Table F.5. Plant Species Appropriate for Rarely Inundated Areas of Bioretention Facility.				
Species Common Name	Exposure	Mature Size	Time of Bloom	Comments
		Т	rees	
Arbutus unedo Strawberry tree	Sun/ partial shade	8 to 35 feet 8- to 20-foot spread	November – December	Tolerant of extremes; tolerant of urban/ industrial pollution; white or greenish white flowers.
<i>Calocedrus decurrens</i> * Incense cedar	Sun	75 to 90 feet 12-foot spread		Tolerant of poor soils; drought tolerant after established; fragrant evergreen with a narrow growth habit; slow growing.
<i>Chamaecyparis obtusa </i> Hinoki false cypress	Sun/ partial shade	40 to 50 feet 15- to 30-foot spread		Moist, loamy, well-drained soils; very slow growing; prefers sun, but tolerates shade; does not transplant well or do well in alkaline soils. Note there are many alternative varieties of false cypress of varying sizes and forms from which to choose.
<i>Cornus</i> spp. Dogwood	Sun/ partial shade	20 to 30 feet 30-foot spread	Мау	Reliable flowering trees with attractive foliage and flowers; may need watering in dry season; try <i>C. florida</i> (Eastern dogwood), or <i>C. nuttallii</i> * (Pacific dogwood) or hybrid "Eddie's White Wonder." Also, <i>C. kousa</i> for small tree/ shrub that is resistant to anthracnose.
<i>Pinus mugo</i> Swiss mountain pine	Sun/ partial shade	15 to 20 feet 25 to 30-foot spread		Prefers well-drained soil; slow growing, broadly spreading, bushy tree; hardy evergreen.
Pinus thunbergiana Japanese black pine	Sun	To 100 feet 40-foot spread		Dry to moist soils; hardy; fast growing.
<i>Prunus emarginata</i> * Bitter cherry	Sun/ partial shade	20 to 50 feet 20-foot spread	May – June	Dry or moist soils; intolerant of full shade; bright red cherries are attractive to birds; roots spread extensively.
<i>Prunus virginiana</i> Choke cherry		15 to 25 feet 15- to 20-foot spread	Late spring – early summer	Dry or moist soils; deep rooting; attractive white fragrant flowers; good fall color.
Pseudotsuga menziesii* Douglas-fir	Sun	100 to 250 feet 50- to 60-foot spread		Does best in deep, moist soils; evergreen conifer with medium to fast rate of growth; provides a nice canopy, but potential height will restrict placement.
Q <i>uercus garryana</i> * Oregon white oak	Sun	To 75 feet		Dry to moist, well-drained soils; slow growing; acorns.

Table F.5 (continued). Plant Species Appropriate for Rarely Inundated Areas of Bioretention Facility.				
Species Common Name	Exposure	Mature Size	Time of Bloom	Comments
		S	hrubs	
<i>Holodiscus discolor</i> * Oceanspray	Sun/ partial shade	To 15 feet	June – July	Dry to moist soils; drought tolerant; white to cream flowers; good soil binder.
<i>Mahonia aquifolium</i> * Tall Oregon grape	Sun/ partial shade	6 to 10 feet	March – April	Dry to moist soils; drought resistant; evergreen; blue-black fruit; bright yellow flowers; "Compacta" form averages 2 feet tall; great low screening barrier.
<i>Philadelphus lewisii</i> * Mock-orange	Sun/ partial shade	5 to 10 feet	June – July	Adapts to rich moist soils or dry rocky soils; drought tolerant; fragrant flowers.
Pinus mugo pumilio Mugo pine	Sun	3 to 5 feet 4- to 6-foot spread		Adapts to most soils; slow growing and very hardy; newer additions with trademark names such as "Slo-Grow" or "Lo-Mound" are also available.
Potentilla fruticosa Shrubby cinquefoil	Sun	To 4 feet	May – September	Moist to dry soils; several cultivars available with varying foliage and flower hues; try "Tangerine" or "Moonlight."
