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

1 acre = 43560 sqft

Area   `0` Length (ft)   `0` Width (ft)   `0.1000` Acres
(calculated from GIS)

Equation (2) Inputs	Ksat*27,154gal/(42gal)	Equation (2) Assumptions

1 acre/inch = 27,154 gal

Ksat   `0.06` in Inches per hour located at   https://websoilsurvey.nrcs.usda.gov   1bbl = 42gal

H2 - 15 to 36 inches: fine sandy loam   `38.79` BBL/Acre/hr

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

`3.88` BBl/hr max

Equation (4) Inputs	(Eq3)X release duration (hours)+recoverd volume	Equation (4) Assumptions

recovered fluids are not in
soil solution

`25` BBL

`2` Duration (hr)

`32.76` BBL

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[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