

Project Site: <u>May Valley Park(parcel 022305-9011, and -9097)</u>		Sampling Date: <u>July 23, 2008</u>	
Applicant/Owner: <u>Robert Wyman, RTW Associates</u>		Sampling Point: <u>DP-1</u>	
Investigator: <u>N. Lund, M. McManus</u>		City/County: <u>King County</u>	
Section, Township, Range: <u>SW-2-23-5</u>		State: <u>WA</u>	
Landform (hillslope, terrace, etc): <u>hillslope</u> Slope (%) <u>~50%</u>		Local relief (concave, convex, none): <u>concave</u>	
Subregion (LRR) <u>A</u> Lat: <u>47° 30' 15" N</u>		Long: <u>122° 8' 20" W</u> Datum	
Soil Map Unit Name: <u>Alderwood Gravelly Sandy Loam, 6-15% slopes</u>		NWI classification: <u>N/A</u>	
Are climatic/hydrologic conditions on the site typical for this time of year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(If no, explain in remarks.)	
Are "Normal Circumstances" present on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Are Vegetation <input type="checkbox"/> , Soil, <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? No			
Are Vegetation <input type="checkbox"/> , Soil, <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? No			
(If needed, explain any answers in Remarks.)			

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet
1. <i>Pseudotsuga menziesii</i>	15	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC: <u>2</u> (A)
2.				Total Number of Dominant Species Across All Strata: <u>7</u> (B)
3.				
4.				Percent of Dominant Species that are OBL, FACW, or FAC: <u>28.5%</u> (A/B)
	<u>15</u> = Total Cover			
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index Worksheet
1. <i>Oplopanax horridum</i>	50	Y	FAC	Total % Cover of
2. <i>Vaccinium parvifolium</i>	15	N	FACU	Multiply by
3. <i>Mahonia nervosa</i>	5	N	FACU	OBL species x 1 =
4.				FACW species x 2 =
5.				FAC species x 3 =
	<u>65</u> = Total Cover			FACU species x 4 =
				UPL species x 5 =
				Column totals (A) (B)
Herb Stratum (Plot size _____)				Prevalence Index = B / A =
1. <i>Polystichum munitum</i>	5	Y	FACU	
2. <i>Urtica dioica</i>	5	Y	FAC	Hydrophytic Vegetation Indicators
3. <i>Carex deweyana</i>	5	Y	FACU	
4. <i>Galium aparine</i>	5	Y	FACU	
5.				
6.				
7.				Dominance test is > 50%
8.				Prevalence test is ≤ 3.0 *
9.				Morphological Adaptations * (provide supporting data in remarks or on a separate sheet)
10.				Wetland Non-Vascular Plants *
11.				Problematic Hydrophytic Vegetation * (explain)
	<u>20</u> = Total Cover			* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. <i>Rubus laciniatus</i>	15	N	FACU	
2. <i>Rubus ursinus</i>	80	Y	FACU	
	<u>95</u> = Total Cover			
% Bare Ground in Herb Stratum <u>10%</u>				
Remarks:				

SOIL

Sampling Point: DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3"	N/A	100%	N/A	N/A			Duff layer	
3-14"	10YR 3/3	100%	N/A	N/A			Sandy gravelly loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Loc: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)

Indicators for Problematic Hydric Soils³

<input type="checkbox"/> 2cm Muck (A10)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Other (explain in remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric soil present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required: check all that apply):

<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (except MLRA 1, 2, 4A & 4B) (B9)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (explain in remarks)

Secondary Indicators (2 or more required):

<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A & 4B)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Frost-Heave Hummocks

Field Observations

Surface Water Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (in): _____
Water Table Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (in): _____
Saturation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (in): _____

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Soil completely dry.



WETLAND DETERMINATION DATA FORM
 Western Mountains, Valleys, and Coast Supplement to the
 1987 COE Wetlands Delineation Manual

