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1st DRT Review
PLPSP20230080
Oct 2023

August 18, 2022

The preliminary design documents have been reviewed and contain both markups that must be addressed prior to landuse approval and markups that can be addressed at time of civil application. Markups that contain a document reference inside of brackets [] will be noted in the Action Items of the DRT Letter and must be resolved prior to landuse approval. Markups that do not contain the bracketed reference may be addressed with the civil permit application.

Soils Report Addendum:
Groundwater Monitoring
Proposed Multi-Family Development
xxx – 5th Street Southeast
Puyallup, Washington
PN: 0419036002, -6003
Doc ID: EagleWorksLLC.5thStSE.SRa

INTRODUCTION & SCOPE

This *Soils Report Addendum* is for a proposed multi-family development located at an unaddressed parcel on 5th Street Southeast in Puyallup, Washington. We have prepared a *Soils Report* for this multi-family development dated May 24, 2019. This *Addendum* summarizes the results of site groundwater monitoring during the most recent wet season (defined per the Washington State Department of Ecology 2019 Stormwater Management Manual for Western Washington as October 1st to April 30th).

The purpose of our services was to monitor groundwater levels at the site during the 2021 to 2022 wet season. Specifically, our scope of services for the groundwater monitoring included the following:

1. Reviewing the available geotechnical, geologic and hydrogeologic data for the site area;
2. Installing three monitoring ports at select locations across the site;
3. Completing bi-monthly groundwater monitoring at the site for the duration of the most recent wet season; and,
4. Preparing this *Soils Report Addendum* summarizing the site groundwater conditions, along with the supporting data.

CONCLUSIONS & MONITORING RESULTS

Three monitoring ports were installed to a depth of about 10 feet below the existing grade; named MP-1, MP-2, and MP-3. No groundwater was measured in the monitoring ports during the 2021 to 2022 wet season. The locations are labeled on the attached Figure 1.

Two of the groundwater monitoring ports (MP-1 and MP-2) were installed to about elevation 402 feet during the test pits excavated on March 13, 2019. The third monitoring port (MP-3) was installed at an undetermined date, with a measured bottom depth of about elevation 410 feet. Table 1 summarizes the measurement dates and observed groundwater readings for the 2021 to 2022 wet season.

TABLE 1:
GROUNDWATER MONITORING RESULTS FOR 2021-2022 WET SEASON

Date	Monitoring Port MP-1		Monitoring Port MP-2		Monitoring Port MP-3	
	Measured Depth to Groundwater	Groundwater Elevation ¹	Measured Depth to Groundwater	Groundwater Elevation	Measured Depth to Groundwater	Groundwater Elevation ¹
12/28/2021	NE	>402 feet	NE	>402 feet	NE	>410 feet
01/12/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
01/28/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
02/11/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
02/23/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
03/01/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
03/09/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
03/21/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet
04/26/2022	NE	>402 feet	NE	>402 feet	NE	>410 feet

Notes: NE = Not Encountered, no groundwater observed during measurement date
¹ = Vertical Datum NAVD88 Geoid 12B

No groundwater was observed from our about bi-weekly readings completed during the 2021 to 2022 wet season. Based on our wet season monitoring, it appears that seasonal high groundwater occurs at a minimum below an elevation of 402 feet (Vertical Datum NAVD88) at monitoring port MP-1 and MP-2 and elevation 410 feet (Vertical Datum NAVD88) at monitoring port MP-3.

LIMITATIONS

We have prepared this report for use by Eagle Works, LLC and other members of the design team, for use in the design of a portion of this project. The data used in preparing this report and this report should be provided to prospective contractors for their bidding or estimating purposes only. Our report, conclusions and interpretations are based on our subsurface explorations, data from others and limited site reconnaissance, and should not be construed as a warranty of the subsurface conditions.

Variations in subsurface conditions are possible between the explorations and may also occur with time. A contingency for unanticipated conditions should be included in the budget and schedule. Sufficient monitoring, testing and consultation should be provided by our firm during construction to confirm that the conditions encountered are consistent with those indicated by the explorations, to provide recommendations for design changes should the conditions revealed during the work differ from those anticipated, and to evaluate whether earthwork and foundation installation activities comply with contract plans and specifications.

The scope of our services does not include services related to environmental remediation and construction safety precautions. Our recommendations are not intended to direct the contractor's methods, techniques, sequences or procedures, except as specifically described in our report for consideration in design.

If there are any changes in the loads, grades, locations, configurations or type of facilities to be constructed, the conclusions and recommendations presented in this report may not be fully applicable. If such changes are made, we should be given the opportunity to review our recommendations and provide written modifications or verifications, as appropriate.

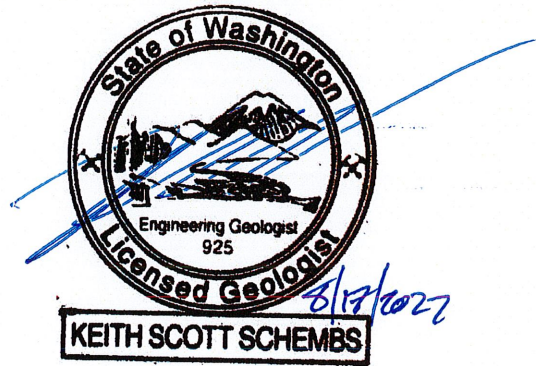


We have appreciated working for you on this project. Please do not hesitate to call at your earliest convenience if you have any questions or comments.

Respectfully submitted,
GeoResources, LLC

Erik Fina

Erik Fina, GIT
Senior Staff Geologist



Keith S. Schembs, LEG
Principal

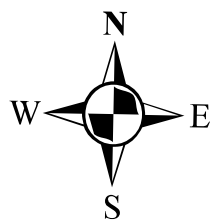
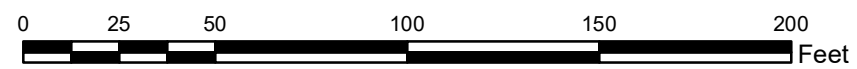
EJF:KSS:KEB/ejf
Doc ID: EagleWorksLLC.5thStSE.SRa
Attachments: Figure 1: Site & Exploration Map



Pierce County WA

Legend

 Project Site  Monitoring Ports



Coordinate System: NAD 1983 HARN
 StatePlane Washington South FIPS 4602 Feet Aerial from the Pierce County orthoimagery
 Projection: Lambert Conformal Conic Topo from Pierce County 1:600 offline
 Datum: North American 1983 HARN terrain basemap



Site & Exploration Map
 Proposed Multi-Family Development
 xxxx - 5th Street Southeast
 Puyallup, Washington
 PN: 041903-6002, -6003