

# APPENDIX A - TABLES

## *Stormwater Facility and Plant List*

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## A.4 Stormwater Facility Plant List

### A.4.1. Selecting Plants

The plant lists provided in the following tables are separated by facility type (such as planters, rain gardens, green roof, etc.). Each facility list includes a suitability matrix for limiting contextual factors (such as moisture zones and width of facility) as well as a listing of specific characteristics for each species, including an indication as a native to the area, if it is evergreen, its average height and a recommended on-center spacing.

The following characteristics are included in plant matrices to aid in plant selection:

- **Botanical name, Common Name:** Plants are listed by their botanical name first, in italics, followed by a generally accepted common name. Note that common names vary, so use of the botanical name is recommended to ensure proper plant selection
- **Zone:** Denotes the planting moisture zone as noted in the facility diagrams in **Section A.1.8**. Some plants work in multiple moisture zones, and others only in a particular dry, moist, or wet condition.
- **Origin:** As described in **Section A.1.2**, the distinction between Northwest native plants, cultivated varieties of Northwest Natives, and plants that are non-native but adapted to our specific climate.
- **Type/Size:** A range of factors to aid in plant selection showing individual plant characteristics:
  - *(E)vergreen/(D)eciduous:* Identifies the characteristic of a plant to keep foliage during winter months. Planting placement and selection should maintain a balance of evergreen and deciduous materials.
  - *Potential Height:* Maximum size at maturity to use as a design guideline.
  - *On-Center Spacing:* Optimum spacing for new plantings. This is to be used as a guideline and may vary slightly depending on site conditions.
- **Context Factors**
  - *Facilities less than 3 feet wide:* Narrow conditions require plants that are too large and will outgrow or have potential for roots to damage, narrow planters.
  - *Fully Lined Facility:* Limit larger material or plants with aggressive roots:
  - *Parking Area:* Use plant materials that do not limit necessary line of sight visibility.
  - *Streets:* Use plant materials that do not limit necessary line of sight visibility.
  - *Adjacent to Buildings:* Limit plants that are too large for areas next to buildings and would not be compatible with building footings, windows or other systems.

**TABLE 1: Stormwater Facility Plant List: Planters (Infiltration and Filtration)**

Planters (infiltration and filtration)	Zone	Origin			Type/Size		Context Factors								
		Photo	Moisture zone (A) Uniformly wet to moist	NW native	NW native cultivar	Non-native adapted	(E)vergreen / (D)eciduous	Potential height	Typical on center spacing	Facilities < 3 feet wide	Fully-lined facility	Parking areas	Streets	Adjacent to buildings	In buffer area
<b>Herbaceous Plants</b>															
<i>Carex densa</i> , Dense sedge		•	•			E	24"	12"	•	•	•	•	•	•	•
<i>Carex rupestris</i> , Curly sedge	x	•			•	D	14"	12"	•	•	•	•	•	•	
<i>Carex testacea</i> , New zealand orange sedge		•			•	E	24"	12"	•	•	•	•	•	•	
<i>Eleocharis ovata</i> , Ovate spike rush		•	•			E	30"	12"	•	•	•	•	•	•	•
<i>Juncus ensifolius</i> , Dagger-leaf rush		•			•	D	10"	12"	•	•	•	•	•	•	
<i>Juncus patens</i> , Spreading rush	x	•	•			E	36"	12"	•	•	•	•	•	•	•
<b>Shrubs/Groundcover</b>															
<i>Cornus sericea</i> , Red twig dogwood		•	•			D	6'	4'			•		•	•	
<i>Cornus sericea 'Kelsey'</i> , Kelsey dogwood		•		•		D	24"	24"	•	•	•	•	•	•	
<i>Mahonia aquifolium</i> , Oregon grape		•	•			E	5'	3'		•	•	•	•	•	•
<i>Physocarpus capitatus</i> , Pacific ninebark		•	•			D	10'	3'		•				•	•
<i>Polystichum munitum</i> , Sword fern	x	•	•			E	2'	2'	•	•	•	•	•	•	•
<i>Rosa pisocarpa</i> , Swamp rose		•	•			D	8'	3'		•			•	•	•
<b>Large Shrubs/Small Trees</b>															
<i>Rubus spectabilis</i> , Salmonberry		•	•			D	10'	4'		•				•	•
<i>Salix lucida</i> var. ' <i>Lasiandra</i> ', Pacific willow		•		•		D	13'	6'							
<i>Salix purpurea nana</i> , Blue arctic willow		•			•	D	8'	6'			•				
<i>Salix sitchensis</i> , Sitka willow		•	•			D	20'	6'							•
<i>Spirea douglasii</i> , Douglas spiraea		•	•			D	7'	4'		•			•	•	•
<i>Viburnum edule</i> , Highbush cranberry		•	•			D	6'	4'		•	•	•			•
<b>Trees</b>															
<i>Acer circinatum</i> , Vine maple		•	•			D	15'	10'	•	•	•		•	•	•
<i>Acer rubrum</i> , Red maple		•			•	D	40'	25'		•	•	•			
<i>Alnus rubra</i> , Red alder		•	•			D	80'	15'			•				•
<i>Crataegus douglasii</i> , Black hawthorn		•	•			D	40'	10'		•	•				•
<i>Fraxinus latifolia</i> , Oregon ash		•	•			D	30'	20'			•				•
<i>Malus fusca</i> , Pacific crabapple		•	•			D	30'	10'	•	•	•				•
<i>Nyssa sylvatica</i> , Black tupelo		•			•	D	25'	20'			•	•			
<i>Salix hookeriana</i> , Hooker's willow		•	•			D	15'	10'			•				•
<i>Thuja plicata</i> , Western red cedar		•	•			E	150'	25'			•				•

