

Environmental Product Declaration Sheet 2023



MILL LOCATION

Peace River, Alberta, Canada

PRODUCT PROFILE

170,000 ADMT/yr Northern Bleached Softwood kraft pulp
280,000 ADMT/yr Northern Bleached Hardwood kraft pulp

PROCESS DESCRIPTION

Mercer Peace River produces high-quality, bleached hardwood kraft pulp from the aspen and balsam poplar trees that grow in the surrounding area. The mill also uses softwood chips purchased from regional sawmills. The bleach plant process is enhanced Elemental Chlorine Free (ECF).

ECF BLEACHING SEQUENCE

D0 E0 D1 D2

SOFTWOOD SPECIES

- **White Spruce** - Picea glauca
- **Black Spruce** - Picea mariana
- **Lodgepole pine** - Pinus contorta

HARDWOOD SPECIES

- **Trembling Aspen** - Populus tremuloides
- **Balsam Poplar** - Populus balsamifera

SUSTAINABLE FOREST MANAGEMENT

Mercer Peace River Pulp Ltd. processes 2.4 million cubic meters of wood to produce both softwood and hardwood pulp. The softwood chips are sourced from regional sawmills to produce premium reinforcing softwood pulp. The remainder of Mercer Peace River's production is fulfilled with hardwood fiber (chips) sourced from the company's forest tenures. The mill has an annual hardwood allowable cut of 2.5 million cubic meters; in 2023, Mercer Peace River utilized 1.14 million cubic meters to fulfill its hardwood production requirements. The mill's forest tenures encompass an area of 2.67 million hectares of boreal forest which are carefully monitored through the Forest Management Plans (FMP).

Developed on a philosophy of ecosystem-based management (EBM), Mercer Peace River's FMP describes a sustainable forest of the future based on objectives intended to maintain integral components of the natural forest over a 200-year planning horizon.

By following sound forest management practices designed to provide a perpetual sustained yield of timber, while not reducing the productivity of the land and its inherent values, Mercer Peace River manages these forests with the five sustainability principles:

- Enhancement of biological diversity
- Soil and water conservation
- Consideration of global ecosystems
- Providing multiple benefits to society
- Engaging indigenous communities and the public in sustainable forest management

CERTIFICATIONS

FIBER

PEFC Chain of Custody
FSC® Chain of Custody
SFI® Forest Management
SFI® Fiber Sourcing

CERTIFICATION NO.

KPMG-PEFC-COC-2438.01
KF-COC-001020
PRI-SFI-FM-061
PRI-SFI-FS-061

EXPIRATION DATE

September 27, 2027
October 16, 2027
October 24, 2026
October 24, 2026

QUALITY, ENVIRONMENT & ENERGY

ISO 9001:2015
ISO 14001:2015

CERT-0112679
CERT-0124061

January 30, 2027
September 9, 2024

FOOD GRADE

ISEGA
US-FDA

STANDARD

BfR XXXVI, XXXVI/1, XXXVI/2, XXXVI/3
21 CFR 176.170 and 176.180

EXPIRATION DATE

May 21, 2025
May 21, 2025

2023 ENVIRONMENTAL PARAMETERS

FOSSIL FUEL GREENHOUSE GAS EMISSIONS: 479 CO₂e/ADMT

RENEWABLE ELECTRICITY: The mill's biomass is the main source of the electricity required for the pulp operation.

ENERGY EFFICIENCY: 44.86 GJ/ADMT, of which 79% is from renewable sources.

WATER EMISSIONS:

BOD ₅ (kg/ADMT):	0.33
AOX (kg/ADMT)	0.10
Nitrogen (kg/ADMT)	0.19
Phosphorous (kg/ADMT)	0.07
Water usage (m ³ /ADMT)	79.23
Total suspended solids (kg/ADMT)	1.74

AIR EMISSIONS:

TRS (kg/ADMT)	0.04
SO ₂ (kg/ADMT)	1.91
Particulate matter (kg/ADMT)	0.85
NOX (kg/ADMT)	1.66

WASTE MANAGEMENT: Solid waste landfilled (kg/ADMT): 38.96

Environmental Product Declaration Sheet 2023

ROAD TO ZERO

The protection of human health and personal safety rank at the highest level of importance to Mercer's operations.

Mercer Peace River operates in a diligent and responsible manner to ensure ZERO HARM to their people through their Road to Zero safety program. Mercer Peace River is dedicated to continuously improving their processes, being individually accountable and promoting comprehensive safety awareness.

Mill Safety Performance - Total Recordable Incident Rate (TRIR):

(Incidents /200,000 hrs)

2021: 6.80 | 2022: 1.99 | 2023: 1.86



QUALITY ASSURANCE

Refining is the key process required in papermaking to alter fiber characteristics. Mercer operates a state-of-the-art laboratory refiner simulating the industrial refining process to support Mercer customers, mill projects, and applied research.

RESPONSIBLE FIBER SOURCING

Mercer Peace River's fiber suppliers must comply with the Mercer International [Wood and Fibre Procurement Policy](#), ensuring Mercer sources fiber from sustainably managed forests. The Forest tenures and fiber purchases through the Peace River mill are certified to the Sustainable Forest Initiative (SFI®) standards for forest management and fiber sourcing. Mercer Peace River also maintains Chain-of-Custody certification to the PEFC and FSC® standards, meeting customer demand for certified pulp produced from sustainable sources.

Mercer Peace River's approach to sustainable forest management and wood sourcing is guided by the following principles:

- Legal and regulatory compliance in wood harvesting and purchasing
- Building long-term supplier relationships
- Respectful collaboration with small landowners and Indigenous communities
- Prioritizing worker safety and minimizing the carbon footprint

Furthermore, we ensure that fiber is not sourced from:

- Illegally harvested wood
- Wood harvested in violation of traditional and human rights
- Wood from forests in which high conservation values are threatened by management activities
- Wood harvested in forests being converted to plantations or non-forest use
- Wood from forests in which genetically modified trees are planted

FOOD GRADE CERTIFICATIONS

Mercer Peace River's hardwood and softwood pulps are tested by independent labs to ensure they meet Food Grade Standards, including US FDA and European Standards (ISEGA) EC No. 1935/2004.

MITIGATING CLIMATE CHANGE

Mercer Peace River is committed to reducing its GHG emissions intensity through continuous investment in technologies to improve energy efficiency, increase the usage of renewable fuels, and ensure full-fiber utilization. Mercer Peace River has made significant capital investments in renewable electricity generation.

In 2023, Mercer Peace River generated 377 GWh of renewable energy, which is enough to power 38,000 homes in the Peace River region.

As part of Mercer Peace River's commitment to sustainable operations and products, an annual company-wide Sustainability Report is published that demonstrates progress and achievements towards sustainability goals. Read the full report at mercerint.com/sustainability/

SCIENCE BASED TARGETS INITIATIVE (SBTi)

Responding to the SBTi's urgent call for corporate climate action, Mercer International has set science-based GHG emissions reduction targets that have been validated by the SBTi.

COMPLIANCE WITH INTERNATIONAL STANDARDS

Mercer Peace River pulp is fully compliant with the requirements of the US Lacey Act, the EU Timber Regulations, the EU Deforestation Regulation and the EU REACH Regulation.

