

Onshore and Offshore Decommissioning Capability Statement



SUSTAINABLE FUTURES



Why MCC and Atteris?

A partnership between Atteris and MCC means your decommissioning needs are met. MCC are a team of highly qualified and practiced environmental (coastal, marine and onshore) and sustainability specialists. Atteris is a reputable and reliable subsea and pipeline engineering services provider. Together MCC and Atteris are your one-stop shop for all matters around decommissioning and environmental fates. We have developed excellent relationships and understanding of regulators and maintain current knowledge, best practice in emerging areas to help guide you through the decommissioning approvals process and ensure best environmental outcomes. An MCC & Atteris partnership will ensure that your materials degradation assessment, and your environmental impact and fate assessment are integrally connected which ultimately leads to better integration with the comparative environmental impacts assessment



Decommissioning

As the onshore and offshore oil and gas industry continues to mature and transition, MCC and Atteris have been and continue to be at the forefront of the decommissioning process. Collaborations with Atteris engineers will determine realistic degradation timeframes and material inventory. This combined with MCC's expertise in water and sediment quality impacts has led to the development of a degradation fate and impacts assessment methodology to characterise the potential impacts of plastics and associated chemicals that should be considered during planning for the abandonment in situ of equipment.

MCC continues to lead the development of decommissioning environment plans for a number of large offshore decommissioning projects.

- MCC has expertise across several monitoring disciplines including water quality, benthic habitats, and fauna surveys (marine and onshore)
- Demonstrated experience in natural resource management
- Demonstrated knowledge of decommissioning activities and processes
- Specialist knowledge in Environmental Impact Assessment (EIA) and Environmental Management

"We provide strategic advice and technical expertise to all decommissioning planning and implementation activities. We offer an innovative approach that adds value to all stages through the life cycle from the early/seed stage, engineering, operations, and final decommissioning stage. This holistic approach gives the operator more control, greater certainty and significantly reduces life cycle costs."





Focus Areas

- Strategic advice, regulator knowledge
- Degradation and environmental impact and fate studies
- Environment Plans and other associated decommissioning permissioning documents
- Mercury and decontamination studies, experience with NORMS and radioactive materials, flushing method and procedures
- Materials and chemical constituent inventories, infrastructure degradation assessments
- Australian and international offshore decommissioning experience including leading the studies and approvals for the decommissioning process for a number of significant projects such as Santos' Bayu Undan and Mutineer Exeter Fletcher Finucane (MEFF) assets

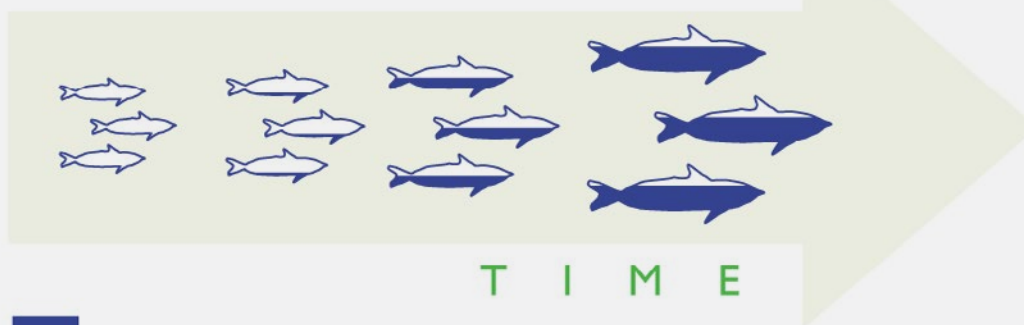


Relevant considerations for in-situ planning

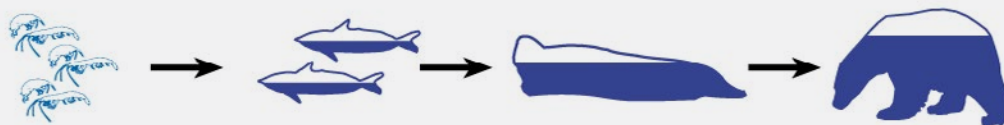
- Potential release of contaminants of concern (chemicals and particulates)
- Potential impact pathways and receptors, including identification of key target species and socio-economic impacts.
- Consideration of direct impact, bio-accumulation and bio-magnification impacts when assessing the risk to the marine environment for in-situ decommissioning scenarios.
- Consideration to components within the infrastructure including:
 - Micro and macro plastics
 - NORMS
 - Mercury
 - Metals
 - Persistent synthetic organic pollutants



Bioaccumulation



Contaminant levels



Contaminant levels

Biomagnification

Other relevant services include:

- ENVID facilitation
- Input to comparative assessments for EP
- Decommissioning EP support
- Stakeholder engagement and consultation
- Regulator lens reviews and liaison





Our recent projects

Key projects of relevance	Summary of scope	Date
Santos Harriet Joint Venture Decommissioning Approvals	MCC have assisted and authored a suite of permissioning documents, including Decommissioning and Rehabilitation plans and Environment Plans to meet Ministerial Statement Conditions. MCC also completed the environmental fate and impact assessment as part of a broader degradation study, to inform client decision making regarding seabed equipment being considered for in-situ abandonment.	2022/ ongoing
Santos Bayu-Undan Decommissioning Approvals	MCC completed the environmental fate and impact assessment as part of a broader degradation study, to inform client decision making regarding seabed equipment being considered for abandonment in situ. MCC are currently leading the development of a suite of approvals required by the Timor Leste Regulator, to allow Santos to complete decommissioning activities associated with Floating Storage and Offtake facility (FSO).	2021/ ongoing
Santos MEFF Decommissioning Approvals	MCC have led and authored a suite of EPs, including floating asset removal, seabed asset removal and plug and abandonment activities. MCC also completed the environmental fate and impact assessment as part of a broader degradation study, to inform client decision making regarding seabed equipment being considered for abandonment in situ.	2021/22
Chevron Thevenard Island Decommissioning	MCC completed and assessment of the degradation process, environmental impacts and fate associated with plastics and degradation products to inform client decision making associated with 20 subsea pipelines associated with the Chevron Thevenard Island Retirement Project.	2021/22
ENI Wollybutt Decommissioning	MCC completed an assessment of the degradation process, environmental impacts and fate associated with plastics and degradation products for subsea pipelines, umbilicals, wellhead, mooring systems, concrete mattresses and grout bags to inform client decision making associated with the ENI Wollybutt Decommissioning Project.	2021

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