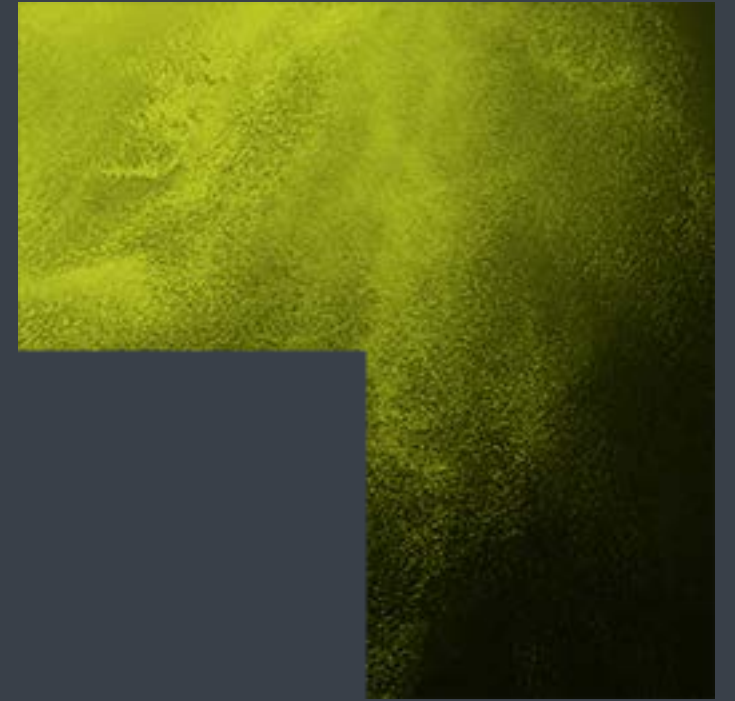
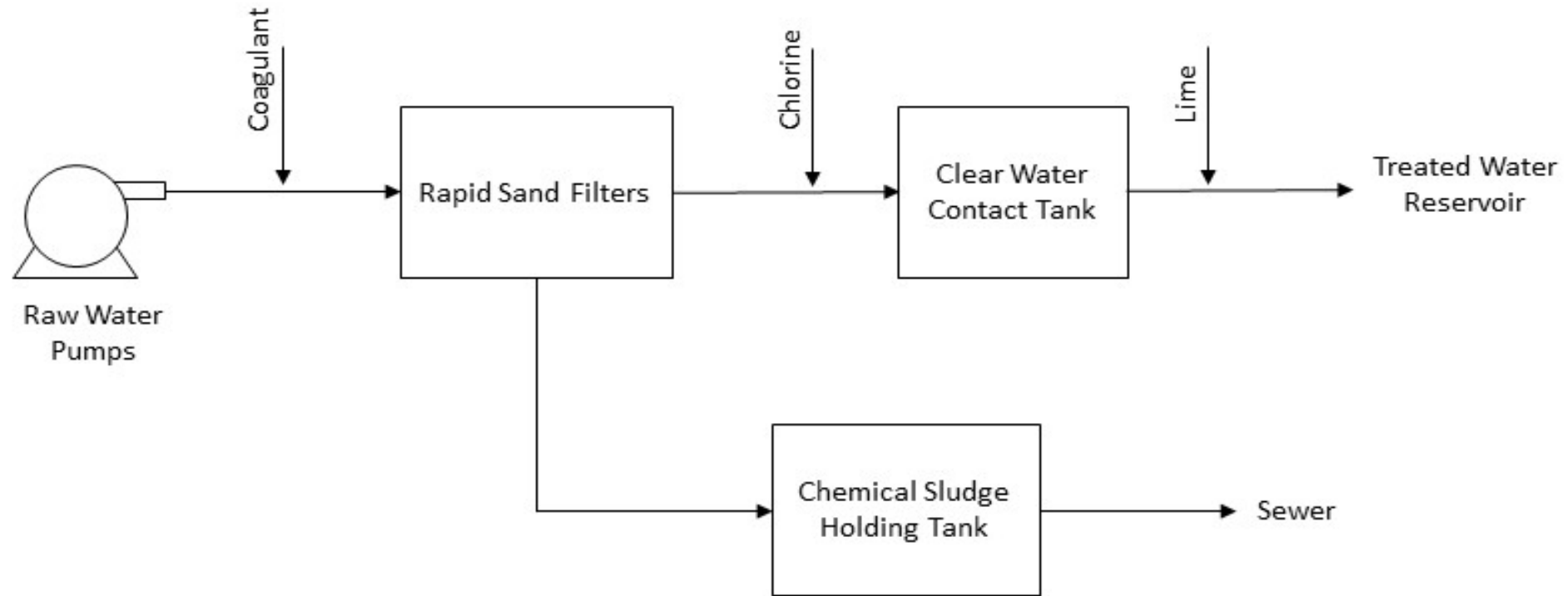


