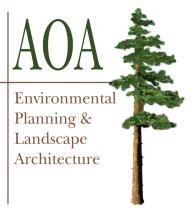
Altmann Oliver Associates, LLC

PO Box 578

Carnation, WA 98014

Office (425) 333-4535

Fax (425) 333-4509



AOA-6179

May 27, 2020

Zach Collins zlukecollins@gmail.com

SUBJECT: Critical Area Impacts and Restoration for:

16415 – 209th Ave. NE, King County, WA Parcel 062650-0010 (File # PREA19-0195)

Dear Zach:

On March 25, 2020 I conducted an initial wetland reconnaissance on the subject property utilizing the methodology outlined in the May 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). The primary focus of the reconnaissance was to determine if any critical areas had been impacted by unauthorized clearing that had occurred on the property. One wetland (Wetland A) was identified in the southwest portion of the site during this field investigation and was subsequently delineated.

Wetland is part of a larger wetland that extends off-site to the west and meets the criteria for a Category II wetland with 6 Habitat Points (**Attachment A**) and therefore requires a standard 110-foot buffer and 15-foot building setback adjacent moderate intensity land uses such as low density single-family residential.

King County does not typically allow clearing of any kind within wetlands and their buffers. Since portions of the wetland and buffer have been cleared, we have prepared a restoration planting plan to re-establish a native plant community (**Figures 1 through 5**).

The following maintenance and monitoring program should be implemented as part of this restoration effort.

Goal, Objectives, and Performance Standards for Restoration Area

The primary goal of the restoration plan is to restore the habitat functions of the wetland and buffer back to an intact native system . To meet this goal, the following objectives and performance standards have been incorporated into the design of the plan:

<u>Objective A:</u> Increase the structural and plant species diversity within the restoration area.

<u>Performance Standard:</u> There will be 100% survival of all woody planted species throughout the restoration area at the end of the first year of planting. For Years 2-3, success will be based on an 80% survival rate or similar number of recolonized native woody plants. Areal coverage of plantings or native re-colonized species will be at least 10% at Year 1, 15% at Year 2, and 30% at Year 3.

<u>Objective B:</u> Limit the amount of invasive and exotic species within the restoration area.

<u>Performance Standard:</u> After construction and following every monitoring event for a period of three years, exotic and invasive plant species will be maintained at levels below 10% total cover in the planting area.

Construction Management

Prior to commencement of any work in the restoration areas, the clearing limits will be staked and all existing vegetation to be saved will be clearly marked. A preconstruction meeting will be held at the site to review and discuss all aspects of the project with the landscape contractor and the owner.

A consultant will supervise plan implementation during construction to ensure that objectives and specifications of the restoration plan are met. Any necessary significant modifications to the design that occur as a result of unforeseen site conditions will be jointly approved by King County and the consultant prior to their implementation.

Monitoring Methodology

The monitoring program will be conducted for a period of three years, with annual reports submitted to King County. Vegetation monitoring will include general appearance, health, mortality, colonization rates, percent cover, percent survival, volunteer plant species, and invasive weeds.

Photo-points will be established from which photographs will be taken throughout the monitoring period. These photographs will document general appearance and progress in plant community establishment in the restoration area. Review of the photos over time will provide a visual representation of success of the restoration plan.

Maintenance Plan

Maintenance will be conducted on a routine, year-round basis. Additional maintenance needs will be identified and addressed following periodic maintenance reviews. Routine removal and control of non-native and other invasive plants within the designated restoration areas shall be performed by manual means whenever

possible. Undesirable and weedy exotic plant species shall be maintained at levels below 10% total cover within the restoration area during the monitoring period.

Routine maintenance of planted trees and shrubs shall be performed. Measures include resetting plants to proper grades and upright positions. Tall grasses and other competitive weeds shall be weeded at the base of plants to prevent engulfment. Weed control should be performed by hand removal whenever possible.

Contingency Plan

All dead plants will be replaced with the same species or an approved substitute species that meets the goal of the restoration plan. Plant material shall meet the same specifications as originally installed material. Replanting will not occur until after reason for failure has been identified (e.g., moisture regime, poor plant stock, disease, shade/sun conditions, wildlife damage, etc.). Replanting shall be completed under the direction of the consultant, King County, or the owner.

As-Built Plan

Following completion of construction activities, an as-built plan for the enhancement area will be provided to King County. The plan will identify and describe any changes in relation to the original approved plan.

If you have any questions, please give me a call.

Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

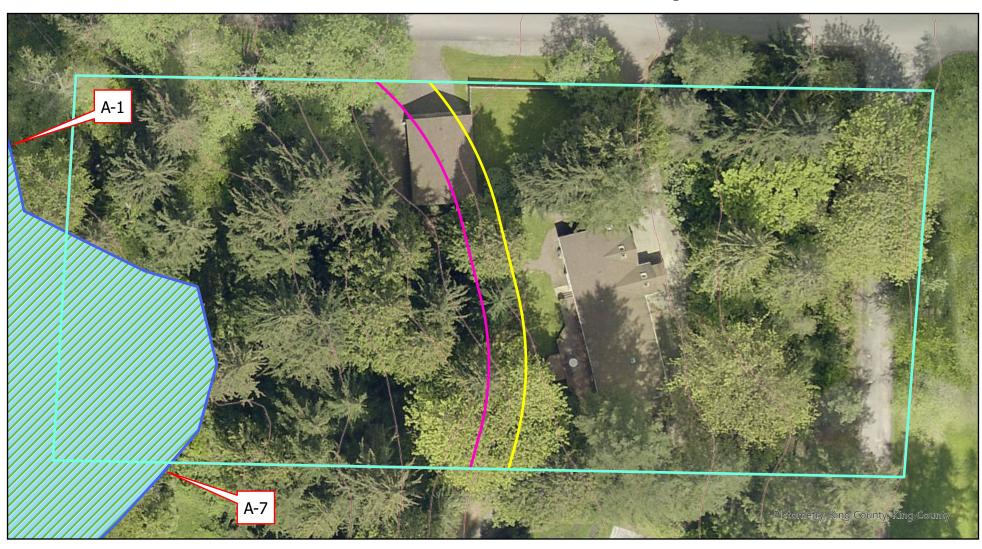
John Altmann Ecologist

Attachments

Critical Areas Map

AOA - 6179



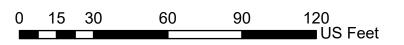






Approximate 110' Buffer for Wetland A

Approximate 15' Building Setback





RATING SUMMARY – Western Washington

Name of wetland (or ID #):	Parcel 062650-0010					Date of site visit:	3/25/	2020
Rated by Altmann		Trained by Ecolo	gy?⊡	Yes□	No	Date of training	03/08 8	§ 03/15
HGM Class used for rating	Depressional & Flats	W	Vetland	d has m	ultiple	HGM classes? ☑	Yes □	No
	ot complete with out to of base aerial photo/m	•	,	figures	can be	e combined).		
OVERALL WETLAND CA	TEGORY <u>II</u>	(based on fund	ctions [©]	☑ orsp	ecial (characteristics □))	
1. Category of wetland	based on FUNCTIO	ONS						
	Category I - Total sco	ore = 23 - 27			S	core for each		
X			fu	ınction based				
	Category III - Total se	core = 16 - 19			o	n three		
	Category IV - Total se	core = 9 - 15			ra	ntings		

FUNCTION	Improving Water Quality	Hydrologic	Habitat	
	List app	ropriate rating	g (H, M, L)	
Site Potential	Н	L	М	
Landscape Potential	M	M	М	
Value	Н	Н	М	Total
Score Based on Ratings	8	6	6	20

Score for each function based on three ratings (order of ratings is not important)

9 = H, H, H
8 = H, H, M
7 = H, H, L
7 = H, M, M
6 = H, M, L
6 = M, M, M
5 = H, L, L
5 = M, M, L
4 = M, L, L
3 = L, L, L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	Category
Estuarine	
Wetland of High Conservation Value	
Bog	
Mature Forest	
Old Growth Forest	
Coastal Lagoon	
Interdunal	
None of the above	Х

DEPRESSIONAL AND FLATS WETL	ANDS		
Water Quality Functions - Indicators that the site functions to in	mprove wate	r quality	
D 1.0. Does the site have the potential to improve water quality?			
D 1.1. Characteristics of surface water outflows from the wetland:			
Wetland is a depression or flat depression (QUESTION 7 on key)			
with no surface water leaving it (no outlet).	pc	oints = 3	
Wetland has an intermittently flowing stream or ditch, OR highly			
constricted permanently flowing outlet.	pc	oints = 2	1
 Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing 	no	ints = 1	
□ Wetland is a flat depression (QUESTION 7 on key), whose outlet is	ρυ	11113 – 1	
a permanently flowing ditch.	po	ints = 1	
D 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic	;		4
(use NRCS definitions).	Yes = 4	No = 0	4
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-s	hrub, and/or		
Forested Cowardin classes):			
Wetland has persistent, ungrazed, plants > 95% of area	•	pints = 5	5
Wetland has persistent, ungrazed, plants > ½ of area	•	pints = 3	Ŭ
Wetland has persistent, ungrazed plants $> \frac{1}{10}$ of area	•	pints = 1	
Wetland has persistent, ungrazed plants < 1/10 of area	pc	oints = 0	
D 1.4. Characteristics of seasonal ponding or inundation:			
This is the area that is ponded for at least 2 months. See description			4
Area seasonally ponded is > ½ total area of wetland	•	oints = 4	4
Area seasonally ponded is > ½ total area of wetland	•	pints = 2	
Area seasonally ponded is < 1/4 total area of wetland	<u>'</u>	oints = 0	
·	s in the boxe		14
Rating of Site Potential If score is: □ 12 - 16 = H □ 6 - 11 = M □ 0 - 5 = L			14 the first page
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Rating of Site Potential If score is: 2 12 - 16 = H	Record the	rating on	
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Wetland name or number A	
DEPRESSIONAL AND FLATS WETLANDS	
Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degra	adation
D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland:	
Wetland is a depression or flat depression with no surface water	
leaving it (no outlet) points = 4	
Wetland has an intermittently flowing stream or ditch, OR highly	
constricted permanently flowing outlet points = 2	0
Wetland is a flat depression (QUESTION 7 on key), whose outlet is	· ·
a permanently flowing ditch points = 1	
Wetland has an unconstricted, or slightly constricted, surface outlet	
that is permanently flowing points = 0	
D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of	
the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the	
deepest part.	
Marks of ponding are 3 ft or more above the surface or bottom of outlet points = 7	
Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet points = 5	3
□ Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet points = 3	Ü
☐ The wetland is a "headwater" wetland points = 3	
Wetland is flat but has small depressions on the surface that trap water points = 1	
Marks of ponding less than 0.5 ft (6 in)	
D 4.3. Contribution of the wetland to storage in the watershed: <i>Estimate the ratio of the area of</i>	
upstream basin contributing surface water to the wetland to the area of the wetland unit itself.	
☐ The area of the basin is less than 10 times the area of the unit points = 5	
The area of the basin is 10 to 100 times the area of the unit points = 3	0
The area of the basin is more than 100 times the area of the unit points = 0	
□ Entire wetland is in the Flats class points = 5	
Total for D 4 Add the points in the boxes above	3
Total for B 1	•
Potting of Site Potential If score is:	the first nage
Rating of Site Potential If score is: 12 - 16 = H	the first page
D 5.0. Does the landscape have the potential to support hydrologic function of the site?	· -
D 5.0. Does the landscape have the potential to support hydrologic function of the site? D 5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0	the first page 0
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If total accessible habitat is: 1 $> \frac{1}{3}$ (33.3%) of 1 km Polygon points = 320 - 33% of 1 km Polygon points = 2 10 - 19% of 1 km Polygon points = 1< 10 % of 1 km Polygon points = 0H 2.2. Undisturbed habitat in 1 km Polygon around the wetland. Calculate: 29 % undisturbed habitat + (10.6 % moderate & low intensity land uses / 2) = 34.3% 2 Undisturbed habitat > 50% of Polygon points = 3Undisturbed habitat 10 - 50% and in 1-3 patches points = 2Undisturbed habitat 10 - 50% and > 3 patches points = 1Undisturbed habitat < 10% of 1 km Polygon points = 0H 2.3 Land use intensity in 1 km Polygon: If > 50% of 1 km Polygon is high intensity land use points = (-2)-2 ≤ 50% of 1km Polygon is high intensity points = 0Total for H 2 Add the points in the boxes above Rating of Landscape Potential If Score is: 4 - 6 = H 2 1 - 3 = M - <1 = L Record the rating on the first page

