

LACH RESIDENCE

Rain Garden



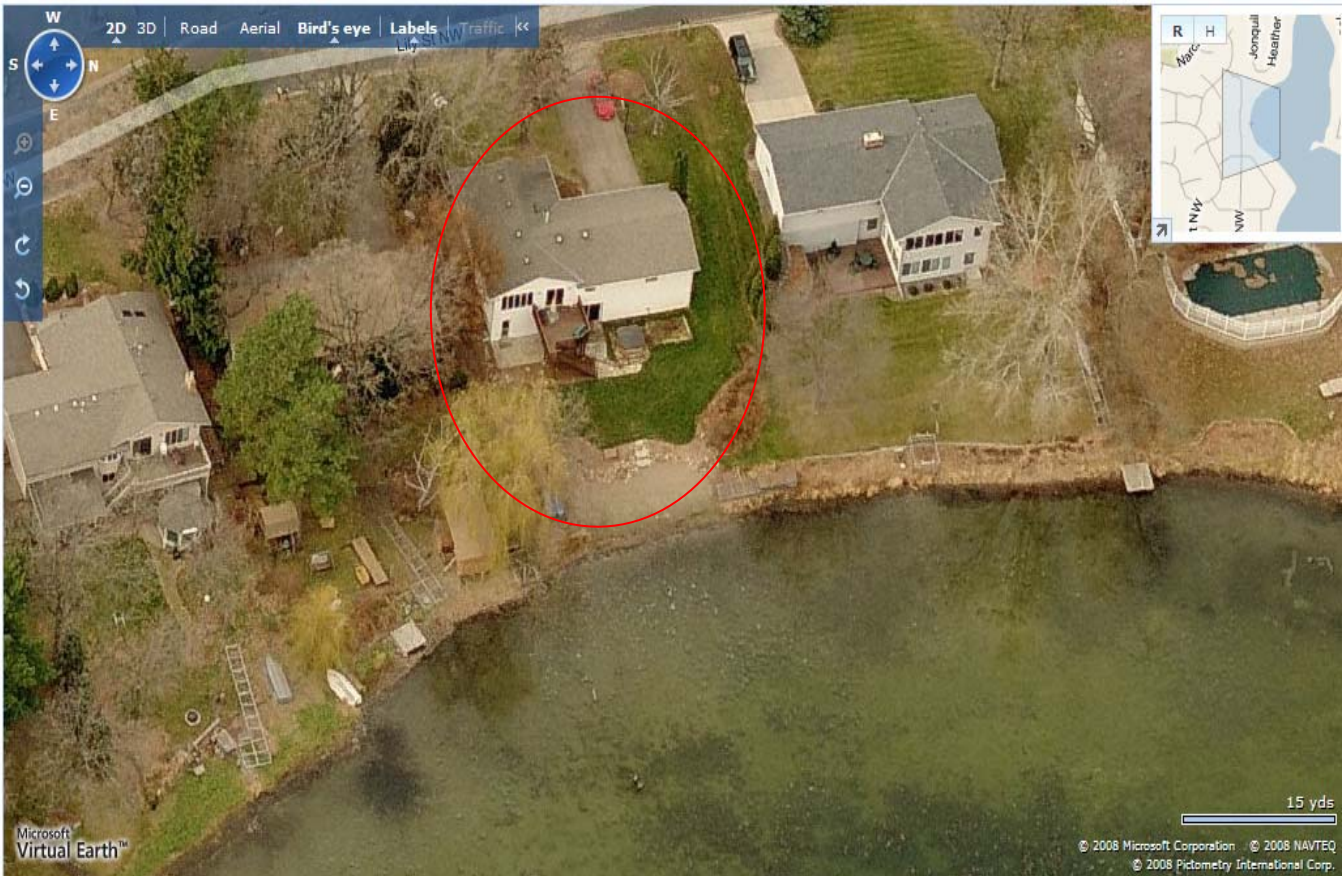
Pre-Rain Garden Conditions

Rain falling on the roof of the Lach residence was directed by downspouts, unfiltered, onto the lawn, where it carried detrimental pollutants and nutrients into Crooked Lake. This excess runoff from impervious surfaces can cause:

- An increased risk of flooding and bank erosion
- An influx of sediments, nutrients and pollutants
- Unwanted aquatic vegetation and algae blooms
- An increase in water temperatures.

PROJECT SPECS

Date Planted	June 2004
Native Plants Installed	504
Water Treatment Capacity	345 ft ³
Water Detention Capacity	545 ft ³
Homeowner Cost.....	\$4,480.76
Cost-share Funds Provided	\$4,480.76



Before Rain Garden Installation

Prior to rain garden installation, there was little buffer to help reduce runoff into Crooked Lake.

The limited buffer area that was present was dominated by invasive reed canary grass. A number of rain gardens were constructed at a total cost of \$8,961.51. The homeowners were reimbursed \$4,480.76 in cost share funds.

September 2003



Prior to rain garden installation and drainage improvements, runoff from the Lach's front yard and part of their neighbor's property all flowed through this narrow area. Water rapidly flowed along side the residence resulting in erosion problems and increased sediment input into Crooked Lake.

September 2003



After Rain Garden Installation



June 2004



504 native plants were planted in the Lach rain gardens increasing diversity and bank stability.



June 2004



Runoff is collected in a drainage basin where it is directed to a rain garden for treatment. Runoff is reduced leading to less erosion damage.