

DRAFT

Appendix A
Background Information



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Rainfall Documentation

Date: July 2020

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records			Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
Month		3 yrs. in 10 less than	Normal	3 yrs. in 10 more than					
1st prior month*	June	0.93	1.44	1.73	2.28	Wet	3	3	9
2nd prior month*	May	1.09	1.88	2.28	3.12	Wet	3	2	6
3rd prior month*	April	2.10	3.18	3.82	1.70	Normal	1	1	1
Sum								16	

Note: If sum is

6 - 9 then prior period has been drier than normal

10 - 14 then prior period has been normal

15 - 18 then prior period has been wetter than normal

Condition value:

Dry =1

Normal =2

Wet =3

Conclusions: The period prior to July 2020 has been wetter than normal.

Rainfall Documentation

Date: August 2020

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records							
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	July	0.26	0.59	0.69	0.17	Dry	1	3	3
2nd prior month*	June	0.93	1.44	1.73	2.28	Wet	3	2	6
3rd prior month*	May	1.09	1.88	2.28	3.12	Wet	3	1	3
								Sum	12

Note: If sum is

- 6 - 9 then prior period has been drier than normal
- 10 - 14 then prior period has been normal
- 15 - 18 then prior period has been wetter than normal

Condition value:

- Dry =1
- Normal =2
- Wet =3

Conclusions: The period prior to August 2020 has been normal.

Rainfall Documentation

Date: September 2020

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records							
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Aug	0.30	0.97	1.12	0.31	Normal	2	3	6
2nd prior month*	July	0.26	0.59	0.69	0.17	Dry	1	2	2
3rd prior month*	June	0.93	1.44	1.73	2.28	Wet	3	1	3
								Sum	11

Note: If sum is

6 - 9 then prior period has been drier than normal

10 - 14 then prior period has been normal

15 - 18 then prior period has been wetter than normal

Condition value:

Dry =1

Normal =2

Wet =3

Conclusions: The period prior to September 2020 has been normal.

Rainfall Documentation

Date: October 2020

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records							
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Sep	0.65	1.59	1.89	2.48	Wet	3	3	9
2nd prior month*	Aug	0.30	0.97	1.12	0.31	Normal	2	2	4
3rd prior month*	July	0.26	0.59	0.69	0.17	Dry	1	1	1
								Sum	14

Note: If sum is

- 6 - 9 then prior period has been drier than normal
- 10 - 14 then prior period has been normal
- 15 - 18 then prior period has been wetter than normal

Condition value:

- Dry =1
- Normal =2
- Wet =3

Conclusions: The period prior to October 2020 has been normal.

Rainfall Documentation

Date: November 2020

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records							
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Oct	2.58	3.91	4.70	2.58	Normal	2	3	6
2nd prior month*	Sep	0.65	1.59	1.89	2.48	Wet	3	2	6
3rd prior month*	Aug	0.30	0.97	1.12	0.31	Normal	2	1	2
								Sum	14

Note: If sum is

6 - 9 then prior period has been drier than normal

10 - 14 then prior period has been normal

15 - 18 then prior period has been wetter than normal

Condition value:

Dry =1

Normal =2

Wet =3

Conclusions: The period prior to October 2020 has been normal.

Rainfall Documentation

Date: December 2020

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records			Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
Month		3 yrs. in 10 less than	Normal	3 yrs. in 10 more than					
1st prior month*	Nov	4.68	6.39	7.51	5.58	Normal	2	3	6
2nd prior month*	Oct	2.58	3.91	4.70	2.58	Normal	2	2	4
3rd prior month*	Sep	0.65	1.59	1.89	2.48	Wet	3	1	3
								Sum	13

Note: If sum is

6 - 9 then prior period has been drier than normal

10 - 14 then prior period has been normal

15 - 18 then prior period has been wetter than normal

Condition value:

Dry =1

Normal =2

Wet =3

Conclusions: The period prior to December 2020 has been normal.

Rainfall Documentation

Date: January 2021

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records							
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Dec	4.01	5.43	6.37	6.65	Wet	3	3	9
2nd prior month*	Nov	4.68	6.39	7.51	5.58	Normal	2	2	4
3rd prior month*	Oct	2.58	3.91	4.70	2.58	Normal	2	1	2
								Sum	15

Note: If sum is

- 6 - 9 then prior period has been drier than normal
- 10 - 14 then prior period has been normal
- 15 - 18 then prior period has been wetter than normal

Condition value:

- Dry =1
- Normal =2
- Wet =3

Conclusions: The period prior to January 2021 has been wetter than normal.

Rainfall Documentation

Date: May 2021

Weather station: Seattle Tacoma Airport

Period of Record: 1991-2020

County: King County

State: WA

Growing season: 2/8 to 12/14, 309 days

		Long-term rainfall records							
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	April	2.10	3.18	3.82	0.92	Dry	1	3	3
2nd prior month*	Mar	3.01	4.16	4.91	2.61	Dry	1	2	2
3rd prior month*	Feb	2.38	3.76	4.53	4.68	Wet	3	1	3
								Sum	8

Note: If sum is

- 6 - 9 then prior period has been drier than normal
- 10 - 14 then prior period has been normal
- 15 - 18 then prior period has been wetter than normal

Condition value:

- Dry =1
- Normal =2
- Wet =3

Conclusions: The period prior to May 2021 has been drier than normal.

Precipitation two weeks prior to fieldwork was 0.65 inches.

APPENDIX A-2

Daily Precipitation for 10 Days Preceding Fieldwork, SeaTac International Airport, Washington

To determine whether light, moderate, or heavy precipitation occurred in the 10 days prior to field work, the 10-day total is compared to one-third of the monthly average precipitation for the month evaluated (NRCS 2020a).

Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2019)	Daily Precipitation (inches) ^a
April 29	0.00
April 28	0.00
April 27	0.14
April 26	0.00
April 25	0.00
April 24	0.00
April 23	0.00
April 22	0.13
April 21	0.00
April 20	T
Sum	0.27

^a NRCS 2020a

"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of April is 1.06 inches. Therefore, light precipitation was recorded in the 10 days preceding field work for April 30, 2019.

Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2020)	Daily Precipitation (inches) ^a	Date (2020)	Daily Precipitation (inches) ^a
July 23	0.00	September 1	0.00
July 22	0.02	August 31	0.02
July 21	0.00	August 30	T
July 20	0.00	August 29	0.00
July 19	0.00	August 28	0.00
July 18	0.00	August 27	0.00
July 17	0.13	August 26	0.00
July 16	0.00	August 25	0.00
July 15	0.00	August 24	0.00
July 14	0.00	August 23	0.00
Sum	0.15	Sum	0.02

^a NRCS 2020a

"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of July is 0.20 inch and for the month of August is 0.32 inch. Therefore, light precipitation was recorded in the 10 days preceding field work for July 24, 2020, and September 2, 2020.

Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2020)	Daily Precipitation (inches) ^a
August 18	0.00
August 17	0.00
August 16	0.00
August 15	0.00
August 14	0.00
August 13	0.00
August 12	0.00
August 11	0.00
August 10	0.00
August 9	0.00
August 8	0.01
August 7	T
August 6	0.08
August 5	0.00
August 4	0.00
August 3	0.00
August 2	0.00
Sum	0.09

^a NRCS 2020a

"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of August is 0.32 inch. Therefore, light precipitation was recorded in the 10 days preceding field work for August 13, 18, and 19, 2020.

Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2020)	Daily Precipitation (inches) ^a
November 10	0.04
November 9	0.06
November 8	0.00
November 7	0.01
November 6	T
November 5	0.32
November 4	0.18
November 3	0.90
November 2	0.00
November 1	0.00
Sum	1.51

Conclusions: One-third of the monthly average precipitation for the month of November is 2.10 inches. Therefore, light precipitation was recorded in the ten days preceding field work for November 11, 2020.

Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2021)	Daily Precipitation (inches)^a
January 10	0.12
January 9	0.00
January 8	0.22
January 7	T
January 6	0.19
January 5	0.66
January 4	0.39
January 3	0.44
January 2	1.71
January 1	0.42
December 31 (2020)	0.35
December 30	0.97
December 29	0.16
December 28	0.00
Sum	5.63

^a NRCS 2020a

"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of January is 2.92 inches. One-third of the monthly average precipitation for the month of December is 2.22 inches. Therefore, heavy precipitation was recorded in the 10 days preceding field work for January 7 and 11 2021.

Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2021)	Daily Precipitation (inches)^a
May 4	0.03
May 3	0.25
May 2	0.00
May 1	0.03
April 30	0.11
April 29	0.00
April 28	0.00
April 27	0.00
April 26	0.00
April 25	0.10
April 24	0.51
April 23	0.04
Sum	1.07

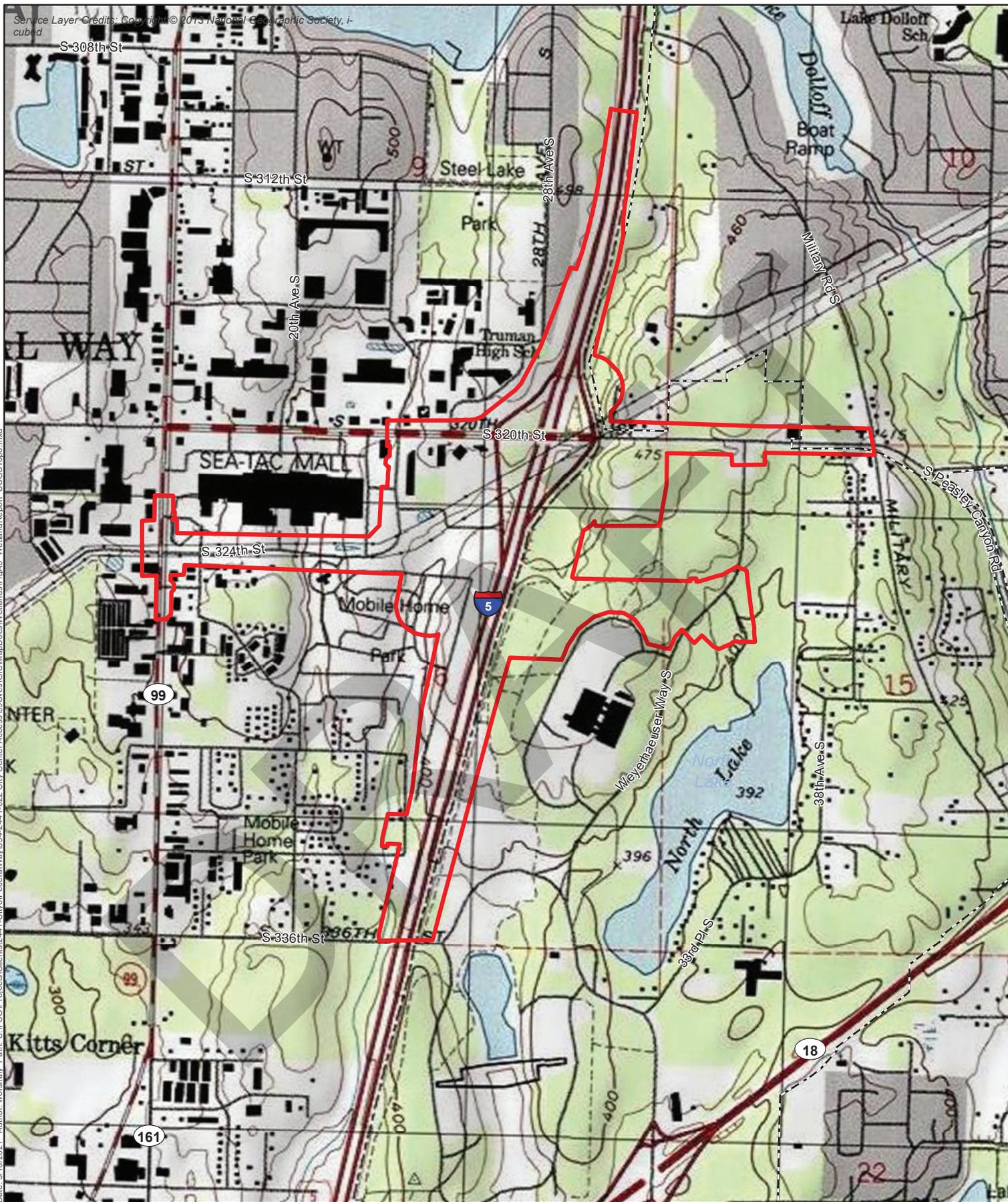
^a NRCS 2020a

Conclusions: One-third of the monthly average precipitation for the month of May is 0.63 inches. One-third of the monthly average precipitation for the month of April is 1.06 inches. Therefore, normal precipitation was recorded in the 10 days preceding field work for May 3 and 5 2021.

