



File: PE-07772

REGISTERED

July 31, 2003

**Slocan Forest Products Ltd.
Taylor Pulp Division
8300 Cherry Avenue East
Taylor BC V0C 2K0**

Attention: Darren Guliov

Dear Darren:

Re: PERMIT AMENDMENT FOR PE-07772

As per the email request from Joel Yuen of Slocan Forest Products Ltd., Taylor Pulp Division, dated July 31, 2003 and in accordance with Section 13 of the *Waste Management Act*, Permit PE-07772 (dated December 29, 2000) is hereby amended so that the temperature limit in section 1.1.2 now reads:

Parameter	Allowable Limit	Units
Maximum Temperature	40	°C

This decision may be appealed to the Environmental Appeal Board. Notice of the appeal must:

- 1) be in writing,
- 2) include the grounds for appeal,
- 3) be directed by registered mail or personally delivered to the Chair, Environmental Appeal Board, 4th Floor 836 Yates Street, Victoria B.C., V8V 1X5
- 4) be delivered within 21 days from the date notice of the decision is given, and
- 5) be accompanied by a fee of \$25, payable to the Minister of Finance and Corporate Relations.

Please attach this letter to the original permit. If you have any questions, please feel free to contact Lisa Barkowsky at 250-565-4168.

Yours truly,

Del Reinheimer, P.Eng.
Assistant Regional Waste Manager
Omineca-Peace Region

:lab

cc: Reg Marquardt, Fort St. John office



DATE: DEC 29 2000

REGISTERED MAIL

File: PE-7772

Fibreco Pulp Inc.
P.O. Box 330
TAYLOR BC V0C 2K0

Dear Permittee:

Enclosed is amended Permit PE-7772 issued under the provisions of the Waste Management Act. Your attention is respectfully directed to the conditions outlined in the Permit. An annual permit fee will be determined according to the Waste Management Permit Fees Regulation.

This Permit does not authorise entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority shall rest with the Permittee. The Permittee shall ensure that any discharge under this Permit meets the requirements of other regulatory agencies including, but not restricted to, Environment Canada and the Department of Fisheries and Oceans (Canada).

The administration of this Permit will be carried out by staff from our Regional Office located in Prince George, (telephone (250) 565-6451). Plans, data and reports pertinent to the Permit are to be submitted to the Environmental Protection office, 3rd Floor, 1011 Fourth Avenue, Prince George, British Columbia, V2L 3H9 and a copy of all plans, data and reports is to be submitted to the sub-Regional office at Room #400, 10003 - 110th Avenue, Fort St. John, British Columbia, V1J 6M7 (telephone (250) 787-3392).

This decision may be appealed to the Environmental Appeal Board. Notice of the appeal must (1) be in writing, (2) include the grounds for appeal, (3) be directed by registered mail or personally delivered to the Chair, Environmental Appeal Board, 4th Floor 836 Yates Street, Victoria B.C., V8V 1X5 (4) be delivered within 30 days from the date notice of the decision is given, and (5) be accompanied by a fee of \$25, payable to the Minister of Finance and Corporate Relations.

Yours truly,

D.C. Reinheimer, P.Eng.
Assistant Regional Waste Manager
Omineca-Peace Region

enclosure

**Ministry of
Environment,
Lands and Parks**

Pollution Prevention
Environment and Lands
Omineca-Peace Region

Mailing Address:
325 - 1011 Fourth Avenue
PRINCE GEORGE BC V2L 3H9

Telephone: (250) 565-6451
Facsimile: (250) 565-6629



Pollution Prevention
1011 Fourth Avenue
Prince George
British Columbia V2L 3H9
Telephone: (250) 565-6155
Fax: (250) 565-6629

MINISTRY OF ENVIRONMENT,
LANDS AND PARKS

PERMIT
PE-7772

Under the Provisions of the Waste Management Act

Fibreco Pulp Inc.

P.O. Box 330

Taylor, BC

V0C 2K0

is authorized to discharge effluent to the water from a **bleached chemi-thermomechanical pulp (BCTMP) mill** located in Taylor, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the Waste Management Act and may result in prosecution.

This permit supersedes and amends all previous versions of Permit PE-7772, issued under Part 2 Section 10 of the Waste Management Act.