# PAEROA WTP – CHEMICAL FREE WASTE STREAMS

IAIN RABBITTS  
KARUNA HAMBAMMER



# EXISTING TREATMENT SYSTEM



# UPGRADE DRIVERS



## Increase Plant Capacity

- 4.3 - 6.0 MLD



## Government Funding



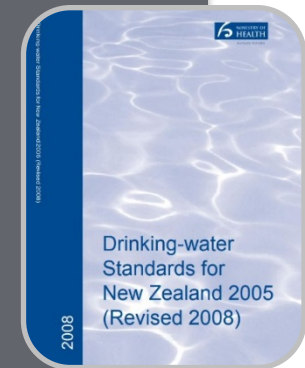
## Upgrade Drivers

## Taste and Odour



## Compliance with Drinking-water Standards

- 4 Log Credits for Protozoa

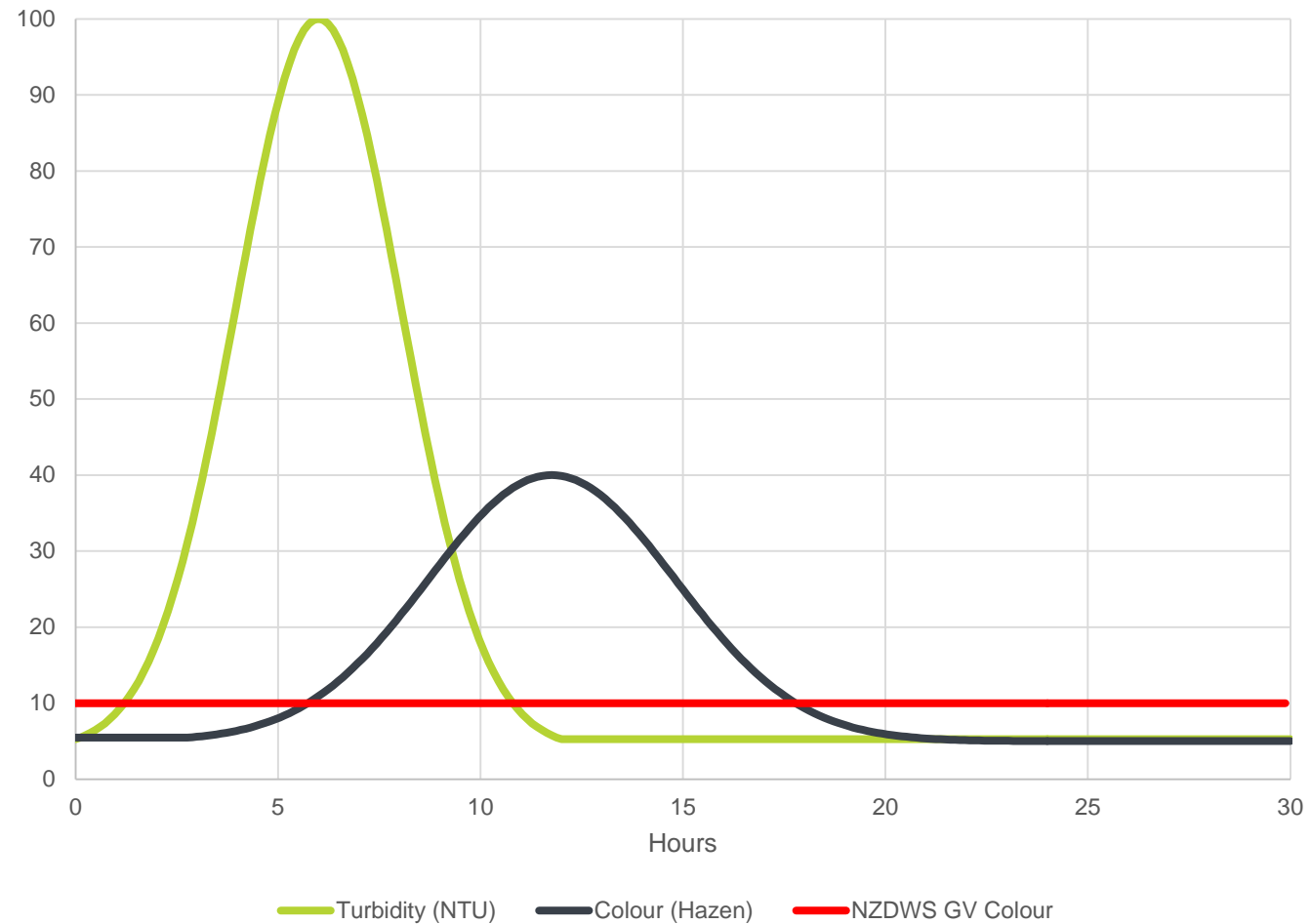


# DESIGN CONSIDERATIONS – KEY FACTORS



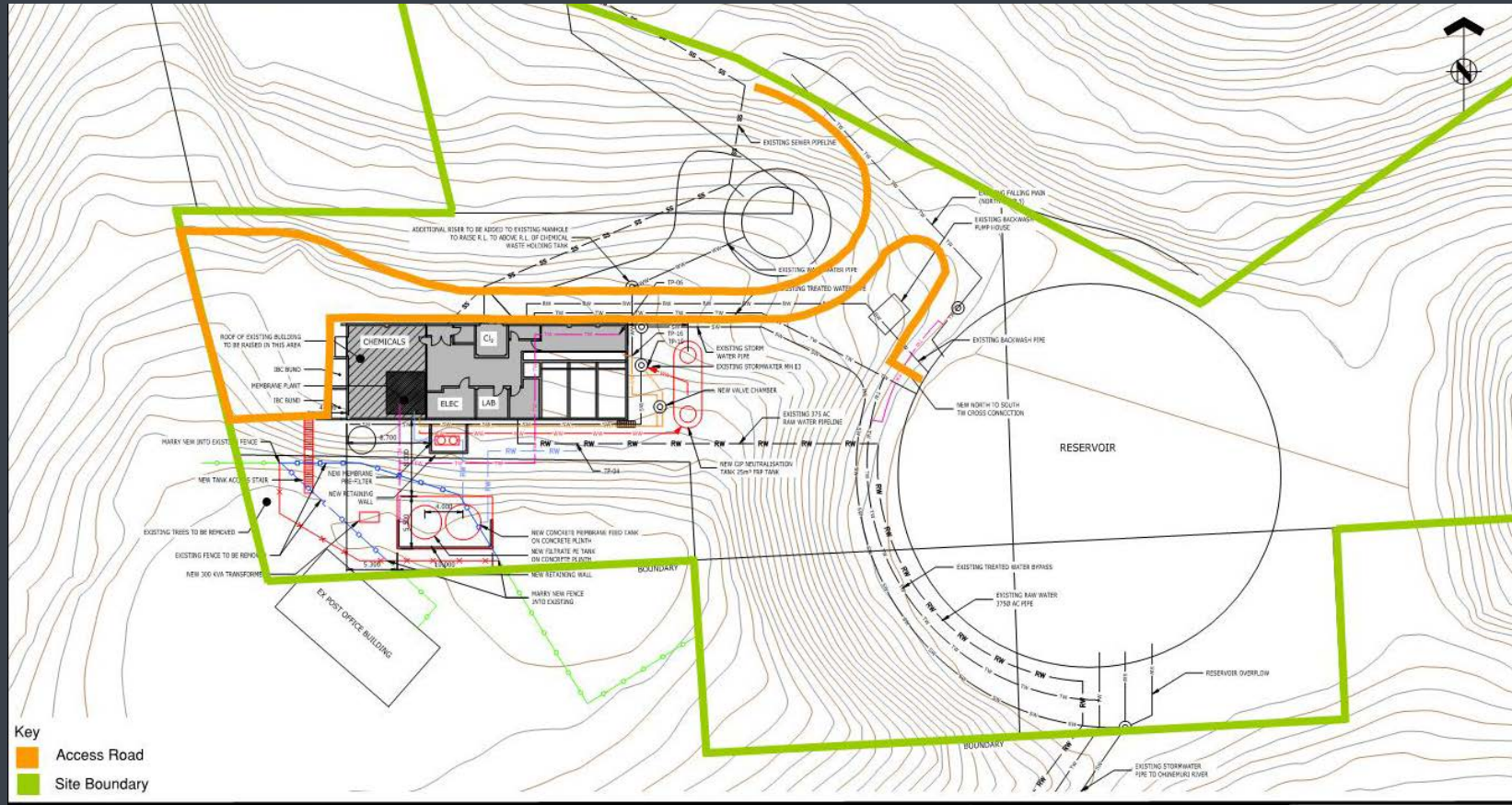


## Raw Water Quality After Heavy Rainfall

