

MIEX DOC



*A revolutionary ion
exchange resin for the
removal of dissolved
organic carbon from
drinking water*



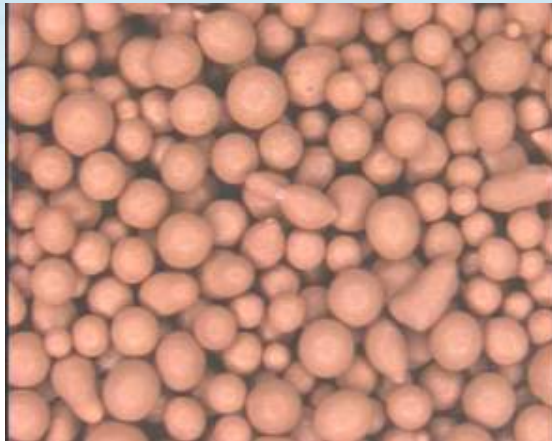
A Brief Overview of Orica's MIEX® Technology

- What is MIEX.DOC® resin
- How does the MIEX® technology work
- What is the market opportunity
- What have we achieved thus far



What is MIEX.DOC[®] Resin ?

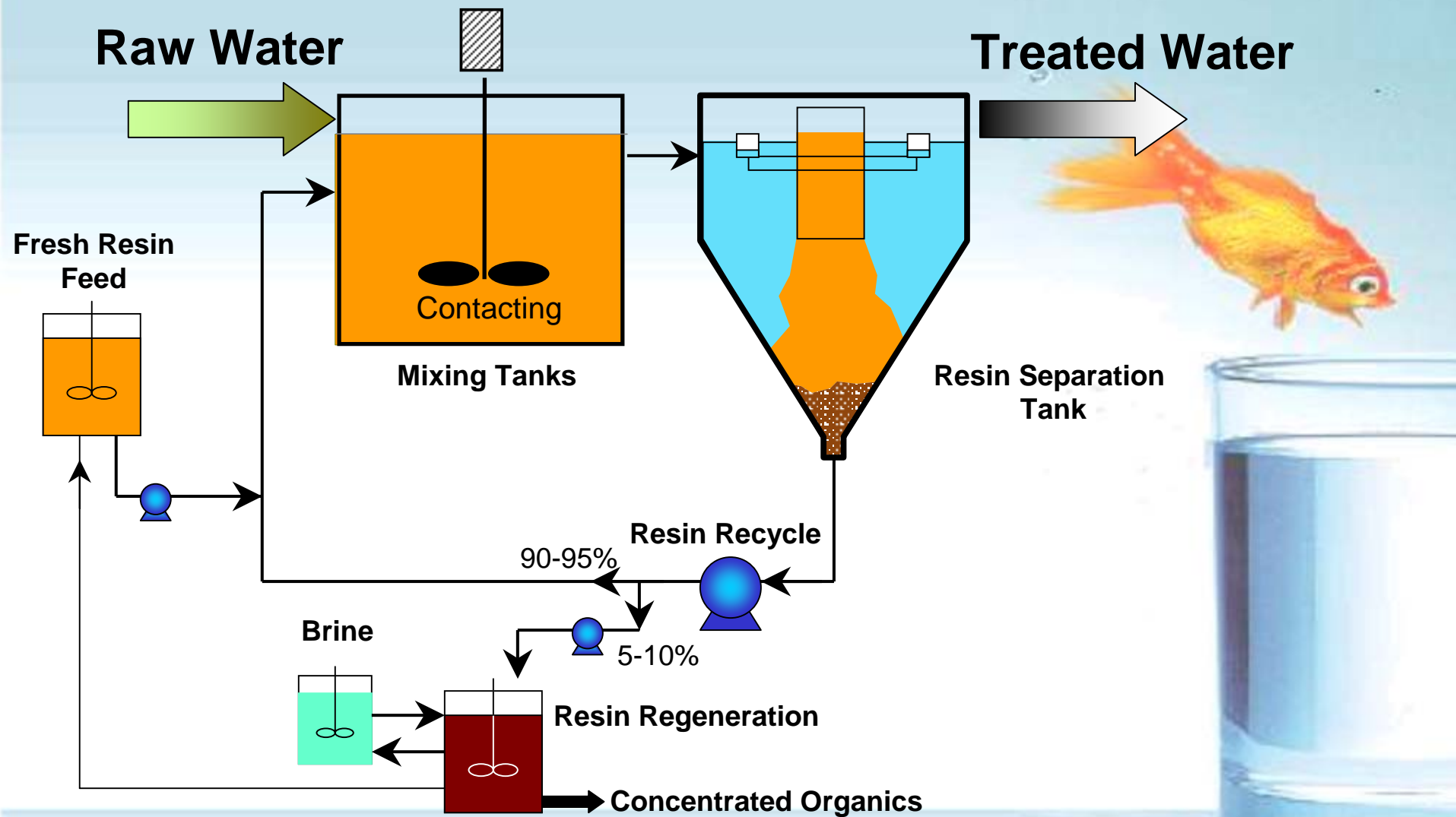
- ↖ **Very small 200 micron, magnetic, anionic, resin**



