



EFFECTS OF CLIMATE CHANGE ON REMEDIATION

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Effect of Climate change on Remediation

- **Site operating for over 20 years**
- **Site located in a residential, commercial and industrial mixed area**
- **Groundwater monitoring conducted for over 10 years**
- **Site declared through Part 8 process as contaminated**
- **Site has boundary wells all below detectable levels of COC**
 - Shallow MW ranging between 1.5 and 6m deep
 - Deed MW ranging from 10m and 12 m
 - Site regarded as low risk
- **Only few MW had FPP and some dissolved phase**
- **All the boundary wells did not show any contamination**
- **Private borehole constructed 2002**
- **Borehole owner advised business that borehole is sealed**
 - PB was not in use when identified
 - Advised not to use by an independent person due to location which might affect quality
- **PB was part of business monitoring plan**
- **No contamination had been detected previously**
- **2024 Borehole found to be contaminated with traces of COC**

Effect of Climate change on Remediation

Influence the behaviour of receptors:

Climate change affected water availability, water shortages experienced in the area

Municipality water price increased

User wanted to use groundwater

Contamination Risk

Internal contaminated risk classification related to the contamination increased

- Site risk ranking moved from C – A

Contamination impact moved from groundwater to receptor

Increases the cost contamination management

Effect of Climate change on Remediation

Choice of Technology

- Need for PB treatment system
- Restriction from using chemical treatments
- Remediation cost escalated



Thank you

