

Silver Dollar Estates – Effluent Discharge to Swan Lake from RSWRF

Effluent Discharge Calculation Criteria:

- Approximate number of units = **620 units**
- Approximate Effluent Discharge per unit = **200 gallons/day/unit**
- Depth calculations based upon 100-year Swan Lake water surface elevation prior to discharge

Daily Effluent Discharge Calculation:

620 unit * 200 gallons/day/unit * (ac-ft/325,851 gallons) = **0.38 ac-ft/day**

PROJECT EFFLUENT DISCHARGE TO SWAN LAKE:

Approximate DAILY depth of effluent discharge = **0.0028 inches/day**

Approximate ANNUAL depth of effluent discharge = **1.0 inches/year**

EXISTING EFFLUENT DISCHARGE TO SWAN LAKE:

Approximate DAILY depth of effluent discharge = **0.0234 inches/day**

Approximate ANNUAL depth of effluent discharge = **8.55 inches/year**

EXISTING PLUS PROJECT DISCHARGE TO SWAN LAKE:

Approximate DAILY depth of effluent discharge = **0.0262 inches/day**

Approximate ANNUAL depth of effluent discharge = **9.55 inches/year**