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Date: 5/18/2021 Author: wcrshahly Path: U:\PSO\Projects\CityCenter\2441-CityCenter\FederalWay\54-2441-022 City Center Access\99Scvs\GIS\MapDocs\Wetlands\FigA3_WetlandReport_USGSTopo.mxd



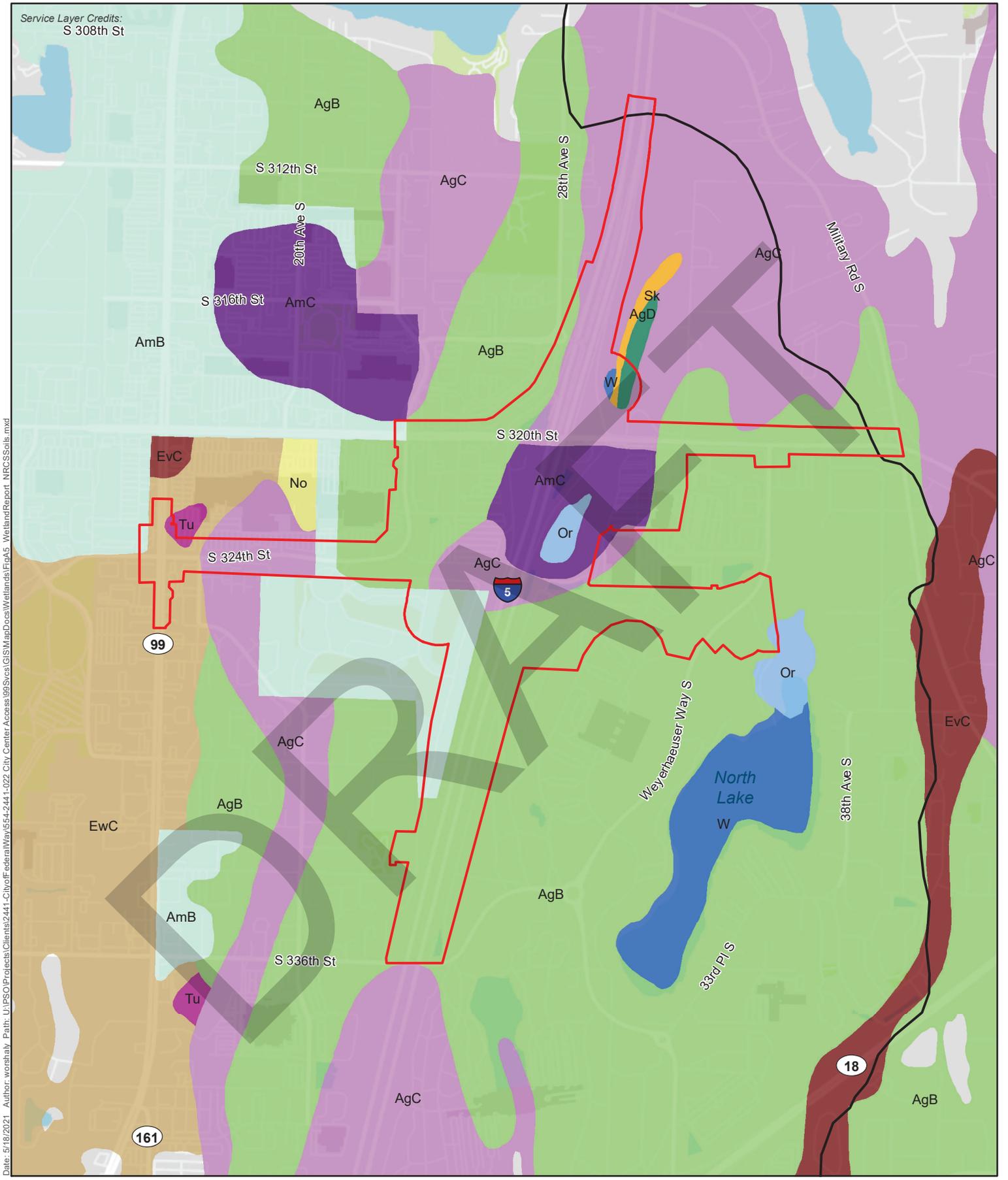
Parametrix
Source: USGS, ESRI

Study Area
 City Boundary



0 250 500 1,000
Feet

Figure A-3
 USGS Topographic Map
 Federal Way City Center Access
 Project: Wetland Report
 Federal Way, WA



Service Layer Credits:
S 308th St

Date: 5/18/2021 Author: worshahly Path: U:\PSO\Projects\Clients\2441-City\FederalWay\554-2441-022-City Center Access\99\Srcs\GIS\MapDocs\Wetlands\FigA5_WetlandReport_NRCSSoils.mxd

Parametrix
 Source: NRCS,
 © Mapbox, © OpenStreetMap



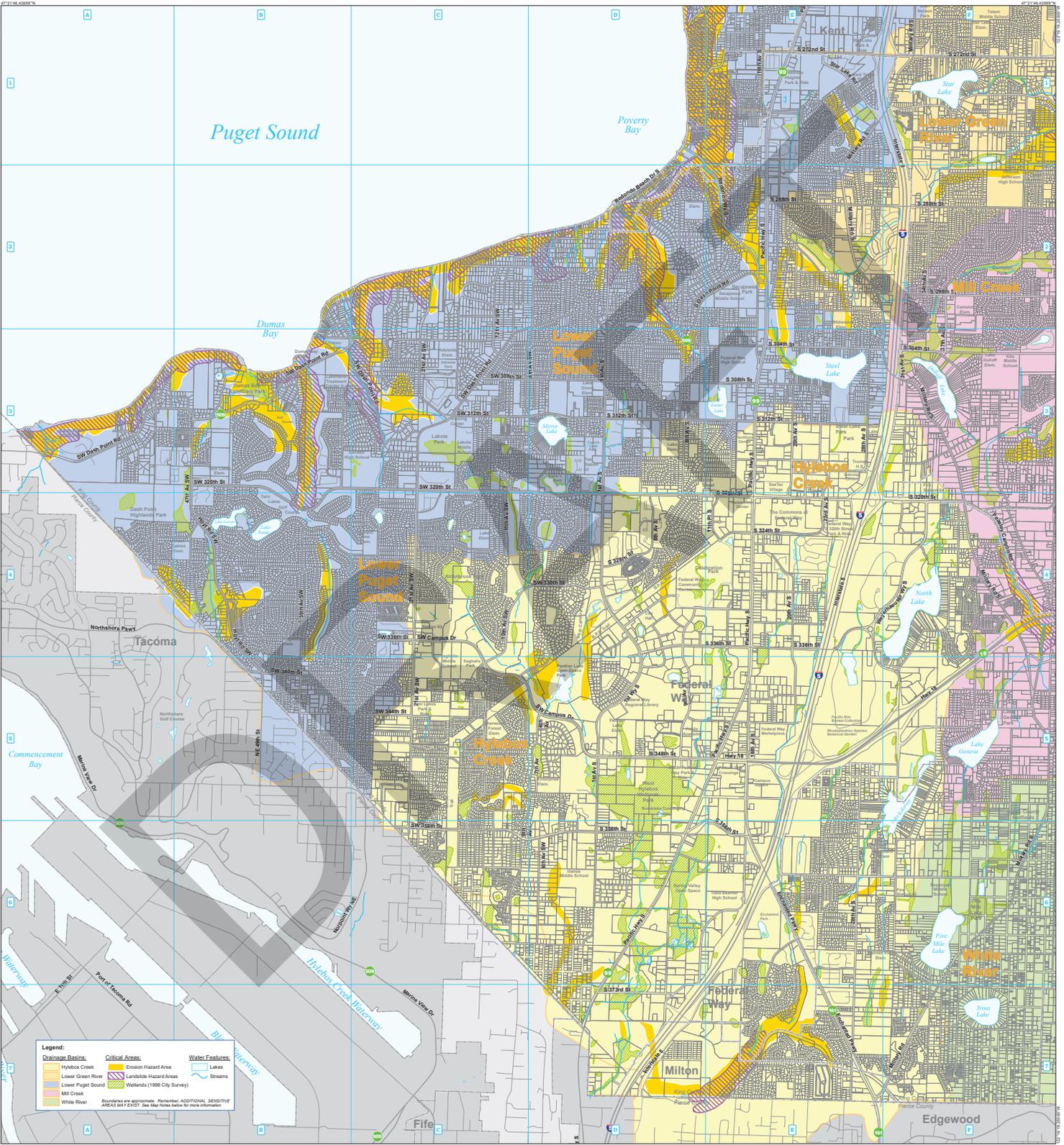
0 250 500 1,000
 Feet

- | | | |
|---|---|---|
|  Study Area | Map Unit |  Or |
|  Subbasin Boundary |  AgB |  AmC |
| |  AgC |  EvC |
| |  AgD |  Sk |
| |  AmB |  EwC |
| |  No |  Tu |
| | |  W |

Figure A-5
 NRCS Soil Survey Map
 Federal Way City Center Access
 Project: Wetland Report
 Federal Way, WA

City of Federal Way Critical Areas Map

Map Date: May 2016
 City of Federal Way,
 GIS Division
 33325 8th Ave S
 Federal Way, WA 98003
 (253) 835-7000
 www.cityoffederalway.com



Legend:		Water Features:	
	Lower Puget Sound		Lakes
	Hylebos Creek		Streams
	Lower Green River		Wetlands (1998 City Survey)
	Mill Creek		Wetlands (1998 City Survey)
	White River		Wetlands (1998 City Survey)



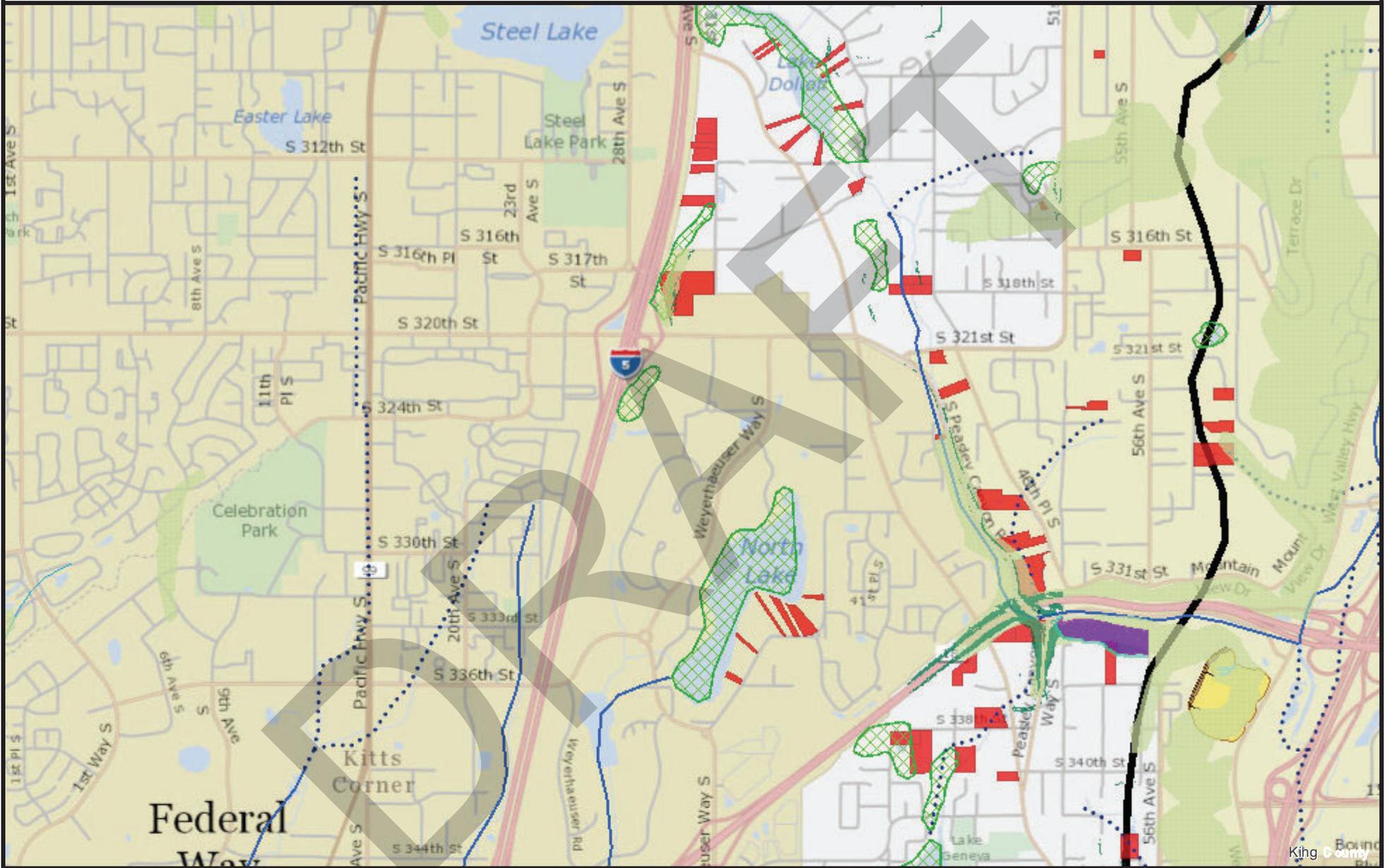
Map Notes: Wetlands and streams were identified in 1998 City of Federal Way survey. Data for the Landslide Hazard and erosion hazard areas is provided by King County. Drainage basin boundaries within city limits have been verified by the City of Federal Way. Basin boundaries outside of city limits are provided by King County and have not been verified by the City of Federal Way. Critical area information is provided for illustrative purposes ONLY.

Additional Critical Areas May Exist: Critical areas in Pierce County are not shown. The City of Federal Way shall not be liable for any damages due to the use or misuse of the information represented on this map. Wetlands are only shown in Federal Way and its Potential Annexation Area. Contact the City for an explanation of these areas and the regulations that govern them.
 Source: City of Federal Way, King County



This map is accompanied by NO warranties, and is simply a graphic representation.

Federal Way City Center Access Project - King County iMap



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Date: 10/13/2020

Notes:



King County

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Appendix B
Wetland Descriptions



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Table 1. Wetland W1 Summary

WETLAND W1– INFORMATION SUMMARY		
Location:	West of Federal Way Fire Station 4, north of S 320 th St, northeast of Weyerhaeuser Way South	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.16 acres*
	Cowardin Class	PEM, PSS
	HGM Class	Slope, Depressional
	Wetland Data Sheet(s)	W1-SP1
	Upland Data Sheet(s)	W1-SP2, W1-SP3
Wetland Delineation		
Dominant Vegetation	Shrubs – Himalayan blackberry (<i>Rubus armeniacus</i>) Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>), small-fruited bulrush (<i>Scirpus microcarpus</i>), St. John’s-wort (<i>Hypericum perforatum</i>), bedstraw (<i>Galium aparine</i>), common foxglove (<i>Digitalis purpurea</i>).	
Soils	A soil matrix color of 10YR 3/2 was observed from 0-12 inches below soil surface. From 12-14 inches, a soil matrix color of 2.5Y 4/2 with redoximorphic concentrations was observed. A compact gravel layer at 14 inches hindered further exploration, but it is presumed that the depleted matrix extends beyond 14 inches, thus meeting indicator Depleted Below Dark Surface (A11).	
Hydrology	No primary indicators were met for hydrology. Secondary indicators Geomorphic position (D2) and FAC-Neutral Test (D5) were recorded.	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and meets secondary hydrology indicators in July. Hydric soils were helpful in determining the wetland boundary.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W1 rates as a Category III with a habitat score of 4.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer ranges from forested areas dominated by native conifers to open grass. Forested buffer provides screening and habitat functions.	

