



COMMON ENVIRONMENTAL ASPECTS OF PETROLEUM OPERATIONS WITH THE POTENTIAL FOR ENVIRONMENTAL IMPACT

PETROLEUM ACTIVITY	ENVIRONMENTAL ASPECTS
Seismic exploration	<ul style="list-style-type: none"> • Transport of equipment • Fuel and HAZCHEM handling • Clearing of vegetation and construction of access roads • Disease/weed management • Timing of activities (in areas of temporal significance) • Acoustic disturbance • Rehabilitation
Exploration or production drilling	<ul style="list-style-type: none"> • Transport of equipment • Fuel and HAZCHEM handling • Clearing of vegetation and construction of access roads/drill sites • Disease/weed management • Management of drilling fluids and cuttings • Timing of activities (in areas of temporal significance) • Rehabilitation
Construction of a facility	<ul style="list-style-type: none"> • Transport of equipment • Fuel and HAZCHEM handling • Clearing of vegetation • Disease/weed management • Construction of access roads, accommodation facilities and general site works • Timing of activities (in areas of temporal significance) • Rehabilitation
Construction of pipelines	<ul style="list-style-type: none"> • Transport of equipment • Fuel and HAZCHEM handling • Clearing of vegetation • Disease/weed management • Trenching • Management of hydrostatic test fluids • Timing of activities (in areas of temporal significance) • Rehabilitation
Operation of a facility	<ul style="list-style-type: none"> • Discharge of produced formation water • Gaseous emissions • Flaring • Support vessels and transport • Fuel and HAZCHEM handling and management • Quarantine and hygiene • Discharge of liquid and solid wastes • Emissions of noise and light pollution • Workover drilling and production drilling • Transfer of petroleum product to transport tankers
Decommissioning	<ul style="list-style-type: none"> • Removal of seabed infrastructure/rehabilitation • Transport of equipment • Fuel and HAZCHEM handling • Timing of activities (in areas of temporal significance) • Treatment of residual drilling cuttings piles

The above table is not exhaustive and proposals located in environmentally sensitive areas would have additional issues that would require detailed descriptions of the aspects, potential effects and proposed management procedures.

Areas considered to be sensitive environments are:

- Conservation reserves (e.g. marine parks, sanctuary zones)
- Areas of protected or rare and endangered flora and fauna
- Areas of significant habitat (e.g. corals, seagrasses, macroalgae, wetlands or mangroves)
- Areas of temporal significance (e.g. breeding or spawning grounds, resting and aggregation areas).