1. **AUTHORIZED DISCHARGES**

1.1 This subsection applies to the discharge of effluent from the operation of a **BLEACHED CHEMI-THERMOMECHANICAL PULP MILL**. The site reference number for this discharge is E207727.

1.1.1 The maximum authorized rate of discharge is 21,000 m³/d.

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Assistant Regional Waste Manager

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- 1.1.2 Subject to subsection 2.7, below, the characteristics of the discharge shall be equivalent to or better than the following quality:

Parameter	Allowable Limit	Units
Monthly Average BOD ₅	(7.5) (PROD/EFF) (1000)	mg/L
Daily Maximum BOD ₅	(7.5) (PROD/EFF) (1000)	mg/L
Monthly Average TSS	(11.25) (PROD/EFF) (1000)	mg/L
Daily Maximum TSS	(18.75) (PROD/EFF) (1000)	mg/L
Maximum Temperature	38	°C
pH range	6.5 to 8.5	std. pH units
96 hr LC ₅₀ Toxicity	50% mortality, 100% Effluent Concentration (V _v)	

- 1.1.5 The authorized works are in-plant chemical and fibre recovery facilities, out-plant treatment facilities consisting of a primary mechanical clarifier, secondary mechanical clarifier, emergency chemical containment pond, equalization and cooling pond, aerated lagoon, package sewage treatment plant, submerged outfall and diffuser and related appurtenances.

- 1.1.6 The location of the facilities from which the discharge originates is the SW¹/₄, Section 31 and the NW¹/₄, Section 30, Township 82, Range 17, W6M, Peace River District.

- 1.1.7 The location of the point of discharge is within the Peace River adjacent to the NW¹/₄, Section 30, Township 82, Range 17, W6M, Peace River District.

2. GENERAL REQUIREMENTS

2.1. Maintenance of Works and Emergency Procedures

The permittee shall inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the permittee, which prevents continuing operation of the approved method of pollution control, the permittee shall take appropriate remedial action immediately and notify the Regional Waste Manager immediately.


2.2. Bypasses

The discharge of effluent which has bypassed the designated treatment works is prohibited unless the approval of the Regional Waste Manager is obtained and confirmed in writing. The equalization basin is not considered part of the designated treatment works.

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Assistant Regional Waste Manager

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2.3. Process Modifications

The permittee shall notify the Regional Waste Manager, in writing, prior to implementing changes to the authorized works or to any process that may affect the quality and/or quantity of the discharge.

2.4. Foam

Should objectionable amounts of foam, attributable to the effluent, occur on the receiving waters, measures may be required either to eliminate the cause of the foam or to eliminate the foam by additional treatment.

2.5. Colour

Should colour, attributable to the effluent, become an objectionable feature in the receiving waters, additional treatment shall be provided to remove colour forming constituents from the effluent prior to discharge when so directed in writing by the Regional Waste Manager.

2.6. Nutrients

Should nutrients be added to increase the efficiency of any biological treatment system, the quantity of nutrient shall be so controlled that excess nutrients are not discharged to the receiving waters. The ratio of BOD:N:P shall be recorded and data kept available for inspection.

2.7. Production and Flow - Compliance Calculation

2.7.1. For the purpose of determining compliance, "EFF" means the 90th percentile of the discharge rate of effluent, expressed as cubic metres per day (m^3/d) discharged from the pulp mill, determined from a minimum of 100 consecutive days of pulp production using statistical methods and consecutive days approved by the manager; "PROD" means the 90th percentile of the daily production rate of the pulp mill, expressed as ADt, determined by the use of statistical methods approved by the manager, during the same days used as the basis for calculating EFF; and "ADt" means an air dry tonne of pulp product where the weight of the pulp product is corrected to reflect the weight that the pulp product would be if the pulp were composed of 10% water and 90% fibre.

2.7.2. Ninetieth (90th) percentile PROD and EFF shall be calculated at the end of each month for the preceding 100 consecutive days of pulp production. The calculated PROD and EFF will be used to determine compliance in the subsequent month.