**TABLE 2: Stormwater Facility Plant List: Rain Gardens and Swales (Infiltration and Filtration)**

Rain Gardens and Swales (infiltration and filtration)	Zone		Origin				Type/Size		Context Factors					
	Moisture zone (A) Uniformly wet to moist	Moisture zone (B) Drier transitional area	NW native	NW native cultivar	Non-native adapted	Evergreen/Deciduous	Potential height	Typical on center spacing	Facilities < 3 feet wide	Fully-lined facility	Parking areas	Streets	Adjacent to buildings	In buffer area
<b>Plant Name</b> <i>Botanical, common</i>														
<b>Herbaceous Plants</b>														
<i>Carex obnupta</i> , Slough sedge	•		•			E	48"	12"		•	•	•	•	•
<i>Carex testacea</i> , New Zealand orange sedge	•				•	D	24"	12"		•	•	•	•	
<i>Deschampsia cespitosa</i> , Tufted hair grass	•		•			D	36"	12"	•	•	•	•	•	•
<i>Elymus glaucus</i> , Blue wild rye	•	•	•			E	24"	12"	•	•	•	•	•	•
<i>Juncus ensifolius</i> , Dagger-leaf rush	•				•	D	10"	12"	•	•	•	•	•	
<i>Juncus patens</i> , Spreading rush	•	•			•	E	36"	12"	•	•	•	•	•	
<i>Scirpus microcarpus</i> , Small fruited bulrush	•		•			E	24"	12"	•	•	•	•	•	•
<b>Small Shrubs/Groundcover</b>														
<i>Arctostaphylos uva-ursi</i> , Kinnickinnick		•	•			E	6"	12"	•	•	•	•	•	•
<i>Cornus sericea 'Kelsey'</i> , Kelsey dogwood	•	•		•		D	2'	12"	•	•	•	•	•	
<i>Fragaria chiloensis</i> , Coastal strawberry		•	•			E	6"	12"	•	•	•	•	•	•
<i>Mahonia aquifolium</i> , Oregon grape	•	•	•			E	5'	3'		•	•	•	•	•
<i>Physocarpus capitatus</i> , Pacific ninebark	•		•			D	6'	3'		•				•
<i>Polystichum munitum</i> , Sword fern	•	•	•			E	2'	2'	•	•	•	•	•	•
<i>Spirea betulifolia</i> , Birchleaf spiraea	•	•	•			D	2'	2'	•	•	•	•	•	•
<i>Symphoricarpos alba</i> , Snowberry	•	•	•			D	3'	3'	•	•	•	•	•	•
<b>Large Shrubs/Small Trees</b>														
<i>Cornus sericea</i> , Red-Twig dogwood	•	•	•			D	6'	4'						•
<i>Holodiscus discolor</i> , Western serviceberry	•	•	•			D	6'	4'		•	•	•		•
<i>Rosa nutkana</i> , Nootka rose	•	•	•			D	8'	4'		•		•		•
<i>Omleria cerasiformis</i> , Indian plum	•		•			D	6'	4'		•	•	•		•
<i>Ribes sanguineum</i> , Red flowering currant	•	•	•			D	8'	4'		•	•	•	•	•
<i>Salix sitchensis</i> , Sitka willow	•		•			D	15'	5'						•
<i>Spirea douglasii</i> , Douglas spiraea		•	•			D	7'	4'		•	•	•	•	•
<b>Trees</b>														
<i>Acer circinatum</i> , Vine maple	•	•	•			D	15'	8'	•	•	•	•	•	•
<i>Alnus rubra</i> , Red alder	•	•	•			D	80'	20'					•	•
<i>Cornus nuttallii</i> , Pacific dogwood	•	•	•			D	20'	10'	•	•	•	•	•	•
<i>Fraxinus latifolia</i> , Oregon ash	•		•			D	30'	25'						•
<i>Malus fusca</i> , Pacific crabapple	•		•			D	30'	10'	•	•			•	•
<i>Pseudotsuga menziesii</i> , Douglas fir	•	•	•			E	200'	30'						•
<i>Thuja plicata</i> , Western red cedar	•	•	•			E	150'	20'			•			•

