



SOUTHERN FORESTS LTD

Forest Managers | Logging Managers | Consultants

Monitoring Plan – Ingka South Forest Estate

For FSC® Certified Forests (FSC-C208390)



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1.0 Monitoring of Effects according to FSC NZ Standard 2023

Taken from Annex E Conceptual framework for planning and monitoring and Principles 8 & 10.

1.1 Environmental Impacts Monitoring

Southern Forests Ltd (SFL) will ensure that monitoring in Principle Criterion Indicator 8.2.1 is sufficient to identify and describe the environmental impacts of management activities, including:

- Natural Forest (Regeneration)
 - The results of regeneration activities (Criterion 10.1).
 - The use of ecologically well-adapted species for regeneration (Criterion 10.2)
- Weeds, Pests and Alien Species (IPMS)
 - Invasiveness or other adverse impacts associated with any weed species within and outside the management unit (Criterion 10.3).
 - The use of Genetically modified organisms to confirm that they are not being used. (Criterion 10.4).
 - Adverse impacts from the use of biological control agents (Criterion 10.8).
 - Any biological control agents are documented by outside agency on release.
- Exotic Forest (Monitoring)
 - The results of silvicultural activities (Criterion 10.5).
- Chemical & Fertiliser Use
 - Number of Adverse impacts to environmental values from fertilisers (Criterion 10.6).
 - List of fertilisers and application rates kept ongoing
 - Any damage from fertiliser use documented including remedy as occurs
 - Adverse impacts from the use of pesticides (Criterion 10.7)
 - Pesticides used are checked against FSC prohibited list and NZ exempt list on introduction of new pesticide.
 - Checks are made to ensure environmental damage is avoided after spray releases.
- Natural Hazards Monitoring
 - The impacts from natural hazards (Criterion 10.9).
- Earthworks, Roding and Infrastructure Monitoring
 - The impacts of infrastructural development, transport activities and silviculture to rare and threatened species, habitats, ecosystems, landscape values water and soils (Criterion 10.10).
 - Soil stabilisation including roding is monitored ongoing or until stability achieved.
 - Environmentally appropriate disposal of waste materials (Criterion 10.12)
- Harvesting and NTFP Monitoring
 - The impacts of harvesting and extraction of timber and non-timber forest products, environmental values, merchantable wood waste and other products and services (Criterion 10.11).

- Waste Monitoring
 - Environmentally appropriate disposal of waste materials (Criterion 10.12).

1.2 Environmental Conditions

Monitoring procedures in 8.2.2 are sufficient to identify and describe changes in environmental conditions, including where applicable:

Category

- Environmental values and ecosystem functions including carbon sequestration and storage
Criterion 6.1
- Rare and threatened species (Criterion 6.4).
- Rare and threatened species populations and habitat
- Representative Sample Areas (Criterion 6.5).
- Naturally occurring native species and biological diversity (Criterion 6.6).
- Maintenance is monitored.
- Water bodies and water quality (Criterion 6.7).
- Landscape values (Criterion 6.8).
- Conversion of natural forest to plantations (Criterion 6.9).
- The status of plantations established after 1994 (Criterion 6.10)
- High conservation values 1 to 4 identified in Criterion 9.1.

1.3 Social Impacts Monitoring

Southern Forests Ltd will ensure that monitoring in Principle Criterion Indicator 8.2.1 is sufficient to identify and describe **social impacts of management activities**, including where applicable:

- Security
 - Evidence of illegal or unauthorized activities (Criterion 1.4).
- Regulatory Compliance
 - Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5).
- Disputes Resolution
 - Resolution of disputes and grievances (Criterion 1.6, Criterion 2.6, Criterion 4.6).
- Workers' rights (Criterion 2.1).
 - Programs and activities regarding workers' rights (Criterion 2.1).
 - Worker training (Criterion 2.5).
 - Payment of wages (Criterion 2.4).
 - Gender equality, sexual harassment, and gender discrimination (Criterion 2.2).
- Occupational health and safety (Criterion 2.3).
 - Programmes and activities regarding occupational health and safety (Criterion 2.3).
 - Where pesticides are used, the health of workers exposed to pesticides (Criterion 2.5 and Criterion 10.7)