<i>Ribes sanguineum</i> * Red-flowering currant	Sun/ partial shade	8 to 12 feet	March – April	Prefers dry soils; drought tolerant; white to deep-red flowers attract hummingbirds; dark-blue to black berries; thornless.
<i>Rosa gymnocarpa</i> * Baldhip rose	Partial shade	To 6 feet	May – July	Dry or moist soils; drought tolerant; small pink to rose flowers.
	•	Shrubs	– Evergreen	
Abelia x grandiflora Glossy abelia	Partial sun/ partial shade	To 8 feet 5-foot spread	Summer	Prefers moist, well-drained soils, but drought tolerant; white or faintly pink flowers.
Arbutus unedo "Compacta" Compact strawberry tree	Sun/ partial shade	To 10 feet	Fall	Prefers well drained soils; tolerant of poor soils; good in climate extremes; white to greenish-white flowers; striking red-orange fruit.
<i>Cistus purpureus</i> Orchid rockrose	Sun	To 4 feet	June – July	Moist to dry well-drained soils; drought resistant; fast growing; reddish purple flowers.
<i>Cistus salvifolius</i> White rockrose	Sun	2 to 3 feet 6-foot spread	Late spring	Moist to dry well-drained soils preferred, but can tolerate poor soils; tolerant of windy conditions and drought; white flowers.
Escallonia x exoniensis "fradesii" Pink Princess	Sun/ partial sun	5 to 6 feet	Spring – Fall	Tolerant of varying soils; drought tolerant when established; pink to rose colored flowers; good hedge or border plant; attracts butterflies.

Table F.5 (continued). Plant Species Appropriate for Rarely Inundated Areas of Bioretention Facility.				
Species Common Name	Exposure	Mature Size	Time of Bloom	Comments
		Shrubs – Ever	green (continue	ed)
<i>Osmanthus delavayi</i> Delavay osmanthus	Sun/ partial shade	4 to 6 feet	March – May	Tolerant of a broad range of soils; attractive foliage and clusters of white fragrant flowers; slow growing.
<i>Osmanthus x burkwoodii</i> Devil wood	Sun/ partial shade	4 to 6 feet	March – April	Drought tolerant once established; masses of small, white fragrant flowers.
Rhododendron "PJM" hybrids	Sun/partial shade	To 4 feet	Mid – late April	Moist to fairly dry soils; well drained organic soil; lavender to pink flowers.
Stranvaesia davidiana	Sun	6 to 20 feet	June	Moist soils; white flowers in clusters; showy red berries.
<i>Stranvaesia davidiana</i> undulata	Sun	To 5 feet	June	Moist soils; lower growing irregularly shaped shrub; great screening plant.
<i>Vaccinium ovatum*</i> Evergreen huckleberry	Partial shade/ shade	3 to 15 feet	March	Moist to slightly dry soils; small pinkish- white flowers; berries in August.
	•	Groundcov	ver – Evergreen	
<i>Arctostaphylos uva- ursi*</i> Kinnikinnik	Sun/ partial shade		April – June	Prefers sandy/rocky, well-drained soils; flowers pinkish-white; bright red berries; slow to establish; plant closely for good results.
<i>Gaultheria shallon</i> * Salal	Partial shade/ shade	3 to 7 feet	March – June	Dry and moist soils; white or pinkish flowers; reddish-blue to dark-purple fruit.
<i>Fragaria chiloensis*</i> Wild/coastal strawberry	Sun/ partial shade	10 inches	Spring	Sandy well drained soils; flowers white; small hairy strawberries; evergreen; aggressive spreader.
Helianthemum nummularium Sunrose	Sun	To 2 feet 2-foot spread	May – July	Prefers well-drained soils, but will tolerate various soils; low-growing, woody sub shrub; many varieties are available with flowers in salmon, pink, red, yellow and golden colors.
Lavandula angustifolia Lavender	Sun/ partial shade	To 1.5 feet	June – August	Adaptable to various soils; blue, lavender, pink to white flowers, semi- evergreen aromatic perennial.
<i>Mahonia nervosa</i> * Cascade Oregon grape/ Dull Oregon grape	Partial shade/ shade	To 2 feet	April – June	Dry to moist soils; drought resistant; evergreen; yellow flowers; blue berries.