*Wetland boundary approximated; area calculation is approximate.

Table 2. Wetland W2 summary

WETLAND W2 – INFORMATION SUMMARY		
Location:	West of South King Fire & Rescue Station 64, north of S 320 th St, northwest of Weyerhaeuser Way South	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	IV
	Local Rating	IV
	City of Federal Way Buffer Width	50 feet
	Wetland Size	0.03 acres
	Cowardin Class	PSS
	HGM Class	Depressional
	Wetland Data Sheet(s)	W2-SP4
	Upland Data Sheet(s)	W2-SP5
Wetland Delineation		
Dominant Vegetation	Trees – black cottonwood (<i>Populus balsamifera</i>) Shrubs – red osier dogwood (<i>Cornus alba</i>), hardhack (<i>Spiraea douglasii</i>), twinberry (<i>Lonicera involucrata</i>), nootka rose (<i>Rosa nutkana</i>) Herbaceous – bent grass (<i>Agrostis capillaris</i>) and Kentucky bluegrass (<i>Poa pratensis</i>)	
Soils	Soil matrices of 10YR 3/2 (0-2) and 2.5Y 3/2 (2-16) with redoximorphic concentrations and depletions were observed throughout the upper 16 inches of the soil surface. Indicator Depleted Dark Surface (F7) met.	
Hydrology	Surface soil cracks (B6) and Algal Mat or Crust (B4) were identified as primary indicators of hydrology for Wetland W2.	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has 2 primary indicators of hydrology during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary. Wetland soils had matrices of chroma 2. Upland areas directly adjacent had soil matrices of chroma 3.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W2 rates as a Category IV with a habitat score of 4.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer conditions range from forested areas dominated by a mixture of native conifers and shrubs to the north. Forested buffer provides screening and habitat functions. S 320 th Street is located to the south with an unpaved utility access road crossing through the wetland unit from the east and west, parallel to S 320 th Street.	

Table 3. Wetland W3 summary

WETLAND W3 – INFORMATION SUMMARY		
Location:	North of S 320 th St, west of 32 nd avenue south.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.02 acres
	Cowardin Class	PEM
	HGM Class	Depressional
	Wetland Data Sheet(s)	W3-SP6
	Upland Data Sheet(s)	W3-SP7
Wetland Delineation		
Dominant Vegetation	Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>), common rush (<i>Juncus effusus</i>), bent grass (<i>Agrostis capillaris</i>), and twinberry (<i>Lotus corniculatus</i>).	
Soils	Soils were not observed. Assumed hydric.	
Hydrology	Wetland W3 was checked with “other” primary indicator and is assumed to be saturated for a minimum of 5% of the growing season given no stormwater controls on S 320 th Street allowing overland flow from uplands into the wetland with no observed outlet present. Wetland W3 also met secondary indicators geomorphic position (D2) and FAC-neutral test (D5).	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and is assumed to be saturated for at least 5% of the growing season.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W3 rates as a Category III with a habitat score of 3.	
Functions	Water quality functions scored high with a score of 7, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is a large hillslope of fill material, located on the north side of 320 th . The buffer consists mainly of invasive Himalayan blackberry (<i>Rubus armeniacus</i>) and native trailing blackberry (<i>Rubus ursinus</i>). This buffer is poor in condition and provides little screening or protection.	

Table 4. Wetland W5 summary

WETLAND W5 – INFORMATION SUMMARY		
Location:	East of I-5 exit 142 towards Federal Way S. 320 th St and west of Rockwell Collins, Seattle Service Center Parking lot.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	I/II
	Local Rating	I/II
	City of Federal Way Buffer Width	250 feet / 150 feet
	Wetland Size	1.76 (bog, Cat I)/ 5.48 (Cat II)
	Cowardin Class	PEM, PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W5-SP8
	Upland Data Sheet(s)	W5-SP9
Wetland Delineation		
Dominant Vegetation	<p><u>Species within the mineral wetland component:</u> Trees – Red alder (<i>Alnus rubra</i>), Oregon Ash (<i>Fraxinus latifolia</i>), European Mountain Ash (<i>Sorbus aucuparia</i>) Shrubs – Salmonberry (<i>Rubus spectabilis</i>)</p> <p><u>Species with the bog component:</u> Trees – Red alder Shrubs – bog laurel (<i>Kalmia microphylla</i>) and Labrador tea (<i>Rhododendron groenlandicum</i>) Herbaceous – fowl manna grass (<i>Glyceria striata</i>),</p>	
Soils	A soil matrix of 10Y 5/1 with redoximorphic concentrations was observed throughout the upper 16 inches of the soil surface. These characteristics meet indicators Loamy Gleyed Matrix (F2) and Depleted Matrix (F3).	
Hydrology	A locally shallow water table and stream flow hydrologically support the wetlands. Inundation at two inches was observed. Indicators, High Water Table (A2), Saturation (A3), and Hydrogen Sulfide Odor (C1) were met. Secondary indicators, Dry-Season Water Table (C2), Geomorphic Position (D2), and FAC-Neutral Test (D5) were also met.	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in late July during a drier part of the growing season.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W5 rates as a dual rating as Category I/II with a habitat score of 6.	
Functions	Water quality functions scored high with a score of 7, hydrologic functions scored high with a score of 7, and habitat functions scored high with a score of 7. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer consists of a forested area. Forested buffer provides screening and habitat functions protecting the Category II wetland and associated Category I bog.	

*Wetland boundary approximated; area calculation is approximate.

Table 5. Wetland W6 summary

WETLAND W6 – INFORMATION SUMMARY		
Location:	West of Oakland Hills Boulevard, east of Burning Tree Blvd	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.11 acres*
	Cowardin Class	PEM, PSS
	HGM Class	Riverine
	Wetland Data Sheet(s)	W6-SP10
	Upland Data Sheet(s)	W6-SP11
Wetland Delineation		
Dominant Vegetation	Trees – Western red cedar (<i>Thuja plicata</i>) Shrubs – Himalayan blackberry and salmonberry (<i>Rubus spectabilis</i>) Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>), giant horsetail (<i>Equisetum telmateia</i>), bittersweet nightshade (<i>Solanum dulcamara</i>)	
Soils	Soil matrices of 10YR 2/1 (0-5) and 10YR 2/2 (5-16) with 10GY 4/1 gleyed depletions in the 5 to 16 inch layer were observed. These characteristics met indicator Redox Dark Surface (F6).	
Hydrology	Supported by Steam 1 flows and locally high water table. Indicators High Water Table (A2) and Saturation (A3) were identified as primary indicators for Wetland W6. Secondary indicators Dry-Season Water Table (C2) and Geomorphic Position (D2), and FAC-Neutral Test (D5) were met.	
Rationale for Delineation	Riverine wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in July during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary. Upland areas directly adjacent had soil matrices of chroma 3.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W6 rates as a Category III with a habitat score of 4.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is limited in size with a few large conifers. It is located directly next to Belmor Park Golf Course. Overall the buffer is very small.	

*Wetland boundary approximated; area calculation is approximate.

Table 6. Wetland W7 summary

WETLAND W7 – INFORMATION SUMMARY		
Location:	Along east shoulder of southbound I-5, adjacent to Exit 143 signage.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	IV
	Local Rating	IV
	City of Federal Way Buffer Width	50 feet
	Wetland Size	0.03 acres*
	Cowardin Class	PEM
	HGM Class	Depressional
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Herbaceous – cattail (<i>Typha latifolia</i>)	
Soils	Soils were not observed due to buried power line and occurrence of wetland within I-5 fill prism. Soils presumed hydric.	
Hydrology	Hydrology provided by stormwater runoff from I-5 and overland flow from adjacent uplands. Outlet is a stormwater catch basin perched approximately 6-inches above wetland surface. Hydrology indicator, Saturation (A3), was present.	
Rationale for Delineation	Presence of obligate vegetation and saturated soils in geomorphic position with presumed hydric soils.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W7 rates as a Category IV with a habitat score of 3.	
Functions	Water quality functions scored moderate with a score of 5, hydrologic functions scored moderate with a score of 5, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is highly disturbed with I-5 southbound lanes immediately adjacent and forested slope between I-5 and a multi-family development.	

*Wetland boundary approximated; area calculation is approximate.

Table 7. Wetland W9 summary

WETLAND W9 – INFORMATION SUMMARY		
Location:	South of 320 th street, located in the inner portion of the I-5 North on-ramp.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	IV
	Local Rating	IV
	City of XX/XX County Buffer Width	50 feet
	Wetland Size	0.01 acres
	Cowardin Class	PEM
	HGM Class	Slope
	Wetland Data Sheet(s)	W9-SP13
	Upland Data Sheet(s)	W9-SP14
Wetland Delineation		
Dominant Vegetation	Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>)	
Soils	Soil matrices of 10YR 4/1 (0-4.5 inches) and 10Y 5/1 (4.5-16 inches) with 10YR 4/6 redoximorphic concentrations observed throughout the soil profile. These characteristics meet soil indicators Depleted Below Dark Surface (A11), Loamy Gleyed Matrix (F2), and Depleted Matrix (F3).	
Hydrology	Surface Water (A1) and High Water Table (A2) were identified as primary indicators of hydrology for Wetland W9. Secondary indicators Drainage Patterns (B10) and Geomorphic Position (D2) met.	
Rationale for Delineation	Slope wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in August during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W9 rates as a Category IV with a habitat score of 3.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is open grass that is confined within an on-ramp to I-5 north. Overall, the buffer provides some screening but is frequently mowed for roadside maintenance and safety.	

Table 8. Wetland W10 summary

WETLAND W10 – INFORMATION SUMMARY		
Location:	Located north of 320 th street east of the I-5 north on-ramp.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.15 acres
	Cowardin Class	PAB, PEM, PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W10-SP15
	Upland Data Sheet(s)	W10-SP16
Wetland Delineation		
Dominant Vegetation	Trees – red alder (<i>Alnus rubra</i>) Shrubs – red osier dogwood (<i>Cornus sericea</i> = <i>C. alba</i>), pacific willow (<i>Salix lasiandra</i>), Himalayan blackberry (<i>Rubus armeniacus</i>) Herbaceous – slough sedge (<i>Carex obnupta</i>), reed canarygrass (<i>Phalaris arundinacea</i>), creeping buttercup (<i>Ranunculus repens</i>).	
Soils	A soil matrix of 10YR 3/2 with redoximorphic concentrations were observed throughout the upper 16 inches of the soil surface. Indicator Redox Dark Surface (F6) met.	
Hydrology	High Water Table (A2) and Saturation (A3) were identified as primary indicators of hydrology for Wetland W10.	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in July during a drier part of the growing season.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W10 rates as a Category III with a habitat score of 5.	
Functions	Water quality functions scored moderate with a score of 5, hydrologic functions scored high with a score of 7, and habitat functions scored moderate with a score of 6. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer consists of large forested area with conifers and mixed deciduous trees. Forested buffer provides screening and habitat functions protecting the wetland.	

Table 9. Wetland W11 summary

WETLAND W11 – INFORMATION SUMMARY		
Location:	North of 320 th Street, east of I-5 north on-ramp, and west of 32 nd Ave S	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	II
	Local Rating	II
	City of Federal Way Buffer Width	150 feet
	Wetland Size	8.19 acres*
	Cowardin Class	PAB, PEM, PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W11-SP17
	Upland Data Sheet(s)	W11-SP18
Wetland Delineation		
Dominant Vegetation	Trees – Oregon ash (<i>Fraxinus latifolia</i>), red alder (<i>Alnus rubra</i>), black cottonwood (<i>Populus balsamifera</i>) Shrubs – hardhack (<i>Spiraea douglasii</i>), Salmonberry (<i>Rubus spectabilis</i>), Oregon Ash (<i>Fraxinus latifolia</i>), black cottonwood (<i>Populus balsamifera</i>) Herbaceous – slough sedge (<i>Carex obnupta</i>), large leaved avens (<i>Geum macrophyllum</i>)	
Soils	A soil matrix of 10YR 2/2 with redoximorphic concentrations starting at 4 inches below soil surface were observed throughout the upper 18 inches of the soil surface. Indicators Redox Dark Surface (F6) and Depleted Dark Surface (F7) met.	
Hydrology	Secondary indicators Geomorphic position (D2) and FAC-Neutral Test (D5) were observed. Seasonally high water table assumed	
Rationale for Delineation	Depressional wetland with hydric soils and supports hydrophytic vegetation.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W11 rates as a Category II with a habitat score of 6.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored high with a score of 8, and habitat functions scored moderate with a score of 6. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer ranges from large forested areas dominated by a mixture of native conifers and shrubs. Forested buffer provides screening and habitat functions.	

*Wetland boundary approximated; area calculation is approximate.

Table 10. Wetland W12 summary

WETLAND W12 – INFORMATION SUMMARY		
Location:	Between southbound I-5 and 320 th street onramp to southbound I-5	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.04 acres
	Cowardin Class	PEM
	HGM Class	Depressional
	Wetland Data Sheet(s)	W12-SP19
	Upland Data Sheet(s)	W12-SP20
Wetland Delineation		
Dominant Vegetation	Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>), colonial bentgrass (<i>Agrostis stolonifera</i>), common rush	
Soils	Soil matrices of 10YR 4/1 with redoximorphic concentrations were observed throughout the upper 16 inches of the soil surface. Indicator Depleted Matrix (F3) met.	
Hydrology	Oxidized rhizospheres (C3) along living roots was the only primary indicator noted. Secondary indicators include Geomorphic Position (D2) and FAC-Neutral Test (D5).	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has oxidized rhizospheres along living roots. Oxidized rhizospheres were a strong indicator in determining the wetland boundary.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W12 rates as a Category III with a habitat score of 3.	
Functions	Water quality functions scored high with a score of 7, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is an open pasture that is confined by roadways. Overall, the buffer provides minimal function and is frequently mowed for roadside maintenance and safety.	

