



Rainwater Harvesting

Grogg's Green Barn Tulsa, Oklahoma

Grogg's Green Barn is a local organic greenhouse. Grogg's actively promotes organic gardening and incorporated sustainable and low impact development concepts in the construction of their facility. Two concrete cisterns, both 15 feet deep and 30 feet wide, catch runoff from the facility's roof. The runoff is directed initially into the left cistern and then filtered into the right cistern for storage. The water is then pumped from the cistern and used for irrigation purposes. It only takes 1" of rainfall to fill the system to its 4,000 gallon capacity. In the summer of 2014 the rainwater system provided enough irrigation water so that the use of potable city water happened only once. Since its installation four years ago the owners have reported no problems with the system.



Manhole to the underground cistern that collects rainwater runoff from the facility's roof.



The rain garden at Grogg's Green Barn drains the outdoor sales yard.

Rain Garden

Grogg's has also created a rain garden in the northeast corner of their property. Working with the natural slope of the land, the garden captures drainage from the entire outdoor sales lot. The garden was planted with a variety of fruit and nut trees, blueberries, chives and irises which help to filter and slow the flow of stormwater runoff from the property.

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