750 Sixth Street South
 Kirkland, Washington 98033
 (425) 822-5242
 watershedco.com

Project Site: <u>May Valley Park(parcel 022305-9011, and -9097)</u>		Sampling Date: <u>July 23, 2008</u>	
Applicant/Owner: <u>Robert Wyman, RTW Associates</u>		Sampling Point: <u>DP-2</u>	
Investigator: <u>N. Lund, M. McManus</u>		City/County: <u>King County</u>	
Section, Township, Range: <u>SW-2-23-5</u>		State: <u>WA</u>	
Landform (hillslope, terrace, etc) <u>terrace</u>		Slope (%): <u><5%</u>	
Local relief (concave, convex, none): <u>concave</u>			
Subregion (LRR) <u>A</u>	Lat: <u>47° 30' 15" N</u>	Long: <u>122° 8' 20" W</u>	Datum
Soil Map Unit Name: <u>Alderwood Gravelly Sandy Loam, 6-15% slopes</u>		NWI classification: <u>N/A</u>	
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SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: <u>Wetland A.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet	
1. <i>Populus balsamifera</i>	20	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:	5
2.					(A)
3.				Total Number of Dominant Species Across All Strata:	5
4.					(B)
_____ = Total Cover				Percent of Dominant Species that are OBL, FACW, or FAC:	100
					(A/B)
Sapling/Shrub Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index Worksheet	
1. <i>Rubus spectabilis</i>	30	Y	FAC		
2. <i>Acer circinatum</i>	15	Y	FAC	OBL species	x 1 =
3. <i>Sambucus racemosa</i>	5	N	FACU	FACW species	x 2 =
4.				FAC species	x 3 =
5.				FACU species	x 4 =
_____ = Total Cover				UPL species	x 5 =
				Column totals	(A) (B)
Herb Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index = B / A =	
1. <i>Athyrium filix-femina</i>	25	Y	FAC		
2. <i>Polystichum munitum</i>	5	Y	FACU		
3. <i>Lysichiton americanus</i>	30	Y	OBL		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover				* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
Woody Vine Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>70%</u>					
Remarks:					

SOIL

Sampling Point: DP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6"	7.5YR 2.5/2	100	N/A				Sandy duffy loam	
6-12"	10YR 2/1	100	N/A				Sandy clay loam	Some organics
12-14"	10YR 3/1	100	N/A				Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Loc: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Histosol (A1)</td> <td><input type="checkbox"/> Sandy Redox (S5)</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon (A2)</td> <td><input type="checkbox"/> Stripped Matrix (S6)</td> </tr> <tr> <td><input type="checkbox"/> Black Histic (A3)</td> <td><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</td> </tr> <tr> <td><input type="checkbox"/> Hydrogen Sulfide (A4)</td> <td><input type="checkbox"/> Loamy Gleyed Matrix (F2)</td> </tr> <tr> <td><input type="checkbox"/> Depleted Below Dark Surface (A11)</td> <td><input checked="" type="checkbox"/> Depleted Matrix (F3)</td> </tr> <tr> <td><input type="checkbox"/> Thick Dark Surface (A12)</td> <td><input type="checkbox"/> Redox Dark Surface (F6)</td> </tr> <tr> <td><input type="checkbox"/> Sandy Mucky Mineral (S1)</td> <td><input type="checkbox"/> Depleted Dark Surface (F7)</td> </tr> <tr> <td><input type="checkbox"/> Sandy Gleyed Matrix (S4)</td> <td><input type="checkbox"/> Redox Depressions (F8)</td> </tr> </table>	<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<p>Indicators for Problematic Hydric Soils³</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> 2cm Muck (A10)</td> </tr> <tr> <td><input type="checkbox"/> Red Parent Material (TF2)</td> </tr> <tr> <td><input type="checkbox"/> Other (explain in remarks)</td> </tr> <tr> <td><input type="checkbox"/> </td> </tr> </table> <p>³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</p>	<input type="checkbox"/> 2cm Muck (A10)	<input type="checkbox"/> Red Parent Material (TF2)	<input type="checkbox"/> Other (explain in remarks)	<input type="checkbox"/>
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Restrictive Layer (if present): Type: <u>clay @ 12"</u> Depth (inches): _____	Hydric soil present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><i>Primary Indicators (minimum of one required: check all that apply):</i></p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Surface water (A1)</td> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Water-Stained Leaves (except MLRA 1, 2, 4A & 4B) (B9)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Salt Crust (B11)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Aquatic Invertebrates (B13)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Surface Soil Cracks (B6)</td> <td><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="checkbox"/> Other (explain in remarks)</td> </tr> </table>		<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (except MLRA 1, 2, 4A & 4B) (B9)	<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (explain in remarks)	<p><i>Secondary Indicators (2 or more required):</i></p> <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A & 4B)</td> </tr> <tr> <td><input type="checkbox"/> Drainage Patterns (B10)</td> </tr> <tr> <td><input type="checkbox"/> Dry-Season Water Table (C2)</td> </tr> <tr> <td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Geomorphic Position (D2)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Shallow Aquitard (D3)</td> </tr> <tr> <td><input type="checkbox"/> FAC-Neutral Test (D5)</td> </tr> <tr> <td><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</td> </tr> <tr> <td><input type="checkbox"/> Frost-Heave Hummocks</td> </tr> </table>	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A & 4B)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	<input checked="" type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> FAC-Neutral Test (D5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	<input type="checkbox"/> Frost-Heave Hummocks
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<p>Field Observations</p> <table style="width:100%;"> <tr> <td>Surface Water Present?</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> <td>Depth (in): _____</td> </tr> <tr> <td>Water Table Present?</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> <td>Depth (in): _____</td> </tr> <tr> <td>Saturation Present? (includes capillary fringe)</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> <td>Depth (in): _____</td> </tr> </table>	Surface Water Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (in): _____	Water Table Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (in): _____	Saturation Present? (includes capillary fringe)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Depth (in): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> * No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: * Able to squeeze water out of soil at approximately 6-inch depth; geomorphic position and shallow aquitard (clay layer) indicative of wetland hydrology. Some water-stained leaves present.