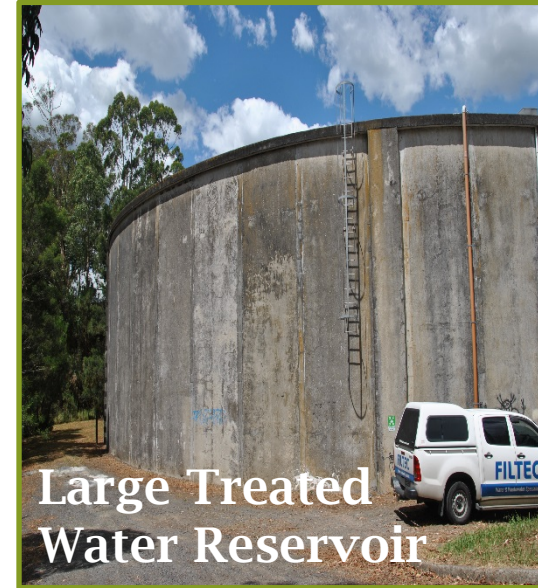


# DESIGN CONSIDERATIONS

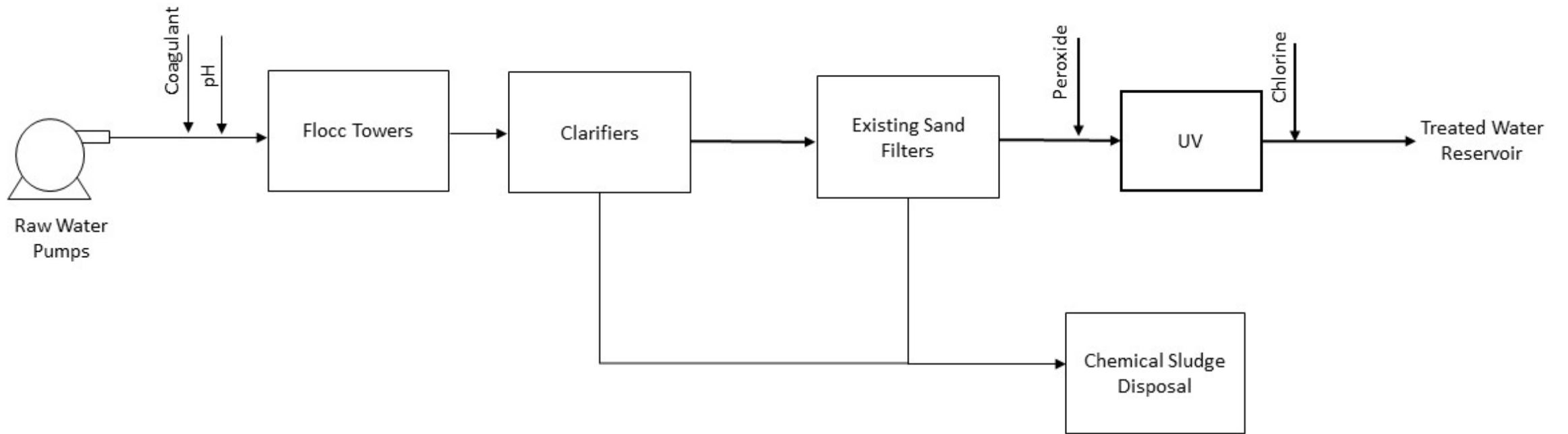
## Site Space and Access



# DESIGN CONSIDERATIONS

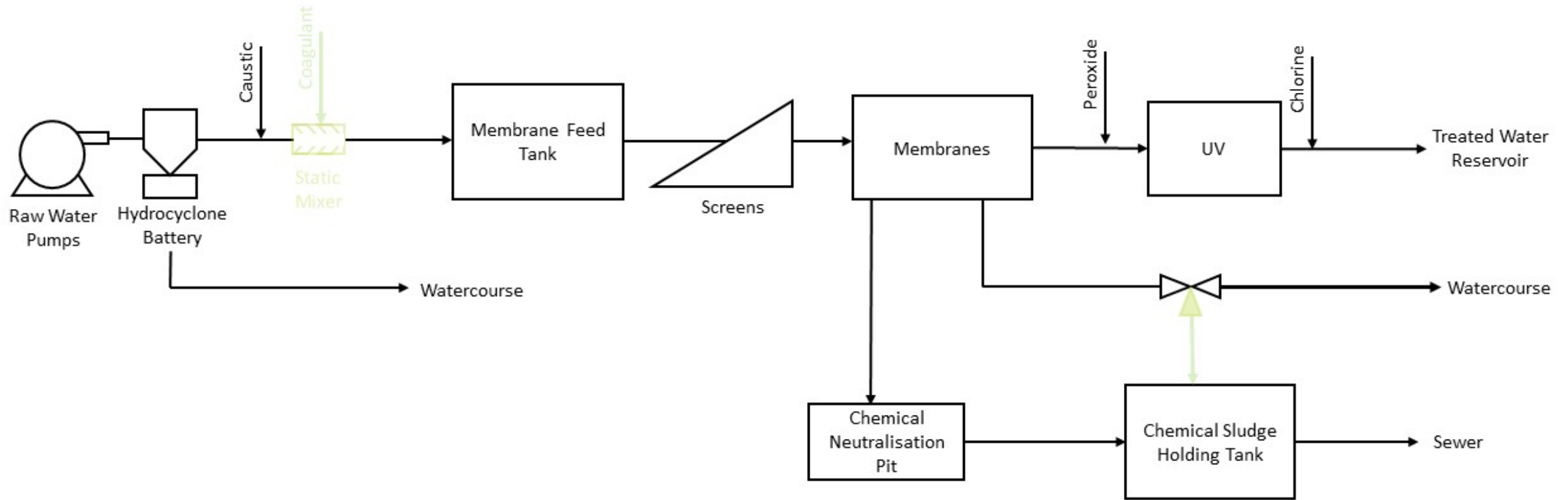