- Indigenous Peoples and local communities' rights
 - The identification of Indigenous Peoples and local communities and their legal and customary rights (Criterion 3.1 and Criterion 4.1).
 - Full implementation of the terms in binding Agreements (Criterion 3.2 and Criterion 4.2).
 - Indigenous Peoples and community relations (Criterion 3.2, Criterion 3.3, and Criterion 4.2).
 - Protection of sites of special cultural, ecological, economic, religious, or spiritual significance to Indigenous Peoples and local communities (Criterion 3.5 and Criterion 4.7).
 - The use of traditional knowledge and intellectual property (Criterion 3.6 and Criterion 4.8).
- Local economic and social development
 - Local economic and social development (Criterion 4.2, Criterion 4.3, Criterion 4.4, Criterion 4.5).
 - The use of local processing, local services, and local value-added manufacturing (Criterion 5.4).
- Benefits from the Forest
 - The production of diversified benefits and/or products (Criterion 5.1).
 - Actual compared to projected annual harvests of timber and non-timber forest products (Criterion 5.2).
- Long-term economic viability (Criterion 5.5).
 - Long-term economic viability (Criterion 5.5).
- High conservation values 5 and 6 identified in Criterion 9.1.
 - High conservation values 5 and 6 identified in Criterion 9.1.

2.0 Monitoring Schedule

2.1 Genetically Modified Organisms (Effects of Chemical, Bio Control, GMO, or Fertiliser Use)

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Use of Genetically modified organisms.	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) d. The use of Genetically modified organisms to confirm that they are not being used. (Criterion 10.4);	Annual September 1st at Tree Stock ordering	Operations Manager request email confirmation from supplier that non-GMO are used	Environment

2.2 Biological Control Agents (Effects of Chemical, Bio Control, GMO, or Fertiliser Use)

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Any bioSFLal control agents are documented by outside agency on release	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) m. Any bioSFLal control agents are documented by outside agency on release;	When requested by outside Agency. Follow SFL BioSFLal Control Agents Policy and Procedure	SFL Forest Manager	Environment
Adverse impacts from the use of bioSFLal control agents are monitored	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) l. Adverse impacts from the use of bioSFLal control agents (Criterion 10.8);	When requested by outside Agency. Follow SFL BioSFLal Control Agents Policy and Procedure.	SFL Forest Manager	Environment

2.3 Chemical Use (Effects of Chemical, Bio Control, GMO, or Fertiliser Use)

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Check Chemical against Prohibited list	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) j. Pesticides used are checked against FSC prohibited list and NZ exempt list on introduction of new pesticide;	Pre-Operational Check	SFL Forest Manager	Environment
Environmental damage following spray releases	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) k. Checks are made to ensure environmental damage is avoided after spray releases;	Post Operational Check	Operations Manager, SFL Forest Manager	Environment
Chemical (Active Ingredient) use rates per hectare are collated for reporting annually for the period ending 30 June of each year.	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	HSW and Operational Monitoring Environmental Impacts and Changes in Environmental conditions (8.2.2)	Per operation	Operations Manager	Environment
Health of workers exposed to pesticides	Contractor Health, Safety and Wellbeing	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) i. Where pesticides are used, the health of workers exposed to pesticides (Criterion 2.5 and Criterion 10.7)	Biannual Contractor Survey	Health and Safety Manager/Forest Manager	Health & Safety

2.4 Pest Management (for full details see the EMS)

Factor Monitored	Subcategory	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Manage as per requirements of Regional Pest management Plan.	Noxious weeds	Regional Pest Species	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	As discovered or reported because of Monitoring	Forest Supervisor/Forest Manager	Environment
Survey (Drone) forest boundary annually. Removal of any found, in consultation with landowner. Spray, pull, or cut/paste stump.	Noxious weeds	Wilding conifer control	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Annually in September	Forest Supervisor/Forest Manager	Environment
Survey (Drone) forest boundary annually Removal of any found, in consultation with landowner.	Regional Plant Pest Species	Integrated Pest Management	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Bi-annually in summer months	Forest Supervisor/Forest Manager	Environment
Survey (Drone) forest boundary annually. Removal of any found, in consultation with landowner. Spray, pull, or cut/paste stump.	Wilding conifer control	Integrated Pest Management	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Bi-annually in summer months	Forest Supervisor/Forest Manager	Environment