Project Site: <u>May Valley Park(parcel 022305-9011, and -9097)</u>	Sampling Date: <u>July 23, 2008</u>
Applicant/Owner: <u>Robert Wyman, RTW Associates</u>	Sampling Point: <u>DP-3</u>
Investigator: <u>N. Lund, M. McManus</u>	City/County: <u>King County</u>
Section, Township, Range: <u>SW-2-23-5</u>	State: <u>WA</u>
Landform (hillslope, terrace, etc) <u>toe of slope above roadside ditch</u> Slope (%) <u><5%</u> Local relief (concave, convex, none): <u>slightly concave, hummocky</u>	
Subregion (LRR) <u>A</u> Lat: <u>47° 30' 15" N</u> Long: <u>122° 8' 20" W</u> Datum	
Soil Map Unit Name: <u>Alderwood Gravelly Sandy Loam, 6-15% slopes</u> NWI classification: <u>N/A</u>	
Are climatic/hydrologic conditions on the site typical for this time of year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(If no, explain in remarks.)
Are "Normal Circumstances" present on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are Vegetation <input type="checkbox"/> , Soil, <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? No	
Are Vegetation <input type="checkbox"/> , Soil, <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? No	
(If needed, explain any answers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet	
1.				Number of Dominant Species that are OBL, FACW, or FAC:	4 (A)
2.				Total Number of Dominant Species Across All Strata:	6 (B)
3.				Percent of Dominant Species that are OBL, FACW, or FAC:	67% (A/B)
4.					
	<u>0</u>			= Total Cover	
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index Worksheet	
1. <i>Acer circinatum</i>	95	Y	FAC	Total % Cover of	
2. <i>Rubus spectabilis</i>	10	N	FAC	OBL species	x 1 =
3. <i>Sambucus racemosa</i>	5	N	FACU	FACW species	x 2 =
4.				FAC species	x 3 =
5.				FACU species	x 4 =
	<u>110</u>			UPL species	x 5 =
				Column totals	(A) (B)
Herb Stratum (Plot size _____)				Prevalence Index = B / A =	
1. <i>Dicentra Formosa</i>	25	Y	FACU		
2. <i>Athyrium filix-femina</i>	15	Y	FAC		
3. <i>Polystichum munitum</i>	7	Y	FACU		
4. <i>Equisetum telmateia</i>	5	Y	FACW		
5. <i>Lysichiton americanus</i>	5	Y	OBL		
6.				Hydrophytic Vegetation Indicators	
7.				Yes	Dominance test is > 50%
8.					Prevalence test is ≤ 3.0 *
9.					Morphological Adaptations * (provide supporting data in remarks or on a separate sheet)
10.					Wetland Non-Vascular Plants *
11.					Problematic Hydrophytic Vegetation * (explain)
	<u>55</u>			* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.					
2.					
	<u>0</u>			= Total Cover	
% Bare Ground in Herb Stratum	25%				
Remarks:					

SOIL

Sampling Point: DP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inches)	Matrix		Redox Features				Texture	Remarks			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²					
0-1"	N/A	100	N/A	N/A			Duff layer				
1-16"	10R 2.5/1	100	N/A	N/A			clay loam (slightly mucky)	Sticky & slightly greasy			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Loc: PL=Pore Lining, M=Matrix											
<table style="width:100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) </td> <td style="width: 33%; vertical-align: top;"> Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> </td> </tr> </table> <p style="font-size: small; margin-top: 5px;">³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</p>									Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/>
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/>									
Restrictive Layer (if present): Type: _____ Depth (inches): _____						Hydric soil present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Remarks: _____											

