

# Supporting Information

## Equation S1 – Free Chlorine Residual (FCR) Calculation

Chlorine Dosage (mg/L) - Chlorine Demand (mg/L) = Free Chlorine Residual (mg/L) ,  
(S1)

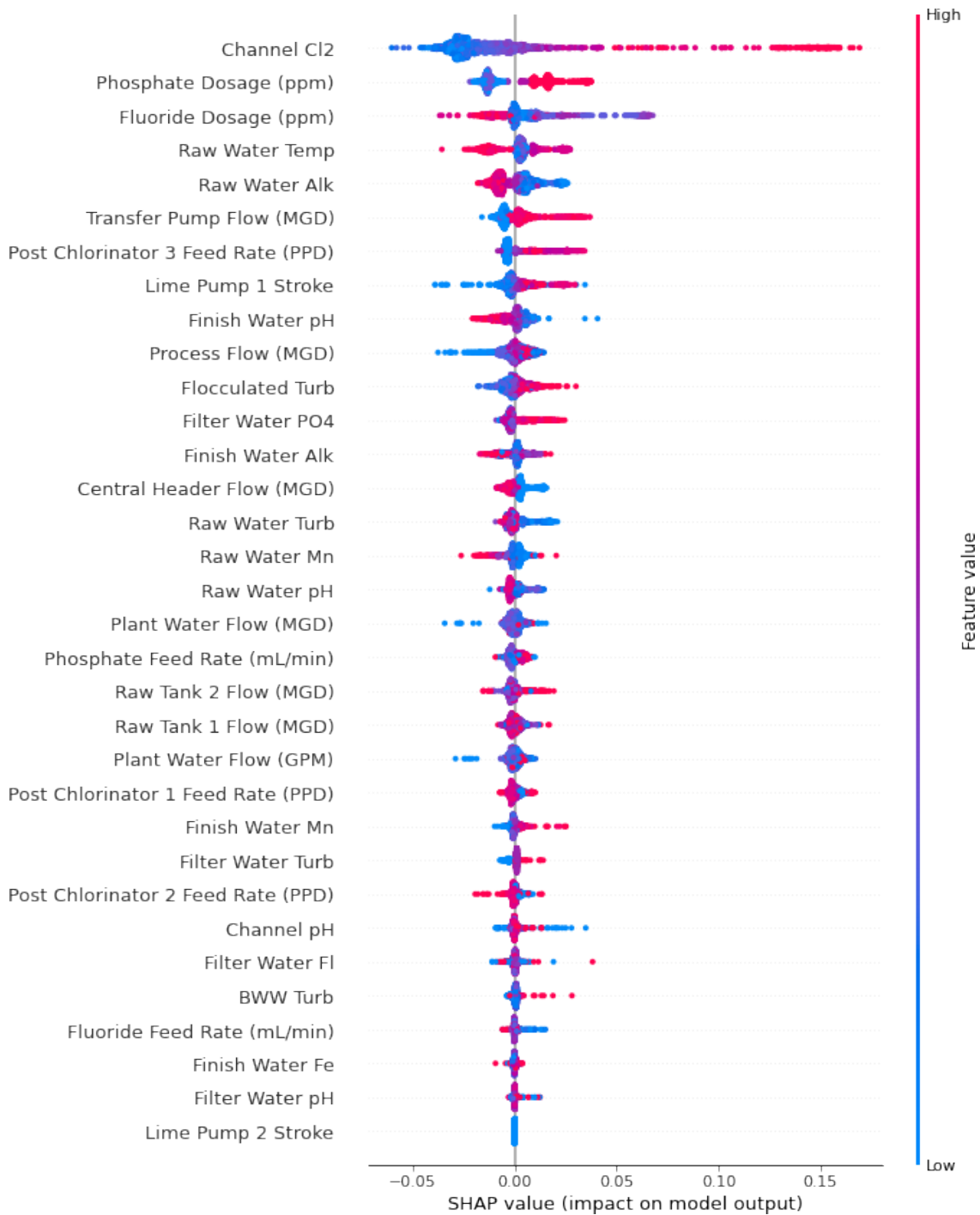


Fig. S1 SHAP Bee Swarm Plot (Iteration 2).

