Equation (1) Inputs	(LxW)/43560sqft	Equation (1) Assumptions
		1acre =43560 sqft

Area [ ] Length (ft) [ ] Width (ft) [0.0335] Acres

1461 sq ft. **(calculated from GIS)**

Equation (2) Inputs	Ksat*27,154gal/(42gal)	Equation (2) Assumptions
		1acre/inch =27,154 gal
		1bbl = 42gal

Ksat [4] in Inches per hour located at https://websoilsurvey.nrcs.usda.gov

(Ksat high at 2.00 to 6.00 in/hr)

[2586.10] BBL/Acre/hr

Equation (3)	(Eq2)X(Eq1) Area adjusted volume

[86.74] BBl/hr max

Equation (4) Inputs	(Eq3)X release duration (hours)+recoverd volume	Equation (4) Assumptions
		recovered fluids are not in soil solution

[0] BBL

[0.5] Duration (hr)

[43.37] BBL

[1] infiltratration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface: (National Soil Survey Handobook (USDA)

[2] (Ksat) Hydraulic Conductivity. (National Soil Survey Handobook (USDA) conductivity is often referred to as coefficient of permeability, most commonly shortened to permeability

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