```
d_1 = d_0 + P - L - E - D + R for 0 < d_1 < d_{veir}
where
   d_1 = the current agueous depth for the day (m)
   d_0 = the water depth of the previous day (m)
d_{weir} = \text{weir level (m)}
    P = \text{daily direct precipitation on water body (m)}
    L = \text{leakage through sediment (m)}
```

E = daily evaporation of runoff (m)

D =drainage due to weir height changes (m) R =engineered flow into water body (m)