Control when sign becomes apparent or detected in Monitoring, particularly during the establishment phase of the plantation. Ground shooting via forest access permit system.	Animal pest	Deer, pigs, sheep	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Ongoing	Forest Supervisor/Forest Manager	Environment
Survey forests every 3 years. Apply control when limits are exceeded: – Possum: Residual Trap Catch (RTC)	Animal pest	Possum and rabbit control	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Survey forests every 3 years.	Forest Supervisor/Forest Manager	Environment
Manage as per requirements of Regional Pest management Plan and the Integrated Pest Management Plan	Regional Animal Pest Species	Integrated Pest Management	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Ongoing	Forest Supervisor/Forest Manager	Environment

2.5 Operational Management Activities - Harvesting and Roding (Currently no harvesting)

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Impacts (8.2.2) o. The impacts of infrastructural development, transport activities and silviculture to rare and threatened species, habitats, ecosystems, landscape values water and soils (Criterion 10.10);	Earthworks, Roding and Infrastructure Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) o. The impacts of infrastructural development, transport activities and silviculture to rare and threatened species, habitats, ecosystems, landscape values water and soils (Criterion 10.10);	SFL and Industry Best practices are audited at each site visit.	Forest Supervisor/Forest Manager/Forest Manager	Environment
Impacts (8.2.2) p. Soil stabilisation including roding is monitored ongoing or until stability achieved;	Earthworks, Roding and Infrastructure Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) p. Soil stabilisation including roding is monitored ongoing or until stability achieved;	SFL and Industry Best practices are audited at each site visit.	Forest Supervisor/Forest Manager/Forest Manager	Environment
Changes in condition (8.2.2) g. Maintenance is monitored;	Earthworks, Roding and Infrastructure Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) g. Maintenance is monitored;	SFL and Industry Best practices are audited at each site visit.	Forest Supervisor/Forest Manager/Forest Manager	Environment
Deposition, accumulation, and transport of debris materials in the paths to water and waterways	Debris in waterways leading to Off-site effects	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Post-harvest records for each setting, Quarterly Drone imagery	Forest Supervisor/Forest Manager	Environment

2.6 Fertiliser Use (Note: Fertilisers are not currently used in the FMU)

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Environmental damage following fertiliser application	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) f. Number of Adverse impacts to environmental values from fertilisers (Criterion 10.6);	Post Operational Check	Forest manager/Forest supervisor	Environment
Register	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) g. List of fertilisers and application rates kept ongoing	Annually in June	Forest manager/Forest supervisor	Environment
Environmental damage following fertiliser application	Effects of Chemical, Bio Control, GMO, or Fertiliser Use	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) h. Any damage from fertiliser use documented including remedy as occurs i. Adverse impacts from the use of pesticides (Criterion 10.7)	Post Operational Check	Forest manager/Forest supervisor	Environment

2.7 Compliance with all applicable Laws and Regulations

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Compliance from Regulatory Authority / Worksafe inspections	Compliance with all applicable Laws and Regulations.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	As approached	External party report to SFL	Compliance
Compliance from Regulatory Authority / Resource consents. NESCF	Compliance with all applicable Laws and Regulations.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	As approached	External party report to SFL	Compliance
Enforcement Actions	Compliance with all applicable Laws and Regulations.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified	As reported	External party report to SFL	Compliance

		international conventions and obligatory codes of practice (Criterion 1.5);			
Incidents—all forms	Compliance with all applicable Laws and Regulations.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	As reported	ForestSafe / Safety App	Compliance
SFL — CAR system	Compliance with all applicable Laws and Regulations.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	Continually and Annual Summary, Monthly Safety Meeting	ForestSafe / Safety App	Compliance
SFL internal audits	Compliance with all applicable Laws and Regulations.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	Continually and Annual Summary	ForestSafe / Safety App	Compliance
Incidents—all forms	Incidents/Accidents	HSW and Operational Monitoring Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	Reported ASAP	Contractor via Contractor System and Forest Supervisor/Forest Manager via ForestSafe / Safety App	Environment
Compliance with Environmental Standards and Regulations	Environmental Section Site Visit	HSW and Operational Monitoring Social Impacts (8.2.1) b. Compliance with applicable laws, local laws, ratified international conventions and obligatory codes of practice (Criterion 1.5);	Monthly	Forest Supervisor/Forest Manager	Environment

