

# Clearwater Lake Community Runoff Mini-Grant, 2018

## Table 2: Activities

### Event: Kickoff Meeting

**Date:** May 19, 2018 12:00 noon

#### Participation:

- 6 of the 7 properties participated. Clearwater Camp was unable to send a representative.
- Total of 11 participants

**Location:** 15409 Ladyslipper Lane, Deerwood, MN

#### Description:

An educational kickoff meeting was held to introduce the 7 property owners to each other and to the project.

- Introductions and lake locations were made by each participant.
- Shelley Larson, from Hayland Woods discussed the nature of the work we would be doing and described the various projects.
- A pictorial overview of willow wattle installations was presented.
- Community was stressed and the need for everyone to work as a team on the project as a whole.
- Questions from participants were taken and answered.
- Available dates were discussed, and a schedule was set.
- A simple summer grill out lunch was served.

#### Conclusion:

The meeting was a success. Everyone was more comfortable with the project they had signed onto and most importantly, an aggressive schedule was set to complete the restoration project as early in the summer as possible.



## Clearwater Lake Community Runoff Mini-Grant, 2018

### Event: Education Seminar, “Protect Your Water Quality with Shoreline Stabilization and Restoration”

**Date:** June 2, 2018 9:00am

#### Participation:

- 2 projects were represented
- Total of 20 participants

**Location:** The Gazebo at Park Estates Townhouses, West side of Clearwater Lake. Park Estates was not a partner in the grant. They are a large shoreline owner, and we wanted to include 16 families in the education program to encourage protection of Clearwater Lake.

#### Description:

An education seminar describing methods for shoreline stabilization and runoff mitigation was sponsored by our grant project. It was targeted to the general public. It was promoted through local papers, lake associations and posted flyers. See Publicity for details.

The seminar included a power point presentation followed by a walk along the Park Estates Townhouse shoreline. The townhouse shore was used to point out impacted shoreline needing stabilization, existing native plants as well as areas that could be modified for better runoff capture. Coffee and pastries were served.

#### Conclusion:

The seminar was very successful.

- We were extremely happy that 16 of the 20 participants were NOT a part of the grant project.
- We reached 2 lakes that were NOT a part of the grant project; Eagle Lake and Peterson Lake
- Park Estates Townhouses (16 unit townhouse association on Clearwater Lake) representatives, followed up the presentation by attended all the workshops. They took what they learned and implemented suggested shoreline runoff practices including installing willow wattle and changing established mowing areas. This was a direct result of the presentation including a walk through on the property.





# Clearwater Lake Community Runoff Mini-Grant, 2018

## Event: Willow Cutting To prepare for willow wattle installation on 6 properties

**Date:** June 16 2:30 – 4:30

### Participation:

- All projects were represented + Park Estates Townhouses
- Total of 19 participants

**Location:** 13606 Nokay Lake Road, East side of the ditch

### Description:

We were given permission to cut willow by land owners Gary and Catherine Nelson.

Our team showed up to cut willow on one of the hottest days of the year so far. We had 4 chainsaws going and a chain gain pulling the cut willow to the side of the road. With 2 trailers and 2 pickup beds we distributed willow to 6 sites.

### Conclusion:

Roughly 1,000 sticks of willow was cut and distributed to 6 project sites for installation.





# Clearwater Lake Community Runoff Mini-Grant, 2018

## Event: Installation of 4 Projects on Ladyslipper Lane

**Date:** June 22, 2018 9:00am – 4:30pm

### Participation:

- 6 of the 7 properties participated.
- Total of 21 participants including extended family and friends of project participants.

**Location:** Green, Guth/Seliski, Johnson and Peterson Projects

### Description:

A full day install to complete the Ladyslipper Lane cluster of projects was scheduled and completed approximately 90%. The remaining 10% was completed within the next week by project owners.

See Outcomes: Green, Guth / Seliski, Johnson and Peterson project for details.

### Conclusion:

Everyone had their first hands on experiences with planting a rain garden, upland, wet meadow and emergent plants, and installing Willow Wattle.