H 3.0. Is the habitat provided by the site valuable to society? H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score that applies to the wetland being rated. Site meets ANY of the following criteria: points = 2□ It has 3 or more priority habitats within 100 m (see next page) □ It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists) □ It is mapped as a location for an individual WDFW priority species 1 □ It is a Wetland of High Conservation Value as determined by the Department of Natural Resources □ It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1Site does not meet any of the criteria above points = 0

8

WDFW Priority Habitats

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp.

http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here: http://wdfw.wa.gov/conservation/phs/list/

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: **NOTE**: This question is independent of the land use between the wetland unit and the priority habitat.

	,
	Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
	Biodiversity Areas and Corridors : Areas of habitat that are relatively important to various species of native fish and wildlife (<i>full descriptions in WDFW PHS report</i>).
	Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
	Old-growth/Mature forests: Old-growth west of Cascade crest – Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests – Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
	Oregon White Oak : Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (<i>full descriptions in WDFW PHS report p. 158</i> – <i>see web link above</i>).
V	Riparian : The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
	Westside Prairies : Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (<i>full descriptions in WDFW PHS report p. 161 – see web link above</i>).
V	Instream : The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
	Nearshore : Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (<i>full descriptions of habitats and the definition of relatively undisturbed are in WDFW report</i> – <i>see web link on previous page</i>).
	Caves : A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
	Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
	Talus : Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
	Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

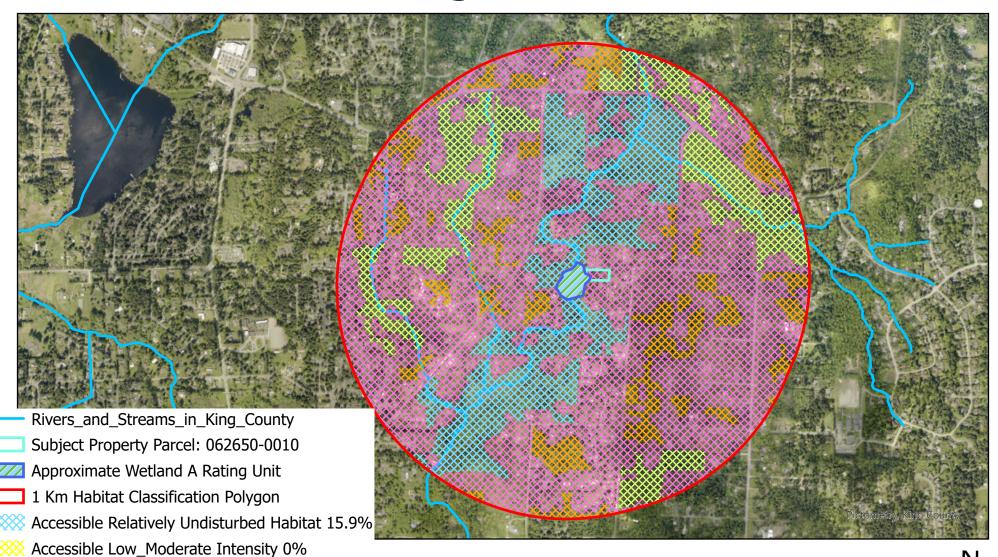
in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.

characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12

Figure A

AOA - 6179





5001,000

2,000

3,000

4,000

US Feet



Low_Moderate Intensity Habitat 10.6% High Intensity Habitat 60.4%

Relatively Undisturbed Habitat 13.1%

Environmental Planning & Landscape Architecture

King County Parcel: 062650-0010

Figure B

AOA - 6179



Subject Property Parcel: 062650-0010

Approximate Wetland A Rating Unit

150' Pollution Assessment Polygon

Pollution Generating Surfaces 13.3%

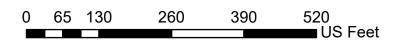
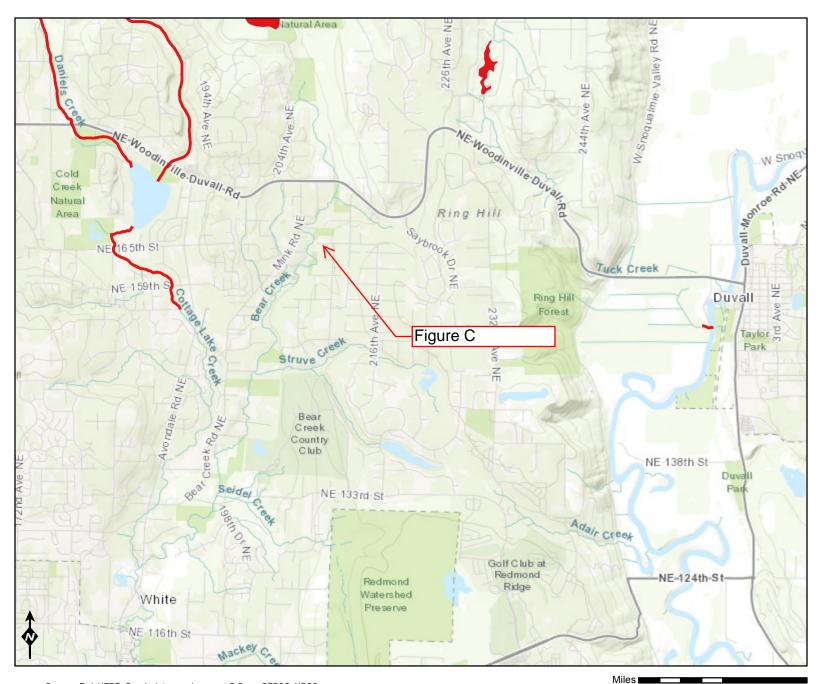




Figure C



Assessed Waters/Sediment

Water

- Category 5 303d
- Category 4C
- Category 4B
- Category 4A
- Category 2
- Category 1

Sediment

- Category 5 303d
- ZZZ Category 4C
- **Category 4B**
- Category 4A
- Category 2
- ZZZ Category 1

0.5

 http://www.ecy.wa.gov:80/programs/wq/tmdl/TMDLsbyWria/tmdl-wria08.html
 Go
 NOV
 MAR
 OCT
 OCT



Figure D

About us | Contact us

Home

Water Quality & Supply

Waste & Toxics

Air & Climate

Cleanup & Spills

Water Quality Improvement Projects (TMDLs)

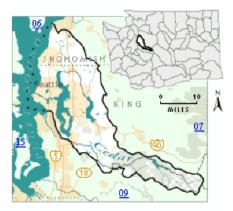
Water Quality Improvement > Water Quality Improvement Projects by WRIA > WRIA 8: Cedar-Sammamish

WRIA 8: Cedar-Sammamish

The following table lists overview information for water quality improvement projects (including total maximum daily loads, or TMDLs) for this water resource inventory area (<u>WRIA</u>). Please use links (where available) for more information on a project.

Counties

- King
- Snohomish



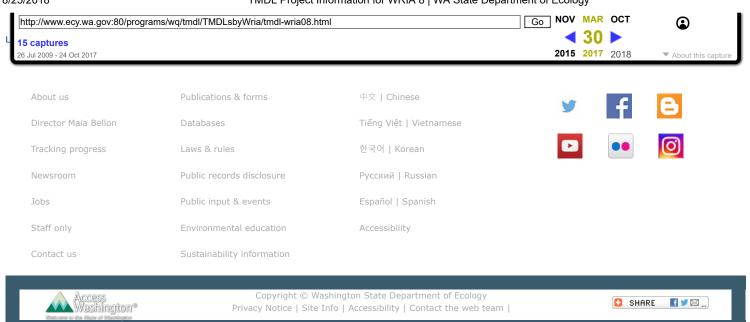
Waterbody Name	Pollutants	Status**	TMDL Lead			
<u>Ballinger Lake</u>	Total Phosphorus	Approved by EPA	<u>Tricia Shoblom</u> 425-649-7288			
Bear-Evans Creek Basin	Fecal Coliform	Approved by EPA	<u>Joan Nolan</u>			
	Dissolved Oxygen Temperature	Approved by EPA	425-649-4425			
Cottage Lake	Total Phosphorus	Approved by EPA Has an implementation plan	<u>Tricia Shoblom</u> 425-649-7288			
Issaquah Creek Basin	Fecal Coliform	Approved by EPA	<u>Joan Nolan</u> 425-649-4425			
Little Bear Creek Tributaries: Trout Stream Great Dane Creek Cutthroat Creek	Fecal Coliform	Approved by EPA	Ralph Svrjcek 425-649-7036			
North Creek	Fecal Coliform	Approved by EPA Has an implementation plan	Ralph Svrjcek 425-649-7036			
Pipers Creek	Fecal Coliform	Approved by EPA	<u>Joan Nolan</u> 425-649-4425			
Sammamish River	Dissolved Oxygen Temperature	Field work starts summer 2015	Ralph Svrjcek 425-649-7036			
Swamp Creek	Fecal Coliform	Approved by EPA Has an implementation plan	Ralph Svrjcek 425-649-7036			

