



Vegetation Unit Summaries for **Keller Woodland (KW)**

Report date: 7/29/2009

'*' = non-native invasive species

Visit data as of: 7/29/2009

Unit KW*001

Size: 1 Acres

NVCS Class: Woodland

NVCS Subclass: Mixed evergreen-deciduous woodland

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

NVCS SubGroup: Natural / Semi-natural

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

Western Hemlock Forest

Landform: unknown

Slope: Extremely Steep (over 30%)

Aspect: Northeast

Notes:

Visit date: 8/12/2003

Ecological Health: Good.

% Tree canopy: 40%

% Non-Native Cover: not recorded

General Note:

Unit is managed by the Nature Conservancy.

Management Note:

Invasives heavy at top southern boundary of next upper unit. Mitigate for invasives to protect the high level of health present in this unit. NE facing steep slope

Eco Note:

NE facing steep slope of ravine, 100+ yr. old PSME, diverse understory/structure, many small birds and chipmunks present.

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

Primary Management concerns: Invasives.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Pseudotsuga menziesii</i> (Douglas fir)	20% to 50%	Y	>30"		
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Acer circinatum</i> (vine maple)	20% to 50%	Y			
<i>Polystichum munitum</i> (sword fern)	20% to 50%	Y			
<i>Rosa gymnocarpa</i> (dwarf wood rose)	10% to 20%				
<i>Rubus ursinus</i> (trailing blackberry)	10% to 20%				
<i>Adiantum pedatum</i> (maidenhair fern)	1% to 10%				
<i>Berberis nervosa</i> (Oregon grape)	1% to 10%				
<i>Corylus cornuta</i> (western beaked hazelnut)	1% to 10%				
<i>Gaultheria shallon</i> (salal)	1% to 10%				
<i>Holodiscus discolor</i> (oceanspray)	1% to 10%				
<i>Symphoricarpos albus</i> (snowberry)	1% to 10%				
<i>Tellima grandiflora</i> (fringecup)	1% to 10%				
<i>Vaccinium parvifolium</i> (red huckleberry)	1% to 10%				
<i>Sorbus aucuparia</i> (European mountain ash)	trace		0-5"	Y	
<i>Geranium robertianum</i> (herb-Robert)	trace				
<i>Tolmiea menziesii</i> (piggy-back plant)	trace				

Unit KW*002

Size: 2.16 Acres

NVCS Class: Woodland

NVCS Subclass: Deciduous woodland

NVCS Group: Cold-deciduous woodland

NVCS SubGroup: Natural / Semi-natural

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

Landform: Side-hill, Upper 3rd

Slope: Extremely Steep (over 30%)

Aspect: North

Notes:

Visit date: 8/12/2003

Ecological Health: Fair.

% Tree canopy: 55%

% Non-Native Cover: not recorded

General Note:

Unit is just north of residential area and more impacted.

Management Note:

Invasives heavy need to be removed. Also some dumping and possible brush clearing by neighbors.

Eco Note:

Forb layer is lacking due to heavy invasives and debris dumping.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter, Yard Debris.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Hedera helix (English ivy)	20% to 50%	Y			
Acer circinatum (vine maple)	10% to 20%	Y			
Polystichum munitum (sword fern)	10% to 20%				
Rubus ursinus (trailing blackberry)	10% to 20%				
Alnus rubra (red alder)	1% to 10%		10-20"	Y	
Pseudotsuga menziesii (Douglas fir)	1% to 10%		10-20"		
Geranium robertianum (herb-Robert)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Geum macrophyllum (largeleaf avens)	trace				
Sambucus racemosa (red elderberry)	trace				

Unit KW*003

Size: 7.63 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: CES204.846 North Pacific Broadleaf Mesic Seral Forest

Landform: Side-hill, Upper 3rd

Slope: Extremely Steep (over 30%)

Aspect: Northeast

Notes:

Visit date: 8/12/2003

Ecological Health: Fair.

