```
<><> Time Stamp <><>
29/06/2022 - 12:25:32
<><> Data Summary <><>
Bore ID: GW036872.1.1
Bore Coordinates: (-30.923963, 153.044423)
Silo Grid Point Coordinates: (-30.9, 153.05)
<><> Code Checks <><>
GWL Date Chronological Order Check: No Error
SILO Date Chronoligical Order Check: No Error
<><> Model Functionality <><>
Input Variables (Daily):
    SWL (m)
    Rainfall (mm)
    Maximum Temperature (°C)
    Minimum Temperature (°C)
    Vapour Pressure (hPa)
    Vapour Pressure Deficit (hPa)
    Evaporation - Class A Pan (mm)
    Evaporation - Synthetic Estimate (mm)
    Evaporation - Combination (Synthetic Estimate pre-1970, Class A Pan 1970 Onwards) (mm)
    Evaportation - Morton's Shallow Lake Evaporation (mm)
    Solar Radiation - Total Incoming Downward Shortwave Radiation on a Horizontal Surface (MJ/m^2)
    Relative Humidity at Time of Maximum Temperature (%)
    Relative Humidity at Time of Minimum Temperature (%)
    Evapotranspiration - FAO56 Short Crop (mm)
    Evapotranspiration - ASCE Tall Crop (mm)
    Evapotranspiration - Morton's Areal Actual Evapotranspiration (mm)
    Evapotranspiration - Morton's Potential Evapotranspiration
    Evapotranspiration - Wet-Environment Areal Evapotranspiration Over Land (mm)
    Mean Sea Level Pressure (hPa)
Input Time Lags: Current day + 29 proceeding days
Output: SWL (m) in 1 days time
Data Range: 02/04/2010 - 01/09/2021
<><> Hyperparameters <><>
Number of Epochs: 1000
Learning Rate: 0.001
Number of Features in Hidden State: 2
Number of Staked LSTM Layers: 1
Number of Output Classes: 1
Percentage of Data for Training: 80.0%
<><> Model Results <><>
Run Time: 111.02209186553955s
```

Network Structure:

(lstm): LSTM(19, 2, batch_first=True)
(fc_1): Linear(in_features=2, out_features=128, bias=True)
(fc): Linear(in_features=128, out_features=1, bias=True)
(relu): ReLU()

Final Training Loss: 0.0003109858080279082
Training Set RMSE: 0.02749518797794164
Testing Set RMSE: 0.08583105928908191

Epoch: 0, Loss: 0.42512

Epoch: 100, Loss: 0.01682

Epoch: 200, Loss: 0.00888

Epoch: 300, Loss: 0.00383

Epoch: 400, Loss: 0.00194

Epoch: 500, Loss: 0.00101

Epoch: 600, Loss: 0.00065

Epoch: 700, Loss: 0.00049

Epoch: 800, Loss: 0.00040

Epoch: 900, Loss: 0.00035