Table 11. Wetland W13 summary

WETLAND W13 – INFORMATION SUMMARY		
Location:	South of S 320 th Street and west of Weyerhaeuser Way S	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.45 acres*
	Cowardin Class	PEM, PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W13-SP21
	Upland Data Sheet(s)	W13-SP22
Wetland Delineation		
Dominant Vegetation	Trees – Bitter cherry (<i>Prunus emarginata</i>) Shrubs – hardhack (<i>Spiraea douglasii</i>), pacific willow (<i>Salix scouleriana</i>), red osier dogwood (<i>Cornus sericea</i> = <i>C. alba</i>), black cottonwood (<i>Populus balsamifera</i>) Herbaceous – piggyback plant (<i>Tolmiea menziesii</i>), soft rush (<i>Juncus effusus</i>), slough sedge (<i>Carex obnupta</i>)	
Soils	A soil matrix of 10YR 3/2 with redoximorphic concentrations was observed in the first layer (0 to 7 inches). A soil matrix of 10YR 4/2 with redoximorphic depletions and concentrations were observed on the second layer (7 to 16 inches). Indicators Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6) were met.	
Hydrology	Primary indicators Sediment Deposits (B2) and Sparsely Vegetated Concave Surfaces (B8) met.	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology in July during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary. Wetland soils had matrices of chroma 2. Upland areas directly adjacent had soil matrices of chroma 3.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W13 rates as a Category III with a habitat score of 4.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer ranges from large forested areas dominated by a mixture of native conifers and shrubs. Forested buffer provides screening and habitat functions.	

*Wetland boundary approximated; area calculation is approximate.

Table 12. Wetland W14 summary

WETLAND W14 – INFORMATION SUMMARY		
Location:	North of S 320 th Street, east of South King Fire & Rescue Station 64 and west of the intersection of Military Road S and S 320 th Street.	
	Local Jurisdiction	King County
	Ecology Rating (2014)	III
	Local Rating	III
	King County Buffer Width	80 feet
	Wetland Size	0.26 acres*
	Cowardin Class	PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Trees – red alder (<i>Alnus rubra</i>) Shrubs – hardhack ((<i>Spiraea douglasii</i>))	
Soils	Soils not investigated due to lack of entry permission	
Hydrology	Hydrology not investigated due to lack of entry permission. Roadside observations suggest seasonal flooding.	
Rationale for Delineation	Boundary estimated based on hydrophytic vegetation and topographic features.	
Wetland Rating and Functions		
Rationale for Local Rating	KCC 21A.24.325 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) and determines buffer widths based on both the habitat score and land use intensity. Wetland W14 rates as a Category III with a habitat score of 4.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer ranges from large forested areas dominated by a mixture of native conifers and shrubs. Forested buffer provides screening and habitat functions.	

*Wetland boundary approximated; area calculation is approximate.

Table 13. Wetland W15 summary

WETLAND W15 – INFORMATION SUMMARY		
Location:	South of S 320 th Street, west of the I-5 southbound on-ramp and east of the I-5 southbound travel lanes.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	IV
	Local Rating	IV
	City of Federal Way Buffer Width	50 feet
	Wetland Size	0.14 acres*
	Cowardin Class	PEM, PSS
	HGM Class	Depressional
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Salmonberry (<i>Rubus spectabilis</i>), soft rush (<i>Juncus effusus</i>).	
Soils	Soils not investigated due to lack of entry permission	
Hydrology	Hydrology not investigated due to lack of entry permission. Roadside observations suggest seasonal flooding.	
Rationale for Delineation	Boundary estimated based on hydrophytic vegetation and topographic features.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W15 rates as a Category IV with a habitat score of 3.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 3. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is limited in size with a few large trees and shrubs. It is located on the far east side of the Best Western Plus Seattle/Federal Way. Overall the buffer is very small.	

*Wetland boundary approximated; area calculation is approximate.

Table 14. Wetland W17 summary

WETLAND W17 – INFORMATION SUMMARY		
Location:	South of Weyerhaeuser Way S and west of Fishing Access Road	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size	0.13 acres
	Cowardin Class	PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W17-SP3
	Upland Data Sheet(s)	W17-SP1, W17-SP2
Wetland Delineation		
Dominant Vegetation	Trees – western red cedar (<i>Thuja plicata</i>), red alder (<i>Alnus rubra</i>) Shrubs – salmonberry (<i>Rubus spectabilis</i>), vine maple (<i>Acer circinatum</i>)	
Soils	Soil matrices are 10YR 3/2 (0-7 inches) and 2.5YR 4/2 (7-16 inches) with redoximorphic concentrations in the lower layer. These characteristics meet indicator Depleted Matrix (F3).	
Hydrology	Indicators High Water Table (A2), Saturation (A3), Water Marks (B1), Sediment Deposits (B2) were met.	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology. Wetland boundary was distinct by the steep slope to upland conditions.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W17 rates as a Category III with a habitat score of 5.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored high with a score of 7, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is a large forested area dominated by Douglas fir, western red cedar, big leaf maple, vine maple, salal, and swordfern. Southern buffer area includes Wetland 18. The buffer provides functions such as habitat and screening.	

Table 15. Wetland 18 summary

WETLAND W18 – INFORMATION SUMMARY		
Location:	South and east of Weyerhaeuser Way S	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	II
	Local Rating	II
	City of Federal Way Buffer Width	150 feet
	Wetland Size	0.62 within study area, overall, approximately 13 acres
	Cowardin Class	PAB, PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W18-SP2, W18-SP3, W18-SP5
	Upland Data Sheet(s)	W18-SP1, W18-SP4, W18-SP6
Wetland Delineation		
Dominant Vegetation	Trees – western red cedar (<i>Thuja plicata</i>), red alder (<i>Alnus rubra</i>) Shrubs – vine maple (<i>Acer circinatum</i>), salmonberry (<i>Rubus spectabilis</i>), hardhack (<i>Spiraea douglasii</i>) Herbaceous – soft rush (<i>Juncus effusus</i>), creeping buttercup (<i>Ranunculus repens</i>),	
Soils	Soils were examined at several locations within the wetland. Indicators met include Redox Depressions (F8), Depleted Matrix (F3), and Depleted Below Dark Surface (A11).	
Hydrology	Indicators met include High Water Table (A2), Saturation (A3), and Water Marks (B1).	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology. Wetland boundaries are marked by a steep slope (north) and fishing access road (east). Wetland extends to water edge at North Lake.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W18 rates as a Category II with a habitat score of 7.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored high with a score of 7, and habitat functions scored high with a score of 9. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is a large forested area dominated by Douglas fir, western red cedar, big leaf maple, vine maple, salal, and swordfern. Southern buffer area includes North Lake. Western buffer boundary is marked by Weyerhaeuser Way S.	

Table 16. Wetland 19 summary

WETLAND W19 – INFORMATION SUMMARY		
Location:	South and west of Weyerhaeuser Way S.	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	II
	Local Rating	II
	City of Federal Way Buffer Width	150 feet
	Wetland Size	0.22 acres within study area, but part of larger system: approximately 15 acres
	Cowardin Class	PAB, PEM, PSS, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	W19-SP1
	Upland Data Sheet(s)	W19-SP2
	Wetland Delineation	
Dominant Vegetation	Trees – western red cedar (<i>Thuja plicata</i>), red alder (<i>Alnus rubra</i>) Shrubs – vine maple (<i>Acer circinatum</i>), salmonberry (<i>Rubus spectabilis</i>), hardhack (<i>Spiraea douglasii</i>) Herbaceous – soft rush (<i>Juncus effusus</i>), creeping buttercup (<i>Ranunculus repens</i>)	
Soils	Organic soils were observed from 0 to 8 inches below the soil surface. Below the organic layer a mineral layer with a matrix of 10YR 2/2 containing redoximorphic concentrations was observed. These characteristics meet soil indicator Histic Epipedon (A2).	
Hydrology	Indicators met include High Water Table (A2), Saturation (A3), and Water Marks (B1).	
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology. Hydrology indicators and hydric soils helped to determine wetland boundary.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W19 rates as a Category II with a habitat score of 7.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored high with a score of 7, and habitat functions scored high with a score of 9. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is a large forested area dominated by Douglas fir, western red cedar, big leaf maple, vine maple, salal, and swordfern. Southern buffer area includes North Lake. Eastern buffer boundary is lined with single-family residential.	

Table 17. Wetland 20 Summary

WETLAND W20 – INFORMATION SUMMARY		
Location:	East of I-5 northbound, within WSDOT right-of-way	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	IV
	Local Rating	IV
	City of Federal Way Buffer Width	50 feet
	Wetland Size	0.2
	Cowardin Class	PEM
	HGM Class	Slope
	Wetland Data Sheet(s)	W20-SP1
	Upland Data Sheet(s)	W20-SP2, W20-SP3
Wetland Delineation		
Dominant Vegetation	Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>), Kentucky bluegrass (<i>Poa pratensis</i>), velvetgrass (<i>Holcus lanatus</i>)	
Soils	Soils were examined to have three layers. All layers are depleted with matrices of 2.5Y 4/1 (0 to 6 inches), 2.5Y 5/2 (6 to 10 inches), and 5Y 5/1 (10-16 inches). Redoximorphic features are present at 6 inches and below. These soil characteristics meet hydric soil indicator F3, Depleted Matrix.	
Hydrology	Indicators met include High Water Table (A2), Saturation (A3), Algal Mat or Crust (B4), and Oxidized Rhizospheres along Living Roots (C3).	
Rationale for Delineation	Slope wetland with hydric soils, supports hydrophytic vegetation, and has indicators for hydrology. Hydrology indicators helped to determine wetland boundary.	
Wetland Rating and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W20 rates as a Category IV with a habitat score of 3.	
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored low with a score of 4, and habitat functions scored low with a score of 3. Function rating details are in Appendix D.	
Wetland Buffers		
Buffer Condition	Buffer is a maintained mown easement adjacent to I-5 northbound. Southern buffer area includes some shrubbery.	

Table 18. Wetland 21 Summary

WETLAND W21 – INFORMATION SUMMARY		
Location:	West of I-5 southbound; east of 24 th Avenue South	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size^a	~0.34 acre
	Cowardin Class	PEM, PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Trees – black cottonwood (<i>Populus balsamifera</i>), red alder (<i>Alnus rubra</i>), and Oregon ash (<i>Fraxinus latifolia</i>) Shrubs – Sitka willow (<i>Salix sitchensis</i>), hardhack (<i>Spiraea douglasii</i>), and Himalayan blackberry (<i>Rubus armeniacus</i>) Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>)	
Soils	Soils not observed due to lack of entry permission.	
Hydrology	Hydrology not observed due to lack of entry permission. Roadside observations suggest seasonal flooding.	
Rationale for Delineation	Depressional wetland with observed hydrophytic vegetation and hydrology. Wetland boundary was estimated based on aerial photography and online resources.	
Wetland Rating and Functions		
Rationale for Local Rating^b	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W21 rates as a Category III with a habitat score of 5.	
Functions	Water quality and hydrologic functions are presumed moderate with the preliminary review. Habitat functions scored moderate with a score of 5.	
Wetland Buffers		
Buffer Condition	Buffer is limited to the surrounding upland forest. Extending beyond the upland forest includes residential development and I-5 southbound.	

^a approximate size based on aerial photography

^b preliminary rating based on observations from city road rights-of-way and online data sources.

Table 19. Wetland 22 Summary

WETLAND W22 – INFORMATION SUMMARY		
Location:	North of S 333 rd Street; west of Cedar Grove Park	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size^a	~0.81 acre
	Cowardin Class	PFO
	HGM Class	Depressional
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Trees – back cottonwood (<i>Populus balsamifera</i>), red alder (<i>Alnus rubra</i>) Shrubs – Sitka willow (<i>Salix sitchensis</i>), Himalayan blackberry (<i>Rubus armeniacus</i>)	
Soils	Soils not observed due to lack of entry permission.	
Hydrology	Hydrology not observed due to lack of entry permission. Roadside observations suggest saturation in proximity to stream.	
Rationale for Delineation	Depressional wetland with observed hydrophytic vegetation and hydrology. Wetland boundary was estimated based on aerial photography and online resources.	
Wetland Rating and Functions		
Rationale for Local Rating^b	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W22 rates as a Category III with a habitat score of 5.	
Functions	Water quality and hydrologic functions are presumed moderate with the preliminary review. Habitat functions scored moderate with a score of 5.	
Wetland Buffers		
Buffer Condition	Buffer is limited to the surrounding upland forest and stream corridor. Extending beyond includes residential development and a park	

^a approximate size based on aerial photography

^b preliminary rating based on observations from city road rights-of-way and online data sources.

Table 21. Wetland 23 Summary

WETLAND W23 – INFORMATION SUMMARY		
Location:	West of I-5 southbound; north of S 336 th Street	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size^a	0.27 acres
	Cowardin Class	PFO
	HGM Class	Riverine
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Trees – quaking aspen (<i>Populus tremuloides</i>), red alder (<i>Alnus rubra</i>) Shrubs – Sitka willow (<i>Salix sitchensis</i>) and Himalayan blackberry (<i>Rubus armeniacus</i>) Herbaceous – reed canarygrass (<i>Phalaris arundinacea</i>)	
Soils	Soils not observed due to lack of entry permission.	
Hydrology	Hydrology not observed due to lack of entry permission. Roadside observations suggest saturation in proximity to stream.	
Rationale for Delineation	Riverine wetland with hydrophytic vegetation and signs of hydrology (perennial stream). Wetland boundary was estimated based on aerial photography and online resources.	
Wetland Rating and Functions		
Rationale for Local Rating^b	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W23 rates as a Category III with a habitat score of 5.	
Functions	Water quality and hydrologic functions are presumed moderate with the preliminary review. Habitat functions scored moderate with a score of 5.	
Wetland Buffers		
Buffer Condition	Buffer is limited to the surrounding upland forested. Extending beyond the upland forest includes residential development and city roads.	

^a approximate size based on aerial photography

^b preliminary rating based on observations from city road rights-of-way and online data sources.

