

BRIAN W. BENNION, M.P.A., L.E.H.S.  
Health Officer/Executive Director



November 01, 2017

Weber County Planning Commission  
2380 Washington Blvd.  
Ogden, UT 84401

RE: Wastewater Site and Soils Evaluation #14597  
4450 N 3300 E Liberty, Ut 84310  
Parcel # 22-007-0011 & 22-007-0010

An evaluation of the site and soils at the above-referenced address was completed by staff of this office on October 27, 2017. 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:

Culinary water will be provided by Liberty Pipeline Water Improvement District, an extension of an existing approved non-community water system. **A letter from the water supplier is required prior to issuance of a permit.**

Exploration Pit #1 (UTM Zone 12 Nad 83 0427423 E 4576938 N)  
0-18" Loam, granular structure  
18-56" Loam, massive structure  
56-114" Gravelly loamy sand, single grain, 40% gravel

For consideration (soils have a permissible system but would required a percolation test to determining feasibility of a less expensive system (description))

For consideration of a conventional wastewater disposal system a percolation test would need to be conducted so that the bottom of the percolation test hole is at 64 inches deep below original grade, performed by a certified individual and witnessed by Health Department staff. Please make an appointment with our office at 801-399-7160.

#### DESIGN REQUIREMENTS

Anticipated ground water tables not to exceed 60 inches, fall within the range of acceptability for the utilization of an At-Grade Treatment System as a means of wastewater disposal. Maximum trench depth is limited to 18 inches. The absorption field is to be designed using a maximum loading rate of 0.4 gal/sq. ft./day as required for the loam, massive structure soil horizon.

Exploration Pit #2 (UTM Zone 12 Nad 83 0427422 E 4576867 N)  
0-18" Loam, granular structure  
18-58" Loam, massive structure  
58-110" Gravelly loamy sand, single grain, 40% gravel

#### DESIGN REQUIREMENTS

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. Maximum trench depth is limited to 10 inches. The absorption field is to be designed using a maximum loading rate of 0.4 gal/sq. ft./day as required for the loam, massive structure soil horizon.

Exploration Pit #3 (UTM Zone 12 Nad 83 0427683 E 4576964 N)  
0-20" Sandy loam, granular structure  
20-105" Sandy loam, massive structure, 10% gravel

#### DESIGN REQUIREMENTS

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. Maximum trench depth is limited to 18 inches. The absorption field is to be designed using a maximum loading rate of 0.45 gal/sq. ft./day as required for the sandy loam, massive structure soil horizon.

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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.

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.

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

Sincerely,

  
Brett Bunderson, LEHS  
Environmental Health Division  
801-399-7160

BB/gk



