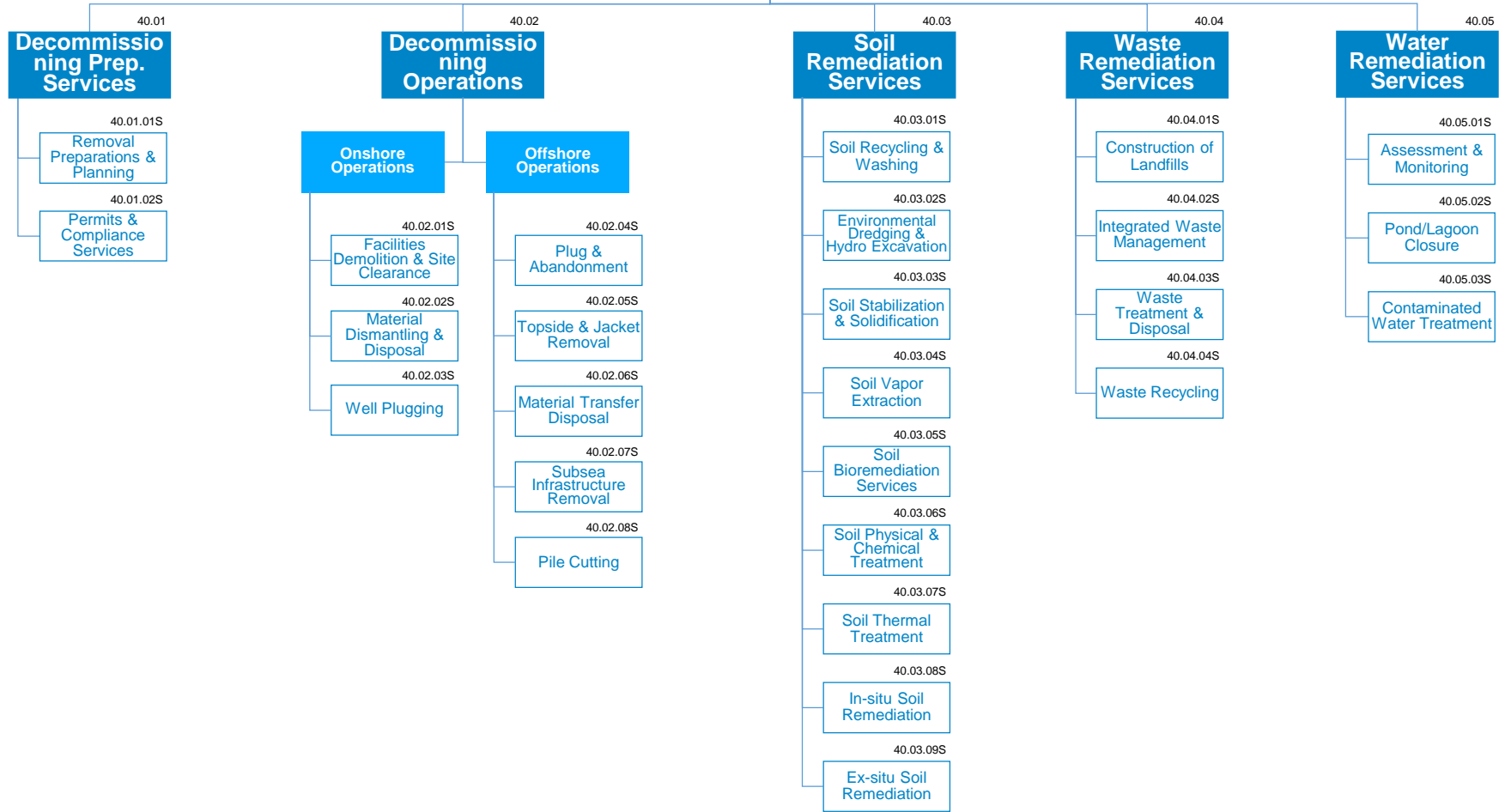


40 **Decommissioning & Environmental Remediation**



# Decommissioning & Environmental Remediation

The Decommissioning and Environmental Remediation Group deals with the termination services at the end of the service of an onshore or offshore plants and facilities and with the environmental remediation services and sustainable treatment of contaminated soil, waste and water.

## MAIN RATIONALES BEHIND THE STANDARD CATEGORIZATION

### Decommissioning Engineering Services

- The Decommissioning Engineering Services includes the specific activities related to the Pre-Decommissioning phase.
- “40.01.01S Removal Preparation & Planning” includes the studies in the early phase prior to the start of removal activities. It also includes studies related to planning, cost estimation and control, and scheduling related to the decommissioning service.
- “40.01.02S Permits & Clearance Service” refers to process of issuing the permits and clearances required before the start of the operations.

### Decommissioning Operations

- The Decommissioning Operations family covers operative services for both onshore and Offshore decommissioning activities.
- “40.02.02S Onshore Material Dismantling & Disposal” refers to the removal activities of onshore facilities components and structures
- “40.02.06S Offshore Material Transfer & Disposal” refers to the transfer of the offshore components and structure to shore and the disposal of the items
- “40.02.07S Subsea Infrastructure Removal” includes the removal of all components and structures below sea level including the removal or burial of pipelines and cables.
- The category for Subsea clearance and Seabed Cleaning activities can be found in Group 23 under “23.02.07S Seabed Clean-Up Activities”

### Soil Environmental Remediation Services

- The Soil Environmental Remediation services refers to different techniques used to decontaminate soil.
- The “40.03.01S Soil Recycling & Washing” category refers to the decontamination of non-hazardous pollutants through recycling or the separation of contaminants through Soil Washing.
- “40.03.02S Soil Environmental Dredging & Hydro Excavation” refers strictly to the environmental practices used in dredging and excavation. For seabed dredging and excavation works “23.02.01S Dredging and Excavation Works” can be selected.
- “40.03.03S Soil Solidification & Stabilization” is a technique used to seal contaminants in the soil, most commonly using cement.
- “40.03.04S Soil Vapor Extraction” is another treatment technique for volatile contaminants that collects contaminants from the extracted gases from the soil
- Equipment and packages used for soil remediation can be found in “03.04.09G Packages for Soil Remediation by means of Thermal Processes” & “03.04.10G Packages for Soil Remediation by means of Chemical and Physical Processes”
- Environmental Engineering Studies and Planning can be found in Group 30 under “30.06 Environmental Engineering”
- Environmental Testing and analysis services can be found in Group 36 under “36.04 Environmental Testing and Analysis”
- Offshore Environmental Equipment and services can be found in “23.05 Offshore Environmental Equipment” & “23.06 Offshore Environmental Services”

### Waste Environmental Services

- “40.04.01S Construction of Landfills” also includes services related to Landfill leachate treatment.
- “40.04.02S Integrated Waste Management” refers to full combined service of collecting, transferring, treatment and recycling of waste.
- “31.02.06S EPC of Waste-to-Energy (WTE) power plants” refers to incineration of waste to energy. Waste incinerators can be found in “02.05 Incinerators”
- Conventional waste collection services can be found in “44.04.05S Waste Collection” and “44.04.06S Hazardous Waste Collection”

### Water Environmental Services

- Water treatment equipment and packages can be found in Group 03 Packages
- 40.05.01S Ground Water Assessment & Monitoring refers to ground water monitoring and control services. Other related testing and study services can be found under “30.06.07S Water Systems Studies and Design” and “36.04.04S Water Testing and Environmental Analysis”