**TABLE 3: Stormwater Facility Plant List: Constructed Wet Ponds**

Constructed Wet Ponds	Zone			Origin				Type/Size		Context Factors					
	Moisture zone (S) Saturated/permanent pool	Moisture zone (A) Uniformly wet to moist	Moisture Zone (B) Drier transitional area	NW native	NW native cultivar	Non-native adapted	(E)vergreen/(D)eciduous	Potential height	Typical on center spacing	Facilities < 3 feet wide	Fully-lined facility	Parking areas	Streets	Adjacent to buildings	In buffer area
<b>Herbaceous Plants</b>															
<i>Alisma plantago-aquatica</i> , Water plantain	•			•			D	24"	12"	•	•				•
<i>Camassia quamash</i> , Camas lily		•	•	•			D	24"	12"	•	•	•	•	•	•
<i>Carex obnupta</i> , Slough sedge	•	•		•			E	48"	12"		•	•	•	•	•
<i>Deschampsia cespitosa</i> , Tufted hair grass		•		•			D	36"	12"	•	•	•	•	•	•
<i>Eleocharis ovata</i> , Ovate spike rush	•			•			E	30"	12"	•	•				•
<i>Elymus glaucus</i> , Blue wild rye		•	•	•			E	24"	12"	•	•	•	•	•	•
<i>Juncus ensifolius</i> , Dagger-leaf rush	•	•				•	D	10"	12"	•	•	•	•	•	
<i>Juncus patens</i> , Spreading rush	•	•	•			•	E	36"	12"	•	•	•	•	•	
<i>Sagittaria latifolia</i> , Wapato	•			•			D	24"	12"	•	•				•
<i>Scirpus acutus</i> , Hardstem bulrush	•					•	D	10"	12"	•	•				
<i>Scirpus microcarpus</i> , Small fruited bulrush	•	•		•			E	24"	12"	•	•	•	•	•	•
<i>Veronica liwanensis</i> , Speedwell		•				•	D	2"	12"	•	•	•	•	•	
<b>Small Shrubs/Groundcover</b>															
<i>Cornus sericea 'Kelsey'</i> , Kelsey dogwood	•	•	•		•		D	2'	1'	•	•	•	•	•	•
<i>Mahonia aquifolium</i> , Oregon grape		•	•	•			E	5'	3'		•	•	•	•	•
<i>Physocarpus capitatus</i> , Pacific ninebark	•	•		•			D	6'	3'		•				•
<i>Polystichum munitum</i> , Sword fern		•	•	•			E	2'	2'	•	•	•	•	•	•
<i>Spiraea betulifolia</i> , Birchleaf spiraea		•	•	•			D	2'	2'	•	•	•	•	•	•
<i>Smphoricarpus alba</i> , Snowberry		•	•	•			D	3'	3'	•	•	•	•	•	•
<b>Large Shrubs/Small Trees</b>															
<i>Cornus sericea</i> , Red-Twig Dogwood	•	•	•	•			D	6'	4'						•
<i>Holodiscus discolor</i> , Western serviceberry		•	•	•			D	6'	4'		•	•	•		•
<i>Rosa nutkana</i> , Nootka rose		•	•	•			D	8'	4'		•		•		•
<i>Omleria cerasiformis</i> , Indian plum		•		•			D	6'	4'		•	•	•		•
<i>Ribes sanguineum</i> , Red flowering currant		•	•	•			D	8'	4'		•	•	•	•	•
<i>Salix sitchensis</i> , Sitka willow	•	•		•			D	15'	5'						•
<i>Spiraea douglasii</i> , Douglas Spiraea			•	•			D	7'	4'		•	•	•	•	•
<i>Ceanothus velutinus</i> , Snowbrush		•	•	•			E	6'	3'		•	•	•	•	•
<b>Trees</b>															
<i>Acer circinatum</i> , Vine maple		•	•	•			D	15'	8'	•	•	•	•	•	•
<i>Acer rubrum</i> , Red Maple	•	•	•			•	D	40'	25'		•	•	•		
<i>Alnus rubra</i> , Red alder	•			•			D	80'	20'					•	•
<i>Cornus nuttallii</i> , Pacific Dogwood		•	•	•			D	20'	10'	•	•	•	•	•	•
<i>Fraxinus latifolia</i> , Oregon Ash	•	•		•			D	30'	25'						•
<i>Malus fusca</i> , Pacific Crabapple	•	•		•			D	30'	10'	•	•			•	•

