **Potential Problems**

- Decrease abundance and diversity of plants and animals naturally found in area
- Decrease open fish spawning habitat
- Promote deposition of sediment
- Slow or stop water movement
- Limit water access and use
- Promote habitat of intermediate host of swimmer's itch parasite (e.g. great pond snail *Lymnaea stagnalis* L.)

## Flowering Rush

Response Efforts in Alberta





## **Clipping Flower Heads**

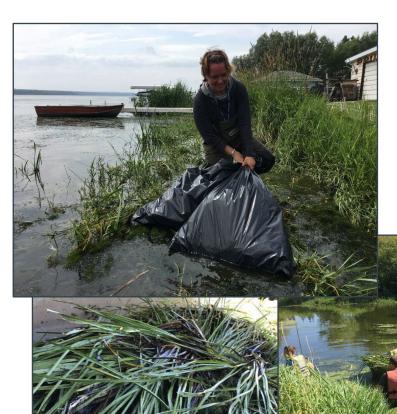












## Digging By Hand





## **Steaming**





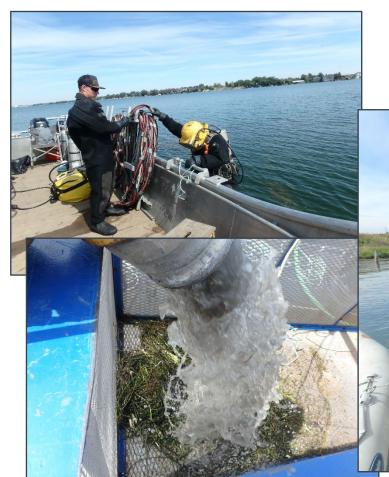
## Mechanical Dredging





## **Mechanical Weed Harvester**





## Diver Assisted Suction Harvesting





## Herbicides Applied in/near Water





## Flowering Rush

Lake Isle Efforts



## First Look at Flowering rush at Lake Isle



August 8, 2012



