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

WEBER-MORGAN
HEALTH DEPARTMENT

July 9, 2019

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

RE: Preliminary Subdivision **Determination**
Hidden Brooks Estates, 9 lots
Parcel # 22-040-0023
Soil # 14747

Gentlemen:

The soil and percolation information for the above-referenced lots have been reviewed. Culinary water will be provided by Nordic Mountain Water Company, an approved community water system. **A letter from the water supplier is required prior to the issuance of a permit.**

ENGINEERING CONSIDERATIONS
Due to variable conditions found throughout the property (including variance in soil types, the presence of wet areas, springs, streams, etc.) absorption fields will be strictly limited to the areas on each lot where feasible soil evaluations have occurred. Current code requirements restrict the placement of the wastewater system absorption field to within 50 feet of the site and soils evaluation test pit location. The flatter areas throughout the property are typically infeasible for septic system installation based on documented high ground water tables in these areas (ranging from <12" to water flowing out of test pits above natural grade).

DESIGN REQUIREMENTS
Lot 1: Documented ground water tables not to exceed 24 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound or Packed Bed Media Wastewater Disposal System as a means of wastewater disposal. Maximum trench depth for a Packed Bed Media System is limited to 12 inches. The absorption system is to be designed using a maximum loading rate of 0.5 gal/ft^2/day for a Packed Bed Media System or 0.25 gal/ft^2/day for a Wisconsin Mound as required for the loam, granular structure soil horizon.

Lot 2: Documented ground water tables not to exceed 24 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound or Packed Bed Media Wastewater Disposal System. Maximum trench depth for a Packed Bed Media System is limited to 12 inches. The absorption system is to be designed using a maximum loading rate of 0.4 gal/ft^2/day for a Packed Bed Media System or 0.2 gal/ft^2/day for a Wisconsin Mound as required for the silty clay, blocky structure soil horizon. **Feasibility of this lot is dependent upon the proposed lot line shift of the western property line to incorporate the soil exploration test pit # 3 located at UTM Zone 12 Nad 83 0428822 E 4571993N.**

Lot 3, 6, 7, & 9: Documented ground water tables not to exceed 24 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound or Packed Bed Media Wastewater Disposal System. Maximum trench depth for a Packed Bed Media System is limited to 12 inches. The absorption system is to be designed using a maximum loading rate of 0.4 gal/ft^2/day for a Packed Bed Media System or 0.2 gal/ft^2/day for a Wisconsin Mound as required for the sandy clay loam, blocky structure soil horizon.

Lot 4: Documented ground water tables not to exceed 12 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound or Packed Bed Media Wastewater Disposal System with Drip Irrigation. Maximum trench depth for a Packed Bed Media System with Drip Irrigation is limited to 0 inches. The absorption system is to be designed using a maximum loading rate of 0.5 gal/ft^2/day for a Packed Bed Media System or 0.25 gal/ft^2/day for a Wisconsin Mound as required for the loam, granular structure soil horizon. **Due to the proximity of this lot to the stream and required system setbacks, a Packed Bed Media System with Drip Irrigation may be the only feasible system for this lot. Feasibility of this lot is dependent upon the proposed lot line shift of the western property line to incorporate the soil exploration test pit # 5.2 located at UTM Zone 12 Nad 83 0429042 E 4571951N.**

Lot 5: Documented ground water tables not to exceed 12 inches, fall within the range of acceptability for the utilization of a Wisconsin Mound or Packed Bed Media Wastewater Disposal System with Drip Irrigation. Maximum trench depth for a Packed Bed Media System with Drip Irrigation is limited to 0 inches. The absorption system is to be designed using a maximum loading rate of 0.4 gal/ft^2/day for a Packed Bed Media System or 0.2 gal/ft^2/day for a Wisconsin Mound as required for the clay, massive structure soil horizon.

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 III
Environmental Health Division
801-399-7160