^{**} Status will be listed as one of the following: Approved by EPA, Under Development or Implementation

For more information about WRIA 8:

- Waterbodies in WRIA 8 using the Water Quality Assessment Query Tool
- Watershed Information for WRIA 8

^{*} The Department of Ecology and other state resource agencies frequently use a system of 62 "Water Resource Inventory Areas" or "WRIAs" to refer to the state's major watershed basins.



PEM

Figure E

AOA - 6179

320 US Feet

160

240





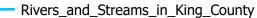


Figure F

AOA - 6179



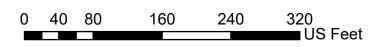




Subject Property Parcel: 062650-0010

Approximate Wetland A Rating Unit

Seasonally Ponded





6,000 9,000 12,000 US Feet

King County Parcel: 062650-0010

Approximate Wetland A Rating Unit ~ 3.9 Acres

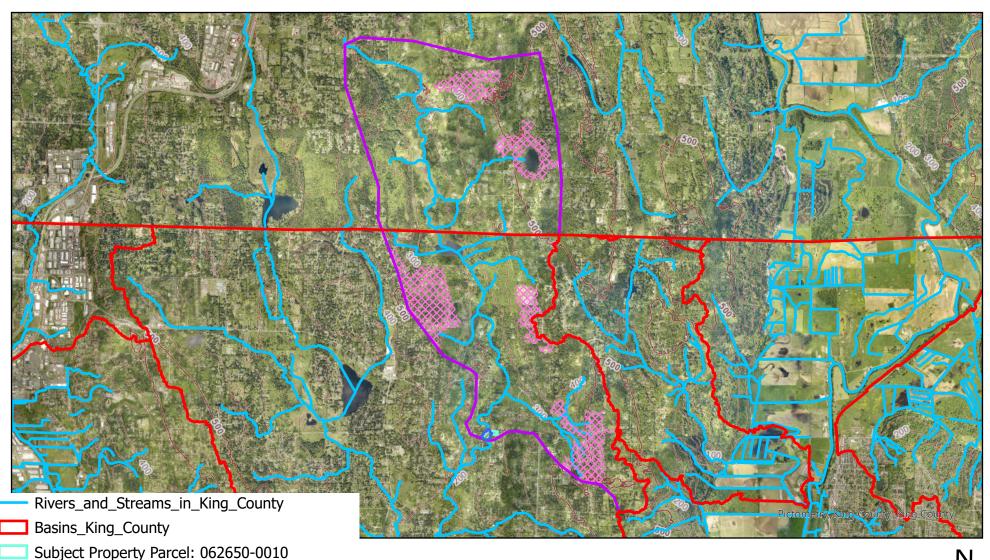
Approximate Contributing Basin ~ 4,263.6 Acres

Contributing High Intensity Habitat 14%

Figure G

AOA - 6179





0 1,5030,000





PLAN LEGEND

PROPERTY LINE APPROXIMATE WETLAND A - APPROXIMATE IIO' WETLAND BUFFER APPROXIMATE 15' BUILDING SETBACK APPROXIMATE EDGE OF CLEARING DRIPLINE OF TREES

