

Cheryl D. Xanthos

From: Miller, Forrest <FMiller@lwsd.org>
Sent: Tuesday, December 13, 2016 4:34 PM
To: Cheryl D. Xanthos
Cc: Benjamin Sticka
Subject: FW: NESNR--Hearing Examiner's comments regarding site soils

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Xanthos,

I failed to include a document requested by the Hearing Examiner regarding the site soils. Please accept this email as receipt of that information.

Respectfully,

Forrest Miller, CFM, REFP, EFM
Director
Support Services
Lake Washington School District
fmiller@lwsd.org | 425-936-1108



From: Miller, Forrest
Sent: Tuesday, December 13, 2016 4:31 PM
To: Miller, Forrest <FMiller@lwsd.org>
Subject: FW: NENR--Hearing Examiner's comments regarding site soils

From: Chandler, Dan
Sent: Tuesday, December 13, 2016 1:59 PM
To: Miller, Forrest <FMiller@lwsd.org>
Subject: Re: NENR--Hearing Examiner's comments regarding site soils

Forrest,

This mail is to respond to the Hearing Examiner's comments regarding the relative costs associated with the soils at the NENR site.

Key points:

- The site soils are considered highly consolidated glacial till not subject to infiltration.
- The site is in a City of Redmond Wellhead Protection zone precluding storm water infiltration.
- On site queuing storage, tree retention policies, parking, building size virtually eliminate the use of stormwater storage ponds over underground storage tanks.

Results:

- Limited options to reduce stormwater retention volumes by using pervious pavements--this has limited impact anyway as pervious pavement can only be used in limited low-loading areas.
- Pervious pavement when used only reduces the stormwater retention volumes by 50% and can only be used in limited areas such as on site pedestrian walkways. Pervious asphalt in roadways and parking areas has not proven to be a viable long term solution.
- Limited options to use lower cost (per unit volume) storm water detention solutions including surface ponds, infiltration galleries, Storm Tech vaults or similar. The project is currently designed with water tight cast in place vaults for detention and treatment.

Conclusion:

- Site soils and wellhead protection have a relatively small cost impact to the project compared to other impacts including large on site queuing storage and parking.

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