

Vegetation Unit Summaries for Marshall Park (MALL)

Report date: 7/29/2009 '*' = non-native invasive species

Visit data as of: 7/29/2009

Unit MALL*001

Size: 3.61 Acres
NVCS Class: Forest

NVCS Subclass: Evergreen forest

NVCS Group: Temperate needle-leaved evergreen forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northeast

Visit date: 6/12/2003

Ecological Health: Poor. **% Tree canopy:** 75%

% Non-Native Cover: not recorded

Management Note:

Take out hand made log bridge over stream.

Eco Note:

ACPL located north east bank of stream.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives, Soil Compaction, Domestic Animals, Litter, Stream Bank Erosion, Informal Trails.

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	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	>30"		
Thuja plicata (western red cedar)	20% to 50%	Y	20-30"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Tsuga heterophylla (western hemlock)	10% to 20%		20-30"		
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"		
Prunus laurocerasus (English laurel)	10% to 20%				
Prunus avium (sweet pie cherry)	1% to 10%		0-5"		
Athyrium filix-femina (ladyfern)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus spectabilis (salmonberry)	1% to 10%				
Acer platanoides (Norway maple)	trace		0-5"		
Acer circinatum (vine maple)	trace				
Adiantum pedatum (maidenhair fern)	trace				
Corylus avellana (common filbert)	trace				
Corylus cornuta (western beaked hazelnut)	trace				
Ranunculus repens (creeping buttercup)	trace				
Rubus parviflorus (thimbleberry)	trace				
Spiraea douglasii (Douglas' spiraea)	trace				
Veronica americana (American brooklime)	trace				

Unit MALL*002

Size: 4.29 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd

Slope: Steep (20 to 30%)

Aspect: Southwest

Visit date: 6/12/2003

Ecological Health: Poor. **% Tree canopy:** 80%

% Non-Native Cover: not recorded

General Note:

Barbed wire fencing within unit.

Management Note:

Remove PRLA5, ILAQ and HEHE.

Eco Note:

Large downed logs.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Domestic Animals, Litter, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	>30"		
Abies grandis (grand fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"		
Thuja plicata (western red cedar)	20% to 50%		20-30"	Y	
Oemleria cerasiformis (Indian-plum)	10% to 20%	Y			
Tsuga heterophylla (western hemlock)	10% to 20%		>30"		
Polystichum munitum (sword fern)	10% to 20%				
Prunus laurocerasus (English laurel)	10% to 20%				
Alnus rubra (red alder)	1% to 10%		10-20"		
Prunus avium (sweet pie cherry)	1% to 10%		0-5"		
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Pteridium aquilinum (bracken fern)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Trillium ovatum (trillium)	trace				

Unit MALL*003

Size: 0.5 Acres

NVCS Class: Herbaceous

NVCS Subclass: Perennial graminoid vegetation

NVCS Group: Temperate grassland with a sparse tree layer

NVCS SubGroup: Cultural

NVCS Ecological System: unknown

Landform: unknown **Slope:** unknown

Aspect: unknown

Notes: 8.21.03 Unit is a mowed, mulched, bark dusted playground. Unit is the playground and picnic area of Marshall park. Did not collect specific data.

Unit MALL*004

Size: 2.67 Acres

NVCS Class: Woodland

NVCS Subclass: Deciduous woodland NVCS Group: Cold-deciduous woodland NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.844 Oregonian-Vancouverian Maritime Western Hemlock

Forest

Landform: Canyon bottom < 600'

Slope: Flat (0 to 5%)

Aspect: East

Visit date: 6/12/2003

Ecological Health: Poor. **% Tree canopy:** 55%

% Non-Native Cover: not recorded

General Note:

Most of MALL003 excluding the playground and hardscape structure are included in MALL004.

Management Note:

Remove AEHI from edge of playground.

Eco Note:

Creek bank severely degraded from overuse.

Wetland indicators: Streams, Hydrophilic Vegetation, Flood Debris, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives, Erosion, Soil Compaction, Domestic Animals, Litter, Large Refuse, Utility Infrastructure, Hardscape Infrastructure, Stream Bank Erosion, Informal Trails.

-	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Oemleria cerasiformis (Indian-plum)	10% to 20%	Y			
Aesculus hippocastanum (horsechestnut)	10% to 20%		>30"		
Prunus laurocerasus (English laurel)	10% to 20%				
Rubus spectabilis (salmonberry)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		>30"		
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Thuja plicata (western red cedar)	1% to 10%		10-20"	Y	
Fraxinus latifolia (Oregon ash)	1% to 10%		0-5"		
Prunus avium (sweet pie cherry)	1% to 10%		0-5"		
Acer circinatum (vine maple)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)					
Geranium robertianum (herb-Robert)	1% to 10%				
Geum macrophyllum (largeleaf avens)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Lapsana communis (common nipplewort)	1% to 10%				
Ranunculus repens (creeping buttercup)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Populus balsamifera ssp. trichocarpa (black cott	trace		20-30"	Y	
Alnus rubra (red alder)	trace		10-20"		
Adiantum pedatum (maidenhair fern)	trace				
Cornus sericea ssp. sericea (red-osier dogwood)	trace				
Physocarpus capitatus (Pacific ninebark)	trace				
Polypodium glycyrrhiza (licorice fern)	trace				
Salix rigida var. macrogemma (rigid yellow willo	trace				
Spiraea douglasii (Douglas' spiraea)	trace				