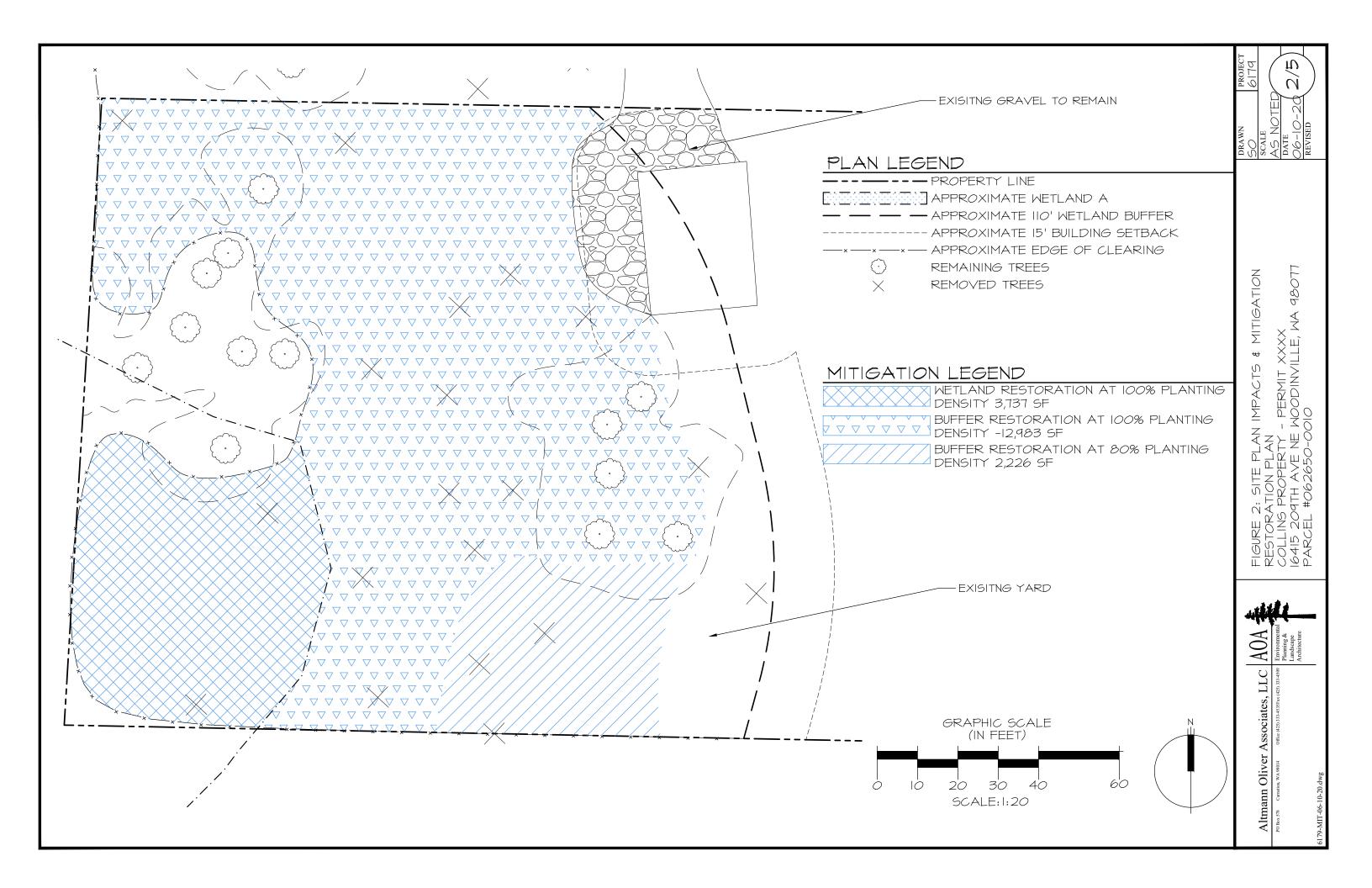
REMAINING TREES REMOVED TREES - 20

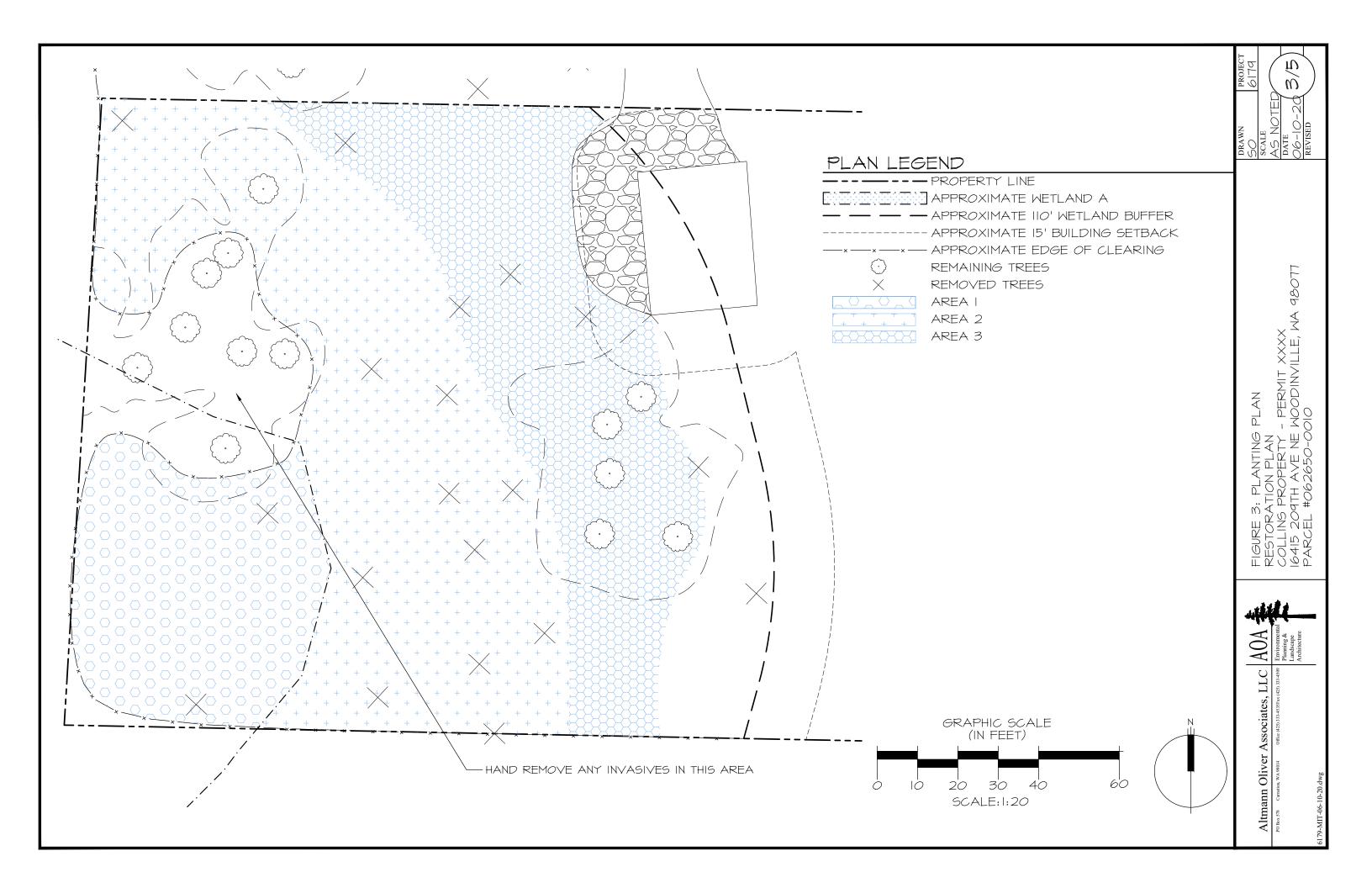
20% SALMONBERRY STARTS

9807T CLEARING MAP

Altmann Oliver Associates, LLC

GRAPHIC SCALE (IN FEET) 60 120 20 40 SCALE:1:40





WETLAND/BUFFER PLANT SCHEDULE

TREES (ASSUMES 3:1 REPLACEMENT FOR EACH TREE REMOVED)

				AREA I	AREA 2	AREA 3	SIZE
KEY	SCIENTIFIC NAME	COMMON NAME	DENSITY	QTY.	QTY.	QTY.	(MIN.) NOTES
PS	PICEA SITCHENSIS	SITKA SPRUCE	9 O.C.	6		7	2 GAL. FULL & BUSHY
TP	THUJA PLICATA	WESTERN RED CEDAR	9' O.C.		33	14	2 GAL. FULL & BUSHY

SHRUBS (ASSUMES 25% RE-ESTABLISHMENT RATE OF NATIVE UNDERSTORY WOODY VEGETATION)

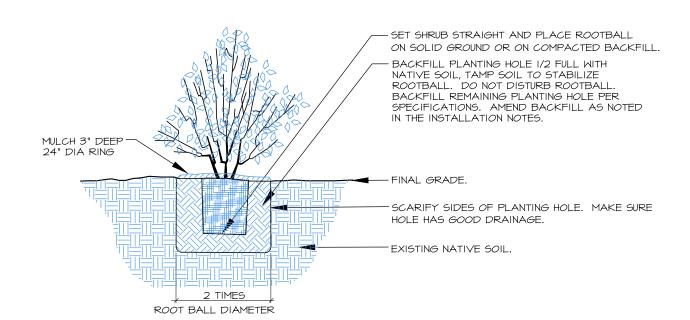
				AREA I	AREA 2	AREA 3	SIZE	
KEY	SCIENTIFIC NAME	COMMON NAME	DENSITY	QTY.	QTY.	QTY.	(MIN.)	NOTES
A	ACER CIRCINATUM	VINE MAPLE	6' O.C.		94		I GAL.	MULTI-STEM (3 MIN.)