Table 22. Wetland 24 Summary

WETLAND W24 – INFORMATION SUMMARY		
Location:	North of S 336 th Street	
Wetland estimated based on aerial photography. No photos were taken.	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	IV
	Local Rating	IV
	City of Federal Way Buffer Width	50 feet
	Wetland Size^a	0.02 acres
	Cowardin Class	PEM
	HGM Class	Depressional
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Herbaceous – Kentucky bluegrass (<i>Poa pratensis</i>), creeping buttercup (<i>Ranunculus repens</i>)	
Soils	Soils not observed due to lack of entry permission.	
Hydrology	Hydrology not observed due to lack of entry permission.	
Rationale for Delineation	Depressional wetland with hydrophytic vegetation and observations of hydrology. Wetland boundary was estimated based on aerial photography and online resources.	
Wetland Rating and Functions		
Rationale for Local Rating^b	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W24 rates as a Category IV with a habitat score of 4.	
Functions	Water quality and hydrologic functions are presumed moderate to low with the preliminary review. Habitat functions scored moderate with a score of 4.	
Wetland Buffers		
Buffer Condition	Buffer contains a narrow swath of forested habitat with residential development and city roads.	

^a approximate size based on aerial photography

^b preliminary rating based on observations from city road rights-of-way and online data sources.

Table 23. Wetland 25 Summary

WETLAND W25 – INFORMATION SUMMARY		
Location:	South of S 336 th Street	
	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	II
	Local Rating	II
	City of Federal Way Buffer Width	150 feet
	Wetland Size^a	~1.50 acres
	Cowardin Class	PFO
	HGM Class	Riverine
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Trees – quaking aspen (<i>Populus tremuloides</i>), red alder (<i>Alnus rubra</i>), black cottonwood (<i>Populus balsamifera</i>)	
Soils	Soils not observed due to lack of entry permission.	
Hydrology	Hydrology not observed due to lack of entry permission. Roadside observations suggest saturation in proximity to stream.	
Rationale for Delineation	Riverine wetland with hydrophytic vegetation and observed hydrology (perennial stream). Wetland boundary was estimated based on aerial photography and online resources.	
Wetland Rating and Functions		
Rationale for Local Rating^b	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W25 rates as a Category II with a habitat score of 6.	
Functions	Water quality and hydrologic functions are presumed moderate to high with the preliminary review. Habitat functions scored moderate with a score of 6.	
Wetland Buffers		
Buffer Condition	Forested buffer extends for a limited distance east and west with county roads and highways fragmenting habitat.	

^a approximate size based on aerial photography

^b preliminary rating based on observations from city road rights-of-way and online data sources.

Table 24. Wetland 26 Summary

WETLAND W26 – INFORMATION SUMMARY		
Location:	North of S 330 th Street; west of Oakland Hills Blvd.	
Wetland estimated based on aerial photography. No photos were taken.	Local Jurisdiction	City of Federal Way
	Ecology Rating (2014)	III
	Local Rating	III
	City of Federal Way Buffer Width	80 feet
	Wetland Size^a	~0.68 acres
	Cowardin Class	PFO
	HGM Class	Riverine
	Wetland Data Sheet(s)	None (no entry permission)
	Upland Data Sheet(s)	None (no entry permission)
Wetland Delineation		
Dominant Vegetation	Trees – back cottonwood (<i>Populus balsamifera</i>), red alder (<i>Alnus rubra</i>) Shrubs – Sitka willow (<i>Salix sitchensis</i>), Himalayan blackberry (<i>Rubus armeniacus</i>)	
Soils	Soils not observed due to lack of entry permission.	
Hydrology	Hydrology not observed due to lack of entry permission.	
Rationale for Delineation	Riverine wetland with hydrophytic vegetation and observed hydrology. Wetland boundary was estimated based on aerial photography and online resources.	
Wetland Rating and Functions		
Rationale for Local Rating^b	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W26 rates as a Category III with a habitat score of 5.	
Functions	Water quality and hydrologic functions are presumed moderate with the preliminary review. Habitat functions scored moderate with a score of 5.	
Wetland Buffers		
Buffer Condition	Buffer is limited to the surrounding upland forest and stream corridor. Extending beyond includes residential development and a park	

^a approximate size based on aerial photography

^b preliminary rating based on observations from city road rights-of-way and online data sources.

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Appendix C
Wetland Delineation Data Sheets



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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W1-SP-1
 Investigator(s): Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S10
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315586 Long: -122.287857 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 W1-SP-1 is located in the middle of a reed canarygrass (*Phalaris arundinacea*) patch within a shallow depression approximately 120 feet north of S 320th St and west of S King County Fire and Rescue Station 64. A french drain has been installed along the eastern boundary of the Wetland W1 unit, extending north and south.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>		<u>100%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Juncus effusus</u>		<u>10%</u>	<u>No</u>	<u>FACW</u>	
3. <u>Hypericum perforatum</u>		<u>1%</u>	<u>No</u>	<u>FACU</u>	
4. <u>Galium aparine</u>		<u>1%</u>	<u>No</u>	<u>FACU</u>	
5. <u>Digitalis purpurea</u>		<u>1%</u>	<u>No</u>	<u>FACU</u>	
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>113%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W1-SP-2
 Investigator(s): Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S10
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315468 Long: -122.287727 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 Upland sample plot paired with W1-SP-2 and W1-SP-3. Sample plot is located SE and downslope of W1-SP-1.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Rubus armeniacus</u>		<u>40%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>40%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u> </u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Agrostis stolonifera</u>		<u>100%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Jacobaea vulgaris</u>		<u>20%</u>	<u>No</u>	<u>FACU</u>	
3. <u>Hypericum perforatum</u>		<u>2%</u>	<u>No</u>	<u>FACU</u>	
4. <u>Juncus effusus</u>		<u>1%</u>	<u>No</u>	<u>FACW</u>	
5. <u>Holcus lanatus</u>		<u>1%</u>	<u>No</u>	<u>FAC</u>	
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>124%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: City Center Access City/County: Federal Way / King Sampling Date: 5/03/2021
 Applicant/Owner: KC Fire Protection Dist 39 State: WA Sampling Point: W1-SP-2.1
 Investigator(s): Josh Wozniak, Amanda Weiss Section, Township, Range: T21N R04E S10
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): concave Slope (%): None
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315678 Long: -122.288620 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Tacoma NOAA weather station, precipitation was below the normal range for the three months prior to the site visit.

Remarks:
 This sample point is located upslope of Wetland 1. It is in proximity to Scouler's willow and salmonberry.

VEGETATION

<u>Tree Stratum</u>	<u>(Plot size: r=3m)</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 3 </u> (A) Total Number of Dominant Species Across All Strata: <u> 4 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 75% </u> (A/B)
1. <u>Salix scouleriana</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>20%</u>	<u>= Total Cover</u>		
<u>Sapling/Shrub Stratum</u>	<u>(Plot size: r=2m)</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Rubus armeniacus</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Rubus spectabilis</u>		<u>10%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>30%</u>	<u>= Total Cover</u>		
<u>Herb Stratum</u>	<u>(Plot size: r=1m)</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Dicentra formosa</u>		<u>40%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Polystichum munitum</u>		<u>10%</u>	<u>No</u>	<u>FACU</u>	
3. <u>Carex bolanderi</u>		<u>3%</u>	<u>No</u>	<u>FAC</u>	
4. <u>Hypericum perforatum</u>		<u>1%</u>	<u>No</u>	<u>FACU</u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>54%</u>	<u>= Total Cover</u>		
<u>Woody Vine Stratum</u>	<u>(Plot size: r=2m)</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u>	<u>= Total Cover</u>		
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W2-SP-3
 Investigator(s): Per Johnson, Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S10
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 3-5%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315296 Long: -122.290276 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 W1-SP-3 is located north of S. 320th St., north of upland berm with evidence of ponding up to 6-inches above surface.

VEGETATION

Tree Stratum	Plot size:	3m semi-circle	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
1. <u>Malus fusca</u>			<u>100%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u> </u>						
3. <u> </u>						
4. <u> </u>						
			<u>100%</u> = Total Cover			Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
Sapling/Shrub Stratum	Plot size:	2m semi-circle				
1. <u>Rubus leucodermis</u>			<u>20%</u>	<u>Yes</u>	<u>FACU</u>	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
2. <u>Spiraea douglasii</u>			<u>15%</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Rubus armeniacus</u>			<u>5%</u>	<u>No</u>	<u>FAC</u>	
4. <u>Rubus laciniatus</u>			<u>5%</u>	<u>No</u>	<u>FACU</u>	
5. <u> </u>						
			<u>45%</u> = Total Cover			
Herb Stratum	Plot size:	r=1m				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>none</u>						
2. <u> </u>						
3. <u> </u>						
4. <u> </u>						
5. <u> </u>						
6. <u> </u>						
7. <u> </u>						
8. <u> </u>						
9. <u> </u>						
10. <u> </u>						
11. <u> </u>						
			<u>0%</u> = Total Cover			
Woody Vine Stratum	Plot size:	2m semi-circle				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>none</u>						
2. <u> </u>						
			<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum			<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W2-SP-4
 Investigator(s): Per Johnson, Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S10
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315216 Long: -122.290916 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 W2-SP-4 is located approximately 500 feet west of Weyerhaeuser Way S and S 320th St, west of a ditch.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1.	<u>Populus balsamifera</u>	<u>65%</u>	<u>Yes</u>	<u>FAC</u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>65%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>80</u> x 2 = <u>160</u> FAC species <u>155</u> x 3 = <u>465</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>235</u> (A) <u>625</u> (B) Prevalence Index = B/A = <u>2.66</u>
1.	<u>Cornus alba</u>	<u>60%</u>	<u>Yes</u>	<u>FACW</u>	
2.	<u>Spiraea douglasii</u>	<u>20%</u>	<u>Yes</u>	<u>FACW</u>	
3.	<u>Lonicera involucrata</u>	<u>15%</u>	<u>No</u>	<u>FAC</u>	
4.	<u>Rosa nutkana</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>100%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u> </u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1.	<u>Agrostis capillaris</u>	<u>35%</u>	<u>Yes</u>	<u>FAC</u>	
2.	<u>Poa pratensis</u>	<u>35%</u>	<u>Yes</u>	<u>FAC</u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
11.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>70%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1.	<u>none</u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>30%</u>			

Remarks:
 Area appears to be planted given that the trees have collars around them.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W2-SP-5
 Investigator(s): Per Johnson, Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S10
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315205 Long: -122.290703 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 W2-SP-5 is the paired upland pit to W2-SP-4. It is located east of W2-SP-4 on a hillslope.

VEGETATION

<u>Tree Stratum</u>	<u>(Plot size: r=3m)</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Dominance Test worksheet:	
1.	<u>Populus balsamifera</u>	<u>80%</u>	<u>Yes</u>	<u>FAC</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60%</u> (A/B)	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet:	
5.	<u> </u>	<u>80%</u>	<u> </u>	<u> </u>		Total % Cover of: <u> </u> Multiply by: <u> </u>
Sapling/Shrub Stratum (Plot size: r=2m)					OBL species <u> </u> x 1 = <u> </u>	
1.	<u>Mahonia nervosa</u>	<u>20%</u>	<u>Yes</u>	<u>FACU</u>	FACW species <u> </u> x 2 = <u> </u>	
2.	<u>Oemleria cerasiformis</u>	<u>15%</u>	<u>Yes</u>	<u>FACU</u>	FAC species <u> </u> x 3 = <u> </u>	
3.	<u>Rubus armeniacus</u>	<u>9%</u>	<u>Yes</u>	<u>FAC</u>	FACU species <u> </u> x 4 = <u> </u>	
4.	<u>Populus balsamifera</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>	UPL species <u> </u> x 5 = <u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Column Totals: <u> </u> (A) <u> </u> (B)	
Herb Stratum (Plot size: r=1m)					Prevalence Index = B/A = <u> </u>	
1.	<u>Poa pratensis</u>	<u>85%</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators:	
2.	<u>Agrostis capillaris</u>	<u>15%</u>	<u>No</u>	<u>FAC</u>		<u>1</u> - Rapid Test for Hydrophytic Vegetation
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u>X</u> <u>2</u> - Dominance Test is >50%
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u>3</u> - Prevalence Index is ≤3.0 ¹
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u>5</u> - Wetland Non-Vascular Plants ¹
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		¹ Indicators of hydric soil and wetland hydrology must be present.
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
11.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Woody Vine Stratum (Plot size: r=2m)					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	
1.	<u>none</u>	<u> </u>	<u> </u>	<u> </u>		
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
% Bare Ground in Herb Stratum <u> </u>						
Remarks:						

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W3-SP-6
 Investigator(s): Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S09
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315193 Long: -122.293503 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 Wetland W3 is effectively a vegetated roadside ditch with no apparent outlet, north of S 320th Street and east of NB I-5 onramp. W3-SP-6 located within wetland unit. Due to proximity of buried power and communications utilities, disturbed soil conditions from the S 320th fill embankment, and abundant unsafe human debris (e.g., hyperdermic needles), a soils and hydrology conditions below grade were not explored.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>		<u>100%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Juncus effusus</u>		<u>40%</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Agrostis capillaris</u>		<u>30%</u>	<u>No</u>	<u>FAC</u>	
4. <u>Lotus corniculatus</u>		<u>15%</u>	<u>No</u>	<u>FAC</u>	
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>185%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 5 - Wetland Non-Vascular Plants¹
 Problematic Hydrophytic Vegetation (Explain)¹
¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 7/24/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W3-SP-7
 Investigator(s): Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S09
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315208 Long: -122.292679 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was above the normal range for the three months prior to the site visit.

Remarks:
 Paired upland sample plot for Wetland W3 located upslope and east of Wetland W3, upon fill prism for gravel driveway and adjacent to power pole. Due to proximity of buried power and communications utilities, disturbed soil conditions from the S 320th fill embankment, and abundant unsafe human debris (e.g., hyperdermic needles), a soils and hydrology conditions below grade were not explored.

