Jeanne Guthrie

From: jeanne.guthrie@sherbornma.org
Subject: FW: Field notes and lab sieving analysis report

From: Desheng Wang <deshengw@yahoo.com>
Sent: Thursday, January 25, 2024 10:18 PM
To: Bob Murchison <bob.murchison@me.com>; Mark Oram <moram@sherbornma.org>
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Subject: Field notes and lab sieving analysis report

Hi Mark,

We are in the process addressing all your comments. We also received the lab sieve analysis report on all samples. The two soil samples from the SAS area (up limit and down limit of the SAS) came back all Loamy Sand, which is consistent with what we log in our soil log. The other four soil samples from Stormwater basin area, except for one we got the sample from underwater and the sample might be contaminated by A and B soils and made it into sandy loam side but close to loamy sand. The soil texture are supported by the four percolation testing: two 3 mpi, one 4 mpi, and one 5 mpi.

See the attached Lab report and our USDA soil texture triangle plot.

I compared your soil logs with mine and found they are quite consistent except for some notes I could not quite see clearly. I confirmed soil test pits 5-1, 5-2, 5-3, 55-10AN, 55-11B. I did not find 55-10, 55-11, and 55-11AN from your notes. There were some monitoring well measurements, which might be a little different from the soil log as the test pits straddled over sloped area and the monitoring well might not be exactly in the place we measured the soil profile. The difference would be minor. I attached your notes that you emailed me and I converted to pdf file for easy reference. Please check if I missed anything.

I attached my field notes for your review, and let me know if you find any discrepancies and we can discuss to clarify them.

The critical one issue is the soil texture and I found some of the soil would be classified as sand per USDA triangle diagram analysis. See attached report.

After you review both my field notes and the lab report. I will put together the final response to your comment letter.

Regarding the ledge, our notes showed some large boulders only. The two drilled well: one on top of the hill for 55 Farm Road showed 17 ft unconsolidated soil and one at the top of the hill for 53 Farm Road showed 18 ft of unconsolidated soil. All our test pits are located in the broad velly and some of them have been dug to over 18 ft, which was the maximum depth of the machine can reach. We will be using 14.5 ft aquifer depth for the mounding analysis based our meeting with Peter Dillon of TetraTech.

Thank you.

Desheng

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