# DESIGN BASED ON EXISTING SYSTEM

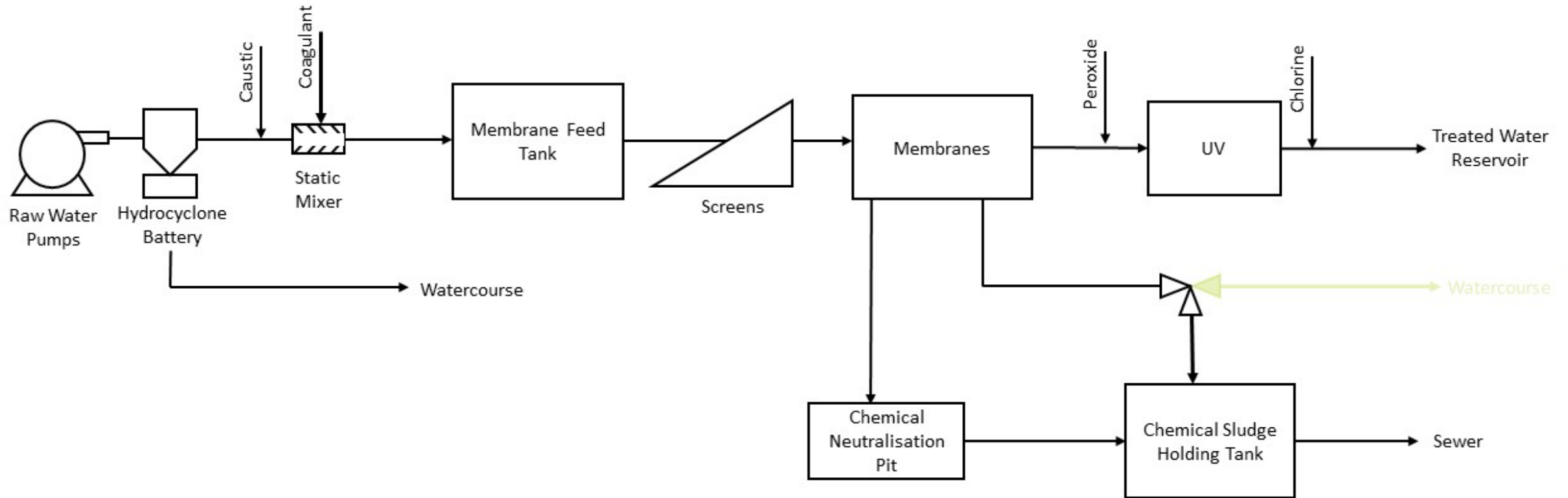




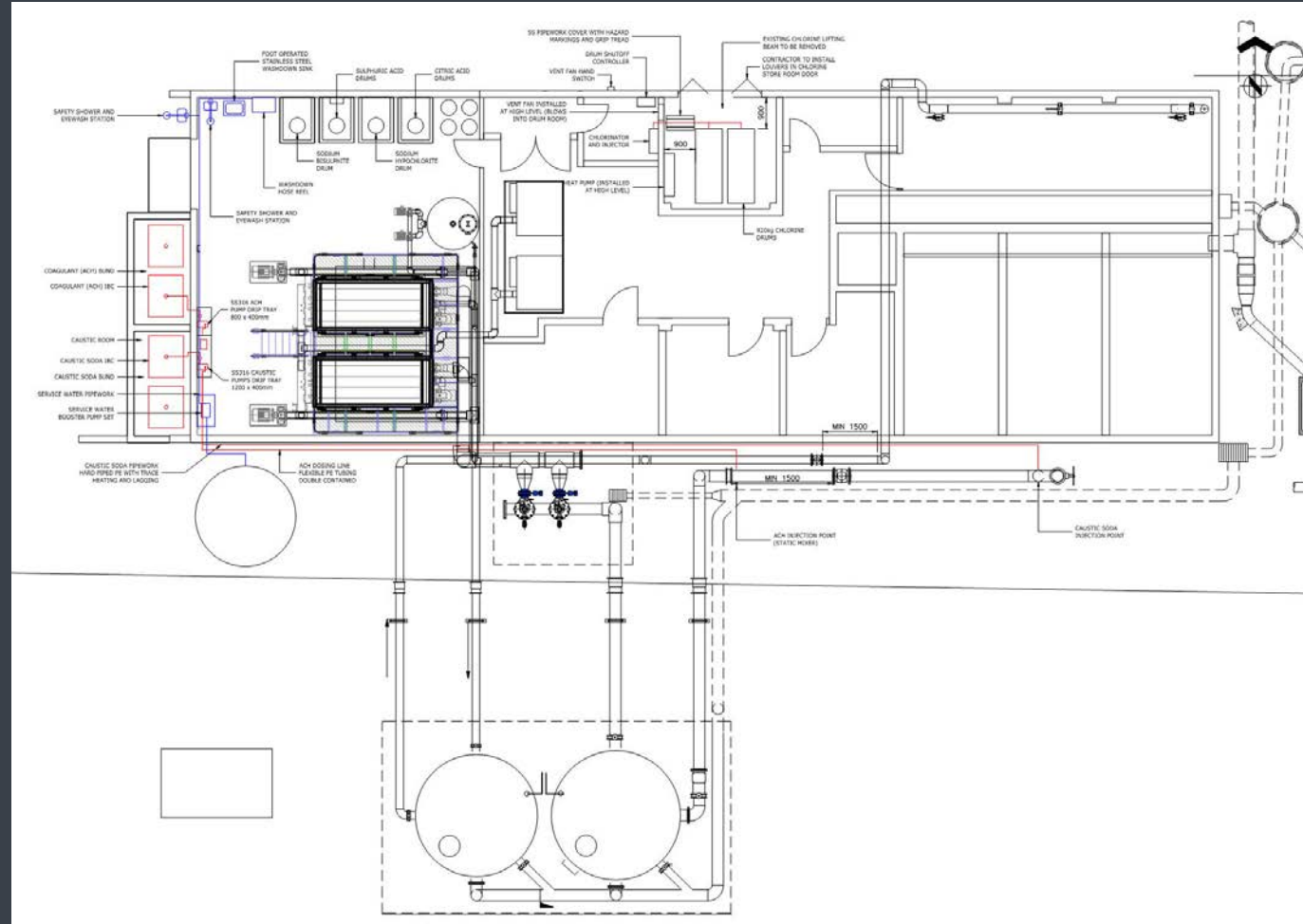
# FINAL PROCESS SOLUTION – 97% OF OPERATION