Unit MALL*005

Size: 1.62 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd **Slope:** Gentle (10 to 20%)

Aspect: Northeast

Visit date: 6/12/2003

Ecological Health: Fair. % Tree canopy: 70%

% Non-Native Cover: not recorded

General Note:

Barbed wire fencing near stream.

Management Note:

Remove ILAQ and PRLA5.

Eco Note:

The north edge of unit is a cliff overlooking stream. Found Monadenia fidelis fidelis. Species of interest

MOUN.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter, Informal Trails.

Visit Species:

COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
20% to 50%	Y	20-30"		
20% to 50%	Y	20-30"	Y	
20% to 50%	Y			
20% to 50%				
20% to 50%				
10% to 20%		20-30"		
10% to 20%		20-30"		
10% to 20%		10-20"	Y	
10% to 20%				
10% to 20%				
1% to 10%				
1% to 10%				
1% to 10%				
trace		0-5"		
trace		0-5"		
trace				
	20% to 50% 10% to 20% 10% to 20% 10% to 20% 10% to 20% 10% to 10% 1% to 10% 1% to 10% trace trace	20% to 50% Y 20% to 50% Y 20% to 50% Y 20% to 50% 20% to 50% 10% to 20% 10% to 10% 1% to 10% 1% to 10% trace trace	20% to 50% Y 20-30" 20% to 50% Y 20-30" 20% to 50% Y 20% to 50% 20% to 50% 10% to 20% 20-30" 10% to 20% 20-30" 10% to 20% 10-20" 10% to 20% 1% to 10% 1% to 10% 1% to 10% trace 0-5" trace 0-5"	20% to 50% Y 20-30" 20% to 50% Y 20-30" Y 20% to 50% Y 20% to 50% Y 20% to 50% 10% to 20% 20-30" 10% to 20% 20-30" 10% to 20% 10-20" Y 10% to 20% 1% to 10% 1% to 10% 1% to 10% trace 0-5" trace 0-5"

Unit MALL*006

Size: 4.12 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd

Slope: Steep (20 to 30%)

Aspect: Northeast

Visit date: 6/16/2003

Ecological Health: Fair. **% Tree canopy:** 75%

% Non-Native Cover: not recorded

Management Note:

Extremely high populations of Ilex aquafolium.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing

Water.

Primary Management concerns: Invasives, Domestic Animals, Utility Infrastructure, Informal

Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"	Y	
Hedera helix (English ivy)	20% to 50%	Y			
Hydrophyllum tenuipes (Pacific waterleaf)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Thuja plicata (western red cedar)	20% to 50%		20-30"	Y	
Vancouveria hexandra (white inside-out-flower)	20% to 50%				
Abies grandis (grand fir)	10% to 20%		20-30"	Y	
Berberis nervosa (Oregon grape)	10% to 20%				
Ilex aquafolium (English holly)	10% to 20%				
Oemleria cerasiformis (Indian-plum)	10% to 20%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Rubus discolor (Himalayan blackberry)	trace				

Unit MALL*007

Size: 1.73 Acres NVCS Class: Forest

NVCS Subclass: Deciduous forest NVCS Group: Cold-deciduous forest NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.844 Oregonian-Vancouverian Maritime Western Hemlock

Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northeast

Visit date: 6/16/2003

Ecological Health: Fair. % Tree canopy: 70%

% Non-Native Cover: not recorded

Management Note:

Cut down ILAQ trees, Ivy coming in from road.

Eco Note:

Significant downed logs and snags.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter.

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Oemleria cerasiformis (Indian-plum)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Alnus rubra (red alder)	20% to 50%	Y	10-20"	Y	
Hydrophyllum tenuipes (Pacific waterleaf)	20% to 50%	Y			

Polystichum munitum (sword fern)	20% to 50%	Y	
Thuja plicata (western red cedar)	10% to 20%		10-20"
Athyrium filix-femina (ladyfern)	1% to 10%		
Corylus avellana (common filbert)	1% to 10%		
Corylus cornuta (western beaked hazelnut)	1% to 10%		
Hedera helix (English ivy)	1% to 10%		
Ilex aquafolium (English holly)	1% to 10%		
Rubus discolor (Himalayan blackberry)	1% to 10%		
Rubus spectabilis (salmonberry)	1% to 10%		
Sambucus racemosa (red elderberry)	1% to 10%		
Adiantum pedatum (maidenhair fern)	trace		
Crataegus monogyna (European hawthorn)	trace		

Unit MALL*008

Size: 1.56 Acres NVCS Class: Forest

NVCS Subclass: Evergreen forest

NVCS Group: Temperate needle-leaved evergreen forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd

Slope: Steep (20 to 30%)

Aspect: Northeast

Visit date: 6/12/2003

Ecological Health: Good. **% Tree canopy:** 90%

% Non-Native Cover: not recorded

Management Note:

One patch of HEHE in SE corner of unit needs to be removed.

