

## **Project Approval Form**

Please complete pages 1-2 of this form and the page(s) specific to your projects.

- Review the Project Requirements boxes on each project page for guidance on design and installation requirements.
- City of Kirkland staff will contact you with project approval within 2 weeks. Approval
  may include required changes to the plan that ensure your project meets
  qualifications.
- Projects that are installed without completed and approved project approval forms will not receive a rebate.

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☐ Cisterns - page 7

☐ Rain garden - page 9

Name
Phone
Email
Project Address
This form is being submitted for the following project(s) (check all that apply):
□ Native landscaping - page 3



#### Send signed and completed form to:

YardSmart@kirklandwa.gov

-or-

Aaron Hussmann City of Kirkland 123 5<sup>th</sup> Ave Kirkland, WA 98033

#### **Materials and Services - Estimated Costs**

Please itemize materials and services, e.g. mulch, labor, plants, etc.

- Attach extra pages, if needed.
- You may attach a detailed, itemized contractors' estimate instead of an itemized list.

Materials/Item	Description	Units (yards, hours, etc.)	Price per unit	Cost
Projected total co	ost:			
Statement of U	nderstanding			
Complete and sign processed.	n the Statement of Understanding	g below. Uns	igned forms	will not be
I, best of my ability.		completed th	nis form accu	ırately to the
	after the project is completed, the land and rebate paperwork must b		_	ust be inspected
Property Owner's	Signature		Date	

Print completed document & sign

#### **Native Landscaping**

#### **Project Requirements** Location ☐ Must be combined with disconnecting minimum 400 square feet (800 sf for non-single family residential) of roof area or other impervious surface from City stormwater drainage system. Note: Max of 700sf per downspout unless approved by City. Landscaping must be in flow path of newly disconnected area. ☐ Landscaping area must be at least 20% of the size of impervious area draining to the landscaping (i.e. Draining 400 square feet of roof area requires 80 square of new native landscaping). ☐ On private property, outside of the public right of way (exceptions made on a case-bycase basis and may require additional permits). ☐ Call 811 for utility locates before you dig. ☐ Locate trees and shrubs 10' from known underground utilities, 10' from buildings, 10' from property lines, 30' from corner curb, 20' from streetlights and other trees ☐ Trees planted under power lines must be less than 25' tall at maturity ☐ Project must not send water onto a neighbor's property **Design/Installation** □ Native landscaping must replace lawn, weeds, extremely compacted soil, or pavement ☐ Lawn replacement requires either removal of or killing the grass (e.g. cardboard over a winter will kill most lawns) prior to tilling and amending soil ☐ Replacing pavement requires pavement and gravel removal, and then tilling and amending soil ☐ Minimum of 50% plant material native to the Pacific Northwest region (cultivars are acceptable). 50% of plants can be non-native but must not be invasive species ☐ Plant selection is appropriate for site conditions (sunny/shady, wet/dry, etc.) ☐ Recommended planting density Trees – 15 to 20 feet on center Shrubs – 6 to 8 feet on center Groundcover – 3 to 4 feet on center ☐ Scarify or till extremely compacted soils to a depth of 12 inches ☐ Dig 1-3 inches of compost into the top 5 inches of soil in the planting area ☐ Finish with a 3-inch plant-based mulch layer (arborists wood chips or equivalent) ☐ Do not use landscape fabric or plastic sheeting as a weed barrier Formal City of Kirkland approval required

☐ Site design plan (page 6)

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a) Who will be conducting this work?		O Property Owne	er O Contractor
b) Project Installer & conta	act info?		
Site Details			
c) What kind of surface will native landscape replace?	ll your	O Lawn O Pavement O Bare Soil O Invasive Plants	
d) Will the landscape receive runoff from a roof or impervious surface that will be disconnected from the City stormwater drainage system?		O Yes O No	
e) If yes, how many square feet of roof area or impervious surface		s	700 sf max per quare feet downspout unless
will flow to landscaping?			approved by City
will flow to landscaping?		square feet	Approved by City  Minimum 20% of impervious area (i.e. 400 sf of roof area requires 80 square
will flow to landscaping?  Sizing Details  f) Size of native			Minimum 20% of impervious area (i.e. 400 sf of roof area requires 80 square feet of native landscaping)  Minimum 1-3 inch depth

