

**TECHNICAL MEMORANDUM**

March 31, 2015

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|-------|-----------------------------------------------------------------------------------------------|
| To:   | Mr. Matt Perkins, Quadrant Homes                                                              |
| From: | Christopher W. Wright,<br>Principal/Soil & Wetland Scientist<br>Raedeke Associates, Inc.      |
| RE:   | Edgewood West –<br>Pre-Development Hydrologic Modeling Plan<br>(RAI Project No. 2013-036-003) |

The purpose of document is to outline the proposed pre-development wetland hydrologic monitoring at the Edgewood West plat in Redmond Washington. The proposed wetland monitoring would involve hydrologic monitoring of the on-site wetland in the undeveloped condition of the property. This monitoring program is at the request of the City of Redmond.

The Edgewood West project area is an approximately 11.5-acre irregularly shaped parcel located along the east side of 172<sup>nd</sup> Avenue NE, north of NE 120<sup>th</sup> Way in the City of Redmond, Washington.

**OBJECTIVE**

The objective of the hydrologic monitoring is to document pre-development hydrologic conditions in the on-site wetland.

**SAMPLING LOCATION**

Water level data would be gathered at location established within the on-site wetland. The location chosen for the monitoring represents the lowest point of the wetland and the area likely to be inundated during the wetter portions of the monitoring period.

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### **SAMPLING METHODS, FREQUENCY, AND DURATION**

Water level data would be measured at a stake established in the northern portion of the on-site wetland. Wetland hydrology data will be collected by physically measuring the depth of water at the monitoring location stake. In the event that surface water is not present during a monitoring visit, a soil auger will be used to excavate a hole near the monitoring location stake, and the depth to water in the bore hole will be measured.

### **SAMPLING SCHEDULE**

Water levels at the on-site wetland will be measured on a weekly basis beginning in February 2015 and continue through May 2015.

### **PARAMETERS AND EVALUATION**

The measured water levels will be recorded in a tabular format and presented to the City of Redmond. In addition to water levels measured at the site, rainfall amounts recorded at Seattle-Tacoma International airport in the 24 hours preceding the site visit also will be recorded. As this data will likely be used as baseline data for future wetland hydrology monitoring, no additional evaluation of the collected data is anticipated.

### **REPORTING**

The reporting of monitoring results would be prepared once per year and submitted to the City for review following completion of site visits for the monitoring period. It is anticipated that monitoring will commence in February 2015 and continue through May 2015.

The monitoring report will provide a description of the hydrologic conditions of the on-site wetland in the undeveloped condition.

Thank you for the opportunity to provide this information. If you have any comments or questions, need additional information, or wish to discuss this further, please contact me at 206-525-8122 or via email at [cwright@raedeke.com](mailto:cwright@raedeke.com).