C	CORNUS SERICEA	RED-05IER D06W00D	6' O.C.	16			I GAL.	MULTI-STEM (3 MIN.)
CC	CORYLUS CORNUTA	BEAKED HAZELNUT	6' O.C.			25	I GAL.	MULTI-STEM (3 MIN.)
Н	HOLODISCUS DISCOLOR	OCEANSPRAY	6' O.C.			25	I GAL.	MULTI-STEM (3 MIN.)
L	LONICERA INVOLUCRATA	BLACK TWIN-BERRY	6' O.C.	16			I GAL.	MULTI-STEM (3 MIN.)
0	OEMLERIA CERASIFORMIS	0S0BERRY	6' O.C.			25	I GAL.	MULTI-STEM (3 MIN.)
PC	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	6' O.C.	15			I GAL.	MULTI-STEM (3 MIN.)
Ν	ROSA NUTKANA	NOOTKA ROSE	6' O.C.			24	I GAL.	MULTI-STEM (3 MIN.)
R	ROSA PISOCARPA	CLUSTERED ROSE	6' O.C.	16			I GAL.	MULTI-STEM (3 MIN.)
SR	SAMBUCUS RACEMOSA	RED ELDERBERRY	6' O.C.		93		I GAL.	MULTI-STEM (3 MIN.)
5	SYMPHORICARPOS ALBUS	SNOWBERRY	6' O.C.			24	I GAL.	MULTI-STEM)3 MIN.)
\bowtie	SALIX SCOULERIANA	SCOULER WILLOW	6' O.C.	16			I GAL.	MULTI-STEM (3 MIN.)