#### **Native Landscaping: Plant List**

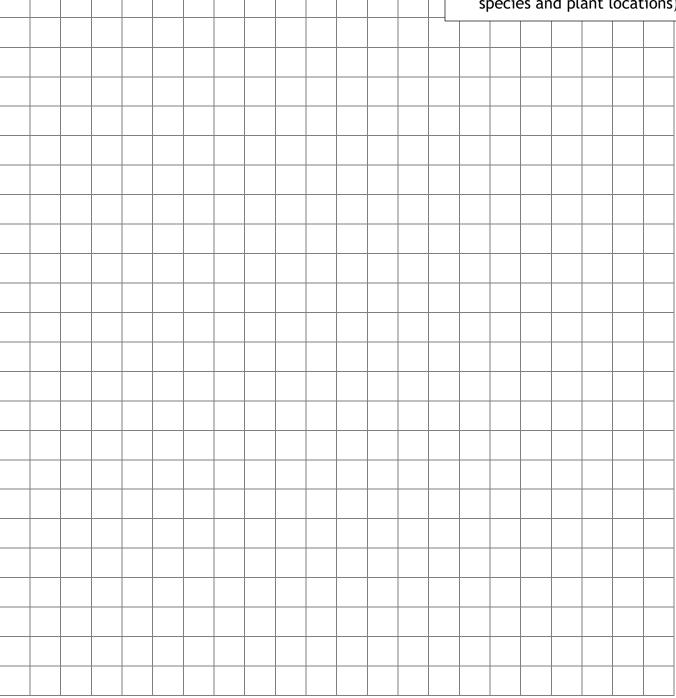
- List names of plants and quantities proposed for each planting area. Include quantity and pot size
- Identify native and non-native plants
- Include names and quantities of existing plants used in plan

Plant Species (Note native species with an "N")	Quantity	Pot Size
Ex. Red-flowering currant (N)	1	1 gallon

#### Native Landscaping: Site Design Plan

#### Include:

- Dimensions of native landscaping
- Distance from any structures
- Location descriptors (i.e. front, back, side yard)
- Planting plan (include plant species and plant locations)



Scale drawing to: 1/4 in = 1ft **OR** 1/8 in = 1 ft **OR** 1 in = 10 ft

## **Cisterns**

Project Requirements
Water can be used for irrigation only (i.e. not drinking water)
Location
<ul> <li>□ On private property, outside of the public right of way</li> <li>□ At least 5 feet from property line</li> <li>□ Above ground</li> <li>□ Cisterns must be installed on a solid, level concrete pad or other surface that will not allow the cistern to sink or tip</li> <li>□ Overflow drains onto a pervious surface (grass, garden, rain garden, etc.)</li> </ul>
☐ Overflow drainage outlet directed a minimum of 5 feet away from foundation ☐ Project does not send water onto neighbor's property
Design
☐ Cistern must drain a minimum roof area of 400 square feet.  ○ Roof area must be newly disconnected from City stormwater drainage system  ☐ Cistern size: 200 to 1,000 gallons
☐ Cistern size: 200 to 1,000 gallons ☐ Secure lid
☐ Drain valve at bottom of tank for releasing water slowly — valve must remain open during the "wet season" months of October-May
<ul><li>□ Overflow with pipe that drains onto a pervious surface (grass, garden, etc.)</li><li>□ Clear access for clearing the inlets when necessary</li></ul>
Formal City of Kirkland approval required

#### **Cisterns**

a) Who will be conducting this work?	O Property Owner	O Contractor
b) Project Installer & contact info?		

#### **System Specifications**

c) What is the capacity of the cistern(s)?	gallons	At least 200 gallons
d) What is the size of roof area draining to cistern(s)?	square feet	Minimum 400 square feet
e) What material will be used for the cistern foundation?		Concrete pad, packed earth or sand, etc.
f) Size of foundation?	square feet	
g) Describe filtration system components		
h) Where will cistern's overflow be directed to?		Direct a minimum 5 feet away from foundation

#### **Required Supporting Documents**

Ц	An image of the cistern (e.g. an image from a website)
	Sketch indicating proposed location of cistern, in relation to buildings and other structures