2.8 Economic Viability of the Business and FMU

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Economic Viability of the Business and FMU	Economic Viability of the Business and FMU	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) s. Long-term economic viability (Criterion 5.5);	Ongoing	Owner driven Model analysis/Appropriate R.O. L	Economic
Overall economic viability of the management unit is positive	Profitability	Forest Economic Value	Annual	Forest Valuation	Economic
To ensure our business is Commercially and Economically viable.	Profitability	Forest Economic Value	Annual	Owner driven Model analysis/Appropriate R.O. L	Economic
To ensure our clients forests are Commercially and Economically viable.	Profitability	Forest Economic Value	Annual	Owner driven Model analysis/Appropriate R.O. L	Economic
Overall Health of Forest, identify impact of emerging forest health trends in the industry, and emerging issues within the forest	Forest Health Survey	Forest Health	On rotation	SFL	Economic
Plantation area / species / reserve trends	Forest Value	Forest Area	Annual	Forest Valuation	Economic

2.9 Forest Access -Illegal Entry and theft

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Discovery or inspections of security gates and locks, camera footage if available. Reports from Stakeholders.	Illegal Entry and theft.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) a. Evidence of illegal or unauthorised activities (Criterion 1.4);	As reported/Just cause	Forest Manager/Forest Supervisor	Social and Cultural

2.10 Forest Conversion

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Confirm the forest was not converted from existing native forest	Native forest protection	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) l. The status of plantations established after 1994 (Criterion 6.10);	Complete	SFL	Compliance

2.11 Staff & Contractor Employment

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Master contracts with staff - Contracts current with 2-year minimum term	Valid & fair contracts — all staff and contractors	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) e. Gender equality, sexual harassment, and gender discrimination (Criterion 2.2);	Continually	General Manager/Contracts system	Compliance
Contracts with Contractors - Contracts current with 2-year minimum term	Valid & fair contracts — all staff and contractors	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) g. Payment of wages (Criterion 2.4);	Continually	General Manager/Contracts system	Compliance
Master contracts with staff. Contracts current with 2-year minimum term	Valid & fair contracts — all staff and contractors.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) d. Programs and activities regarding workers' rights (Criterion 2.1);	Continually	General Manager/Contracts system	Compliance
Master contracts with staff	Valid & fair contracts — all staff and contractors.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) g. Payment of wages (Criterion 2.4);	Continually	General Manager/Contracts system	Compliance
Staff Survey	Social	Social Impacts of management activities (8.2.1)	Annually at Performance review	Managing Director	Social and Cultural
Master contracts with staff	Valid & fair contracts — all staff and contractors.	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) h. Worker training (Criterion 2.5);	Continually	General Manager/Contracts system	Compliance

2.12 Waste Management

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
No accumulations of Waste containers in the forest. Contractors have an appropriate arrangement for disposal.	Fuel, Oil, Agrichemical and Hazardous Waste Management	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) r. Environmentally appropriate disposal of waste materials (Criterion 10.12)	Observations and reporting at each Site visit	Forest Supervisor/Forest Manager/Contractor	Environment
Agrichemicals (when used) have an appropriate arrangement for disposal.	Fuel, Oil, Agrichemical and Hazardous Waste Management	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) r. Environmentally appropriate disposal of waste materials (Criterion 10.12)	Annual review. Observations from each site visit	Forest Supervisor/Forest Manager/Contractor	Environment

