

November 14, 2019

Robert Fuller
1090 N 5900 E
Eden, Utah 84310

RE: Wastewater Site and Soils Evaluation #14891
Approx. 800 N 5900 E Huntsville, Utah 84317
Parcel # 20-008-0017

An evaluation of the site and soils at the above-referenced address was completed by staff of this office on October 28, 2019. The exploration pit is located on the enclosed plat developed during the site evaluation along with the assigned numerical code for each exploration pit. The soil horizons, required percolation depths, actual and anticipated maximum ground water tables have been logged as follows:

Exploration Pit #2 (UTM Zone 12 Nad 432866 E 4569660 N)

0-23"	Loam, Granular Structure
23-53"	Gravelly Sandy Loam, Granular/Angular Blocky Structure, 30% Gravel
53-70"	Silt Loam, Blocky Structure
70-110"	Silt Loam, Massive Structure, Many Red Mottles

Exploration pit #2 was located on Parcel#: 20-008-0018 and therefore cannot currently be considered as suitable for the above-referenced property unless property lines are adjusted to include this area on the above parcel (Parcel#: 20-008-0017). This will need to be demonstrated as recorded to the Weber-Morgan Health Department before a septic permit will be issued if this area is to be considered for a wastewater disposal system.

Exploration Pit #3 (UTM Zone 12 Nad 432871 E 4569595 N)

0-23"	Loam, Granular Structure
23-60"	Silt Loam, Blocky Structure
60-125"	Silt Loam, Massive Structure, Many Red Mottles *Lenses of fine gravel and sand at lower depths*

If a conventional wastewater disposal system with a trench depth deeper than 12 inches is desired, a percolation test will need to be conducted in Exploration Pit #3 so that the bottom of the percolation test hole is at 72 inches deep from the original grade.

Exploration pits should be backfilled immediately upon completion of percolation testing to prevent a hazardous environment that may cause death or injury to people or animals.

If a percolation test is conducted, due to the soil types existing on this property, the final readings of the **percolation tests will need to be witnessed by a representative from the Health Department**. Please make the percolation tester aware of the requirement so that arrangements can be made. Test results will not be accepted if this requirement is not met.

Percolation tests may be completed by any individual on the enclosed list. The stabilized percolation test results are to be submitted to this office for review prior to the recommendation for further development to the appropriate planning agency or prior to the issuance of a wastewater disposal permit.

DESIGN REQUIREMENTS

Area within 50 feet of Exploration Pit #3:

Anticipated ground water tables not to exceed 60 inches, fall within the range of acceptability for the utilization of a Conventional Treatment System as a means of wastewater disposal. Due to restrictive soils located at a depth of 60 inches, maximum trench depth is limited to 12 inches. The absorption field is to be designed using a maximum loading rate of 0.45 gal/sq. ft./day as required for the silt loam, blocky structure soil horizon. **If a conventional trench depth deeper than 12 inches is desired, a percolation test will need to be conducted in Exploration Pit #3 at a depth of 72 inches as referenced above.**

Considering the property lines as they are currently recorded with Weber County, this lot is very restrictive in that only a relatively small portion of the very east side of the lot is suitable for the placement of a wastewater disposal system. Major design restrictions include the Zone 2 source protection zones for public drinking water system wells owned and operated by Ogden City Water System and a 100 foot setback requirement from the high water line of Pineview Reservoir. The septic tank, drainfield area, and replacement area must be designed to be outside of the Zone 2 source protection zones of Ogden City Water System's wells, while the drainfield and replacement areas must also be designed to be at least 100 feet (minimum) away from the high water line of Pineview Reservoir.

It may be difficult or impossible to place a wastewater disposal system and replacement area on this property that can support a house of more than 1-2 bedrooms using a conventional wastewater disposal system. **A packed-bed media wastewater disposal system will likely be required to install a wastewater disposal system that can support a home that contains more than 1-2 bedrooms and the Weber-Morgan Health Department cannot guarantee that it will be possible to install a wastewater disposal system that can support a home larger than 1-2 bedrooms.**

Plans for the construction of any wastewater disposal system are to be prepared by a Utah State certified individual and submitted to this office for review prior to the issuance of a Wastewater Disposal permit. It is imperative that these plans are engineered to clearly and accurately show the boundaries of the Zone 2 source protection zones of Ogden City Water System's wells, location and distances to the Pineview Reservoir high water line, and property lines (including any easements).

The following items are required for a formal **subdivision review**; application, receipt of the appropriate fee, and a full sized copy of the subdivision plats showing the location of exploration pits and percolation tests as well as the documented soil horizons and percolation rates. A subdivision review will not occur until all items are submitted. Mylars submitted for signature without this information will be returned.

Each on-site individual wastewater disposal system must be installed in accordance with R317-4, Utah Administrative Code, Individual Wastewater Disposal Systems and Weber-Morgan District Health Department Rules. Final approval will be given only after an on-site inspection of the completed project and prior to the accomplishment of any backfilling.

Please be advised that the conditions of this letter are valid for a period of 18 months. At that time, the site will be re-evaluated in relation to rules in effect at that time.

If you have any further questions, please contact this office at your convenience.

Sincerely,



Ryan Klinge
Environmental Health Division
801-399-7160