# FINAL PROCESS SOLUTION – 3% OF OPERATION

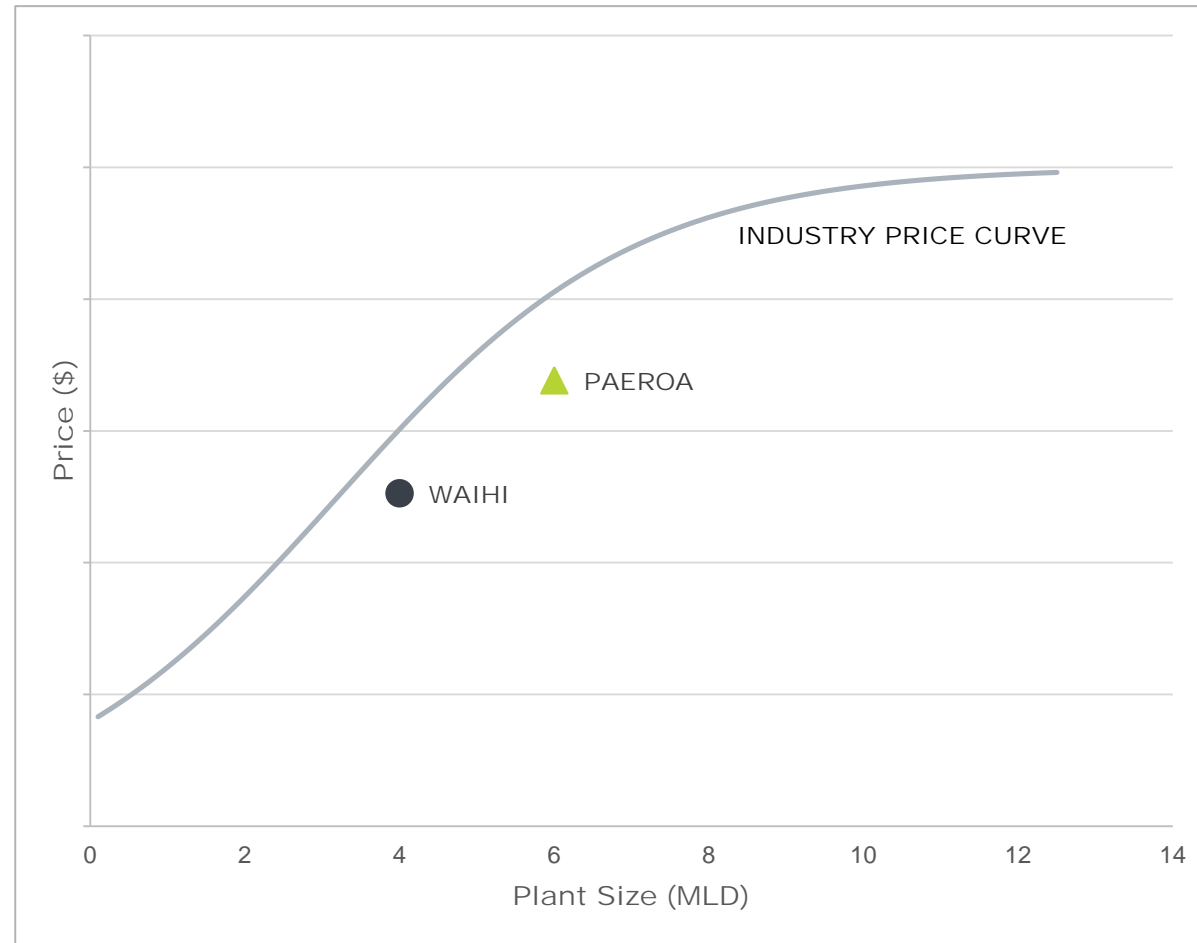


# FINAL PROCESS SOLUTION





## Commonality of Membrane Supply



# PROJECT OUTCOMES



HC 