

Hamburger Shoreland Project Estimate

2017

Lake: Red Cedar Lake, Barron County, WI

Property: Margaret Hamburger
2030 28th Street
Birchwood, WI 54817

Mailing Address: Margaret Hamburger & John Kupris
1263 Como Blvd. West
Saint Paul, MN 55103

Planning

Site visit: May 17, 2017 (Green Frog)	0.75 x \$40/hour	\$	30.00	
mileage	30 x \$0.53/mile	\$	15.90	
Site visit: July 23, 2017 (Green Frog)	0.5 x \$40/hour	\$	20.00	
mileage	30 x \$0.53/mile	\$	15.90	
Plan/custom plant list/ordering plants (Green Frog)	6 x \$40/hour	\$	240.00	
		\$	321.80	
		\$	(10.00)	PAID by R. Hokanson 7/23/17
		\$	311.80	

Implementation

Rain Garden 225 sq.ft., 6-7 inches deep				
Screened top soil (Todd's Redi-Mix, Haugen)	10 cu.Yd (bulk)	\$	190.00	(call for delivery charge)
Erosion control blanket for berms (Green Frog)		\$	20.00	
No-mow EcoGrass for berms (Green Frog)	1 lb of seed	\$	5.50	
Natural shredded cedar or cyprus mulch (Menards)	10 bags x \$3.50/bag	\$	35.00	
Native wildflowers/ferns (Dragonfly Gardens)		\$	264.00	
Labor:				
Haul top soil, shape rain garden. Lay down erosion control blanket, mulch, and plant. (Green Frog)	16 x \$30/hr	\$	480.00	(less if you help)
mileage (Green Frog)	120 x \$0.53/mile	\$	63.60	
Subtotal		\$	1,058.10	
Sales Tax	5.50%	\$	58.20	
Total		\$	1,116.30	

Native Planting 350 sq.ft.

Erosion control blanket for steep slope (Green Frog)		\$	20.00	
Natural shredded cedar or cyprus mulch (Menards)	15 bags x \$3.50/bag	\$	53.00	
Native wildflowers/ferns (Dragonfly Gardens)		\$	362.00	
	delivery	\$	50.00	(if shared with Roger Menk)
Labor:				
Lay down erosion control blanket, mulch, and plant (Green Frog)	8 x \$30/hr	\$	240.00	
mileage (Green Frog)	60 x \$0.53/mile	\$	31.80	
Subtotal		\$	756.80	
Sales Tax	5.50%	\$	41.62	
Total		\$	798.42	



Amanda Kostner
715-645-0316
amanda@greenfrogcompany.com

The Green Frog Company
Shoreland Restoration - Rain Gardens - Rain Barrels

121 8th Ave
Shell Lake, WI 54871

Hamburgher Shoreland Plan

2017

Prices from Dragonfly Gardens - Amery, WI
www.dragonflygardens.net

Rain Garden

225 sq. ft.

Site Conditions:
 mesic-wet; part sun-full shade

Common Name	Latin Name	\$ Each	# Plants	Cost Est \$	Mature Height	Bloom Color	Bloom Time	Sun	Moisture
Wildflowers									
Big Leaf Aster	<i>Aster macrophyllus</i>	\$ 1.00	32	\$ 32.00	1.5	blue	Aug - Oct	full sun - shade	dry - moist
Jack-in-the-Pulpit	<i>Arisaema triphyllum</i>	\$ 4.00	6	\$ 24.00	2.5	purple/green	May - June	part sun - shade	moist - wet
Jacob's Ladder	<i>Polemonium reptans</i>	\$ 1.00	20	\$ 20.00	1.5	blue	May - June	part sun - full shade	mesic - moist
Turtlehead	<i>Chelone glabra</i>	\$ 1.00	32	\$ 32.00	3.0	white	July - Oct	part sun - full shade	mesic - moist
Wild Columbine	<i>Aquilegia canadensis</i>	\$ 1.00	32	\$ 32.00	3.0	orange/red	May - June	full sun - shade	dry - moist
Woodland Phlox	<i>Phlox divaricata</i>	\$ 4.00	8	\$ 32.00	1.5	blue	June - July	part sun - shade	mesic - moist
Blazing Star, Marsh	<i>Liatris spicata</i>	\$ 1.00	24	\$ 24.00	3.0	purple	July-Aug	full - part sun	moist - wet
Great Blue Lobelia	<i>Lobelia spicata</i>	\$ 1.00	32	\$ 32.00	2.5	blue	July - Oct	full - part sun	moist
Ferns									
Lady Fern	<i>Athyrium filix-femina</i>	\$ 4.00	3	\$ 12.00	3.0	NA	NA	part sun - full shade	mesic - moist
Maidenhair fern	<i>Adiantum pedatum</i>	\$ 4.00	3	\$ 12.00	2.0	NA	NA	part sun - full shade	moist - wet
Royal Fern	<i>Osmunda royalis</i>	\$ 4.00	3	\$ 12.00	3.0	NA	NA	full sun - full shade	mesic - moist
			195	\$ 264.00					

Prep/Planting/Care

Site Preparation: Mark out garden area according to plan drawing. Remove sod. Bring in screened top soil to level bottom and form the berms. Cover bottom of garden with 1.5 inches of shredded wood mulch. Seed the berm with no-mow EcoGrass or cover with landscape fabric and rock.