VEGETATION

<u>Tree Stratum</u>	<u>(Plot size: r=3m)</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Dominance Test worksheet:
1. <u>none</u>					
2. <u> </u>					Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. <u> </u>					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
4. <u> </u>					Prevalence Index worksheet:
					Total % Cover of: <u>90%</u> Multiply by: <u> </u>
					OBL species <u> </u> x 1 = <u> </u>
					FACW species <u> </u> x 2 = <u> </u>
					FAC species <u> </u> x 3 = <u> </u>
					FACU species <u> </u> x 4 = <u> </u>
					UPL species <u> </u> x 5 = <u> </u>
					Column Totals: <u> </u> (A) <u> </u> (B)
					Prevalence Index = B/A = <u> </u>
Hydrophytic Vegetation Indicators:					
<u> </u> 1 - Rapid Test for Hydrophytic Vegetation					
<u>X</u> 2 - Dominance Test is >50%					
<u> </u> 3 - Prevalence Index is ≤3.0 ¹					
<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
<u> </u> 5 - Wetland Non-Vascular Plants ¹					
<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹					
¹ Indicators of hydric soil and wetland hydrology must be present.					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>					
% Bare Ground in Herb Stratum <u>0%</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/13/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W5-SP-8
 Investigator(s): Per Johnson Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): none Slope (%): None
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.313820 Long: -122.296265 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Sample plot is within the mineral edge of a large previously identified wetland, the inner portion of which is a bog (see W5-SP-24). W5-SP-8 location is approximately 20 feet northeast of the outlet of a stormwater overflow pipe from Wetland W8 (a stormwater pond) which extends west below the I-5 NB off-ramp to the eastern toe of a fill slope, west of the Olympic Pipeline easement.

VEGETATION

<u>Tree Stratum</u>	(Plot size: 3m semi-circle)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Alnus rubra</u>		<u>90%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Fraxinus latifolia</u>		<u>10%</u>	<u>No</u>	<u>FACW</u>	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. <u>Sorbus aucuparia</u>		<u>2%</u>	<u>No</u>	<u>NOL</u>	
				<u>102%</u> = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
<u>Sapling/Shrub Stratum</u>	(Plot size: 3m semi-circle)				
1. <u>none</u>					Prevalence Index worksheet:
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
				<u>0%</u> = Total Cover	Total % Cover of: <u> </u> Multiply by: <u> </u>
<u>Herb Stratum</u>	(Plot size: 2m semi-circle)				OBL species <u> </u> x 1 = <u> </u>
1. <u>none</u>					FACW species <u> </u> x 2 = <u> </u>
2. <u> </u>					FAC species <u> </u> x 3 = <u> </u>
3. <u> </u>					FACU species <u> </u> x 4 = <u> </u>
4. <u> </u>					UPL species <u> </u> x 5 = <u> </u>
5. <u> </u>					Column Totals: <u> </u> (A) <u> </u> (B)
6. <u> </u>					Prevalence Index = B/A = <u> </u>
7. <u> </u>					Hydrophytic Vegetation Indicators:
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
<u>Woody Vine Stratum</u>	(Plot size: 1m semi-circle)				1 - Rapid Test for Hydrophytic Vegetation <u> </u>
1. <u>none</u>					X 2 - Dominance Test is >50% <u> </u>
2. <u> </u>					3 - Prevalence Index is ≤3.0 ¹ <u> </u>
				<u>0%</u> = Total Cover	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u>
				<u>0%</u> = Total Cover	5 - Wetland Non-Vascular Plants ¹ <u> </u>
				<u>0%</u> = Total Cover	Problematic Hydrophytic Vegetation (Explain) ¹ <u> </u>
				<u>100%</u>	¹ Indicators of hydric soil and wetland hydrology must be present.
				<u>100%</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/13/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W5-SP-9
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 3-5%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.313866 Long: -122.296394 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Sample plot is within the uplands adjacent to W5-SP-8.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Alnus rubra</u>	<u>70%</u>	<u>Yes</u>	<u>FAC</u>
2.	<u>Thuja plicata</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>100%</u>	<u>= Total Cover</u>	
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Rubus ursinus</u>	<u>50%</u>	<u>Yes</u>	<u>FACU</u>
2.	<u>Rubus spectabilis</u>	<u>25%</u>	<u>Yes</u>	<u>FAC</u>
3.	<u>Oemleria cerasiformis</u>	<u>15%</u>	<u>No</u>	<u>FACU</u>
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>90%</u>	<u>= Total Cover</u>	
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Polystichum munitum</u>	<u>30%</u>	<u>Yes</u>	<u>FACU</u>
2.	<u>Equisetum hyemale</u>	<u>2%</u>	<u>No</u>	<u>FACW</u>
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
11.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>32%</u>	<u>= Total Cover</u>	
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>none</u>	<u> </u>	<u> </u>	<u> </u>
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>0%</u>	<u>= Total Cover</u>	
% Bare Ground in Herb Stratum		<u>20%</u>		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/B)

Prevalence Index worksheet:

Total % Cover of: Multiply by:

OBL species x 1 =

FACW species x 2 =

FAC species x 3 =

FACU species x 4 =

UPL species x 5 =

Column Totals: (A) (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 5 - Wetland Non-Vascular Plants¹

 Problematic Hydrophytic Vegetation (Explain)¹

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No

Remarks:
 40% moss cover in herb strata

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 4/30/2019
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W5-SP-23
 Investigator(s): Per Johnson Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): None
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.312046 Long: -122.296600 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmC - Not Hydric NWI classification: PSS/EM1C
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Sample plot is located within Wetland 5, 15 feet east of delineated bog edge. Corresponds to DP-1 from 2019 bog delineation.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
1. <u>Alnus rubra</u>		<u>90%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>90%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Oemleria cerasiformis</u>		<u>50%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>50%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u> </u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Glyceria striata</u>		<u>40%</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Urtica dioica</u>		<u>5%</u>	<u>No</u>	<u>FAC</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>45%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:
 Vegetation plots chosen to capture wetland versus upland hummocks.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: _____ Sampling Date: 4/30/2019
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W5-SP-24
 Investigator(s): Jeff Meyer and Kaylee Moser Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 3-5%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.312042 Long: -122.296822 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Orcas Peat - Or - Hydric NWI classification: PSS/EM1C
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 W5-SP-24 is located inside a delineated bog within Wetland W5, approximately 10 feet west of the eastern edge of the bog. Corresponds to DP-2 from 2019 bog delineation.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Tsuga heterophylla</u>		<u>100%</u>	<u>Yes</u>	<u>FACU</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____		_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____		_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)	
4. _____		_____	_____	_____	Prevalence Index worksheet:	
<u>100%</u> = Total Cover						Total % Cover of: _____ Multiply by: _____
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	OBL species _____ x 1 = _____	
1. <u>Sambucus racemosa</u>		<u>30%</u>	<u>Yes</u>	<u>FACU</u>	FACW species _____ x 2 = _____	
2. <u>Rubus spectabilis</u>		<u>15%</u>	<u>Yes</u>	<u>FAC</u>	FAC species _____ x 3 = _____	
3. _____		_____	_____	_____	FACU species _____ x 4 = _____	
4. _____		_____	_____	_____	UPL species _____ x 5 = _____	
5. _____		_____	_____	_____	Column Totals: _____ (A) _____ (B)	
<u>45%</u> = Total Cover					Prevalence Index = B/A = _____	
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <u>none</u>		_____	_____	_____		1 - Rapid Test for Hydrophytic Vegetation _____
2. _____		_____	_____	_____		2 - Dominance Test is >50% _____
3. _____		_____	_____	_____		3 - Prevalence Index is ≤3.0 ¹ _____
4. _____		_____	_____	_____		X 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____		_____	_____	_____		5 - Wetland Non-Vascular Plants ¹ _____
6. _____		_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) ¹ _____
7. _____		_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
8. _____		_____	_____	_____		
9. _____		_____	_____	_____		
10. _____		_____	_____	_____		
11. _____		_____	_____	_____		
<u>0%</u> = Total Cover						
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>none</u>		_____	_____	_____		
2. _____		_____	_____	_____		
<u>0%</u> = Total Cover						
% Bare Ground in Herb Stratum <u>10%</u>						

Remarks:
 Tsuga heterophylla meets special characteristics; is a bog adapted species.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/18/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W6-SP-10
 Investigator(s): Matt Murphy, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): valley narrow Local relief (concave, convex, none): none Slope (%): 3-5%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.310406 Long: -122.302139 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Sample plot located within Wetland W6, along right (west) bank of Stream 1 (East Fork Hylebos Creek) in Belmor Park. Located along narrow floodbench adjacent to channel with steep slopes.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>3m x 1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Thuja plicata</u>		<u>5%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet:
5% = Total Cover					
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>2m x 1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	OBL species <u> </u> x 1 = <u> </u>
1. <u>Rubus armeniacus</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	FACW species <u> </u> x 2 = <u> </u>
2. <u>Rubus spectabilis</u>		<u>10%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u> </u> x 3 = <u> </u>
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u> x 4 = <u> </u>
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	UPL species <u> </u> x 5 = <u> </u>
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Column Totals: <u> </u> (A) <u> </u> (B)
30% = Total Cover					Prevalence Index = B/A = <u> </u>
<u>Herb Stratum</u>	(Plot size: <u>1m x 1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Phalaris arundinacea</u>		<u>50%</u>	<u>Yes</u>	<u>FACW</u>	<u> </u> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>Equisetum telmateia</u>		<u>15%</u>	<u>No</u>	<u>FACW</u>	<u>X</u> 2 - Dominance Test is >50%
3. <u>Solanum dulcamara</u>		<u>15%</u>	<u>No</u>	<u>FAC</u>	<u> </u> 3 - Prevalence Index is ≤3.0 ¹
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> 5 - Wetland Non-Vascular Plants ¹
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present.
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
80% = Total Cover					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
<u>Woody Vine Stratum</u>	(Plot size: <u>1=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
0% = Total Cover					
% Bare Ground in Herb Stratum <u>open water</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/18/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W6-SP-11
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): >10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.310421 Long: -122.302277 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Paired upland pit for Wetland W6

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Salix scouleriana</u>		<u>80%</u>	<u>Yes</u>	<u>FAC</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. <u>Thuja plicata</u>		<u>30%</u>	<u>Yes</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>6</u> (B)	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet:	
110% = Total Cover						Total % Cover of: <u> </u> Multiply by: <u> </u>
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	OBL species <u> </u> x 1 = <u> </u>	
1. <u>Rubus armeniacus</u>		<u>30%</u>	<u>Yes</u>	<u>FAC</u>	FACW species <u> </u> x 2 = <u> </u>	
2. <u>Rubus ursinus</u>		<u>15%</u>	<u>Yes</u>	<u>FACU</u>	FAC species <u> </u> x 3 = <u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u> x 4 = <u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	UPL species <u> </u> x 5 = <u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Column Totals: <u> </u> (A) <u> </u> (B)	
45% = Total Cover					Prevalence Index = B/A = <u> </u>	
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <u>Equisetum telmateia</u>		<u>5%</u>	<u>Yes</u>	<u>FACW</u>		<u> </u> 1 - Rapid Test for Hydrophytic Vegetation
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>		<u>X</u> 2 - Dominance Test is >50%
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u> 3 - Prevalence Index is ≤3.0 ¹
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u> 5 - Wetland Non-Vascular Plants ¹
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>		¹ Indicators of hydric soil and wetland hydrology must be present.
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
5% = Total Cover						
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Ilex aquifolium</u>		<u>2%</u>	<u>Yes</u>	<u>FACU</u>		
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
2% = Total Cover						
% Bare Ground in Herb Stratum <u>55%</u>						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/18/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: SP-12
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): flat Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.305656 Long: -122.301895 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Upland sample plot located 20 feet east from soundwall and 75 feet from exit 142A sign. Snags present nearby within a facultative dominated vegetation community, suggesting potential changes to hydrology such as altered hydrology or establishment of wetland conditions. However, no indication of wetland conditions observed below grade. Sample plot not associated with a wetland.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	<u>Populus balsamifera</u>	<u>70%</u>	<u>Yes</u>	<u>FAC</u>	
2.	<u>Salix scouleriana</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet:
100% = Total Cover					
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	OBL species <u> </u> x 1 = <u> </u>
1.	<u>Rubus ursinus</u>	<u>15%</u>	<u>Yes</u>	<u>FACU</u>	FACW species <u> </u> x 2 = <u> </u>
2.	<u>Rubus armeniacus</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u> </u> x 3 = <u> </u>
3.	<u>Acer macrophyllum</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>	FACU species <u> </u> x 4 = <u> </u>
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	UPL species <u> </u> x 5 = <u> </u>
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Column Totals: <u> </u> (A) <u> </u> (B)
27% = Total Cover					Prevalence Index = B/A = <u> </u>
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1.	<u>Agrostis stolonifera</u>	<u>100%</u>	<u>Yes</u>	<u>FAC</u>	<u> </u> 1 - Rapid Test for Hydrophytic Vegetation
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>X</u> 2 - Dominance Test is >50%
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> 3 - Prevalence Index is ≤3.0 ¹
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> 5 - Wetland Non-Vascular Plants ¹
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present.
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
11.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
100% = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>none</u>	<u>0%</u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
0% = Total Cover					
% Bare Ground in Herb Stratum <u>0%</u>					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/18/2020 & 11/11/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W9-SP-13
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): sloped depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.314583 Long: -122.296806 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the 8/18/2020 and 11/11/2020 site visits.

Remarks:
 SP for Wetland 9 located within the looping northbound I-5 on-ramp, south of S 320th Street. This SP was observed on both 8/18/2020 and 11/11/2020.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>none</u>						Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____					Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
3. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____					Prevalence Index worksheet:	
5. _____		0% = Total Cover				Total % Cover of: _____ Multiply by: _____
Sapling/Shrub Stratum (Plot size: <u>r=2m</u>)						OBL species _____ x 1 = _____
1. <u>none</u>						FACW species _____ x 2 = _____
2. _____						FAC species _____ x 3 = _____
3. _____					FACU species _____ x 4 = _____	
4. _____					UPL species _____ x 5 = _____	
5. _____		0% = Total Cover			Column Totals: _____ (A) _____ (B)	
Herb Stratum (Plot size: <u>r=1m</u>)					Prevalence Index = B/A = _____	
1. <u>Phalaris arundinacea</u>		100%	Yes	FACW	Hydrophytic Vegetation Indicators:	
2. _____						<u>1</u> - Rapid Test for Hydrophytic Vegetation
3. _____						<u>X</u> 2 - Dominance Test is >50%
4. _____						<u> </u> 3 - Prevalence Index is ≤3.0 ¹
5. _____						<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6. _____						<u> </u> 5 - Wetland Non-Vascular Plants ¹
7. _____						<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
8. _____						¹ Indicators of hydric soil and wetland hydrology must be present.
9. _____						
10. _____						
11. _____		100% = Total Cover				
Woody Vine Stratum (Plot size: <u>r=2m</u>)					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	
1. _____						
2. _____						
% Bare Ground in Herb Stratum <u>0%</u> = Total Cover						

Remarks:
 Vegetation conditions did not change between the 8/18/2020 and 11/11/2020 field visit.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/18/2020 & 11/11/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W9-SP-14
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.314621 Long: -122.296700 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the 8/18/2020 and 11/11/2020 site visits.

