



October 11, 2018

Brandon Janis
562 S 1100 W
Farmington, UT 84025

RE: Wastewater Site and Soils Evaluation #14747
2050 N Big Sky Liberty, Ut 84310
Parcel # 22-040-0024

An evaluation of the site and soils at the above-referenced address was completed by staff of this office on October 09, 2018. 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 #1 (UTM Zone 12 Nad 83 0428747 E 4572038 N)

0-9" Clay loam, granular structure, <10% gravel
9-28" Gravelly clay loam, massive (saturated) structure, 20% gravel
28-68" Gravelly clay, massive structure, 40% gravel, many mottles

Ground water depth encountered @ 68".

Conduct the required percolation tests so that the bottom of the percolation test holes are at 21, 40 inches deep from the original grade.

Exploration Pit #2 (UTM Zone 12 Nad 83 0428773 E 4571963 N)

0-48" Loam, granular structure
48-66" Gravelly sandy clay loam, granular structure, 60% gravel
66-92" Gravelly coarse sandy loam, granular structure, 60% gravel

Conduct the required percolation test so that the bottom of the percolation test holes are at 60 inches deep from the original grade.

Exploration Pit #3 (UTM Zone 12 Nad 83 0428822 E 4571993 N)

0-26" Loam, granular structure
26-47" Silty clay, blocky structure, 5% gravel
47-78" Gravelly sandy clay loam, massive structure, 15% gravel

Conduct the required percolation test so that the bottom of the percolation test holes are at 38 inches deep from the original grade.

Exploration Pit #5-#1 (UTM Zone 12 Nad 83 0429070 E 4571894 N)

0-16" Sandy clay loam, granular structure, <5% gravel
16-36" Clay, massive structure, <5% gravel, common mottles begin at 24"
36-90" Gravelly clay, massive structure, 40% gravel, common mottles

Conduct the required percolation tests so that the bottom of the percolation test holes are at 12, 28, & 48 inches deep from the original grade. The clay soils in the area of this test pit are very restrictive and are likely to be found infeasible if explored further with percolation testing.

Exploration Pit #5-#2 (UTM Zone 12 Nad 83 0429042 E 4571951 N)

0-22" Loam, granular structure, < 5% gravel
22-48" Sandy loam, blocky structure, <5% gravel, common mottles begin at 36"
48-78" Sandy clay loam, massive structure, <5% gravel, common mottles
78-96" Gravelly coarse sandy clay loam, massive structure, 75% gravel, common mottles

Ground water encountered@ 96".

Conduct the required percolation test so that the bottom of the percolation test holes are at 60 inches deep from the original grade.

Exploration Pit #6 (UTM Zone 12 Nad 83 0429009 E 4571781 N)

0-19" Loam, granular structure

19-36" Clay loam, blocky structure

36-63" Gravelly silty clay, massive structure, 30% gravel, many red mottles

63-98" Clay, massive structure, many red mottles

Ground water encountered @ 98".

Conduct the required percolation tests so that the bottom of the percolation test holes are at 31, 48, & 75 inches deep from the original grade.

Exploration Pit #7 (UTM Zone 12 Nad 83 0428931 E 4571832 N)

0-30" Clay loam, granular-blocky (saturated) structure, 10% gravel

30-51" Gravelly sandy clay loam, blocky-massive (soil saturation) structure, 50% gravel

51-63" Silty clay, massive (soil saturation observed) structure, many red mottles

Ground water encountered@ 63".

Conduct the required percolation tests so that the bottom of the percolation test holes are at 15, 42, & 63 inches deep from the original grade.

Exploration Pit #8 (UTM Zone 12 Nad 83 0428765 E 4571919 N)

0-24" Sandy loam, granular structure, <5% gravel

24-41" Gravelly clay loam, granular structure, 20% gravel

41-88" Gravelly sandy loam, massive structure, 75% gravel

Conduct the required percolation test so that the bottom of the percolation test holes are at 36 inches deep from the original grade.

Exploration Pit #9 (UTM Zone 12 Nad 83 0428897 E 4571681 N)

0-16" Loam, granular structure, 10% gravel

16-38" Gravelly clay loam, blocky structure, 20% gravel

38-52" Gravelly clay loam blocky structure, 30% gravel

52-82" Gravelly clay loam, blocky (saturated) structure, 50% gravel

Conduct the required percolation tests so that the bottom of the percolation test holes are at 28, 50, & 64 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.

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.

Monitoring of the maximum ground water table is required in the location of the above listed exploration pits. Please complete the enclosed application for maximum ground water table monitoring and return it along with the

appropriate fees. The wells should be constructed in accordance with the enclosed diagram in order to provide the most accurate water table readings possible.

Provide evidence that 20,000 sq. ft. of contiguous buildable area with a slope of less than 25 % is available. Also, indicate that it will be possible to place the onsite wastewater disposal system at least 50 ft. from slopes exceeding 35%.

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

Sincerely,



Ryan Klinge
Environmental Health Division
801-399-7160

RK/gk