% Tree canopy: 65%

% Non-Native Cover: not recorded

General Note:

Big unit below housing area. NE facing slope, steep down to ravine at bottom.

Management Note:

Remove ILAQ and HEHE to prevent them from moving down lower into other units.

Eco Note:

Unit is a steep NE slope facing bordered by two ravines.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Pseudotsuga menziesii</i> (Douglas fir)	20% to 50%	Y	20-30"		
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Polystichum munitum</i> (sword fern)	20% to 50%	Y			
<i>Rosa gymnocarpa</i> (dwarf wood rose)	10% to 20%	Y			
<i>Sambucus racemosa</i> (red elderberry)	10% to 20%	Y			
<i>Berberis nervosa</i> (Oregon grape)	10% to 20%				
<i>Hedera helix</i> (English ivy)	10% to 20%				
<i>Rubus ursinus</i> (trailing blackberry)	10% to 20%				
<i>Prunus avium</i> (sweet pie cherry)	1% to 10%		0-5"		
<i>Corylus cornuta</i> (western beaked hazelnut)	1% to 10%				
<i>Disporum hookeri</i> (Hooker's fairybells)	1% to 10%				
<i>Gaultheria shallon</i> (salal)	1% to 10%				
<i>Geranium robertianum</i> (herb-Robert)	1% to 10%				
<i>Oemleria cerasiformis</i> (Indian-plum)	1% to 10%				
<i>Symphoricarpos albus</i> (snowberry)	1% to 10%				
<i>Tellima grandiflora</i> (fringecup)	1% to 10%				
<i>Vaccinium parvifolium</i> (red huckleberry)	1% to 10%				
<i>Oxalis stricta</i> (common yellow oxalis)	trace				
<i>Trillium ovatum</i> (trillium)	trace				

Unit KW*004

Size: 1.12 Acres

NVCS Class: Woodland

NVCS Subclass: Deciduous woodland

NVCS Group: Cold-deciduous woodland

NVCS SubGroup: Natural / Semi-natural

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

Landform: Side-hill, Upper 3rd

Slope: Extremely Steep (over 30%)

Aspect: North

Notes:

Visit date: 8/12/2003

Ecological Health: Fair.

% Tree canopy: 25%

% Non-Native Cover: not recorded

General Note:

Small unit at top of slope, open canopy with heavy vegetation.

Management Note:

Remove invasives and control possible brush cutting and tree topping from area neighbors. Reduce impacts associated with residential area.

Eco Note:

Unit's canopy dominated by deciduous species. Also good structural and species diversity

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Sambucus racemosa (red elderberry)	10% to 20%	Y			
Berberis nervosa (Oregon grape)	10% to 20%				
Acer circinatum (vine maple)	1% to 10%				
Amelanchier alnifolia (serviceberry)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Tellima grandiflora (fringecup)	1% to 10%				
Crataegus monogyna (European hawthorn)	trace				
Pteridium aquilinum (bracken fern)	trace				

Unit KW*005

Size: 6.71 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: Extremely Steep (over 30%)

Aspect: Northeast

Notes:

Visit date: 8/13/2003

Ecological Health: Fair.

% Tree canopy: 70%

% Non-Native Cover: not recorded

General Note:

Soil compaction present from trails and platforms created by homeless camps.

Management Note:

Work on removing HEHE and ILAQ before they establish themselves all over the unit. Remove trash left behind from homeless camps.

