

FILE NUMBER: 81-2006
REVIEWER: Craig L. Saxton
DATE: 10/17/2011

Pond Seepage & Flow Through

POND

SURFACE AREA (SQFT) ----- 14425

AVERAGE DEPTH (FT) ----- 12.50

(Ponds 1 and 4)

CAPACITY -----
180312.5 CUFT
1348738 G

FILL OR REFILL RATE (CFS) ----- 1

USE 0 IF FILLED NATURALLY FROM GW
TOTAL DOMESTIC RATE CANNOT EXCEED 0.04 CFS
FOR PART B DOMESTIC*

CONVERT TO GPD -----
646272 GPD
723.9 AFA

REFERENCE EXAMPLE:
ESTIMATED NUMBER OF DAYS
TO FILL BASED ON PROVIDED
INPUTS -----

2.09 DAYS
50 HR

EVAPORATION (IN/DAY) ----- 0.3

IF UNKNOWN, USE REFERENCE ETpk80 FROM ABOVE

CONVERT TO GPD -----
2698 GPD
3.9 AFA

Use ETIdaho Calculation for Evaporation Loss as it is more up to date:

SEEPAGE RATE (FT/DAY) ----- 0.200

SUGGESTED VALUES FOR DIFFERENT SOIL TYPES:

- 0 = NATURALLY FILLED FROM GW, OR LINED
- 0.5 = CLAY SOILS
- 1.5 = LOAMS
- 3.0 = GRAVELS

CONVERT TO GPD -----
21580 GPD
24.2 AFA

FLOW-THROUGH (CFS) ----- 0.06
(REFRESH RATE)

TOTAL DOMESTIC RATE CANNOT EXCEED 0.04 CFS
FOR PART B DOMESTIC*

CONVERT TO GPD -----
0 GPD

TOTAL POND -----

748.1
670549 GPD
751.4 AFA