

July 2, 2024

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

RE: Preliminary Subdivision **Determination (Revised 7/2/2024)**
Arrowleaf Subdivision, 9 lots
Parcel #22-008-0013 & 22-008-0067
Soil log #15431

The soil and percolation information for the above-referenced lot have been reviewed. Culinary water will be provided by a private well. **The placement of the well is critical so as to provide the required 100 foot protection zone.** The well will need to be dug, tested and the water supply approved prior to issuance of a wastewater disposal permit.

DESIGN REQUIREMENTS

Lot 1, 4, 5 & 9: Documented ground water tables not to exceeding 12 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound Treatment System or a Packed Bed Media System followed by an At-Grade or Drip Irrigation absorption area, as a means of wastewater disposal. Maximum absorption area depth is limited to 0 inches. As defined in the Utah Administrative Code R317-4 Table 6 the absorption area is to be designed using a maximum loading rate of 0.22 gal/sq. ft./day for a Wisconsin Mound absorption area, or 0.45 gal/sq. ft./day for the Packed Bed Media absorption area as required for the sandy loam-loam, massive structure soil horizon.

Lot 2 Documented ground water tables not to exceeding 24 inches, fall within the range of acceptability for the utilization of a Packed Bed Media System followed by an Absorption Trench or Drip Irrigation absorption area, as a means of wastewater disposal. Maximum absorption area depth is limited to 12 inches. The absorption system is to be designed using a maximum loading rate of 0.35 gal/sq. ft. /day as required for a clay loam, blocky structure soil horizon with a documented percolation rate of 120 minutes per inch.

Lot 3, 6 & 7: Documented ground water tables not to exceeding 12 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound Treatment System or a Packed Bed Media System followed by an At-Grade or Drip Irrigation absorption area, as a means of wastewater disposal. Maximum absorption area depth is limited to 0 inches. As defined in the Utah Administrative Code R317-4 Table 6 the absorption area is to be designed using a maximum loading rate of 0.25 gal/sq. ft./day for a Wisconsin Mound absorption area, or 0.5 gal/sq. ft./day for the Packed Bed Media absorption area as required for the sandy loam, blocky-massive structure soil horizon.

Lot 8: Documented ground water tables not to exceeding 24 inches, fall within the range of acceptability for the utilization of a Packed Bed Media System followed by an Absorption Trench or Drip Irrigation absorption area, as a means of wastewater disposal. Maximum absorption area depth is limited to 12 inches. The absorption system is to be designed using a maximum loading rate of 0.35 gal/sq. ft. /day as required for a sandy clay loam, granular structure soil horizon with a documented percolation rate of 120 minutes per inch. **Please be aware that the location of the soil exploration TP4B which the feasibility of this lot is based upon is located across the drainage from the proposed building pad.** The future property owner may want to do additional site and soil work so that engineering of the system may be simplified

Parcel A, B & C: HOA Open Space Lot: These lots are identified as open space. They have not been evaluated for the installation of an onsite wastewater treatment system or its ability to meet the minimum subdivision standards established in the Utah Administrative Code R317-4 or the Weber-Morgan health Department Onsite Wastewater Treatment System Regulation.

ENGINEERING CONSIDERATION:

The cost of a mound system is greatly increased when designed to go on to a sloping property (exceeding 10%). This is based on the quantity of C33 sand required in the construction of a mound on a sloping site. It is recommended that you discuss this with your certified onsite wastewater designer and receive a cost comparison of both a mound and a packed bed media onsite wastewater treatment system.



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.

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.

Sincerely,



Summer Day, LEHS
Environmental Health Division
801-399-7160