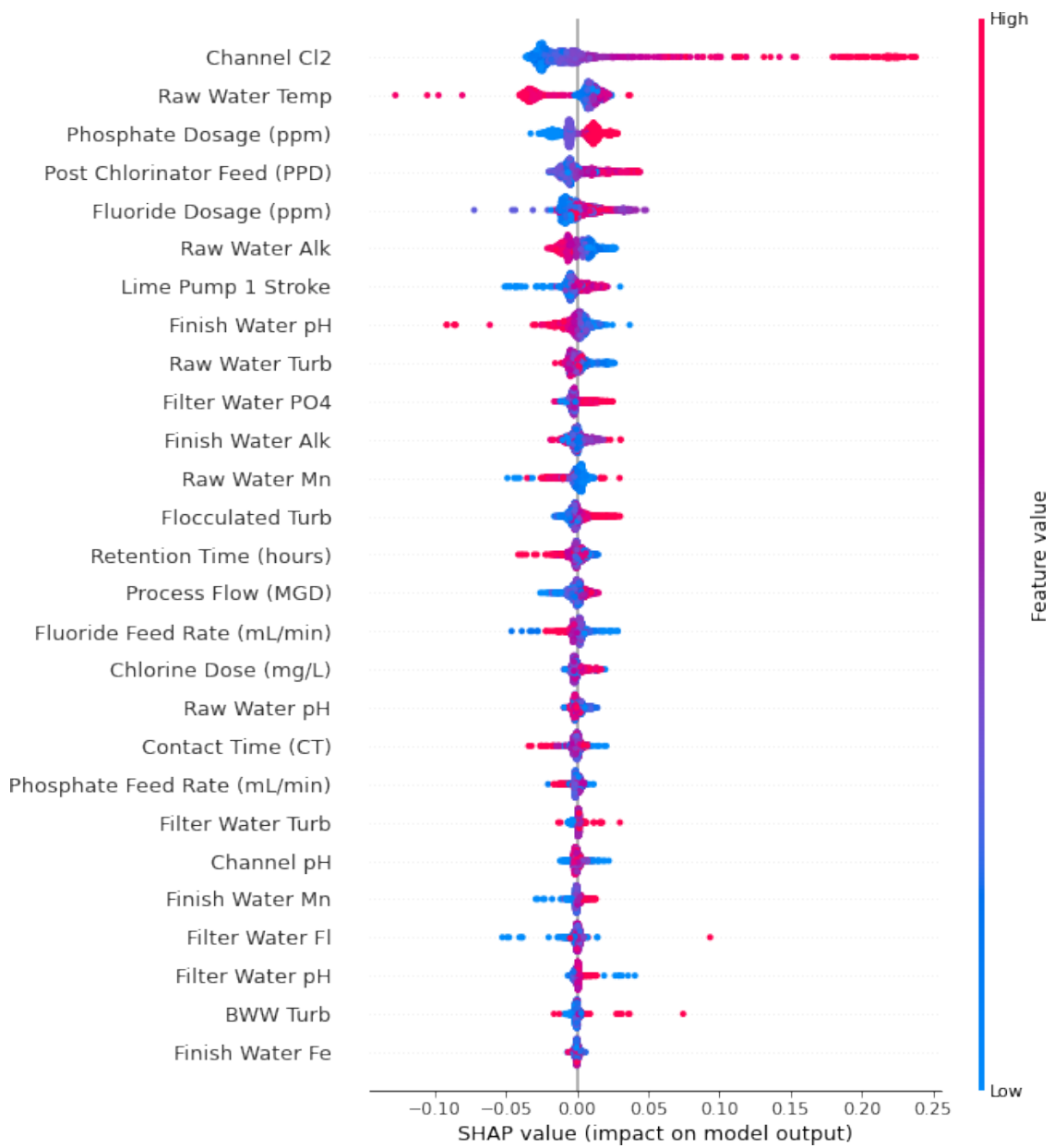
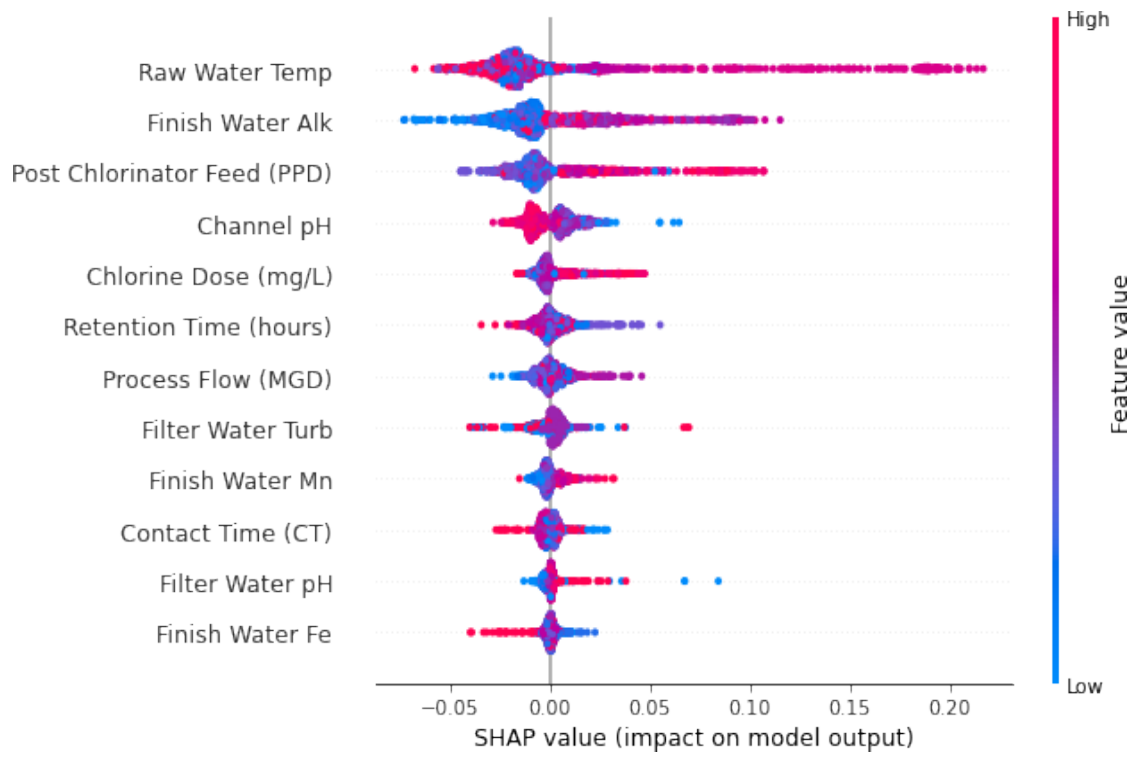


Fig. S2 SHAP Bee Swarm Plot (Iteration 3).



**Fig. S3** SHAP Bee Swarm Plot (Iteration 4).