2.13 Impacts of Management Activities - Stream Health

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Surface Water and site Monitoring and Lab analysis of Water Quality measures and eDNA	Stream Health Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) h. Water bodies and water quality (Criterion 6.7);	Annual Summer	Forest Manager/Forest Supervisor	Environment
Stream Health Monitoring Plan developed SFL and enacted	Stream Health Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	Completed	SFL	Environment
Stream Health Monitoring Plan Annual Survey implemented	Stream Health Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	January	SFL	Environment

2.14 Operational Contractor Management - Harvesting and Earthworks Management

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Environmental & Regulatory Check	Environmental & Regulatory Check	HSW and Operational Monitoring	Pre-operation Planning	Harvest Manager	Compliance
Earthworks Prescription prepared and delivered	Earthworks Prescription	HSW and Operational Monitoring	Pre-start/New Setting	Harvest Manager	Compliance
Harvest Prescription prepared and delivered	Harvest Prescription	HSW and Operational Monitoring	Pre-start/New Setting	Harvest Manager	Compliance
Full Operational Audit	Full Operational Audit	HSW and Operational Monitoring	Two per year (2 month close out window)	Harvest Manager/Forest Manager/External Company	Compliance
Harvesting Site Inspection Report	Harvesting Inspection Report	HSW and Operational Monitoring	Two per month (minimum)	Harvest Manager	Compliance
Harvest Report of Operation	Harvest Report	HSW and Operational Monitoring	Monthly	Harvest Manager	Compliance
Harvesting Setting Completion Report	Harvesting Setting Completion Report	HSW and Operational Monitoring	Completion of Setting	Harvest Manager	Compliance
Post-Harvest Audit	Post-Harvest Audit	HSW and Operational Monitoring Per operation and setting	Per operation and setting	Harvest Manager	Compliance
Log Inspection	Log Inspection	HSW and Operational Monitoring	Two per month (minimum)	Harvest Manager	Economic
Harvesting Environmental Audit	Harvesting Environmental Audit	HSW and Operational Monitoring	As needed	Harvest Manager	Compliance

Harvesting Operational Audit	Harvesting Operational Audit	HSW and Operational Monitoring Monthly	Monthly	Harvest Manager	Compliance
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2.15 Operational Contractor Management - Establishment and Silviculture Quality Control

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Operational Quality Control	Planting QC	HSW and Operational Monitoring	Planting season	Forest Supervisor/Forest Manager	Economic
Operational Quality Control	Survival Survey	HSW and Operational Monitoring	Annual	Forest Supervisor/Forest Manager	Economic
Operational Quality Control	Thinning QC	HSW and Operational Monitoring	Per operation	Forest Supervisor/Forest Manager	Economic
Operational effectiveness; Payment data; Stems per hectare; Quality of planting	Planting Quality Control	HSW and Operational Monitoring	Throughout planting season immediately behind the planting operation	Forest Supervisor/Forest Manager	Economic
Evidence of Planting for ETS purposes	Planting Quality Control	HSW and Operational Monitoring	Throughout planting season immediately behind the planting operation	Forest Supervisor/Forest Manager/ETS Manager	Economic
Silviculture Site Inspection Report	Silviculture Inspection Report	HSW and Operational Monitoring	Two per month (minimum)	Forest Supervisor/Forest Manager	Compliance

2.16 Forest Productivity

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Maintain and enhance value	Forest Value	Forest Economic Value	Annual	Forest Valuation	Economic
Periodic Inventory, data gathering and forest cruising	Forest Growth	Forest Area	At Owners request	Forest Manager/Forest Supervisor	Economic
Log Quality and Value Recovery	Log Quality and Value Recovery	Operational Monitoring	Monthly reporting and Annual summary	Forest Supervisor/Forest Manager via ForestSafe / Safety App	Economic
Log grade outturn value maximised	Forest Value	Operational Monitoring	Monthly reporting and Annual summary	PS Log And financial system analysis	Economic
Sustainable supply of Forest Products [Site productivity - Yield of all forest products harvested]	Forest Value	Forest Economic Value	Monthly reporting and Annual summary	PS Log And financial system analysis	Economic
Forest Valuation (Target is to produce a total recoverable volume (TRV in M3) from the productive hectares of at least the average TRV of the previous rotation where the regimes applied are the same.)	Forest Value	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) e. The results of silvicultural activities (Criterion 10.5);	Annual	Forest Valuation	Economic

Harvest Volume vs Predicted (Target is to produce a total recoverable volume (TRV in M3) from the productive hectares of at least the average TRV of the previous rotation where the regimes applied are the same.)	Harvest Volume vs Predicted	Forest Economic Value Social Impacts (8.2.1) q. Actual compared to projected annual harvests of timber and non-timber forest products (Criterion 5.2);	Monthly reporting and Annual summary	PS Log And financial system analysis	Economic
Harvest Yield (Target is to produce a total recoverable volume (TRV in M3) from the productive hectares of at least the average TRV of the previous rotation where the regimes applied are the same.)	Harvest Yield	Forest Economic Value	Monthly reporting and Annual summary	PS Log And financial system analysis	Economic
Forest Valuation (Target is to produce a total recoverable volume (TRV in M3) from the productive hectares of at least the average TRV of the previous rotation where the regimes applied are the same.)	Harvest Yield	Forest Economic Value	Annual	Forest Valuation	Economic
Sustained product flows and employment. Sustainable work programs	Social	Social Impacts of management activities (8.2.1)	Monthly reporting and Annual summary	Harvest Manager Contracts and Work Programs	Economic
Sustained product flows and employment. Sustainable work programs	Social	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) p. The production of diversified benefits and/or products (Criterion 5.1);	Monthly reporting and Annual summary	Harvest Manager Contracts and Work Programs	Economic

2.17 Community

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Local economic and social development is prioritised through employment of local contractors where practical and meets SFL and forest owner standards.	Community	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) o. Local economic and social development (Criterion 4.2, Criterion 4.3, Criterion 4.4, Criterion 4.5);	1 March Annually	Managing Director	Social and Cultural
Local economic and social development is prioritised through local processing where practical and meets SFL and forest owner standards.	Community	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) r. The use of local processing, local services, and local value-added manufacturing (Criterion 5.4);	1 March Annually	Managing Director	Social and Cultural
Resolution of disputes and grievances (Criterion 1.6, Criterion 2.6, Criterion 4.6) actioned as per Disputes Policy and Procedures	Disputes	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) c. Resolution of disputes and grievances (Criterion 1.6, Criterion 2.6, Criterion 4.6);	As occurs	General Manager	Social and Cultural
Report any Stakeholder Comms on Site Visit or ForestSafe / Safety App	Social	Social Impacts of management activities (8.2.1)	As occurs	All Staff	Social and Cultural
Community Survey	Social	Social Impacts of management activities (8.2.1)	Three yearly Community Survey	General Manager	Social and Cultural
Annual Review of activity, performance and effects of Access and permit system	Social	Social Impacts of management activities (8.2.1)	1 Mar Annually	Forest Manager	Social and Cultural

Public access for fundraising events	Social	Social Impacts of management activities (8.2.1) Public Access Policy	February - Annual, Moonshine Adventure Race at Koneburn. Annual trail bike ride at Wisp Hill if requested.	Forest Manager/Forest Supervisor	Social and Cultural
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2.18 Natural Hazards Management

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Pre-Event Conditions	Monitor alerts for weather warnings from Metservice, Regional Authorities and NEMA	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) n. The impacts from natural hazards (Criterion 10.9);	Continuous	All Staff	Health & Safety
Post storm event Site Inspection	Damage Survey (Storm or other)	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) n. The impacts from natural hazards (Criterion 10.9);	As needed	Forest Supervisor/Forest Manager/Harvest Manager	Health & Safety
Deposition, accumulation, and transport of debris materials in the paths to water and waterways	Damage Survey (Storm or other)	Environmental Impacts and Changes in Environmental conditions (8.2.2) HCV 5 Criterion 9.1.	Post-harvest records for each setting, Quarterly Drone imagery, repeated at critical points identified by the Risk Assessment.	Forest Supervisor/Forest Manager/Harvest Manager	Social and Cultural
Maintenance Records	Continuous	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) n. The impacts from natural hazards (Criterion 10.9);	Continuous	Operational Staff	Health & Safety

2.19 Biodiversity Management & High Conservation Values

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Initial Ecology Survey; NZ Forest Advisors Ltd staff and Ecologist preliminary Forest visit and basic survey of Terrestrial environment and Water sources	Biodiversity Survey	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	1-Oct-24	SFL/Urtica	Environment
NZFA prepare the findings report and propose Monitoring of Terrestrial biodiversity	Biodiversity Survey	Environmental Impacts and Changes in Environmental conditions (8.2.2) Environmental Impacts and Changes in Environmental conditions (8.2.2)	1-Oct-24	Urtica	Environment
Condition and visible growth changes	Reserve Monitoring	Environmental Impacts and Changes in Environmental conditions (8.2.2) Impacts (8.2.2) a. The results of regeneration activities (Criterion 10.1); i. Landscape values (Criterion 6.8);	2 Yearly September 1st	SFL Forest Manager/Urtica	Environment
Condition and visible growth changes	Environmental values and ecosystem functions	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) d. Representative Sample Areas (Criterion 6.5);	2 Yearly September 1st	SFL Forest Manager/Urtica	Environment
Review HCV Classification	Classification of HCV 1 HCV 1 Species Diversity	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) m. High conservation values 1 to 4 identified in Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Environment
Review HCV Classification	Classification of HCV 2 -Landscape -level ecosystems	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) m. High conservation values 1 to 4 identified in Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Environment

Review HCV Classification	Classification of HCV 3 – Ecosystems and habitats	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) m. High conservation values 1 to 4 identified in Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Environment
Review HCV Classification	Classification of HCV 4 Critical ecosystem services	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) m. High conservation values 1 to 4 identified in Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Social and Cultural
Review HCV Classification	Classification of HCV 5 Community Needs	Environmental Impacts and Changes in Environmental conditions (8.2.2) Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Social and Cultural
Review HCV Classification	Classification of HCV 6 Cultural Values	Environmental Impacts and Changes in Environmental conditions (8.2.2) Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Social and Cultural
Review HCV Classification	Classification of HCV Social Impact	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) t. High conservation values 5 and 6 identified in Criterion 9.1.	2 Yearly September 1st	SFL Forest Manager/Urtica	Social and Cultural
Review HCV Classification	representative areas health and restoration programs	Environmental Impacts and Changes in Environmental conditions (8.2.2) Changes in condition (8.2.2) e. Large – representative areas health and restoration programs are monitored;	2 Yearly September 1st	Not applicable until expansion of scope audit 2025	Environment

2.20 Contractor Health, Safety and Wellbeing

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Contractor Induction	Contractor Induction	HSW and Operational Monitoring Social Impacts (8.2.1) f. Programmes and activities regarding occupational health and safety (Criterion 2.3);	New Contractor or yearly on or before anniversary /Yearly	Forest manager/Forest Supervisor	Health & Safety
Contractor Safety Meeting	Contractor Safety Meeting	HSW and Operational Monitoring Social Impacts (8.2.1) f. Programmes and activities regarding occupational health and safety (Criterion 2.3);	Biannually	SFL H+S	Health & Safety
Drug Testing	Drug Testing	HSW and Operational Monitoring Social Impacts (8.2.1) f. Programmes and activities regarding occupational health and safety (Criterion 2.3);	Reasonable cause/post-incident/post-accident/Random	External Company	Health & Safety
Systems Audit	Systems Audit	HSW and Operational Monitoring Social Impacts (8.2.1) f. Programmes and activities regarding occupational health and safety (Criterion 2.3);	Biannually (if Safe tree certified and annually if not certified)	SFL H+S (not to be done on year Safetree certified)	Health & Safety
Training Standards	Training Standards	HSW and Operational Monitoring Social Impacts (8.2.1) h. Worker training (Criterion 2.5);	New Contractor/New Contractor employee/Yearly	SFL H+S	Health & Safety
Training Records Analysis Internal	Training Record check: Workforce suitably trained and engaged. •Contractor / staff training continuous and effective	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) h. Worker training (Criterion 2.5); f. Programmes and activities regarding occupational health and safety (Criterion 2.3);	Continually as required, Quarterly check and in Annual review	Document Management System/Operations Forest Supervisor/Forest Manager	Health & Safety
Attend a tailgate meeting	Attend a tailgate meeting	HSW and Operational Monitoring	Quarterly	Forest Supervisor/Forest Manager	Health & Safety

