Background

❖ Mount Barker District Council (MBDC) has a rapidly increasing population and up to 57,000 people by 2037
❖ MBDC is the second largest wastewater operator in SA
❖ Trade waste inflow volume into the wastewater treatment plant (WWTP) has substantially increased and is currently estimated to be 10-15% of the total wastewater inflow
❖ This has adversely affected the efficiency of the wastewater treatment plant, increasing the operational costs
❖ As a result MBDC reviewed the Trade Waste Policy and created a new Trade Waste Management Plan to address current trade waste related issues and safeguard the operation of the WWTP
❖ This presentation is about the trade waste experience relating to implementation of the new Policy and Management plan

Existing Issues – Food Premises

❖ No grease arrestor (GA)/pre-treatment device (trade waste discharged into septic tanks) (~10%)

❖ Septic tank (ST) poorly serviced

❖ Pre-treatment device not serviced as required

    ✓ Not pumped out regularly

    ✓ Damaged/poorly maintained

    ✓ Undersized

Effects: Backflow/drainage issues, blocked pipes, air pollution & food safety issues

No GA, ST blocked by grease   **GA blocked by grease**   **Damaged and undersized**

Existing Issues – Car wash / Car Repairs

❖ Car washes: Some do not have oil water separator (25%),
                 Poor servicing of the separators and sand filters

Effects: High BOD/COD and TDS

❖ Auto workshops: Disposal of spilled oil down the drain

Effects: High concentration of oil in septic tanks

Poorly maintained oil water separator   **Septic tank full of oil**

Existing Issues – Large Scale Businesses

❖ Large-Scale Businesses:
- ✓ Food and vegetable processors, brewery, skin products, body cream, fragrant oil etc.

❖ Undersized pre-treatment device (e.g. grease arrestors)

❖ Poorly serviced/maintained pre-treatment device

❖ Effects: High BOD, COD, TDS above LAC
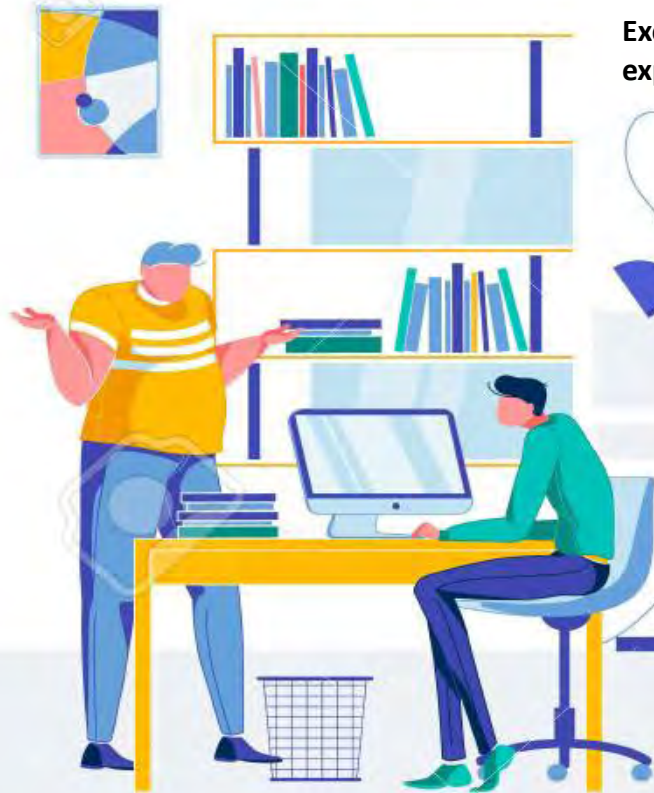
Impact on Reticulation Network & WWTP

❖ Council's sewer network:
   ❖ Corrosion of pipes and equipment
   ❖ Grease and fats can cause blockages which restrict flow
   ❖ Odours
   ❖ Overflows

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Impact on the biological process

Trade Waste Policy and Management Plan

Scheduled maintenance/timely service/pump out of pre-treatment devices

Improved compliance to Local Acceptance Criteria

Excellent communication of expectations & responsibilities

Permits issued and good record keeping

Notices, warnings & enforcements

Scheduled inspections

What We Have Done

❖ Updated the Council's Trade Waste Policy and introduced a new Management Plan

❖ Introduction of new fee structure

❖ Communication with trade waste generators

❖ Updated/created a new register in MBDC's records management system

❖ Updated/created new documentation for trade waste customers (application forms etc.)

❖ Ongoing process to use the WasteID platform for trade waste monitoring

❖ Provision of education on the new policy and management plan to trade waste generators

❖ Inspections of businesses for compliance purposes

❖ Ongoing transfer of business to the new platform

WasteID

What is **WasteID**?

WasteID is the application used by water utilities, local authorities, and liquid waste transporters to simplify trade waste management and service checks. e.g. the servicing of grease traps and other pre-treatment devices

How will this help our compliance management?

WasteID is a real time monitoring system that allows real time capture of service information and history. It provides service reminders if businesses miss their scheduled servicing and tracks communication if enforcement is required. The result is high compliance rates with scheduled servicing

Lessons Learned

- Never think you are too small to have trade waste issues

- Never assume that businesses will do the right thing if you are not carrying out inspections

- Good communication improves compliance

- Cheaper to ensure compliance than to treat non-compliant waste discharges

- Educate & train your trade waste team

Questions?