Table F.5 (continued).Plant Species Appropriate for Rarely Inundated Areas of Bioretention Facility.				
Species Common Name	Exposure	Mature Size	Time of Bloom	Comments
		Broundcover – E	vergreen (cont	inued)
<i>Mahonia repens</i> Creeping mahonia	Sun/ partial shade	3 feet	April – June	Dry to moist soils; drought resistant; yellow flowers; blue berries; native of eastern Washington.
Penstemon davidsonii* Davidson's penstemon	Sun	To 3 inches	June – August	Low-growing, evergreen perennial; prefers well-drained soils; drought tolerant; blue to purple flowers.
·		Perennials and	Ornamental Gra	asses
<i>Achillea millefolium</i> * Western yarrow	Sun	4 inches to 2.5 feet	June – September	Dry to moist, well-drained soils; white to pink/reddish flowers; many other yarrows are also available.
<i>Anaphalis margaritaceae</i> Pearly everlasting	Sun/ partial shade	To 18 inches		Drought tolerant perennial; spreads quickly; attracts butterflies.
<i>Bromus carinatus</i> * Native California brome	Sun/ partial shade	3 to 5 feet		Dry to moist soils; tolerates seasonal saturation.
Carex buchannii Leather leaf sedge	Sun/ partial shade	1 to 3 feet		Prefers well-drained soils; copper- colored foliage; perennial clumping grass; tolerant of a wide range of soils; inconspicuous flowers.
Carex comans "Frosty curls" New Zealand hair sedge	Sun/ partial shade	1 to 2 feet	June – August	Prefers moist soils; finely textured and light green; compact, clumping perennial grass; drought tolerant when established; inconspicuous flowers.
<i>Coreopsis</i> spp. Tickseed	Sun	1 to 3 feet		Dry to moist soils; drought tolerant; seeds attract birds; annual and perennial varieties; excellent cut flowers.
<i>Echinacea purpurea</i> Purple coneflower	Sun	4 to 5 feet		Prefers well drained soils; hardy perennial; may need occasional watering in dry months.
<i>Elymus glaucus</i> * Blue wildrye	Sun/ partial shade	1.5 to 5 feet		Dry to moist soils; shade tolerant; rapid developing, but short lived (1 to 3 years); not good lawn grass.
<i>Dicentra formosa</i> * Pacific bleeding- heart	Sun/shade	6 to 20 inches	Early spring – early summer	Moist, rich soils; heart-shaped flowers.
<i>Erigeron speciosus</i> * Showy fleabane	Sun/ partial shade	To 2 feet	Summer	Moist to dry soils; dark violet or lavender blooms; fibrous roots.
<i>Festuca ovina</i> "Glauca" Blue fescue	Sun/ partial shade	To 10 inches	May – June	Prefers moist, well-drained soils; blue- green evergreen grass; drought tolerant; shearing will stimulate new growth.

Table F.5 (continued).Plant Species Appropriate for Rarely Inundated Areas of Bioretention Facility.				
Species Common Name	Exposure	Mature Size	Time of Bloom	Comments
	Peren	nials and Ornam	nental Grasses (continued)
Festuca idahoensis* Idaho fescue	Sun/ partial shade	To 1 foot		Bluish-green bunching perennial grass; drought tolerant.
<i>Fragaria vesca</i> * Wood strawberry	Partial shade	To 10 inches	Late spring – early summer	Dry to moist soils; white flowers.
<i>Gaura lindheimeri</i> Gaura	Sun	2.5 to 4 feet		Perennial; fairly drought tolerant and adaptable to varying soil types; long blooming period.
Geum macrophyllum* Large-leaved avens	Sun/ partial shade	To 3 feet	Spring	Moist, well-drained soil; bright yellow flowers; other Geum cultivars available, some of which may require supplemental watering.
<i>Geranium maculatum</i> Spotted geranium	Sun/shade	To 1.5 feet	July	Moist, well-drained soils; low perennial; pale pink, blue to purple flowers.
Geranium sanguineum Cranesbill	Sun/ partial shade	To 1.5 feet	May – August	Moist soils; deep purple almost crimson flowers.