Eco Note:

Diverse deciduous stand (mostly in the understory) located on an east facing steep slope. Ivy is heavy on northwest section of unit but is spreading rapidly over slope.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter, Homeless Camp, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Sambucus racemosa (red elderberry)	10% to 20%	Y			
Vancouveria hexandra (white inside-out-flower)	10% to 20%	Y			
Gaultheria shallon (salal)	10% to 20%				
Hedera helix (English ivy)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		5-10"		
Pseudotsuga menziesii (Douglas fir)	1% to 10%		5-10"		
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Holodiscus discolor (oceanspray)	1% to 10%				
Rosa gymnocarpa (dwarf wood rose)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Vaccinium parvifolium (red huckleberry)	1% to 10%				
Prunus avium (sweet pie cherry)	trace		5-10"		
Carex hendersonii (Henderson's wood sedge)	trace				
Hydrophyllum tenuipes (Pacific waterleaf)	trace				
Ilex aquafolium (English holly)	trace				
Philadelphus lewisii (Lewis' mockorange)	trace				

Prunus laurocerasus (English laurel)	trace
Smilacina stellata (starry false-Solomon's seal)	trace
Toxicodendron diversilobum (poison oak)	trace

Unit KW*006

Size: 9.77 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: CES204.845 North Pacific Dry Douglas-fir Forest and Woodland

Landform: Side-hill, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: East

Notes:

Visit date: 8/13/2003

Ecological Health: Fair.

% Tree canopy: 80%

% Non-Native Cover: not recorded

General Note:

Active and non-active homeless camps present (3-4). Species of Interest: LOCI3 Lonicera ciliosa.

Management Note:

Invasives heavy in spots --taking over the understory (HEHE).

Eco Note:

Unit is a sidehill east facing slope just west of Terwilliger Blvd. Natural vegetation is diverse, saw plants not as common as in other parks.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Soil Compaction, Litter, Utility Infrastructure, Homeless Camp, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Hedera helix (English ivy)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Corylus cornuta (western beaked hazelnut)	10% to 20%	Y			
Rubus parviflorus (thimbleberry)	10% to 20%	Y			
Berberis nervosa (Oregon grape)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		10-20"	Y	
Alnus rubra (red alder)	1% to 10%		10-20"		
Prunus avium (sweet pie cherry)	1% to 10%		5-10"		
Acer circinatum (vine maple)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Symphoricarpos albus (snowberry)	1% to 10%				
Vaccinium parvifolium (red huckleberry)	1% to 10%				
Actaea rubra (red baneberry)	trace				
Clematis vitalba (clematis)	trace				
Disporum hookeri (Hooker's fairybells)	trace				
Lonicera ciliosa (western orange honeysuckle)	trace				
Osmorhiza chilensis (mountain sweet-cicely)		trace			
Rhamnus purshiana (cascara)	trace				
Smilacina racemosa (false Solomon's-seal)	trace				
Trillium ovatum (trillium)	trace				

Unit KW*007

Size: 5.15 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, Middle 3rd

Slope: Extremely Steep (over 30%)

Aspect: East

Notes:

Visit date: 8/13/2003

Ecological Health: Fair.

% Tree canopy: 70%

% Non-Native Cover: not recorded

General Note:

Old car parts, tires, large debris at west end of unit. Some ivy pulling has been done on the west end as well.

Management Note:

Continue ivy removal, cut down SOAU & ILAQ trees and shrubs at west and east ends of unit.

Eco Note:

Unit contains a perennial stream running east. Center part of unit is free of invasives (except GERO).

Downed wood, structure, proximity of vegetation and turbidity of water is good. Spotted 2 Cooper hawks in unit--they seemed to be hanging around like a nest was nearby.

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

Primary Management concerns: Invasives, Litter, Utility Infrastructure.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Pseudotsuga menziesii</i> (Douglas fir)	20% to 50%	Y	20-30"		
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Acer circinatum</i> (vine maple)	20% to 50%	Y			
<i>Sambucus racemosa</i> (red elderberry)	20% to 50%	Y			
<i>Athyrium filix-femina</i> (ladyfern)	10% to 20%	Y			
<i>Polystichum munitum</i> (sword fern)	10% to 20%	Y			
<i>Tolmiea menziesii</i> (piggy-back plant)	10% to 20%	Y			
<i>Thuja plicata</i> (western red cedar)	10% to 20%		5-10"	Y	
<i>Corylus cornuta</i> (western beaked hazelnut)	10% to 20%				
<i>Hedera helix</i> (English ivy)	10% to 20%				
<i>Rubus discolor</i> (Himalayan blackberry)	10% to 20%				
<i>Adiantum pedatum</i> (maidenhair fern)	1% to 10%				
<i>Berberis nervosa</i> (Oregon grape)	1% to 10%				
<i>Geranium robertianum</i> (herb-Robert)	1% to 10%				
<i>Geum macrophyllum</i> (largeleaf avens)	1% to 10%				
<i>Ilex aquafolium</i> (English holly)	1% to 10%				
<i>Oemleria cerasiformis</i> (Indian-plum)	1% to 10%				
<i>Vancouveria hexandra</i> (white inside-out-flower)	1% to 10%				
<i>Sorbus aucuparia</i> (European mountain ash)	trace		0-5"		
<i>Prunus laurocerasus</i> (English laurel)	trace				