Full scale of Flowering rush at Lake Isle



## **Shoreline Survey of Flowering rush at Lake Isle**

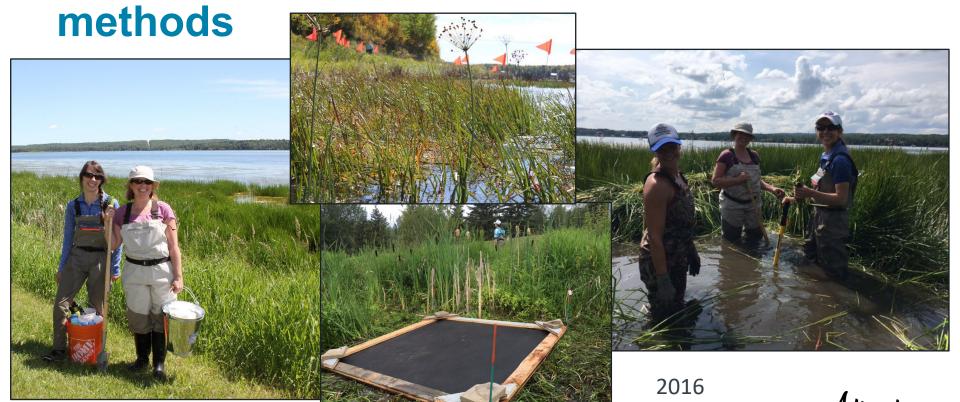


June 26, 2015

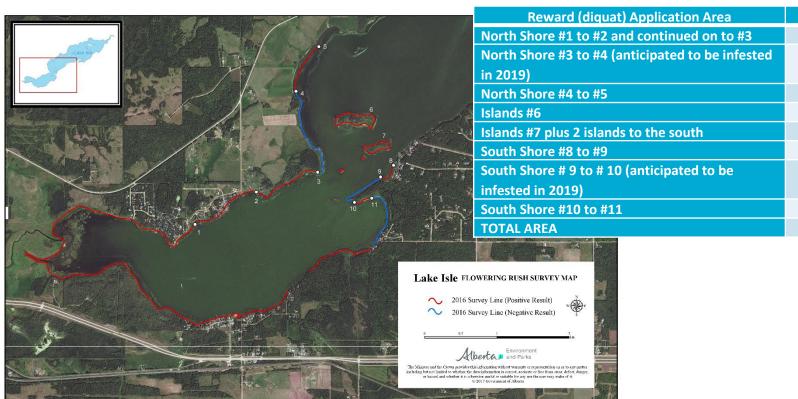




U of C graduate study to explore control



#### 2018 Herbicide Application - CANCELLED





**Distance** 

2 km

1.33 km

0.705 km

1.4 km

1.2 km

 $0.31 \, \text{km}$ 

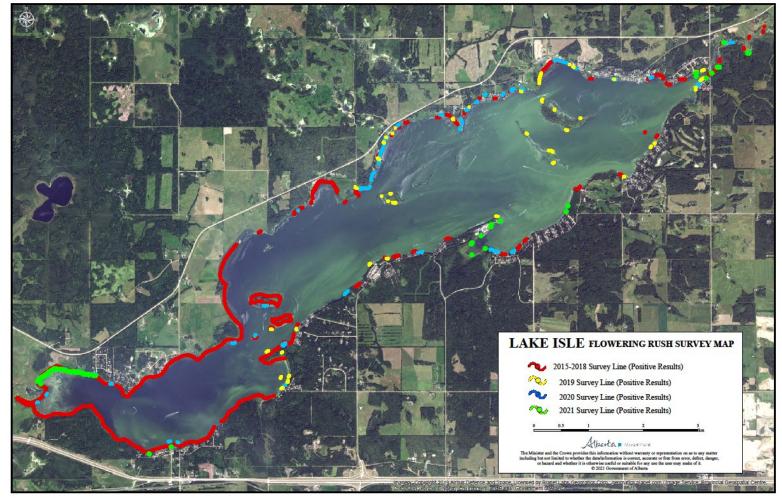
0.7 km

0.265 km

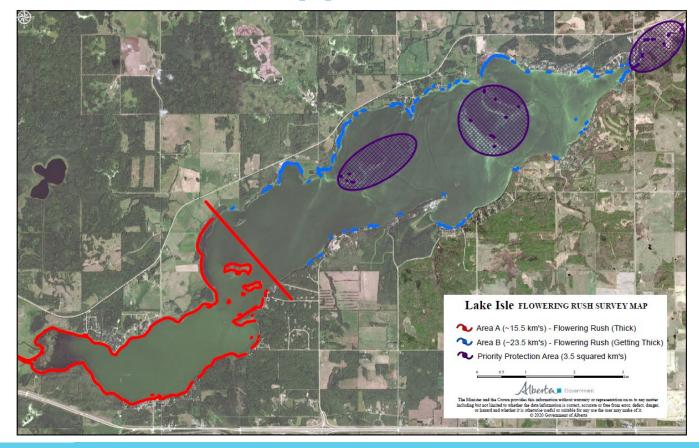
7.91 km

## **New Herbicide Registration March 2021**



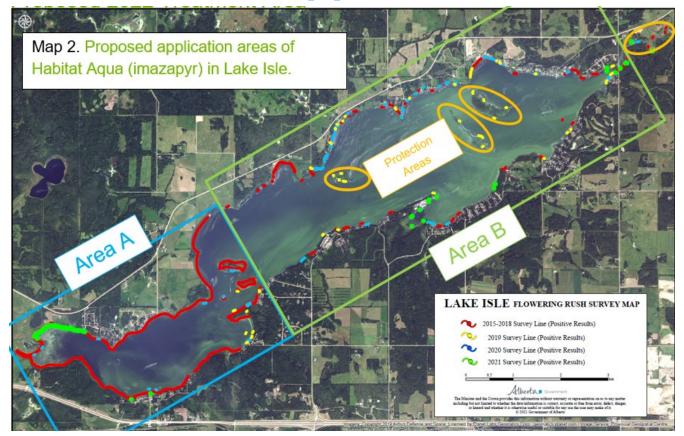


## **2021 Herbicide Application**





#### **2022 Herbicide Application**





#### Lake Isle Herbicide: 5 Year Project





## **Engaged Residents, Keeps Me Fighting**







# Thank you! Questions?

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