

## Wetland Report—Review Checklist

Category	Review Question	Example of Correct Answer and Explanations	Okay?
Delineation Method	Was the most recent delineation methods used?	Biologists used the methods specified in the <i>U.S. Army Corps of Engineers Wetland Delineation Manual</i> (Environmental Laboratory 1987) and the <i>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region</i> (U.S. Army Corps of Engineers 2010) to delineate wetlands.	
	If the project was grandfathered under an earlier permit date, was the appropriate method used?	Wetlands were delineated in accordance with the <i>Washington State Wetland Identification and Delineation Manual</i> (Ecology 1997)	
	What time of year was the wetland delineation completed?	Look for date on data sheets in Appendix when the field work was actually performed, not the date when the report was prepared	
	Was data sheet filled out completely	Check boxes for hydrophytic vegetation, hydric soil, and hydrology to verify it was answered.	
Literature Review	Is the mapped soils data correct?	Natural Resources Conservation Service (NRCS) web soil survey was reviewed for the soil types found within the study area (NRCS 2019). The four predominant soil types are Indianola loamy sand, Earlmont silt loam, Alderwood gravelly sandy loam, and Everett gravelly sandy loam.	
	Was the NWI or local jurisdiction map reviewed for wetlands on the site?	National Wetlands Inventory (NWI) data [USFWS 2019) and critical areas mapping by King County (King County 2019) were reviewed prior to the field visit	
Wetland Rating	Did they use the most recent methods	Wetland ratings and functions were assessed using the <i>Washington State Wetland Rating System for Western Washington</i> (Hruby 2014).	
	If the project has been grandfathered under an earlier permit did they use an older method?	Wetland ratings and functions were assessed using the <i>Washington State Wetland Rating System for Western Washington</i> (Hruby 2004)	
	Were the wetlands rated using the correct hydrogeomorphic classification?	Pages 3 and 4 of the Wetland Rating form has a dichotomous key for determining the predominant HGM class (tidal fringe, flats, lacustrine, slope, , riverine, and depressional)	
	Were figures provided to answer some of the questions?	Page 2 of the Wetland Rating form has a checklist for figures that should be provided to answer questions related to classifications, hydrology, buffer land uses, contributing basin, 303(d) listing, and surrounding habitat conditions. These figures are mandatory not optional.	
	Are the rating forms complete?	Did they answer all the water quality and hydrologic function questions for the correct HGM class and all of the habitat function questions?	
	Do the rating form numbers add up correctly?	Check the math on the rating form and whether the correct boxes were checked for qualitative scores (high, medium, and low).	

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	Were same questions answered identically for both water quality and hydrologic functions	Depressional wetland questions for water quality (D1.1) and hydrologic functions (D3.1) should be answered the same	
Wetland Impacts	Have wetland impacts been avoided or minimized?	Review drawings of proposed action to determine if impacts to wetland could be avoided or minimized with minimal cost and loss of economic use of property.	
	How does the proposed action effect the water quality, hydrologic, or habitat functions of the wetland?	Compare the existing conditions and proposed action drawings of the wetland to evaluate which functions on the Wetland Rating form would most likely change	
	Are there any temporary construction impacts?	Does clearing and grading for the proposed action extend past the footprint of the permanent feature? Will this temporarily impacted area be actively restored or left to passively revegetate?	
	Will storm water directly impact the wetland or buffer?	Will storm water be treated and detained before being discharged to the wetland or buffer? Does the outfall pipe have an energy dissipation pad or leveler to reduce velocities? Is the outfall pipe in the outer 25% of buffer or edge of buffer?	
	Will storm water runoff rates change within the wetland drainage area, thereby either flooding or drying it up?	Has hydraulic modeling been done to insure baseline and post-development runoff volumes are similar so wetland hydrology is not changed more than 20%?	
	Are there any indirect impacts to wetlands?	Is there shading from a bridge or deck that blocks sunlight to vegetation? Will the plant community next to the house be permanently changed from tree to herbaceous species to prevent blowdown?	
Buffer Impacts	Were wetland buffers assigned correctly?	Was the correct buffer width for the wetland category used according to the CAO regulations?	
	What is the condition of the buffer and does this affect how well it functions?	Based on aerial photographs and descriptions in the report, are there different levels of disturbance (i.e., paved roads, pasture, and forest) within the wetland buffer?	
	Will buffer impacts occur due to the project?	This includes temporary construction impacts and permanent loss of buffer area.	
	Does the project propose buffer averaging or reductions?	If buffer averaging or reduction with buffer enhancement is proposed, does this comply with the CAO regulations? If buffer reduction is proposed it should be in heavily disturbed areas not high functioning areas.	
	Will reductions in buffer width result in indirect impacts to wetlands?	Will storm water runoff be discharged to the reduced buffer area? Will a reduction in tree cover negatively affect the understory plant community?	
Mitigation	How will they prove that the mitigation was successful?	Are there goals, objectives, and performance standards for mitigation?	
	Will monitoring be done?	Will 10 years of monitoring be performed for woody planting? Do they propose monitoring in Years 1, 2, 3, 5, 7, and 10? Will annual monitoring reports be prepared?	
	Will maintenance and adaptive management be provided?	Will a temporary irrigation system be used the first two years for plant establishment? Will invasive species control be conducted? What happens if the hydrology changes?	