

TECHNICAL MEMORANDUM



Date: September 1, 2016
To: Victoria Wilson, A.C.
From: Amber Raynsford, PLA, GISP
TWC Project: 111103
Number:
Project Name: Energize Eastside Tree Impact Assessment

Subject: Richards Creek Substation Vegetation Impact Analysis

Results of the GIS-based vegetation impact analysis for the proposed Richards Creek Substation development are provided in the tables below. Trees to be removed are further quantified as dead and dying¹, significant², occurrence in a critical area³ or critical area buffer⁴, and occurrence on park property⁵.

Vegetation impacts were calculated according to the following criteria:

- Remove all trees within the proposed clearing limits as defined by PSE (August 2016).

Tree Impact Assessment, Richards Creek Substation

Table 1. Results for Richards Creek Substation

Impact Area	Total	To be Retained	Estimated Trees to be Removed	Removal Criteria	
				Within Clearing Limits	Additional Removal (Dead and Dying Trees)
Within Clearing Limits	173	0	173	173	0
Outside Clearing Limits	256	256	-	-	-

¹ Trees rated as dead or dying based on visual field assessment by arborist field crews.

² Significance is determined according to local jurisdiction definition. Significance may consider tree species, DBH, date of planting, or other factors.

³ Wetlands and streams along the existing easement were located by The Watershed Company field crews.

⁴ Critical areas were rated to determine buffer widths along existing easement only. Other critical areas were not rated; therefore, actual buffer widths are not known.

⁵ Park boundaries from geospatial data produced by King County GIS (County, King, 20060314, Parks in King County: King County, King County, WA. [downloaded August 22, 2016]) and City of Bellevue Geospatial Technology Services (City of Bellevue, 20160405, Park Property: Bellevue and Redmond, Bellevue, WA. [downloaded August 26, 2016]).

(not impacted)					
	429	256	173	173	0

Table 2. Summary of Tree Removal for Richards Creek Substation

Route	Estimated Total Trees to be Removed	Breakdown of Tree Removal Impacts ⁶				
		Total Significant	Total in Critical Areas	Total in Buffers	Total in Parks	Total Diameter Inches
Richards Creek Substation Parcel	173	109	0	29	0	1,702 in

⁶ Individual trees may be fit more than one condition shown. For example, a tree identified for removal may be both significant and located within a park.