

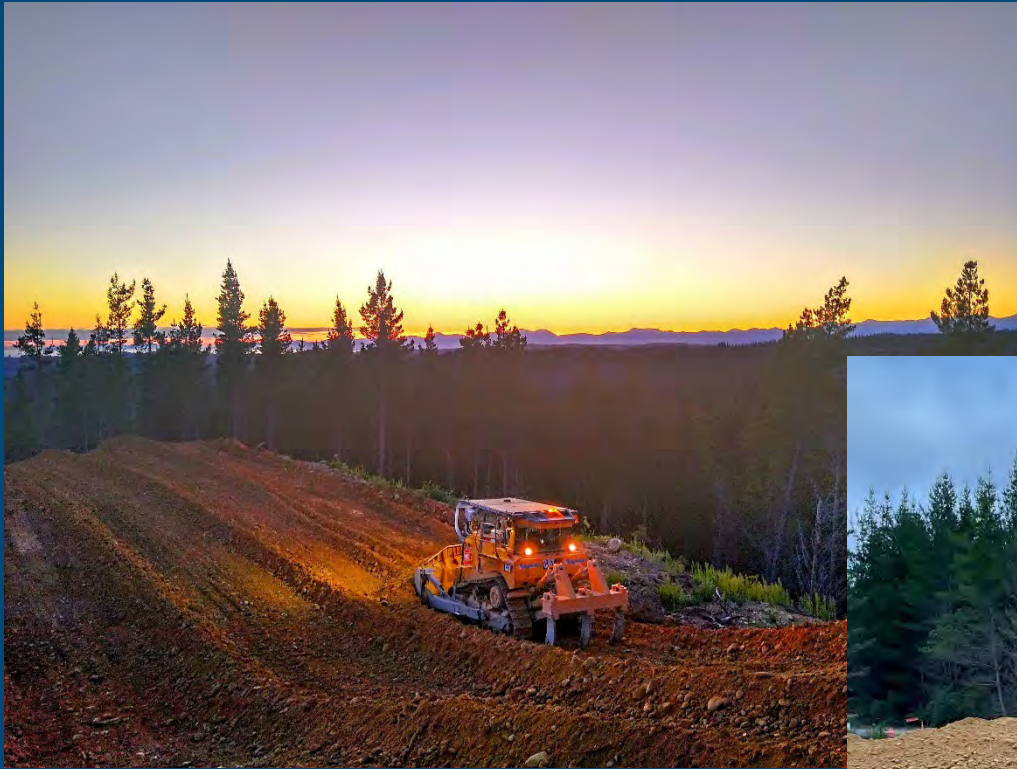
# Our Continuous Improvement Journey

Taylors Contracting Co was established by Bob & Marlene Taylor in 1971, and remains a family owned and operated business providing civil engineering services to a wide range of clients. The company has a history of over 50 years servicing the local Forestry Industry and we pride ourselves on returning to many forest locations for a second and third rotation.



## In A Typical Year we deliver

- 78,000 safe people hours completed by our skilled and competent team
- 1 million plus tonnes of engineering support services
- 50 kilometres of roading construction and upgrade
- 140 processing landings and pads upgraded or constructed
- 100 km of active log trucking roads maintained each month
- 3 bridge construction earthworks and rock protection engineering support
- 1000 watertable culverts installed
- 30 large diameter culverts installed
- 91,500 tonnes of processed gravel products utilised for forest infrastructure construction, upgrade and maintenance.



Skid and Road Construction





Skid benching and harvest tracking





Utilising in-forest gravel seams for roading products



## Box culvert installation and hard rock drilling







New End Haul Road Construction in Progress

# Sediment Sumps





Batter stabilised with polymer and grass seed with watertable feeding into sediment trap prior to discharge. Right: Sediment sump in road watertable prior to a creek, native trees, and swampy area.



Left: Sediment sump showing effective collection prior to being cleaned out. Right: Two bay sediment traps with rock divider to slow the water for further filtering & scour protection.





Two sediment sumps in line collecting run off from a skid prior to a road culvert and discharge. Note the top bay has caught the bulk of the material. Photo taken just prior to clean out.



Watertable sumps and silt fence.





Left: Solution to keep skid drainage open during operations.

Right: Watertable sump on steep grade road with pipes & flume for stable discharge into road culvert.



Pre sediment sump traps ahead of a watertable culvert





In forest rock source utilised for a road surface.