**First Hole, First Plant**

# Clearwater Lake Community Runoff Mini-Grant, 2018

## Event: Install 2 Projects on Western Clearwater Lake

**Date:** July 21, 2018 9:00am – 3:00pm

### Participation:

- 5 of the 7 properties participated.
- Total of 14 participants including extended family and friends of project participants.

**Location:** Swanson and Vandenberghe Projects

### Description:

This was a 3/4 day install to complete 2 projects on the western shore of Clearwater Lake.

The western projects both required DNR shoreline alteration permits to restructure and stabilize rocky and historic ice ridge shorelines. The workshops planted upland, wet meadow and emergent plants. This was a difficult day in that the much of the planting was on hilly shoreline with a rock bottom in the lake and plants were planted through erosion fabric.

See Outcomes: Swanson and Vandenberghe Projects for details.

### Conclusion:

The participants learned the right way to restructure a rocky shoreline with historic ice heaves with soft armor to improve runoff capture, filtering, infiltration and habitat while providing a useable recreation area. They learned of the need to maintain an ice ridge type structure in managing runoff. They also learned about various erosion materials and uses.

#### BEFORE



#### COMPLETED PROJECT





# Clearwater Lake Community Runoff Mini-Grant, 2018

## Event: Clearwater Forest Camp - ECO Week

**Date:** July 26, 2018 1:00pm – 3pm

### Participation:

- 41 campers and 6 camp counselors, staff and board members
- Friends of the camp

**Location:** Clearwater Forest Camp, Water Recreation and Worship Areas

### Description:

The Clearwater Camp project was worked into the curriculum for ECO week at Clearwater Forest Camp. The curriculum for the week, focused on water, and was developed by the outreach coordinator for Science Museum of MN; Sam Horak. The instructor, Grace Snow is a marketer for Iowa State University.

One afternoon of ECO week was dedicated to our shoreline project. The program started with a 30 – 45 minute power point about protecting water quality with soft stabilization and native plants. The audience was 41 - 4<sup>th</sup> grade through 9<sup>th</sup> grade students. Then the group was moved outside to install 2 of the 3 areas of the project; the worship area and the water recreation area.

See Outcomes: Clearwater Forest Camp ECO Week project for details.

### Conclusion:

Not only was 150 feet of willow wattle installed and planted, but 41 children were educated and given an opportunity for hands on experience with caring our environment and our lakes. The camp staff now understands how to manage their lake shore and the skills to continue to do so. With board members present for the install, it was also a great opportunity to educate them and encourage board decisions to make shoreline and runoff management a priority.

It is a major win for Clearwater Lake. Clearwater Forest Camp owns over 20,000 feet of lake shore. The knowledge that they can maintain their lakeshore while educating camp participants is priceless.



# Clearwater Lake Community Runoff Mini-Grant, 2018

## Event: Clearwater Forest Camp - Eagle Scout Project

**Date:** August 11, 2018

### Participation:

- Eagle Scout candidate
- 10 assistants and Camp Staff

**Location:** Clearwater Forest Camp, Chickadee Day Camp

### Description:

A Clearwater Forest part time worker; Hunter Miller is an Eagle Scout Candidate. When details of the installation of the camp project were being worked out, he asked if he could use the Chickadee Day Camp as part of his Eagle Scout Community Service Project. It was a perfect fit since the day camp is a little far removed to work easily with the ECO education and installation afternoon. He worked the ECO week install at Clearwater Camp to learn the necessary skills and steps to do an install on his own.

The Eagle Scout candidate successfully prepared the installation area, managed the plants prior to the install, arranged for participants to do the install, trained them to create, install and plant 60' of willow wattle. His crew was mostly made of other high school age Boy Scouts.

See Outcomes: Clearwater Forest Camp - Eagle Scout project for details.

### Conclusion:

This breakout projected involved more community and included an older age group of children. Encouraging our younger generation to take responsibility and ownership of lake stewardship will have years of positive impact.

Another Boy Scouts on the project is already discussing doing his service project at Clearwater camp with a similar theme next year.