## **Rain Gardens**

Project Requirements:
<ul> <li>Location</li> <li>□ Call 811 for utility locates before you dig. Do not locate garden above utilities</li> <li>□ Installed in location which passes a soil drainage test         <ul> <li>1 to 2 inches per hour is preferred, 0.5 inches per hour minimum</li> <li>□ Garden located on a slope not greater than 10% (a 1 foot drop over 10 feet length)</li> <li>□ Minimum setback of 10 feet from top of rain garden to buildings, 10 feet from utilities, and 5 feet from property lines. Minimum setback of 15 feet from buildings with crawl space or basement elevation that are below the overflow point of the infiltration system</li> </ul> </li> </ul>
<ul> <li>□ Minimum setback of 50 feet from any slope greater than 20%</li> <li>□ Do not locate immediately upslope of buildings</li> <li>□ Locate on private property, outside of the public right of way</li> </ul>
Design/Installation
☐ Lawn replacement requires either removal of or killing the grass (e.g. cardboard over a winter will kill most lawns) prior to tilling and amending soil
☐ Replacing pavement requires pavement and gravel removal, and then tilling and amending soil
□ Rain garden is designed per the latest <i>Rain Garden Handbook for Western Washington</i> □ Rain garden must drain a minimum of 400 square feet or 800 square feet for multifamily or non-residential property
□ Never send more than 1,000 square feet of roof or driveway runoff to a single rain garden
☐ Garden ponding area is 6 to 12 inches deep ☐ 4 inches of amended soil tilled into upper 12 inches of soil or 12 inches of 60% sand, 40% compost blend
<ul> <li>☐ Maximum bottom slope of garden is 0.5%</li> <li>☐ Minimum 1-foot depth between bottom of bioretention soil mix and water table</li> </ul>
<ul> <li>No invasive plant species</li> <li>Plants selection is appropriate for site conditions and placed in appropriate zones of rain garden</li> </ul>
☐ Install streambed cobble at inlet and overflow to dissipate runoff ☐ Finished with a plant-based mulch layer of 3"
□ Do not use landscape fabric or plastic sheeting as weed barrier
Formal City of Kirkland approval required

#### **Rain Gardens**

Who will be conducting this work?	O Property Owner	O Contractor
Landscape Designer & contact info?		
Project Installer & contact info?		

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What kind of su	ırface will your rain garde	n replace? (choose	one)
O Lawn	O Pavement	O Bare Soil	O Invasive Plants

#### **Sizing Summary**

Refer to Rain Garden Handbook for Western Washington to complete this section

Sizing Calculations				
A. Soil drainage rate	inches per hour	Use results of soil drainage test		
B. Area draining to rain garden	square feet	See pages 18-19 of Handbook		
C. Desired ponding depth	inches	Designer's preference (6" or 12")		
D. Desired performance level	BEST			
E. Rainfall region	Region 2	See map on page 22 of Handbook		
F. Sizing factor	%	Use sizing chart on page 21 of Handbook		
G. Soil texture		Sand, silt or clay?		
Results/ Rain Garden Dimension	ns			
Required size of top surface of ponding area	square feet	Multiply area draining to garden (B) by sizing factor (F)		
Design dimensions for top surface of ponding area	' Width X' Length	Dimension that fit in available space & based on designer preference		
Overflow containment area	' Width X' Length	Calculated by adding 1 foot horizontal to all sides for the 6- inch vertical depth required on a 2:1 slope. See page 24 of Handbook		

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How will water	be delivered	to your rain	garden?	
O Pipe	○ Cistern	<ul><li>Swale</li></ul>	<ul> <li>Other</li> </ul>	

#### **Rain Gardens**

#### **Soil Amendments**

Amount of rain garden soil mix needed	cubic yards	4-inch or 12-inch depth  Multiply top surface of ponding area by proposed soil depth.  Divide result by 324
Amount of <b>mulch</b> needed	cubic yards	3-inch depth  Multiply top surface of ponding area by proposed mulch depth.  Divide result by 324

Regu	ired	Supp	orting	Documen	ts

2-3 "before" images of your rain garden area
Plant List (page 12)
Site Design Plan (page 13)

#### **Rain Gardens:** Plant List

- List plants proposed for rain garden. Include quantity and pot size
- Identify native and non-native plants

Plant Species (Note native species with an "N")	Quantity	Pot Size
Ex. Red-flowering currant (N)	1	1 gallon

# Rain Gardens: Site Design Plan • dimensions of the rain garden distance from any structures • location descriptors (i.e. front, back, side yard) location of inlet and overflow of garden and how water will be conveyed to the garden planting plan (include plant species and plant locations)

Include:

Scale drawing to: 1/4 in = 1ft OR 1/8 in = 1 ft OR 1 in = 10 ft