**TABLE 3: Stormwater Facility Plant List: Constructed Wet Ponds**

Constructed Wet Ponds	Zone			Origin				Type/Size		Context Factors					
	Moisture zone (S) Saturated/permanent pool	Moisture zone (A) Uniformly wet to moist	Moisture Zone (B) Drier transitional area	NW native	NW native cultivar	Non-native adapted	(E)vergreen/(D)eciduous	Potential height	Typical on center spacing	Facilities < 3 feet wide	Fully-lined facility	Parking areas	Streets	Adjacent to buildings	In buffer area
<b>Plant Name</b> <b>Botanical, common</b>															
<i>Pseudotsuga menziesii</i> , Douglas fir		•	•	•			E	200'	30'						•
<i>Thuja plicata</i> , Western red cedar	•	•	•	•			E	150'	20'			•			•

**TABLE 4: Stormwater Facility Plant List: Vegetated Filter Strips**

Vegetated Filter Strips	Zone		Origin				Type/Size		Context Factors					
	Moisture zone (A/B) Dry to moist on slope	NW native	NW native cultivar	Non-native adapted	(E)vergreen/(D)eciduous	Potential height	Typical on center spacing	Facilities < 3' wide	Fully-lined facility	Parking areas	Streets	Adjacent to buildings	In buffer area	
<b>Plant Name</b> <b>Botanical, Common</b>														
<b>Herbaceous Plants</b>														
<i>Aster suspicatus</i> , Douglas' aster	•	•			D	36"	12"	•	•	•	•	•	•	
<i>Camassia quamash</i> , Camas lily	•	•			D	24"	12"	•	•	•	•	•	•	
<i>Deschampsia caespitosa</i> , Tufted hair grass	•	•			D	36"	12"	•	•	•	•	•	•	
<i>Festuca rubra</i> , Red fescue	•	•			E	24"	12"	•	•	•	•	•	•	
<i>Elymus glaucus</i> , Blue wild rye	•	•			E	24"	12"	•	•	•	•	•	•	
<i>Juncus patens</i> , Spreading rush	•			•	E	36"	12"	•	•	•	•	•		
<i>Lupinus polyhyllus</i> , Large-leaved lupine	•	•			D	36"	12"	•	•	•	•	•	•	
<i>Sedum oregonum</i> , Oregon stonecrop	•	•			E	4"	12"	•	•	•	•	•	•	
<i>Sisyrinchium californicum</i> , Yellow-eyed grass	•	•			E	4"	12"	•	•	•	•	•	•	
<i>Veronica liwanensis</i> , Speedwell	•			•	D	2"	12"	•	•	•	•	•		
<b>Small Shrubs/Groundcover</b>														
<i>Cornus sericea</i> 'Kelsey', Kelsey dogwood	•		•		D	2'	12"	•	•	•	•	•		
<i>Fragaria chiloensis</i> , Coastal strawberry	•	•			E	6"	12"	•	•	•	•	•	•	
<i>Gaultheria shallon</i> , Salal	•	•			E	24"	24"	•	•	•	•	•	•	
<i>Mahonia aquifolium</i> , Oregon grape	•	•			E	5'	3'		•	•	•	•	•	
<i>Physocarpus capitatus</i> , Pacific ninebark	•	•			D	6'	3'		•				•	
<i>Polystichum munitum</i> , Sword fern	•	•			E	2'	2'	•	•	•	•	•	•	
<i>Rosa pisocarpa</i> , Swamp rose	•	•			D	8'	3'		•	•			•	
<i>Spirea betulifolia</i> , Birchleaf spiraea	•	•			D	2'	2'	•	•	•	•	•	•	
<i>Symphoricarpos alba</i> , Snowberry	•	•			D	3'	3'	•	•	•	•	•	•	
<b>Large Shrubs/Small Trees</b>														
<i>Cornus sericea</i> , Red-Twig dogwood	•	•			D	6'	4'						•	
<i>Holodiscus discolor</i> , Western serviceberry	•	•			D	6'	4'		•	•	•		•	
<i>Omleria cerasiformis</i> , Indian plum	•	•			D	6'	4'		•	•	•		•	
<i>Ribes Sanguineum</i> , Red flowering currant	•	•			D	8'	4'		•	•	•	•	•	
<i>Salix stichensis</i> , Sitka willow	•	•			D	15'	5'						•	
<i>Salix purpurea nana</i> , Blue arctic willow	•			•	D	8'	6'			•	•	•		
<i>Ceanothus sanguineum</i> , Redstem ceanothus	•	•			E	7'	3'		•	•	•	•	•	