Remarks:
 Paired upland pit for W9 located just north and upslope of W9 within I-5 footprint. This sample plot was observed on both 8/18/2020 and 11/11/2020.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 2 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				
1. <u>Holcus lanatus</u>		<u>60%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Agrostis stolonifera</u>		<u>40%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Hypochaeris radicata</u>		<u>5%</u>	<u>No</u>	<u>FACU</u>	
4. <u>Plantago lanceolata</u>		<u>2%</u>	<u>No</u>	<u>FACU</u>	
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>107%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u> </u>			

Remarks:
 Vegetation conditions did not change between the 8/18/2020 and 11/11/2020 field visits.

Parametrix

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
 Project No.: 554-2441-022

US Army Corps of Engineers
 Western Mountains, Valleys, and Coast Region (Version 2.0)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/19/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W10-SP-15
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S09
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): >10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315601 Long: -122.296219 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgC - Not Hydric NWI classification: PSSCx
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Approximately 1 foot east of ponded area, along narrow band of seasonally to occasionally inundated Wetland 10.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Alnus rubra</u>		<u>85%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet:
5. <u> </u>		<u>85%</u>	<u> </u>	<u> </u>	
Sapling/Shrub Stratum (Plot size: <u>r=2m</u>)					OBL species <u> </u> x 1 = <u> </u>
1. <u>Cornus alba</u>		<u>30%</u>	<u>Yes</u>	<u>FACW</u>	FACW species <u> </u> x 2 = <u> </u>
2. <u>Salix lasiandra</u>		<u>25%</u>	<u>Yes</u>	<u>FACW</u>	FAC species <u> </u> x 3 = <u> </u>
3. <u>Rubus armeniacus</u>		<u>5%</u>	<u>No</u>	<u>FAC</u>	FACU species <u> </u> x 4 = <u> </u>
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	UPL species <u> </u> x 5 = <u> </u>
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Column Totals: <u> </u> (A) <u> </u> (B)
					Prevalence Index = B/A = <u> </u>
Herb Stratum (Plot size: <u>r=1m</u>)					Hydrophytic Vegetation Indicators:
1. <u>Carex obnupta</u>		<u>25%</u>	<u>Yes</u>	<u>OBL</u>	<u> </u> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>Phalaris arundinacea</u>		<u>20%</u>	<u>Yes</u>	<u>FACW</u>	<u>X</u> 2 - Dominance Test is >50%
3. <u>Ranunculus repens</u>		<u>5%</u>	<u>No</u>	<u>FAC</u>	<u> </u> 3 - Prevalence Index is ≤3.0 ¹
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> 5 - Wetland Non-Vascular Plants ¹
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present.
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
Woody Vine Stratum (Plot size: <u>r=2m</u>)					Hydrophytic Vegetation Present?
1. <u>none</u>		<u> </u>	<u> </u>	<u> </u>	Yes <u>X</u> No <u> </u>
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
% Bare Ground in Herb Stratum <u>0%</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/19/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W10-SP-16
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S09
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): >10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.315613 Long: -122.296112 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Located approximately 6 feet from W10-SP-15, upslope approximately 4 feet in elevation from ponded water.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>3mx2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Alnus rubra</u>		<u>90%</u>	<u>Yes</u>	<u>FAC</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u>Salix scouleriana</u>		<u>10%</u>	<u>No</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet:	
				<u>100%</u> = Total Cover		Total % Cover of: <u> </u> Multiply by: <u> </u>
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	OBL species <u> </u> x 1 = <u> </u>	
1. <u>Oemleria cerasiformis</u>		<u>50%</u>	<u>Yes</u>	<u>FACU</u>	FACW species <u> </u> x 2 = <u> </u>	
2. <u>Rubus armeniacus</u>		<u>15%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u> </u> x 3 = <u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u> x 4 = <u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	UPL species <u> </u> x 5 = <u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	Column Totals: <u> </u> (A) <u> </u> (B)	
				<u>65%</u> = Total Cover	Prevalence Index = B/A = <u> </u>	
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <u>Ranunculus repens</u>		<u>90%</u>	<u>Yes</u>	<u>FAC</u>	<u>1</u> - Rapid Test for Hydrophytic Vegetation	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>X</u> <u>2</u> - Dominance Test is >50%	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>3</u> - Prevalence Index is ≤3.0 ¹	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>5</u> - Wetland Non-Vascular Plants ¹	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present.	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
				<u>90%</u> = Total Cover		
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>		
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>		
				<u>0%</u> = Total Cover		
% Bare Ground in Herb Stratum		<u>10%</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/19/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W11-SP-17
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S09
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.317001 Long: -122.295387 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Water - W - Not Hydric NWI classification: PEM1F
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Near WSDOT northern project boundary east of I-5 northbound on ramp.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Fraxinus latifolia</u>		<u>90%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Alnus rubra</u>		<u>10%</u>	<u>No</u>	<u>FAC</u>	
3. <u>Populus balsamifera</u>		<u>10%</u>	<u>No</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>110%</u>	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Prevalence Index worksheet:
1. <u>Spiraea douglasii</u>		<u>15%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Rubus spectabilis</u>		<u>10%</u>	<u>Yes</u>	<u>FAC</u>	OBL species <u> </u> x 1 = <u> </u>
3. <u>Fraxinus latifolia</u>		<u>5%</u>	<u>No</u>	<u>FACW</u>	FACW species <u> </u> x 2 = <u> </u>
4. <u>Populus balsamifera</u>		<u>5%</u>	<u>No</u>	<u>FAC</u>	FAC species <u> </u> x 3 = <u> </u>
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	FACU species <u> </u> x 4 = <u> </u>
		<u>35%</u>	= Total Cover		UPL species <u> </u> x 5 = <u> </u>
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Column Totals: <u> </u> (A) <u> </u> (B)
1. <u>Carex obnupta</u>		<u>2%</u>	<u>No</u>	<u>OBL</u>	Prevalence Index = B/A = <u> </u>
2. <u>Geum macrophyllum</u>		<u>1%</u>	<u>No</u>	<u>FAC</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>3%</u>	= Total Cover		
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				Hydrophytic Vegetation Indicators:
1. <u>none</u>		<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>X</u> <u>2</u> - Dominance Test is >50%
		<u>0%</u>	= Total Cover		<u>3</u> - Prevalence Index is ≤3.0 ¹
% Bare Ground in Herb Stratum		<u>97%</u>			<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
					<u>5</u> - Wetland Non-Vascular Plants ¹
					<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
					¹ Indicators of hydric soil and wetland hydrology must be present.
					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/19/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W11-SP-18
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S09
 Landform (hillslope, terrace, etc.): hillslop Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.316986 Long: -122.295593 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 W11 upland plot approximately 20ft west of W11-SP-17

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Fraxinus latifolia</u>		<u>80%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Alnus rubra</u>		<u>20%</u>	<u>No</u>	<u>FAC</u>	
3. <u>Acer macrophyllum</u>		<u>15%</u>	<u>No</u>	<u>FACU</u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>115%</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>Lonicera involucrata</u>		<u>15%</u>	<u>Yes</u>	<u>FAC</u>	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
2. <u>Vaccinium ovalifolium</u>		<u>10%</u>	<u>Yes</u>	<u>UPL</u>	
3. <u>Rubus spectabilis</u>		<u>5%</u>	<u>No</u>	<u>FAC</u>	
4. <u>Spiraea douglasii</u>		<u>2%</u>	<u>No</u>	<u>FACW</u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>32%</u>	= Total Cover		
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Rubus ursinus</u>		<u>60%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>60%</u>	= Total Cover		
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u>	= Total Cover		
% Bare Ground in Herb Stratum		<u>40%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/19/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W12-SP-19
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): valley/depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.312946 Long: -122.299057 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood material - AmC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Between I-5 southbound on-ramp and I-5 main travel lanes, SW of 320th intersection

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Juncus effusus</u>		<u>65%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Phalaris arundinacea</u>		<u>30%</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Agrostis stolonifera</u>		<u>10%</u>	<u>No</u>	<u>FAC</u>	
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>105%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 8/19/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W12-SP-20
 Investigator(s): Per Johnson, Aaron Thom Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 5-10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.312950 Long: -122.298889 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Arents, Alderwood materia - AmC - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Wetland 12 upland sample plot.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>none</u>						Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____					Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____					Prevalence Index worksheet:	
5. _____						Total % Cover of: _____ Multiply by: _____
0% = Total Cover					OBL species _____ x 1 = _____	
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	FACW species _____ x 2 = _____	
1. <u>none</u>					FAC species _____ x 3 = _____	
2. _____					FACU species _____ x 4 = _____	
3. _____					UPL species _____ x 5 = _____	
4. _____					Column Totals: _____ (A) _____ (B)	
5. _____					Prevalence Index = B/A = _____	
0% = Total Cover					Hydrophytic Vegetation Indicators:	
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status		1 - Rapid Test for Hydrophytic Vegetation
1. <u>Holcus lanatus</u>		<u>45%</u>	<u>Yes</u>	<u>FAC</u>		<u>X</u> 2 - Dominance Test is >50%
2. <u>Agrostis stolonifera</u>		<u>45%</u>	<u>Yes</u>	<u>FAC</u>		3 - Prevalence Index is ≤3.0 ¹
3. <u>Cirsium arvense</u>		<u>5%</u>	<u>No</u>	<u>FAC</u>		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Phalaris arundinacea</u>		<u>5%</u>	<u>No</u>	<u>FACW</u>		5 - Wetland Non-Vascular Plants ¹
5. _____						Problematic Hydrophytic Vegetation (Explain) ¹
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present.
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100% = Total Cover					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>none</u>						
2. _____						
0% = Total Cover						
% Bare Ground in Herb Stratum <u>0%</u>						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 9/2/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W13-SP-21
 Investigator(s): Per Johnson Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.314716 Long: -122.290291 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was lower the normal range for the three months prior to the site visit.

Remarks:
 East edge of W13 south of 320th

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)
1.	<u>Prunus emarginata</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>10%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1.	<u>Spiraea douglasii</u>	<u>25%</u>	<u>Yes</u>	<u>FACW</u>	
2.	<u>Salix scouleriana</u>	<u>25%</u>	<u>Yes</u>	<u>FAC</u>	
3.	<u>Cornus alba</u>	<u>15%</u>	<u>Yes</u>	<u>FACW</u>	
4.	<u>Populus balsamifera</u>	<u>10%</u>	<u>No</u>	<u>FAC</u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>75%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u> </u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> <u>5</u> - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1.	<u>Tolmiea menziesii</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>	
2.	<u>Juncus effusus</u>	<u>3%</u>	<u>No</u>	<u>FACW</u>	
3.	<u>Carex species</u>	<u>3%</u>	<u>No</u>	<u>FAC</u>	
4.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
9.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
10.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
11.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>16%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1.	<u>none</u>	<u> </u>	<u> </u>	<u> </u>	
2.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 9/2/2020
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W13-SP-22
 Investigator(s): Per Johnson Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5-10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.314694 Long: -122.290169 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was lower the normal range for the three months prior to the site visit.

Remarks:
 Approximately 5 ft east of W13 boundary on gradual slope.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>					
2. _____					Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. _____					
4. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
		<u>0%</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Prevalence Index worksheet:
1. <u>Acer circinatum</u>		<u>25%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Oemleria cerasiformis</u>		<u>20%</u>	<u>Yes</u>	<u>FACU</u>	OBL species _____ x 1 = _____
3. <u>Rubus spectabilis</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	FACW species _____ x 2 = _____
4. <u>Rubus armeniacus</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	FAC species _____ x 3 = _____
5. <u>Ilex aquifolium</u>		<u>15%</u>	<u>No</u>	<u>FACU</u>	FACU species _____ x 4 = _____
		<u>100%</u>	= Total Cover		UPL species _____ x 5 = _____
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Column Totals: <u> </u> (A) <u> </u> (B)
1. <u>Polystichum munitum</u>		<u>5%</u>	<u>Yes</u>	<u>FACU</u>	Prevalence Index = B/A = _____
2. <u>Epilobium ciliatum</u>		<u>5%</u>	<u>Yes</u>	<u>FACW</u>	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
		<u>10%</u>	= Total Cover		
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				Hydrophytic Vegetation Indicators:
1. <u>none</u>					
2. _____					<u>X</u> <u>2</u> - Dominance Test is >50%
		<u>0%</u>	= Total Cover		<u>3</u> - Prevalence Index is ≤3.0 ¹
% Bare Ground in Herb Stratum	<u>0%</u>				<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
					<u>5</u> - Wetland Non-Vascular Plants ¹
					Problematic Hydrophytic Vegetation (Explain) ¹
					¹ Indicators of hydric soil and wetland hydrology must be present.
					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W16-SP-1
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.310883 Long: -122.289017 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>		
Wetland Hydrology Present?	Yes _____ No <u>X</u>		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This is the upland paired soil plot o W16-SP1 located on a stream terrace above stream 2.