FIGURE 4: PLANT SCHEDULE
RESTORATION PLAN
COLLINS PROPERTY - PERMIT XXXX
16415 209TH AVE NE MOODINVILLE, MA 98077
PARCEL #062650-0010

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Altmann Oliver Associates, LLC AOA
PO BOX 278 Curmulon, WA 98014 Office (425) 333-455Fax (425) 333-459 Flaming & Landscape Arthitecture
Arthitecture
Arthitecture

- PRIOR TO PLANTING ALL EXISTING DEBRIS PILES (STUMPS AND LOGS) SHALL BE SCATTERED THROUGHOUT THE RESTORATION AREA AS LARGE WOODY DEBRIS HABITAT FEATURES.
- 2. ALL PLANTS SHALL BE PIT-PLANTED IN PLANTING PITS EXCAVATED 2X THE DIAMETER OF THE PLANT AND ENSURE THAT PLANTS ARE INSTALLED IN UNDERLYING NATIVE FOREST SOILS, NOT RECENTLY PLACED CHIPS.
- 3. PITS SHALL BE AMENDED WITH A HYDRATED SOIL POLYMER (INSTALLED AT RATES PER MANUFACTURER'S SPECIFICATION).
- 4. PLANTS SHALL BE INSTALLED 2" HIGH AND SURFACED MULCHED TO A DEPTH OF 2" WITH ONSITE STOCKPILED CHIPS FROM CLEARING PLACED CONTINUOUSLY THROUGHOUT THE PLANTING BEDS.
- 5. ALL PLANTS SHALL BE NURSERY GROWN (IN W. WA OR OR.) FOR AT LEAST I YEAR FROM PURCHASE DATE, FREE FROM DISEASE OR PESTS, WELL-ROOTED. BUT NOT ROOT-BOUND AND TRUE TO SPECIES.
- 6. PLANT LAYOUT SHALL BE APPROVED BY AOA PRIOR TO INSTALLATION AND APPROVED UPON COMPLETION OF PLANTING.
- 7. UPON COMPLETION OF PLANTING, ALL PLANTS SHALL BE THOROUGHLY WATERED.
- 8. A TEMPORARY IRRIGATION SYSTEM SHALL BE INSTALLED TO PROVIDE I/2" OF FLOW TWICE WEEKLY BETWEEN JULY I AND OCTOBER 31 THE FIRST TWO YEARS AFTER PLANTING TO ALL PLANTED PLANTS. SYSTEM CAN BE REMOVED AT THE DIRECTION OF AOA AFTER THE SECOND OR THIRD GROWING SEASON.
- 9. APPLY DEER SCRAM PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY UPON INSTALLATION OF MATERIAL.
- IO. KING COUNTY TO REVIEW INSTALLATION OF MITIGATION PLAN UPON APPROVAL BY AOA AND UPON COMPLETION OF MONITORING.



MAINTENANCE & MONITORING

- I. PERFORMANCE STANDARDS INCLUDE:
 - I) YEAR I THERE WILL BE 100% SURVIVAL OF ALL PLANTED SPECIES. FOLLOWING YEARS 2-3, THERE WILL BE 80% SURVIVAL RATE OF ALL PLANTED SPECIES OR EQUIVALENT REPLACEMENT OF A COMBINATION OF PLANTED AND RE-COLONIZED NATIVE SPECIES.
 - 2) FOLLOWING THE FIRST YEAR AFTER PLANTING, A COMBINATION OF NATIVE OR NATURALIZED WOODY VEGETATION WILL COVER AT LEAST 10% OF THE MITIGATION AREA. THE AREAL COVERAGE WILL INCREASE TO AT LEAST 15% FOLLOWING THE SECOND YEAR AFTER PLANTING AND 30% FOLLOWING THE THIRD YEAR AFTER PLANTING.
 - 3) AFTER CONSTRUCTION AND FOLLOWING EVERY MONITORING EVENT FOR A PERIOD OF AT LEAST 3 YEARS, EXOTIC AND INVASIVE PLANT SPECIES WILL BE MAINTAINED AT LEVELS BELOW 10% TOTAL COVERAGE IN ALL PLANTED AREAS. THESE SPECIES INCLUDE BUT ARE NOT LIMITED TO: HIMALAYAN AND EVERGREEN BLACKBERRY, REED CANARYGRASS, MORNING GLORY, JAPANESE KNOTWEED, ENGLISH IVY, THISTLE, PERIMINKLE, AND CREEPING NIGHTSHADE.
- 2. ANNUAL MONITORING REPORTS WILL BE PREPARED AND SUBMITTED TO KING COUNTY IN THE FALL OF EACH OF THE 3 YEARS OF THE 3-YEAR MONITORING PERIOD. THE REPORTS WILL DETAIL IF THE SITE IS MEETING THE PERFORMANCE STANDARDS AND PROVIDE PHOTOS FROM ESTABLISHED PHOTO POINTS.
- 3. UPON APPROVAL OF PLANTING INSTALLATION BY AOA, KING COUNTY WILL BE NOTIFIED TO CONDUCT A SITE REVIEW FOR FINAL APPROVAL OF CONSTRUCTION.
- 4. MAINTENANCE SHALL BE IMPLEMENTED IN MARCH, MAY, JULY AND OCTOBER FOR THE DURATION OF THE MONITORING PERIOD ACCORDING TO THE SCHEDULE BELOW.

ANNUAL MAINTENANCE SCHEDULE

MAINTENANCE ITEM	J	F	М	Α	М	J	J	Α	5	0	N	D
WEED CONTROL												
GENERAL MAINT.												
WATERING - YEAR I						4-6	6-8	6-8	6-8			
WATERING - YEAR 2							4-8	4-8	2-4			
WATERING - YEAR 3							4	4	2			

I-8 = NUMBER OF TIMES TASK SHALL BE PERFORMED PER MONTH.

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> Oliver Altmann

Associates,

CONTAINER PLANTING DETAIL (TYP.)