**TABLE 4: Stormwater Facility Plant List: Vegetated Filter Strips**

Vegetated Filter Strips	Zone	Origin				Type/Size		Context Factors						
		Moisture zone (A/B) Dry to moist on slope	NW native	NW native cultivar	Non-native adapted	(E)vergreen/(D)eciduous	Potential height	Typical on center spacing	Facilities < 3' wide	Fully-lined facility	Parking areas	Streets	Adjacent to buildings	In buffer area
<b>Plant Name</b> <b>Botanical, Common</b>														
<b>Trees</b>														
<i>Acer circinatum</i> , Vine maple	•	•			D	15'	8'	•	•	•	•	•	•	
<i>Alnus Rubra</i> , Red alder	•	•			D	80'	20'					•	•	
<i>Cornus nuttallii</i> , Pacific dogwood	•	•			D	20'	10'	•	•	•	•	•	•	
<i>Fraxinus Latifolia</i> , Oregon ash	•	•			D	30'	25'						•	
<i>Malus Fusca</i> , Pacific crabapple	•	•			D	30'	10'	•	•			•	•	
<i>Pseudotsuga menziesii</i> , Douglas fir	•	•			E	200'	30'						•	
<i>Thuja plicata</i> , Western red cedar	•	•			E	150'	20'			•			•	



**TABLE 5: Stormwater Facility Plant List: Green Roofs**

Green Roofs	Zone		Origin				Type/Size	
	Moisture Zone (C) Extensive Ecoroof	Moisture zone (D) Intensive Roof Garden	NW native	NW native cultivar	Non-native adapted	(E)vergreen/(D)eciduous	Potential height	Typical on center spacing
<b>Plant Name</b> <b>Botanical, common</b>								
<b>Sedums and Succulents</b>								
<i>Delosperma ssp.</i> , Ice plant	•	•			•	E	4"	6-12"
<i>Malephora crocea v. purpureo</i> , Coppery mesemb	•	•			•	E	10"	6-12"
<i>Sedum acre</i> , Biting stonecrop	•				•	E	2"	6-12"
<i>Sedum album</i> , White stonecrop	•				•	E	3"	6-12"
<i>Sedum divergens</i> , Pacific stonecrop	•				•	E	3"	6-12"
<i>Sedum hispanicum</i> , Spanish stonecrop	•				•	E	3"	6-12"
<i>Sedum kamtschaticum</i> , Kirin-so	•	•			•	D	6"	6-12"
<i>Sedum oreganum</i> , Oregon stonecrop	•	•	•			E	4"	6-12"
<i>Sedum sexangulare</i> , Tasteless stonecrop	•	•			•	E	4"	6-12"
<i>Sedum spathulifolium</i> , Stonecrop	•	•			•	E	4"	6-12"
<i>Sedum spurium</i> , Two-row stonecrop	•	•			•	E	6"	6-12"
<i>Sempervivum tectorum</i> , Hens and chicks	•				•	E	3"	6-12"
<b>Herbaceous Plants</b>								
<i>Achillea millefolium</i> , Common yarrow	•	•			•	D	24"	24"
<i>Artemisia 'Silver Mound'</i> , Artemesia	•	•			•	D	12"	12"
<i>Castilleja foliosa</i> , Indian paintbrush	•	•	•			D	10"	12"
<i>Dianthus ssp.</i> , Dianthus	•				•	D	12"	12"
<i>Erigeron discoideus</i> , Fleabane	•				•	D	12"	12"
<i>Festuca glauca 'Elijah's Blue'</i> , Elijah's blue fescue	•	•			•	E	12"	12"
<i>Fragaria chiloensis</i> , Coastal strawberry	•	•	•			E	6"	12"
<i>Gilia capitata</i> , Blue thimble flower	•		•			D	12"	12"
<i>Lobularia maritima</i> , Sweet alyssum	•				•	D	12"	12"
<i>Polystichum munitum</i> , Sword fern	•	•	•			E	24"	24"
<i>Thymus serpyllum</i> , Creeping thyme	•				•	D	3"	6"
<i>Veronica liwanensis</i> , Speedwell	•				•	D	2"	6"