VEGETATION

<u>Tree Stratum</u> (Plot size: <u>r=3m</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>Alnus rubra</u>	<u>70%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Pseudotsuga menziesii</u>	<u>30%</u>	<u>Yes</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>100%</u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>r=2m</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. <u>Rubus spectabilis</u>	<u>40%</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
2. <u>Rubus ursinus</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	
3. <u>Acer circinatum</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>50%</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>r=1m</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. <u>Polystichum munitum</u>	<u>20%</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>20%</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>r=2m</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. <u>none</u>	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum	<u>80%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W16-SP-2
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): stream channel Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.310913 Long: -122.289017 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 Sample plot is adjacent to Stream 2 at the tow of a slope that creates a confined channel. This is the paired sample plot to W16-SP1.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Rubus spectabilis</u>		<u>70%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Rubus ursinus</u>		<u>5%</u>	<u>No</u>	<u>FACU</u>	
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>75%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Polystichum munitum</u>		<u>3%</u>	<u>No</u>	<u>FACU</u>	
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>3%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>10%</u>			

Remarks:

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-3	10YR 3/3	75	10YR 4/6	15	C	M	SaL	
3-8	10YR 3/2	75	10YR 4/6	15	C	M	Cobbly Loam	
8-16	10YR 3/1	80	10YR 3/4	20	C	M	Cobbly Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.
³Texture: Sa = sand; Si = silt; C = clay; L = loam or loamy. Texture Modifier: co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

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

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils³:
<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 checked="" 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)	

2 cm Muck (A10)
 Red Parent Material (TF2)
 Very Shallow Dark Surface (TF12)
 Other (Explain in Remarks)

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

Restrictive Layer (if present):

Type: none

Depth (inches): n/a

Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
-----------------------------	---	-----------------------------

Remarks:
 Alpha alpha dipyrindyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Field Observations:

Surface Water Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches): <u>0.5</u>	Wetland Hydrology Present?
Water Table Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches): <u>surface (0)</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches): <u>surface (0)</u>	

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

Remarks:
 Alpha alpha dipyrindyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W17-SP-1
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): stream terrace Local relief (concave, convex, none): none Slope (%): 5-10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309956 Long: -122.290634 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No _____		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This soil pit is located on a stream terrace of stream S3 a short distance upslope of wetland W17.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>none</u>					
2. _____					
3. _____					
4. _____					
		0% = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>Rubus spectabilis</u>		<u>35%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Rubus ursinus</u>		<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
3. _____					
4. _____					
5. _____					
		45% = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				
1. <u>Polystichum munitum</u>		<u>20%</u>	<u>Yes</u>	<u>FACU</u>	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
		20% = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>					
2. _____					
		0% = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W17-SP-2
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 5-10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309910 Long: -122.290619 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located on a steep slope above strea S3 and wetland W18. This is the paired sample plot to W17-SP3.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>Rubus ursinus</u>		<u>20%</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
2. <u>Rubus spectabilis</u>		<u>15%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>35%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				
1. <u>Polystichum munitum</u>		<u>20%</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
2. <u>Geranium robertianum</u>		<u>5%</u>	<u>Yes</u>	<u>FACU</u>	
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>25%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W17-SP-3
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309860 Long: -122.290634 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This SP is located within wetland W17 where stream S3 discharges to the closed wetland that has no direct outlet. This is the paired sample point to W17-SP3

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 1 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Prevalence Index worksheet: <u> </u> Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Rubus spectabilis</u>		<u>70%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Sambucus racemosa</u>		<u>10%</u>	<u>No</u>	<u>FACU</u>	
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>80%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum <u> </u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W18-SP-1
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309986 Long: -122.289688 Datum: NAG 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located upslope and outside of wetland W18.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 33% </u> (A/B)
1. <u>Thuja plicata</u>		<u>50%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>50%</u> = Total Cover			Prevalence Index worksheet: <u> </u> Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Gaultheria shallon</u>		<u>25%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Rubus ursinus</u>		<u>5%</u>	<u>No</u>	<u>FACU</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>30%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>Polystichum munitum</u>		<u>30%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>30%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W18-SP-2
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309940 Long: -122.289696 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located within wetland W18 and is the paired sample plot to W18-SP1. This wetland has a highly constricted outlet that discharges downslope during periods of heavy rain (1/7/21 observation).

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rubus spectabilis</u>		<u>40%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>60%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum	<u>40%</u>				

Remarks:
 Vegetation cover estimated from photo.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W18-SP-3
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): swale Local relief (concave, convex, none): none Slope (%): 3-5%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309280 Long: -122.290070 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located in a gentle swale that connects two distinct wetlands upslope and downslope. It is within wetland 18 and is the paired sample plot to W18-SP4.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>Thuja plicata</u>		<u>100%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>100%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Thuja plicata</u>		<u>70%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Rubus spectabilis</u>		<u>15%</u>	<u>No</u>	<u>FAC</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>85%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>		<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
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7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>		<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>30%</u>			

Remarks:

Parametrix

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
 Project No.: 554-2441-022

US Army Corps of Engineers
 Western Mountains, Valleys, and Coast Region (Version 2.0)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/7/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W18-SP-4
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): >10%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309300 Long: -122.290054 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located upslope of W18-SP3 and wetland W18 as a whole.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 50% </u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
Sapling/Shrub Stratum (Plot size: <u>r=2m</u>)		<u>0%</u> = Total Cover			
1. <u>Thuja plicata</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
Herb Stratum (Plot size: <u>r=1m</u>)		<u>20%</u> = Total Cover			
1. <u>Gaultheria shallon</u>		<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
Woody Vine Stratum (Plot size: <u>r=2m</u>)		<u>10%</u> = Total Cover			
1. <u>none</u>					
2. <u> </u>					
% Bare Ground in Herb Stratum		<u>0%</u>			
		<u>0%</u> = Total Cover			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/11/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W18-SP-5
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309830 Long: -122.289200 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located near Lake Access Rd in a depression approximately 30ft west of road. Shallow rooted downed trees were observed near and in wetland. It is the paired wetland plot with W-18-SP6.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa pratensis</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Juncus effusus</u>		<u>15%</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Ranunculus repens</u>		<u>2%</u>	<u>No</u>	<u>FAC</u>	
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>37%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>20%</u>			

Remarks:

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-2	2.5Y 3/2	90	2.5Y 4/2	10	D	M	SaL	
2-7	2.5Y 5/1	90	2.5Y 4/2	10	D	M	SaL	
7-16	5Y 6/1	93	5YR 3/2	5	C	M	SiClay	
			7.5 YR5/6	2	C	M		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.
³Texture: Sa = sand; Si = silt; C = clay; L = loam or loamy. Texture Modifier: co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

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

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils³:
<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 checked="" 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)	

³Indicators 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)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Field Observations:

Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): <u>2</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): <u>surface (0)</u>	

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

Remarks:
 Ponded water was observed 3 linear fee and 4 vertical inches away from sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/11/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W18-SP-6
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): convex Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.309815 Long: -122.289230 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetlan	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located upslope of of W18-SP6

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>none</u>		<u>100%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>100%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Prevalence Index worksheet: <u> </u> Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Gaultheria shallon</u>		<u>97%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Rubus ursinus</u>		<u>3%</u>	<u>No</u>	<u>FACU</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>100%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>none</u>		<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>none</u>		<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-4	10YR 2/1	100					L	
4-9	7.5 YR 3/3	100					SiL	
9-16	2.5 Y 4/2	95	2.5 Y 4/3	5	C	M	SaL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.
³Texture: Sa = sand; Si = silt; C = clay; L = loam or loamy. Texture Modifier: co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

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

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<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)	

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

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 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 (D7)
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Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u> X </u>
Water Table Present? Yes _____ No _____ Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No _____ Depth (inches): _____	

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

Remarks:
 Ponded water was observed 3 linear fee and 4 vertical inches away from sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/11/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W19-SP-1
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.310047 Long: -122.288963 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u>X</u>	Is the Sampled Area within a Wetland	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is located in a ponded area to the east of the east of the fish access road. The vegetation here is problematic but the soils and hydrology are convincing. W19-SP1 is within Wetland 19 and is the paired sample plot to W19-SP2.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Gaultheria shallon</u>		<u>80%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>80%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:
 This sample plot is located at an identical elevation to nearby *Spiraea douglasii*, *Juncus effusus*, *Salix* sp., and *Athyrium cyclosorum*. Despite the nearby vegetation this plot is only containen *Gaultheria shallon* due to large amounts of downed wood from logging practices.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Federal Way City Center Access City/County: Federal Way/King Sampling Date: 1/11/2021
 Applicant/Owner: City of Federal Way State: Washington Sampling Point: W19-SP-2
 Investigator(s): Trey Parry, Aaron Thom Section, Township, Range: T21N R04E S15
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.310085 Long: -122.288979 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetlan	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		

Precipitation:
 According to the Seattle Tacoma NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.

Remarks:
 This sample plot is upslope and north of W19-SP1.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 0 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 0% </u> (A/B)
1. <u>none</u>		<u>90%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>90%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)				Prevalence Index worksheet: <u> </u> Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
1. <u>Gaultheria shallon</u>		<u>90%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Rubus ursinus</u>		<u>2%</u>	<u>No</u>	<u>FACU</u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>92%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)				
1. <u>none</u>		<u>0%</u>	<u> </u>	<u> </u>	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>	
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>10%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: City Center Access City/County: Federal Way / King Sampling Date: 5/03/2021
 Applicant/Owner: WSDOT State: WA Sampling Point: W20-SP-1
 Investigator(s): Josh Wozniak, Amanda Weiss Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): concave Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.302948 Long: -122.301559 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was below the normal range for the three months prior to the site visit.

Remarks:
 This is the wetland sample point for Wetland 20. It occurs within a grassy slope alongside I5 N.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Holcus lanatus</u>		<u>40%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Poa pratensis</u>		<u>40%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Phalaris arundinacea</u>		<u>10%</u>	<u>No</u>	<u>FACW</u>	
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>90%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u> </u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>10%</u>			

Remarks:

SOIL							Sampling Point: W20-SP-1
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):							
Depth (inches)	Matrix		Redox Features			Texture ³	Remarks
Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	2.5Y 4/1	100				CoL	
6-10	2.5Y 5/2	80	10YR 4/6	5	C	M	GrL
			10YR 6/6	15	C	M	
10-16	5Y 5/1	80	10YR 5/6	20	C	M	GrL
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix. ³ Texture: Sa = sand; Si = silt; C = clay; L = loam or loamy. Texture Modifier: co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)							
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):				Indicators for Problematic Hydric Soils³:			
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> 2 cm Muck (A10)				
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Red Parent Material (TF2)				
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)		<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
<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)						
Restrictive Layer (if present):					Hydric Soil Present?		
Type: _____					Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Depth (inches): _____							
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:							
<u>Primary Indicators (minimum of one required; check all that apply)</u>				<u>Secondary Indicators (2 or more required)</u>			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)		<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)				
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)		<input type="checkbox"/> Drainage Patterns (B10)				
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)		<input type="checkbox"/> Dry-Season Water Table (C2)				
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)		<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)				
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)		<input type="checkbox"/> Geomorphic Position (D2)				
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)		<input type="checkbox"/> Shallow Aquitard (D3)				
<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)		<input type="checkbox"/> FAC-Neutral Test (D5)				
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)		<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)				
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)		<input type="checkbox"/> Frost-Heave Hummocks (D7)				
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)							
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)							
Field Observations:					Wetland Hydrology Present?		
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches):	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Water Table Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches):	9			
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches):	7			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							
Oxidized rhizospheres start at 6 inches below surface.							

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: City Center Access City/County: Federal Way / King Sampling Date: 5/03/2021
 Applicant/Owner: WSDOT State: WA Sampling Point: W20-SP-2
 Investigator(s): Josh Wozniak, Amanda Weiss Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.302868 Long: -122.301422 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was below the normal range for the three months prior to the site visit.

Remarks:
 This sample point is located approximately 30 ft upslope and to the east of SP-1.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
		<u>0%</u> = Total Cover			
<u>Herb Stratum</u>	(Plot size: <u>r=1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa pratensis</u>		<u>40%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Holcus lanatus</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Anthoxanthum odoratum</u>		<u>20%</u>	<u>Yes</u>	<u>FACU</u>	
4. <u>Schedonorus arundinaceus</u>		<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
		<u>100%</u> = Total Cover			
<u>Woody Vine Stratum</u>	(Plot size: <u>r=2m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u> </u>					
2. <u> </u>					
		<u>0%</u> = Total Cover			
% Bare Ground in Herb Stratum		<u>0%</u>			

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: City Center Access City/County: Federal Way / King Sampling Date: 5/03/2021
 Applicant/Owner: WSDOT State: WA Sampling Point: W20-SP-3
 Investigator(s): Josh Wozniak, Amanda Weiss Section, Township, Range: T21N R04E S16
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): <3%
 Subregion (LRR): Northwest Forests and Coast (LRR A) Lat: 47.304916 Long: -122.300903 Datum: NAD 1983 (HARN)
 Soil Unit (Name-ID-Hydric Rating): Alderwood gravelly sandy loam - AgB - Not Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>		
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		

Precipitation:
 According to the Seattle Tacoma Airport NOAA weather station, precipitation was below the normal range for the three months prior to the site visit.

Remarks:
 This sample point is located further upslope and east of SP-2.

VEGETATION

<u>Tree Stratum</u>	(Plot size: <u>r=3m</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 2 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 50% </u> (A/B)
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
Sapling/Shrub Stratum (Plot size: <u>r=2m</u>)		0% = Total Cover			
1. <u>none</u>					
2. <u> </u>					
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
Herb Stratum (Plot size: <u>r=1m</u>)		0% = Total Cover			
1. <u>Anthoxanthum odoratum</u>		<u>47%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Poa pratensis</u>		<u>47%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Holcus lanatus</u>		<u>2%</u>	<u>No</u>	<u>FAC</u>	
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
11. <u> </u>					
Woody Vine Stratum (Plot size: <u>r=2m</u>)		96% = Total Cover			
1. <u> </u>					
2. <u> </u>					
% Bare Ground in Herb Stratum		0%			
		0% = Total Cover			

Remarks:

Parametrix

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
 Project No.: 554-2441-022

US Army Corps of Engineers
 Western Mountains, Valleys, and Coast Region (Version 2.0)

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features			Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-7	10YR 4/2	100					CoL	
7-15	2.5Y 5/1	80	10YR 5/6	10	C	M	GrL	
			7.5YR 5/8	10	C	M		
15+	2.5Y 5/1						GrL	

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

³Texture: Sa = sand; Si = silt; C = clay; L = loam or loamy. Texture Modifier: co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

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

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<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)	

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

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<p><u>Secondary Indicators (2 or more required)</u></p> <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 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 (D7)
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Field Observations:

Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	

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

Remarks: