



## **AERIAL OPERATIONS**

### **GENERAL**

- ◆ If there is any doubt about an environmental issue always contact your **Timberlands Limited (TL) Manager** for instructions.
- ◆ All operations must comply with the **Work Prescription, Environmental Hazard ID Form** and any other relevant document or instruction from **TL**.
- ◆ All operations must comply with **Council standards and resource consent conditions**.
- ◆ **Draining** of sump oil and **dumping** of fuels, oils, chemical wash and containers is prohibited.
- ◆ No chemicals, fuels or oils should be stored or mixed where a spill could enter a **watertable, stream or riparian zone**.
- ◆ **Spill kits** appropriate to the nature and quantity of fuels, oils and chemicals must be on site.
- ◆ All **environmental incidents** are reported to **TL** as soon as they are discovered.
- ◆ Other environmental issues such as sightings of endangered species, environmental hazards, archaeological sites, etc are **reported to TL**.

**Upon completion of the operations the Operation Manager shall ensure that the following actions are completed:**

- ◆ All **chemical containers** and associated material is removed from the forest.
- ◆ Contractors and workers shall remove all machinery, vehicles, equipment, used parts, wire rope, grease and oil containers, empty planting boxes, fertiliser bags, lunch wrappings and general refuse from the area upon completion of the operation, or sooner if so instructed by the **Operation Manager**, and **leave the area in a tidy condition** to the satisfaction of the **TL Operation Manager**.
- ◆ The clean-up complies with **Council standards and resource consent conditions** and waste products and materials disposed of in an only at Council or legally approved landfill or waste disposal sites.

### **OVERSOWING**

- ◆ The oversowing method must ensure that **no seed drift** reaches Riparian zones, neighbouring properties and other non-target areas. This may necessitate leaving an unseeded margin.
- ◆ Oversowing is not to be carried out if it is **raining**.
- ◆ Spreading should be undertaken in accordance to the **TL prescription**.

### **SPRAYING (including herbicide, pesticide and fungicide application)**

- ◆ All chemical application must comply with the relevant standards of the **Growsafe Agrichemical Users Code of Practice** (NZS 8409-1999), which promotes safe chemical use.
- ◆ The **pilot** and key staff must hold an Approved Handler certificate as per the HSNO Act regulations.
- ◆ All crew must receive **on-the-job training** prior to the commencement of the operation.
- ◆ Transport of chemicals will comply with NZS 5433:1999 for the **Transport of Dangerous Goods on Land**.



### **STORAGE, MIXING AND DISPOSAL RULES**

- ◆ Chemicals should be **stored and mixed** on sites where any spillage will not enter a watertable, stream, riparian zone or reserve.
- ◆ Mixing is to be **measured accurately and without spillage** (in the event of spillage occurring disposal must be undertaken in a safe manner away from any watertable, stream, riparian or reserve). During mixing, care must be taken to avoid contamination of waterways.
- ◆ Where practical water should be **clean and free of dirt particles**.
- ◆ **Chemical containers** should be disposed off-site and in the appropriate manner. The preferred method is to re-locate back to the chemical company.
- ◆ An **emergency spill kit** must be available and suitable for quantity and type of chemical being stored, transported and used.
- ◆ **Waste water from cleaning of storage tanks**, equipment and containers must be disposed of in a safe manner away from any watertable, stream, riparian zone or reserve.

### **APPLICATION RULES**

- ◆ Spray equipment should be **calibrated** correctly. Leaking nozzles must be cleared or replaced immediately.
- ◆ The **Operation Manager** should cease spraying at any time if **weather conditions** are affecting spray performance. As a guide the following weather conditions apply for aerial applications of herbicides:
  - (a) Spraying should cease when wind strength reaches 12km/hr.
  - (b) Spraying should cease when temperature reaches 20°C.
  - (c) Spraying should only be undertaken in accordance to terms and conditions outlined on the TL operational prescription.
- ◆ The spray method must ensure that **no spray drift** reaches surrounding forest stands, watertables, streams, riparian zones, neighbouring properties, archaeological sites or other non-target areas. This may necessitate leaving an unsprayed margin.
- ◆ Chemical mixes should avoid killing **non-target species** (e.g. grasses).
- ◆ **Rates** should not exceed the recommended dosage required to effectively control the targeted species.
- ◆ For aerial application the **Daily Aerial Spray Record Form** must be completed for every block treated.