Eco Note:

Unit in good health.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Thuja plicata (western red cedar)	20% to 50%	Y	10-20"	Y	
Berberis nervosa (Oregon grape)	20% to 50%	Y			
Hydrophyllum tenuipes (Pacific waterleaf)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"		
Vancouveria hexandra (white inside-out-flower)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		20-30"		
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"		
Prunus avium (sweet pie cherry)	1% to 10%		10-20"		
Hedera helix (English ivy)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Trillium ovatum (trillium)	1% to 10%				
Corylus avellana (common filbert)	trace				
Corylus cornuta (western beaked hazelnut)	trace				
Ilex aquafolium (English holly)	trace				
Sambucus racemosa (red elderberry)	trace				

Unit MALL*009

Size: 1.96 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd

Slope: Gentle (10 to 20%)

Aspect: Northeast

Visit date: 6/16/2003

Ecological Health: Fair. % Tree canopy: 75%

% Non-Native Cover: not recorded

Management Note:

Decrepit homemade bridge spanning washed out gully, causing streambank erosion. May need to build

new bridge

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing

Water.

Primary Management concerns: Invasives, Soil Compaction, Litter, Stream Bank Erosion,

Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Abies grandis (grand fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Hydrophyllum tenuipes (Pacific waterleaf)	20% to 50%	Y			
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Thuja plicata (western red cedar)	10% to 20%		10-20"	Y	
Hedera helix (English ivy)	10% to 20%				
Vancouveria hexandra (white inside-out-flower)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"		
Acer circinatum (vine maple)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Rubus spectabilis (salmonberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Prunus avium (sweet pie cherry)	trace		0-5"		
Prunus laurocerasus (English laurel)	trace				
Rubus discolor (Himalayan blackberry)	trace				

Unit MALL*010

Size: 2.37 Acres
NVCS Class: Forest

NVCS Subclass: Deciduous forest NVCS Group: Cold-deciduous forest NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.846 North Pacific Broadleaf Mesic Seral Forest

Landform: Side-hill, Middle 3rd

Slope: Gentle (10 to 20%)

Aspect: Northeast

Visit date: 6/12/2003

Ecological Health: Good. % Tree canopy: 70%

% Non-Native Cover: not recorded

Management Note:

HEHE has possibly been removed before. Still heavy in some trees.

Eco Note:

Unit intact and fairly healthy. Invasives present along edge. Ivy is only heavy in trees.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives, Litter, Large Refuse.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"	Y	
Hydrophyllum tenuipes (Pacific waterleaf)	50% to 75%	Y			
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Vancouveria hexandra (white inside-out-flower)	20% to 50%	Y			
Berberis nervosa (Oregon grape)	20% to 50%				
Thuja plicata (western red cedar)	1% to 10%		20-30"	Y	
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"		
Acer circinatum (vine maple)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Euonymus occidentalis (western wahoo)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Carex deweyana (Dewey sedge)	trace				
Clematis vitalba (clematis)	trace				
Crataegus monogyna (European hawthorn)	trace				
Ilex aquafolium (English holly)	trace				
Rubus discolor (Himalayan blackberry)	trace				
Vaccinium parvifolum (red huckleberry)	trace				

Unit MALL*011

Size: 0.67 Acres

NVCS Class: Woodland

NVCS Subclass: Deciduous woodland NVCS Group: Cold-deciduous woodland NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.869 North Pacific Lowland Riparian Forest and Shrubland

Landform: Canyon bottom < 600'

Slope: Flat (0 to 5%) **Aspect:** Southeast

Visit date: 6/16/2003

Ecological Health: Poor. **% Tree canopy:** 40%

% Non-Native Cover: not recorded

Management Note:

High spreading blackberry population.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing

Water.

Primary Management concerns: Invasives, Litter.

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Populus balsamifera ssp. trichocarpa (black	cott 20% to 50%	Y	>30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"		
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Rubus discolor (Himalayan blackberry)	20% to 50%	Y			
Thuja plicata (western red cedar)	10% to 20%		20-30"		
Alnus rubra (red alder)	10% to 20%		10-20"		
Ranunculus repens (creeping buttercup)	10% to 20%				
Rubus spectabilis (salmonberry)	10% to 20%				
Acer circinatum (vine maple)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				

Polystichum munitum (sword fern) Urtica dioica (stinging nettle) Polygonum cuspidatum (Japanese knotweed) 1% to 10% 1% to 10% trace