Corrective Action	Corrective Action	HSW and Operational Monitoring	When required	Forest Supervisor/Forest Manager	Health & Safety
Fire Audit (Forest Protection)	Fire Audit (Forest Protection)	HSW and Operational Monitoring	Yearly (month depending on season) prior to season	Forest Supervisor/Forest Manager	Health & Safety
Health and Safety Report	Health and Safety Report	HSW and Operational Monitoring	Monthly	Contractor	Health & Safety
Incidents/Accidents	Incidents/Accidents	HSW and Operational Monitoring	Reported ASAP	Contractor via System and Forest Supervisor/Forest Manager via ForestSafe / Safety App	Health & Safety
Incidents/Accidents SFL Report	Incidents/Accidents SFL Report	HSW and Operational Monitoring	When required	Situation dependant	Health & Safety
Tree feller/breaker out Audit	Tree feller/breaker out Audit	HSW and Operational Monitoring	Quarterly	Forest Supervisor/Forest Manager/External Company	Health & Safety
Safetree Certification	Contractor Health, Safety and Wellbeing	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) f. Programmes and activities regarding occupational health and safety (Criterion 2.3);	Annually	SFL/Forest Contractor/External Provider	Health & Safety
Employee Health	Contractor Health, Safety and Wellbeing	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) i. Where pesticides are used, the health of workers exposed to pesticides (Criterion 2.5 and Criterion 10.7)	Annually	Contractor/SFL	Health & Safety

2.21 Cultural Values Management

Factor Monitored	Monitoring Activity	Monitoring Requirement: Certification Criteria	Frequency/Due Date	Responsible party/Method	Key Identified Objective
Monitor the Protection of sites of special cultural economic, religious, or spiritual significance to Indigenous Peoples and local communities (Criterion 3.5 and Criterion 4.7)	Cultural Values Management	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) m. Protection of sites of special cultural, ecoSFLal, economic, religious, or spiritual significance to Indigenous Peoples and local communities (Criterion 3.5 and Criterion 4.7);	Ongoing	SFL Forest Manager	Social and Cultural
Strategic Relationship Agreement: Hokonui Runanga on legal and customary rights - enter into Strategic Relationship Agreement	Cultural Values Management	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) j. The identification of Indigenous Peoples and local communities and their legal and customary rights (Criterion 3.1 and Criterion 4.1);	Complete	SFL Forest Manager & Forest Owner Representative	Social and Cultural
Strategic Relationship Agreement: Assign review dates and schedule of milestones when the proposed Strategic Relationship Agreement Assign review dates and schedule of milestones to address customary rights.	Cultural Values Management	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) k. Full implementation of the terms in binding Agreements (Criterion 3.2 and Criterion 4.2) (Criterion 3.2, Criterion 3.3, and Criterion 4.2);	Annual - August	SFL Forest Manager & Forest Owner Representative	Social and Cultural

Strategic Relationship Agreement: Rates for engagement in use of Traditional knowledge and intellectual property have been implemented. Review and inclusion in the Strategic Relationship Agreement	Cultural Values Management	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) n. The use of traditional knowledge and intellectual property (Criterion 3.6 and Criterion 4.8);	Annual - August	SFL Forest Manager & Forest Owner Representative	Social and Cultural
Cultural Heritage Assessment	Cultural Values Management	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) n. The use of traditional knowledge and intellectual property (Criterion 3.6 and Criterion 4.8);	Complete	External OIO	Social and Cultural
Cultural Site Accidental Discovery Procedure with Crews	Cultural Values Management	Social Impacts of management activities (8.2.1) Social Impacts (8.2.1) n. The use of traditional knowledge and intellectual property (Criterion 3.6 and Criterion 4.8);	Review March 1st, 2027	SFL Forest Manager	Social and Cultural
Review HCV 6	Cultural Values Management	Social Impacts of management activities (8.2.1)	Review March 1st, 2027	SFL Forest Manager	Social and Cultural