Planting: Plant wildflowers in groups of the same kind (8 plants per group), spaced approx 1 ft apart. Space ferns 2 ft apart.

Watering: Water immediately after planting. Water at least once a week in medium soils (if no rain) for the first growing season. In following years, water only when needed in dry times.

Shoreline Native Planting

350 #

Site Conditions:
 mesic; part sun-shade

Common Name	Latin Name	\$ Each	# Plants	Cost Est \$	Mature Height	Bloom Color	Bloom Time	Sun	Moisture
Shrubs									
Hazelnut	<i>Corylus americana</i>	\$ 15.00	1	\$ 15.00	8	purple	March - April	full sun - shade	dry - wet
Witch Hazel	<i>Hamelis virginiana</i>	\$ 15.00	1	\$ 15.00	4	yellow	October	part sun - full shade	mesic - moist
Wildflowers & Grasses									
Big Leaf Aster	<i>Aster macrophyllus</i>	\$ 1.00	32	\$ 32.00	1.5	blue	Aug - Oct	full sun - shade	dry - moist
Jacob's Ladder	<i>Polemonium reptans</i>	\$ 1.00	20	\$ 20.00	1.5	blue	May - June	part sun - full shade	mesic - moist
Canada Anemone	<i>Anemone canadensis</i>	\$ 1.00	20	\$ 20.00	2.0	white	May - July	full - part sun	mesic - moist
Turtlehead	<i>Chelone glabra</i>	\$ 1.00	24	\$ 24.00	3.0	white	July - Oct	part sun - full shade	mesic - moist
Coneflower, Orange	<i>Rudbeckia fulvica</i>	\$ 1.00	24	\$ 24.00	3.0	orange-yellow	July - Oct	full - part sun	mesic - moist
Prairie Onion	<i>Allium stellatum</i>	\$ 1.00	24	\$ 24.00	1.5	pink	July - Sept	full - part sun	dry - mesic

Purple Prairie Clover	<i>Dalea purpurea</i>	\$ 1.00	24	\$	24.00	2.5	purple	June - Sept	full - part sun	dry - mesic
Coneflower, Purple	<i>Echinacea purpurea</i>	\$ 1.00	32	\$	32.00	3.0	purple	July - Aug	full sun - part shade	dry - mesic
Golden Alexanders	<i>Zizia aurea</i>	\$ 1.00	32	\$	32.00	2.5	yellow	May - July	full sun - part shade	mesic - moist
Pennsylvania Sedge	<i>Carex pennsylvanica</i>	\$ 1.00	50	\$	50.00	8"			full sun - full shade	dry - mesic
Graceful Sedge	<i>Carex gracillima</i>	\$ 1.00	50	\$	50.00	2.5			full sun - full shade	mesic - moist
			334	\$	362.00					

Pre/Planting/Care

Site Preparation: Remove non-native day lilies from native planting areas. Lay down erosion control blanket in the bare soil area and top with 1 inch of mulch where possible.

Planting: In bare soil area, plant wildflowers/grasses in groups of the same kind (8 plants per group), spaced 1 ft apart. In the area with established sod, plant 1.5 ft apart. Plant shrubs at the shoreline, at least 2 ft apart.

Watering: Water immediately after planting. Water at least twice a week in medium to dry soils (more if no rain) for the first growing season. Then water only when needed in dry times.



