

Aspect	Impact	Control
Operation of vehicles	Air pollution	Choice of low emission fuels Maintenance of vehicles including regular tuning
	Use of non-renewable energy	Maintenance of vehicles including regular tuning, Logbook of vehicle mileage and fuel purchases
Operation of office	Generation of waste	Improve recycling Examine methods to minimise waste generation
	Use of energy	Switch of lights when not in use, use sticky labels on switches Convert to energy efficient bulbs and forms of heating
Storage of diesel	Fire risk	Follow best practice for diesel storage
	Spillage risk	Follow best practice for diesel storage Locate diesel tank on a bund capable of carrying 110% of volume Locate tank in a safe and suitable position
Maintenance of water supplies and sewage tanks	Potential health risk to staff	Use best practice guidelines to minimise risk to staff
	Flooding causing damage to property, environment	Identify prior to project commencing potential risks associated, consider the possibility of adverse weather and design project accordingly
	Cultural and spiritual values associated with water	Consult with relevant local or regional council Determine who the relevant local iwi is and consult with them

Landscaping effects	Visual impact	Consult with relevant local or regional council Discuss with customer to determine how they would like the impact to be addressed
	Soil structure changes	Minimise use of heavy vehicles on site
	Soil compaction	Minimise use of heavy vehicles on site
	Erosion	Minimise use of heavy vehicles on site Replant vegetation as soon as practical Plant grass and other similar plants to hold the soil
	Loss of vegetation	Replant on a ratio of one plant per one removed
	Salination	Monitor irrigation to ensure runoff is minimised- use timers
	Water quality impacts	Prune in a manner that minimises the amount of debris entering the waterway
	Damage to waterways-caused by logs falling in or being dragged through waterways	Logs and other materials should not be dragged through waterways
Site Preparation	Erosion- caused by disturbance to topsoil and removal of vegetation	Minimise use of heavy vehicles on site Replant vegetation as soon as practical Plant grass and other similar plants to hold the soil

Road maintenance	Dust	All exposed and unsealed/ ungrassed surfaces and stockpiles of dust generating materials kept moist Truck loads shall be covered
	Noise	Restrict hours if necessary- to daylight hours or hours with the least disturbance Noise buffers can be created Alternative road surfaces considered for big projects Vegetation may be used but isn't as effective as is usually considered
Sealing and repairs of roads	Dust	All exposed and unsealed/ ungrassed surfaces and stockpiles of dust generating materials kept moist Truck loads shall be covered
	Noise	Restrict hours if necessary- to daylight hours or hours with the least disturbance Noise buffers can be created Alternative road surfaces considered for big projects Vegetation may be used but isn't as effective as is usually considered
	Erosion	Minimise use of heavy vehicles on site Replant vegetation as soon as practical Plant grass and other similar plants to hold the soil Use of terraced slopes, retaining structures Drainage improvements may need to be considered such as drains

	Effects on vegetation	<p>Spoil material should be removed as it can damage vegetation</p> <p>Removal of plants and replanting when construction is completed</p> <p>Or planting of suitable plants to improve environment</p> <p>Wind damage can be minimised by the use of artificial windbreaks</p>
Culvert/ Bridge Construction	Noise	<p>Restrict hours if necessary- to daylight hours or hours with the least disturbance</p> <p>Noise buffers can be created</p> <p>Alternative road surfaces considered for big projects</p> <p>Vegetation may be used but isn't as effective as is usually considered</p>
	Dust	<p>All exposed and unsealed/ ungrassed surfaces and stockpiles of dust generating materials kept moist</p> <p>Truck loads shall be covered</p>
	Effect on native fauna	<p>No activity should block the migratory route of indigenous fish, culverts should allow for fish to move through them</p>
	Sedimentation runoff into waterways	<p>Select project design that minimises erosion.</p> <p>Consider maintenance requirements post-construction</p>

Storage of fuel or chemicals	Potential pollution to waterways	<p>Follow best practice for diesel storage</p> <p>Locate diesel tank on a bund capable of carrying 110% of volume</p> <p>Locate tank in a safe and suitable position</p>
	Potential pollution of soil	<p>Follow best practice for diesel storage</p> <p>Locate diesel tank on a bund capable of carrying 110% of volume</p> <p>Locate tank in a safe and suitable position</p>