HYDROLOGY

Wetland Hydrology Indicators:					
<i>Primary Indicators (minimum of one required; check all that apply):</i>		<i>Secondary Indicators (2 or more required):</i>			
<input type="checkbox"/> Surface water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (except MLRA 1, 2, 4A & 4B) (B9) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (explain in remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A & 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks			
<table style="width:100%; border: none;"> <tr> <td style="width: 30%; vertical-align: top;"> Field Observations Surface Water Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Water Table Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Saturation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ (includes capillary fringe) </td> <td style="width: 70%; text-align: right; vertical-align: middle;"> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </td> </tr> </table>				Field Observations Surface Water Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Water Table Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Saturation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Field Observations Surface Water Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Water Table Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Saturation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: Moist, but not saturated					

Project Site: <u>May Valley Park(parcel 022305-9011, and -9097)</u>	Sampling Date: <u>September 15, 2008</u>
Applicant/Owner: <u>Robert Wyman, RTW Associates</u>	Sampling Point: <u>DP-4</u>
Investigator: <u>N. Lund, M. McManus</u>	City/County: <u>King County</u>
Section, Township, Range: <u>SW-2-23-5</u>	State: <u>WA</u>
Landform (hillslope, terrace, etc) <u>Topographic depression</u>	Slope (%) <u><5%</u> Local relief (concave, convex, none): <u>Concave</u>
Subregion (LRR) <u>A</u>	Lat: <u>47° 30' 15" N</u> Long: <u>122° 8' 20" W</u> Datum
Soil Map Unit Name: <u>Alderwood Gravelly Sandy Loam, 6-15% slopes</u>	NWI classification: <u>N/A</u>
Are climatic/hydrologic conditions on the site typical for this time of year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(If no, explain in remarks.)
Are "Normal Circumstances" present on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are Vegetation <input type="checkbox"/> , Soil, <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? No	
Are Vegetation <input type="checkbox"/> , Soil, <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? No	
(If needed, explain any answers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet	
1. <i>Tsuga heterophylla</i>	25%	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC:	2 (A)
2. <i>Acer macrophyllum</i>	5%	N	FACU	Total Number of Dominant Species Across All Strata:	3 (B)
3.				Percent of Dominant Species that are OBL, FACW, or FAC:	67% (A/B)
4.	0			= Total Cover	
Sapling/Shrub Stratum (Plot size _____)				Prevalence Index Worksheet	
1. <i>Rubus spectabilis</i>	15%	N	FAC	Total % Cover of	
2.				OBL species	Multiply by
3.				FACW species	x 1 =
4.				FAC species	x 2 =
5.				FACU species	x 3 =
	110			UPL species	x 4 =
				Column totals	(A) (B)
				Prevalence Index = B / A =	
Herb Stratum (Plot size _____)				Hydrophytic Vegetation Indicators	
1. <i>Polystichum munitum</i>	50%	Y	FACU	No	Dominance test is > 50%
2. <i>Athyrium filix-femina</i>	20%	Y	FAC		Prevalence test is ≤ 3.0 *
3.					Morphological Adaptations * (provide supporting data in remarks or on a separate sheet)
4.					Wetland Non-Vascular Plants *
5.					Problematic Hydrophytic Vegetation * (explain)
6.				* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
7.					
8.					
9.					
10.					
11.	55			= Total Cover	
Woody Vine Stratum (Plot size _____)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
1.					
2.	0			= Total Cover	
% Bare Ground in Herb Stratum	15%				
Remarks:					

SOIL

Sampling Point: DP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2"	N/A	100	N/A	N/A			Duff layer	
2-12"	10YR4/4	100%	N/A	N/A			Gravelly sandy loam	
12-16"	7.5YR3/2	100%	N/A	N/A			Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Loc: PL=Pore Lining, M=Matrix								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)				Indicators for Problematic Hydric Soils³ <input type="checkbox"/> 2cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/>				
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic								
Restrictive Layer (if present): Type: _____ Depth (inches): _____					Hydric soil present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Remarks: _____								

HYDROLOGY

Wetland Hydrology Indicators:				
<i>Primary Indicators (minimum of one required: check all that apply):</i>		<i>Secondary Indicators (2 or more required):</i>		
<input type="checkbox"/> Surface water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (except MLRA 1, 2, 4A & 4B) (B9) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (explain in remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A & 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks		
Field Observations Surface Water Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Water Table Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ Saturation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth (in): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: Moist, but not saturated				