<i>Helichrysum italicum</i> Curry plant	Sun	To 2 feet	Summer	Moist or dry soils; hardy evergreen perennial; a good companion to lavender; bright yellow flowers; fragrant.
Helictotrichon sempervirens Blue oat grass	Sun/ partial shade	1 to 1.5 feet	June – August	Tolerant of a variety of soil types but prefers well-drained soil; clumping bright blue evergreen grass; bluish white flowers.
<i>Hemerocallis fulva</i> Daylilies	Sun/ partial shade	1 to 4 feet	Summer	Tolerant of a variety of soil types; easy to grow and tolerant of neglect; hardy perennial; entire plant is edible.
<i>Heuchera americana</i> Coral bells (alumroot)	Sun/ partial shade	1 to 2 feet	June – August	Moist to dry, well-drained soils; never wet; easily transplantable perennial; red, greenish-white flowers; may need supplemental watering in dry season.
Heuchera micrantha "Palace purple" (alumroot)	Sun/ partial shade	1 to 2 feet	June – August	Moist, well-drained soils; bronze to purple foliage in shade; small, yellowish- white flowers; perennial, evergreen; a number of other species and varieties are available.
<i>Lupinus</i> * spp. Lupines	Sun	3 to 5 feet	March – September	Try <i>H. sanguinea</i> for bright red flowers. Moist to dry soils; various native varieties; blue to purple, violet to white flowers; both native and nonnative varieties.

Table F.5 (continued).Plant Species Appropriate for Rarely Inundated Areas of Bioretention Facility.				
Species Common Name	Exposure	Mature Size	Time of Bloom	Comments
	Peren	nials and Ornam	ental Grasses (continued)
<i>Lupinus bicolor</i> * Two-color lupine	Sun	4 inches to 1.5 feet	Spring	Dry gravelly soils; small-flowered; annual.
<i>Lupinus latifolius</i> * Broadleaf lupine	Sun	To 1 foot	June – August	Dry to moist soils; perennial; bushy herb; bluish flowers.
<i>Lupinus polyphyllus</i> * Large-leafed lupine	Sun	To 3 feet	Spring – summer	Dry to moist, sandy to gravelly soils; perennial.
<i>Maianthemum dilatatum</i> * False lily-of-the- valley	Partial shade/ shade	3 to 12 inches	Spring	Prefers moist soils; small, white flowers; light-green to red berries.
<i>Pennisetum alopecuroides</i> Fountain grass	Sun/ partial shade	1 to 2 feet	August – September	Moist, well-drained soils; tolerant of many soil types; clump-forming grasses. A number of varieties are available in different heights and bloom times. Try <i>P. caudatum</i> (White-flowering fountain grass) and <i>P. alopecuroides</i> cultivars "Hameln" and "Little Bunny" (Dwarf fountain grass).
<i>Pennisetum oriental</i> e Oriental fountain grass	Sun/ partial shade	1 to 3 feet	June – October	Prefers moist, well-drained soils; somewhat drought tolerant; small clumping, blooming grass, showy pink flowers; fountain grasses will benefit from annual shearing in late winter/early spring, but not required.
Penstemon fruticosus Shrubby penstemon	Sun	8 to 10 inches	Мау	Prefers well-drained soils; evergreen perennial; drought tolerant; violet-blue flowers 1-inch long attract hummingbirds.
Polystichum munitum* Swordfern	Partial shade/ deep shade	2 to 4 feet		Prefers moist, rich soil conditions, but drought tolerant; large evergreen fern.
Potentilla gracilis* Graceful cinquefoil	Sun	1 to 2 feet	July	Moist to dry soils; yellow flowers.
<i>Rudbeckia hirta</i> Black-eyed Susan	Sun/ partial shade	3 to 4 feet	Summer	Moist to dry soils; showy flowers, hardy and easy to grow; several other varieties are available.
<i>Smilacina racemosa*</i> False Solomon's seal	Partial sun/ shade	1 to 3 feet	April – May	Moist soils; creamy white flowers; red berries.

*Denotes native plant species.