Unit KW*008

Size: 4 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: Canyon bottom < 600'
Slope: Extremely Steep (over 30%)
Aspect: Northeast
Notes:

Visit date: 8/13/2003

Ecological Health: Fair.
% Tree canopy: 70%
% Non-Native Cover: not recorded
General Note:

Management Note:

Ivy removal done by AmeriCorps in the past.

Eco Note:

Ivy and other invasives are more dominant in the southern end of unit.

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

Primary Management concerns: Invasives, Yard Debris, Encroachment.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"	Y	
Polystichum munitum (sword fern)	20% to 50%	Y			
Symphoricarpos albus (snowberry)	20% to 50%	Y			
Hedera helix (English ivy)	20% to 50%				
Oemleria cerasiformis (Indian-plum)	10% to 20%	Y			
Acer circinatum (vine maple)	10% to 20%				
Rubus ursinus (trailing blackberry)	10% to 20%				
Alnus rubra (red alder)	1% to 10%		10-20"		
Abies grandis (grand fir)	1% to 10%		5-10"	Y	
Athyrium filix-femina (ladyfern)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Geum macrophyllum (largeleaf avens)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Tellima grandiflora (fringecup)	1% to 10%				
Vaccinium parvifolium (red huckleberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Pseudotsuga menziesii (Douglas fir)	trace		0-5"	Y	
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Geranium robertianum (herb-Robert)	trace				
Urtica dioica (stinging nettle)	trace				

Unit KW*009

Size: 1.95 Acres
NVCS Class: Woodland
NVCS Subclass: Deciduous woodland
NVCS Group: Cold-deciduous woodland
NVCS SubGroup: Natural / Semi-natural
NVCS Ecological System: CES204.846 North Pacific Broadleaf Mesic Seral Forest
Landform: Side-hill, Middle 3rd
Slope: Extremely Steep (over 30%)
Aspect: Northeast
Notes:

Visit date: 8/13/2003

Ecological Health: Fair.
% Tree canopy: 40%

% Non-Native Cover: not recorded

General Note:

Some of the HEHE has been cut and large mounds of dead plant material left behind. Flagging found in unit paralleling old road (Northwood) at top of unit.

Management Note:

Continue with HEHE removal, also cut back SOAU, PRLA5 and PRAV.

Eco Note:

Unit is located at the uppermost part of a drainage and includes the confluence of 2 small perennial creeks.

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

Primary Management concerns: Invasives, Litter, Large Refuse, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Hedera helix (English ivy)	20% to 50%				
Polystichum munitum (sword fern)	20% to 50%				
Oemleria cerasiformis (Indian-plum)	10% to 20%	Y			
Berberis nervosa (Oregon grape)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		10-20"		
Prunus avium (sweet pie cherry)	1% to 10%		5-10"	Y	
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rosa gymnocarpa (dwarf wood rose)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Thuja plicata (western red cedar)	trace		10-20"	Y	
Abies grandis (grand fir)	trace		5-10"	Y	
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Adiantum pedatum (maidenhair fern)	trace				
Geum macrophyllum (largeleaf avens)	trace				
Trillium ovatum (trillium)	trace				