

Table 1: Estimated Denver Basin Allocations for Quarterhouse Lane - 300-year

Location: SW 1/4 of NW 1/4 of Section 15, Township 11 S, Range 65 W
Parcel Nos.: 6100000689 - El Paso County
Address: 18050 Quarterhouse Lane
Existing Decree: N/A
Existing Permit No.: N/A
Elevation: 7,462 Feet
Surface Area: 10 Acres
Number of lots: 2
Designated Basin: N/A
Management District: N/A

<i>Aquifer</i>	<i>Surface Area (Acres)</i>	<i>Net Sand (ft)</i>	<i>Avg. Specific Yield (%)</i>	<i>Total Approp. Volume (AF)</i>	<i>100-year Ann. Approp. (AF/yr)</i>	<i>300-year Ann. Approp. (AF/yr)</i>
Upper Dawson (NNT) ¹	10	466.70	20.00%	933.40	6.33	2.11
Denver (NNT)	10	398.70	17.00%	677.79	6.78	2.26
Upper Arapahoe (NT)	10	266.00	17.00%	452.20	4.52	1.51
Laramie-Fox Hills (NT)	10	189.20	15.00%	283.80	2.84	0.95

Note 1: The Dawson Aquifer in this location was reduced by 3 AF/year over a 100-year basis due to exempt well No. 49840-A

Table 2: Estimated Annual Water Use, Pumping Rates, and Return Flows

Use	Constant	Increment
Two (2) lot development		
Domestic Indoor	0.260	AF/year
Irrigation ¹	0.623	AF/year
Stock Watering ²	0.044	AF/year
Total Well Demand	0.927	AF/year/lot

Note 1: Assume 11,000 ft² at 0.0566 AF/1,000 ft²

Note 2: Assume 4 horses at 0.011 AF/horse/year

Total Demand: **1.85** AF/year

Estimated Return Flows through Septic (domestic use only)

Percent of domestic: Indoor 90.00%
Volume return @ 0.26 AF/year **0.468** AF/year - Dawson
Volume return @ 0.20 AF/year **0.360** AF/year - Dawson

Table 3: AUG-3 Denver Basin Depletion Model - Maximum Depletions Using SB 5-year_Timestep_2019 Model for wells outside of Designated Basins**Dawson Aquifer Only - Not-Nontributary**

Pumping Interval	Formation	Total Depl. (AF/yr)	Total Depl. (% of Pumping)	Year of Max. Depletion	Div. 1 Depletion (AF/yr)	Div. 2 Depletion (AF/yr)	Designated Basin (AF/yr)
300-year pumping period							
Pumping Period	Dawson Aquifer (NNT)	0.349	18.84%	300	0.208	0.088	0.056
Model Period 1	Dawson Aquifer (NNT)	0.358	19.37%	360	0.194	0.101	0.063