AFFCO Rangiuru

- Plant located 6km east of Te Puke on the banks of the Kaituna River
- Processes up to 90,000 beef, 230,000 calves and >1 million lambs per year
- Employs up to 600 people at peak, 90% of this labour is sourced locally largest employers in the area
- Operating since 1965 – spent $11.7M on upgrades in last 10 years

Resource consent applications

- Discharge of treated wastewater to Kaituna River and land via seepage
- Discharge of treated amenities wastewater to land
- Discharge to stormwater, defrost and cooling water to Kaituna River

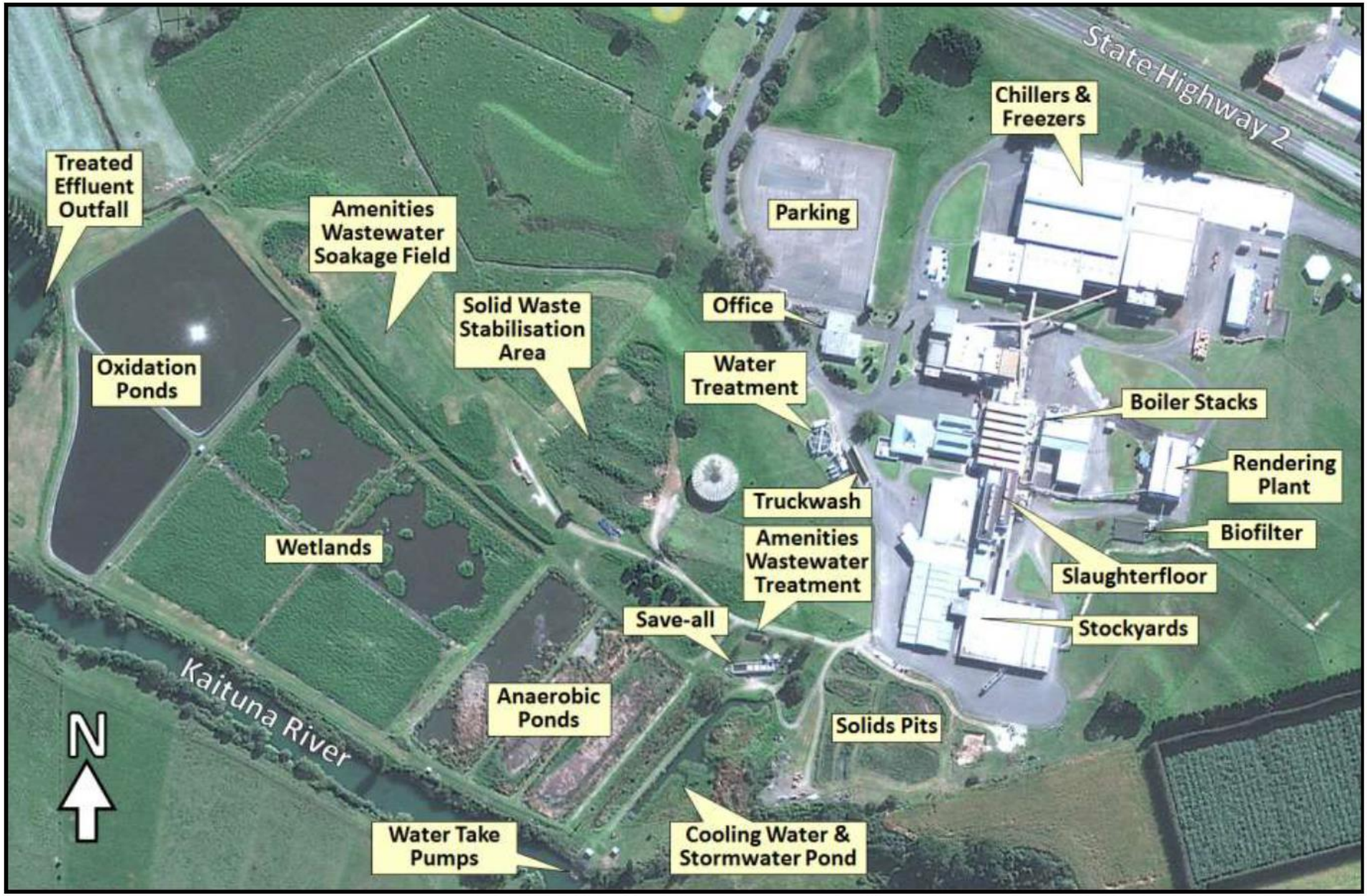
Treated wastewater discharge – treatment process

- Wastewater treatment includes screening, oxidation ponds, aeration ponds and wetlands, and includes 40+ days retention before discharge
- AFFCO currently has consent limits on discharge and monitors the following:

Type	Parameter	Results
Treated Effluent at discharge	Biochemical oxygen demand, Total suspended solids, Total nitrogen, Total oxidised nitrogen, Total ammoniacal-nitrogen, Dissolved reactive phosphorus, Total phosphorus, *Escherichia coli*, Enterococci, Discharge volume	Overall, general compliance with limits for all parameters
Downstream River monitoring	*Escherichia coli*	

- River monitoring indicates slight increase in TN & TP downstream of the discharge but no effects (periphyton, etc) identified
- Further survey work in the Kaituna River requested by BoPRC indicates:

Type	Results
Pathogen levels in the discharge	Treatment process significantly reduces pathogen loads to a point where risk to human health is highly unlikely
Zone of mixing within the Kaituna River	Between 100 & 300m of the discharge
Ecological health – macroinvertebrate survey	No significant difference between upstream and downstream of the discharge
Fish survey of Kaituna River and tributaries	A range of common fish species present across all sites surveyed


State Highway 2
Chillers & Freezers
Treated Effluent Outfall
Amenities Wastewater Soakage Field
Parking
Solid Waste Stabilisation Area
Office
Oxidation Ponds
Water Treatment
Boiler Stacks
Rendering Plant
Truckwash
Wetlands
Amenities Wastewater Treatment
Biofilter
Slaughterfloor
Save-all
Stockyards
Kaituna River
Anaerobic Ponds
Solids Pits
N
Water Take Pumps
Cooling Water & Stormwater Pond