



St. Croix Valley Healthy Waters Initiative

Chisago City, MN

Water Tower Park

WATER TOWER PARK

ADDRESS:

11066 North Ave
Chisago City, MN
55013

WATERSHED:

St. Croix River
Basin

FUNDING PARTNERS

- Bush Foundation
- MPCA
- Carolyn Foundation
- Chisago Soil and Water Conservation District

BEST MANAGEMENT PRACTICES IMPLEMENTED

- Rain Garden
- Rip-rap
- Native Planting



Rainwater garden is sized to accept a 1.5" rainfall event.

Impervious Watershed (Parking lot and sidewalk)

- 20,000 sf

Runoff Volume

- 18,500 gallons

Storage Volume Required

- 2500 cf (93 cy)

Raingarden surface area required to treat a 1.5" rain fall event with an average ponding depth of 8".

- 3800 sf

Water Tower Park, located in Chisago City, consists of a three-cell rain garden near a new parking lot and playground. The purpose of the rain garden is to capture water before it reaches a stream adjacent to the site. The space was determined by the need to retain at least 1.5"-2" of rain as major pollutants are picked up in the first inch of rainfall. Any additional rainfall is then routed through the three-cell system to two storm overflows, where the water is allowed to flow to the nearby stream.

To plant the area, compost was tilled in to help increase the holding capacity for water as the existing soil contained a high percentage of clay. Next, 3" of mulch was applied with the plants installed last.



Great River Greening
35 W Water St #201
Saint Paul MN 55107
Tel 651 665.9500
www.greatrivergreening.org

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Great River Greening

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MISSION

Great River

Greening

leads and

inspires

community-

based

restoration

of natural areas

and

open spaces



It is important to apply the mulch prior to planting as application afterwards has the potential to bury the plants. To select the best plants for a rain garden, the ecologists considered the several different zones that needed to be created, ranging from the bottom (fully submerged) to the edges (mostly dry).



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