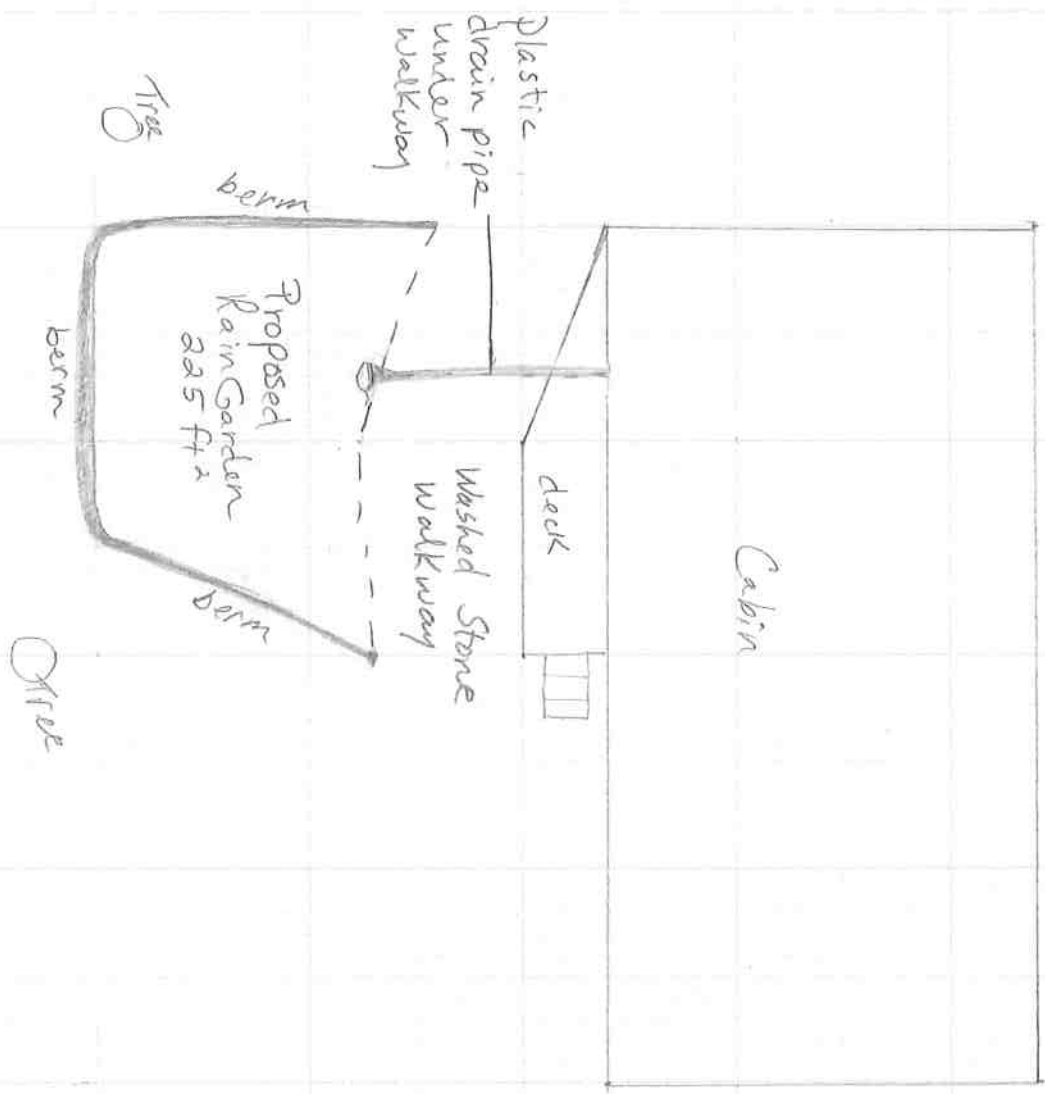
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Hamburger Rain Garden

225 ft x 6-7 in. de
Red Cedar Lake, Barron Co



Notes:

- A drain under the deck will collect runoff from other side of cabin and connect to a pipe running under the walkway to the rain garden.
- Screened top soil will need to be brought in to level the slope and form the berms.



Side View

10/07/2016

Rich Hokansan

Hi Rich,

There are several phases to the work we will do to help with rain water run-off on our property.

PROJECT #1 – Grading from entry and lakeside yard, creating walking path with rock berm.

1. \$750 - Grade and Level entrance area using crushed stone up to first stair on and entrance to cabin deck and lay pea gravel/small rock grade under all decking



Grade up to front step with crushed rock

2. \$2200 - Level and grade walking path around cabin deck to create small rock berm similar to fire pit, grade middle yard to redirect water to rain garden area.



Grade path around deck with crushed rock and river rock board starting from tree to back back cabin stairs (tiki torches are a rough guide for width of path)



Rain garden would have rock base with some larger rocks for interest, plants would be added over time. Most likely I would use a mix of: yellow coneflower (*ratibida pinnata*), black eyed susan, False Indigo (*Baptisia*), and prairie blazing star, I've not included the cost for any rain garden plants at this time.

Central yard would be graded to redirect water to side rain garden. You can see natural divot where rain garden would extend. Red Arrows indicate approximate size

PROJECT #2 – Lake Shore Restoration

The lake shore restoration project consists of labor and materials or plants required to repair area on property where former cabin owner attempted to dig out an area on lakeshore to build a boat house that was not approved first with the DNR or county.

1. Remove twigs and debris from area. Haul load to dump.

STATUS: John cleared twigs and debris from area in late May. This took him two long work days (18 hours) He then loaded our trailer and hauled load to dump (\$40) We will plant common day lilies (*Hemerocallis fulva*) to fill in the area. I've not priced these or budgeted for how many we would need. We planted the area above the damaged area with about 40 plants last spring but this still didn't seem to make a dent. My guess is we would need 25-40 plants to fill the area depending on density required.

Before



