



Carl R. Shupe

DOPL Licensed Environmental Health Scientist 5630685-2001
DWQ Certified Onsite Wastewater Level 3 00464-OSP-3

Mailing Address
P. O. Box 199
Huntsville, Utah 84317

Electronic Contact Information
cshupe001@gmail.com
801-814-3036

FEASIBILITY ASSESSMENT RECORD

Property Information

2019 Jun 22

Site Address: 2050 North St & Big Sky Dr Liberty
Additional: Hidden Brooks Estates, Proposed Subdivision Lot#
Parcel IDs: 22-040-0023-27.8 ac

Soil Log #: 14747

Proposed Lot #1

Soil Pit#:

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

Location: USNG 12T VL 28773-71963

Percolation: 60 inches 5.1 MPI

Proposed Changes to Lot: Not required.

Proposed Lot #2

Soil Pit#:

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

Location: USNG 12T VL 28822-71993

Percolation: 38 inches 9.8 MPI

Proposed Changes to Lot: Shift west border slightly west to incorporate
Exploration Pit #3.

Proposed Lot #3

Soil Pit#:

Exploration Pit #3_2 (UTM Zone 12 Nad 83 0428938 E 4572008 N)
0-22" Loam, Granular Structure, 10% gravel
22-53" Sandy Clay Loam, Blocky Structure, <10% gravel
Ground water encountered at 53 inches.

Location: USNG 12T VL 28938-72008

Percolation: 34 inches 7.1 MPI

Proposed Changes to Lot: Not required.

Proposed Lot #4

Soil Pit#:

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

Location: USNG 12T VL 29042-71951

Percolation: 60 inches 480 MPI

Proposed Changes to Lot: Shift east border slightly east to incorporate
Exploration Pit #5.2. This lot has a stream along the west edge that had a
significant flow that will require a 100 foot setback for mound systems.

Proposed Lot #5

Soil Pit#:

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

Location: USNG 12T VL 29070-71894

Percolation: 12 inches 10.4 MPI
28 inches 6.8 MPI
48 inches 160 MPI

Proposed Changes to Lot: Not required.

Proposed Lot #6

Soil Pit#:

Exploration Pit #6_2 (UTM Zone 12 Nad 83 0429024E 4571732 N)
0-17" Sandy loam, granular structure, 10% gravel
17-61" Gravelly coarse sandy clay loam, weak massive structure, 50% gravel increasing with
depth

Location: USNG 12T VL 29024-71732

Percolation: 32 inches 36.9 MPI

Proposed Changes to Lot: Not required.

Proposed Lot #7

Soil Pit#:

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".

Location: USNG 12T VL 28931-71832

Percolation: 15 inches 7.5 MPI
 42 inches 17.8 MPI
 63 inches 2560 MPI
Proposed Changes to Lot: Not required.

Proposed Lot #8

Soil Pit#:
 Exploration Pit #8_2 (UTM Zone 12 Nad 83 0428762 E 4571952 N)
0-19" Gravelly Sandy Loam, Granular Structure, 50% gravel (some cobble)
19-46" Gravelly Coarse Sandy Loam, Blocky/Granular Structure, 40% gravel (some cobble),
 common mottling beginning at 30" and below
46-52" Gravelly Coarse Sandy Clay Loam, Blocky Structure, 40% gravel (some cobble), common
 mottling
Ground water encountered at 52 inches.

Location: USNG 12T VL 28762-71952
Percolation: Not Required
Proposed Changes to Lot: Not required.

Proposed Lot #9

Soil Pit#:
 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

Location: USNG 12T VL 28897-71681
Percolation: 28 inches 12.6 MPI
 50 inches 13.7 MPI
 64 inches 43.6 MPI
Proposed Changes to Lot: Not required.

Certified Onsite Professional

I am Level III certified in accordance with UAC Chapter R317-11. I certify that the above test was conducted in accordance with UAC § R317-4-14 Appendix D.



SIGNATURE OF CERTIFIED TESTER

2019 Jun 22

DATE OF SIGNATURE