Left: Road culvert head sump. Right: Headwall rock salvaged and utilised on site to protect culvert outlet





Culvert head wall protection example.



Left: Box culvert / Drift deck out fall protection and fish passage. Right: Surface water runoff collection drain, berm, sediment sumps and silt fence.





Fill toe surface water cut off collection drain, berm, sediment sump and silt fence.

# Grassing, Hydro Seeding & Soil Stabiliser Polymers for sensitive sites





Hydro seed and polymer being applied a sensitive unstable area.



Hydro Seeding being applied on a fill batter. Mixture contains grass seed and fertiliser with no polymer.



Left: Dust suppressant being applied where residents are being impacted.





Successful grass strike on granite soils with no polymer.  
Grass seed and polymer trial on a Moutere gravel/clay site.



Cut and fill batter polymer and grass seed application adjacent SH 6  
Spooners.





## Forest Road Maintenance Services

# Hay Spread for a Quick Temporary Cover





On site fine slash and hay cover used to protect road fill, upstream from a wetland site.

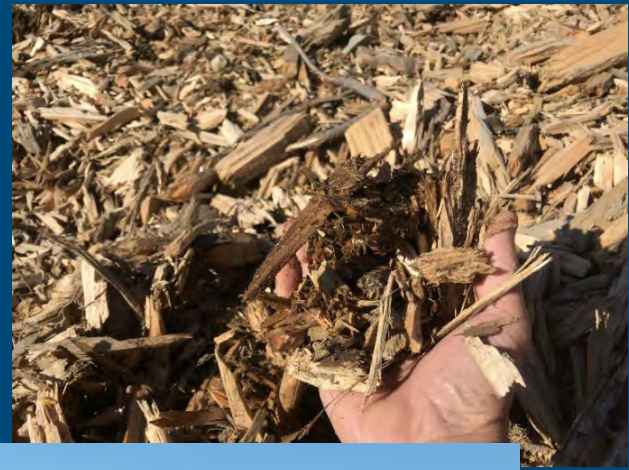


Haybales used as a temporary containment for watertable flushing while work is in progress.

Tractor Hay-blower in action covering a fill batter.



# Grinding Wood Waste/Slash for Stability and Mulching Use



Ground wood waste mulch used to cover slopes for soil stabilisation.





Left: Chipped slash waste trial . Material being spread along road edge fill slopes to disperse the bulk piles, spread nutrients back across the forest and to provide soil protection. Only a thin layer is applied, and trees are still planted through it. Right: Mulch applied to a fresh cut batter to protect the surface from rain drop penetration and scouring.



Bark soil mix recovered from a harvesting site and respread in a thin layer over a fill batter to protect against rain drop impact and erosion until grass can take hold.





Slash wood waste grinding.

Turning waste into mulch for surface protection and a potential source of biofuel.

# Slash Management & Post Harvest Clean Up





Left: Post-Harvest Slash management and Site Drainage. Right: Slash recovered, drainage in place and site secured for planting.



Post-Harvest Clean up Slash Rehab.





Surface water drainage and sediment sump on completed skid site prior to stable discharge.



Fine Slash  
Soil Cover  
Protection



Fine slash trial in a sediment trap to catch and hold sediment, reduce erosion to sides of trap and slow water flow. Right: Skidder track decommissioned with slash. Area still plantable.





Well positioned temporary cut off, good depth with the watertable led into the cut off to direct the water to flow in the correct direction.

**Good Practice, Methods &  
Techniques Continue to be  
Refined & Improved**





## Road Construction Examples

Left: Slash & debris placed as a filler at the toe of fill slope, disturbed soil trimmed, tidied, and bucket compacted to stabilise. Right: Disturbed soil trimmed, tidied, and bucket compacted to stabilise, some topsoil respread in preparation for grassing.



Water Table Scour Protection



Left: Rock check dams in steep road grade watertable to control scouring, slow runoff and contain sediment. Right: Culvert head protection and watertable rock check dam to slow water & contain sediment





Left: Pipe outlet protected with rotten rock sourced on site.



End Haul Operation in steep terrain





1200 mm dia temporary pipes in flowing stream to access a small pocket of trees.



Relocatable Box Culvert Placement.





## Ford Crossing Surface Protection



## Large Diameter Culvert Replacement





Relocatable Bridges for larger stream crossings





Karearea checking out one of our job sites

Photo credit: John Brunsten