- ↖ **Removes negatively charged particles: dissolved organics, sulphides, bromides, arsenic, etc.**
- ↖ **Next generation of advanced drinking water treatment**



Process Description



Village of Palm Springs



**MIEX[®]
Treated Water,
Color of 0-3 pt-Co**



**Raw Water, Color
of 26-30 pt-Co**



Used Regenerant

Tightening regulations for Disinfection Byproducts in drinking water

↓ Disinfection Byproducts (DBP)

↓ DBPs now recognised as potential human health risk

↓ US EPA driving rapid tightening of water treatment standards



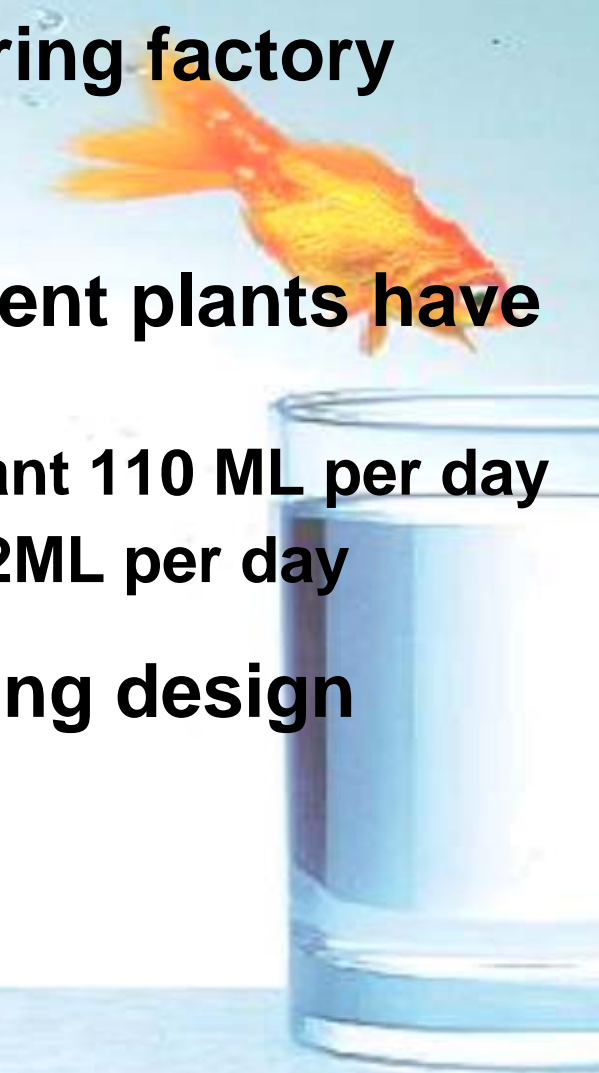
The Market Opportunity for MIEX® technology

- ↓ **MIEX® technology removes a significant portion of organics in raw water**
- ↓ **MIEX® is not the only technology**
- ↓ **MIEX® is well positioned to capture USA DBP opportunity**
- ↓ **MIEX® is also effective at removing other impurities**
- ↓ **Orica will manufacturer and sell MIEX® resin**



MIEX® Technology has been fully proved on a commercial scale in Australia

- ↖ **Orica's MIEX® resin manufacturing factory operating since August 2000**
- ↖ **MIEX® technology water treatment plants have been operating since 2001**
 - **Water Corporation's Wanneroo plant 110 ML per day**
 - **SA Water's Mount Pleasant plant 2ML per day**
- ↖ **Water treatment plants exceeding design expectations**



Wanneroo GWTP, (near Perth), WA

Regen Vessels

Contactors

Resin
Separators



Resin Unloading
Bay



MIEX® Development in the USA

- ↓ **Four MIEX® technology water treatment plants committed in the USA - not yet built**
 - Franklin, Alabama
 - Franklin, Tennessee
 - Palm Springs, Florida (2 plants)
- ↓ **First US MIEX® plants operating in 2004**
- ↓ **A number of USA utilities have visited the MIEX® technology water treatment plants in Australia**



MIEX® Summary

- MIEX.DOC® presents a significant growth opportunity for Orica
- Orica will manufacture and sell MIEX® resin
- Technology proven in Australia
- Gaining traction in the USA
- Potential for MIEX® in other applications is emerging