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Assistant Regional Waste Manager

3. MONITORING AND REPORTING REQUIREMENTS

3.1. Discharge Monitoring

3.1.1. Sampling and Analysis

The permittee shall sample and analyze the effluent outfall for the specified parameters as follows:

Parameter	Frequency	Sample Type
BOD ₅ - five day biochemical oxygen demand (mg/L)	three times/week	grab
TSS (total suspended solids) (mg/L)	five times/week	grab
VSS (volatile suspended solids) (mg/L)	once/week	24 hour composite
Toxicity (96 hour LC ₅₀) % mortality 100% effluent concentration by volume	once/month	grab
Effluent Temperature °C	daily	continuous records
pH (standard units)	daily	continuous records
Oxygen (dissolved) (mg/L)	three times/week	grab
Nitrate (mg/L)	once/week	grab
Resin Acids (mg/L)	once/week	grab (simultaneously with the toxicity sample)
Ammonia (as N) (mg/L)	once/week	grab
Nitrite (as N) (mg/L)	once/week	grab
Total Phosphorus (mg/L as P)	once/month	grab
Total Phosphorus - dissolved (mg/L as P)	once/week	grab
Colour mg/L SWU 465 nm	once/month	24 hour composite
Orthophosphorous (as P) (mg/L)	once/week	grab
Phenols (mg/L)	once/week	grab

3.1.2. Flow Measurement

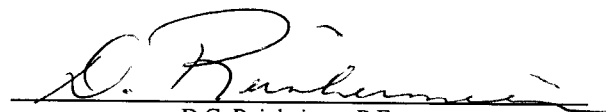
Provide and maintain a suitable flow measuring device and record once per day the effluent volume discharged over a 24-hour period.

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3.1.3. Minimum Detection Levels for Analyses

The permittee must perform analyses on samples identified in Section 3.1.1 to the following detection levels.

Parameter	Detection Limit
BOD ₅	N/A
Total suspended solids	2 mg/L
Volatile suspended solids	2 mg/L
Toxicity	N/A
Nitrate N	0.03 mg/L
Total resin acid soap	N/A
Ammonia N	0.05 mg/L
Nitrite N	0.03 mg/L
Total phosphorous	0.03 mg/L
Total dissolved phosphorous	0.03 mg/L
True colour	N/A
O-phosphorous	0.03 mg/L
Phenols	0.002 mg/L

3.1.4. Outfall Sampling Locations

The characteristics of the effluents defined in subsection 1, above are applicable to the effluent quality at a sampling site, the location of which has the mutual agreement of the permittee and the Regional Waste Manager and provides samples which are representative of the effluent discharged to the Peace River.

Samples for all tests to determine characteristics of effluent shall be taken from the main outfall structure.

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3.1.5. Receiving Water Monitoring

The permittee shall monitor the receiving water quality and carry out chemical, physical and biological studies on the receiving environment as required by the Regional Waste Manager. This program may be drawn up in such a manner as to include other similar major discharges in the area and with the participation of other dischargers.

A summary of the results of the program, including an interpretation of the effect on the receiving waters and environment, is to be submitted in a form, which is suitable for release to the public. The data from the program will also be reviewed periodically by the Regional Waste Manager to determine cause and effect relationships and to facilitate modifications to the program's content and frequency as indicated by the data collected.

The frequency of subsequent studies will be determined by the Regional Waste Manager following evaluation of each preceding study.

3.2. Monitoring Procedures

3.2.1. Timing of Samples

All samples requiring collection on a weekly frequency shall be collected at the same time. Similarly, all samples, which require monthly collection, shall be taken at the same time, which should also coincide with the weekly sampling event.

3.2.2. General Sampling Methods

Sampling shall be carried out in accordance with the procedures described in "British Columbia Field Sampling Manual for Continuous Monitoring plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment and Biological Samples, 1996 Edition (Permittee)", November 1996, 312 pp., or by suitable alternative procedures as authorized by the Regional Waste Manager

3.2.3. Specific Sampling Methods

Sampling methods for compliance determination and scientific sampling method evaluation for the parameters including TSS, BOD₅, Toxicity, Effluent Flow Rate and Effluent Temperature, shall be carried out as specified in the most recent "Pulp Mill and Pulp and Paper Mill Liquid Effluent Control Regulation".

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3.2.4. Analysis

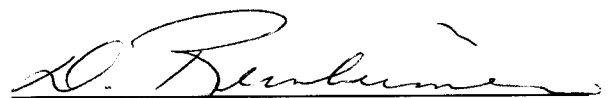
Analysis shall be carried out in accordance with the procedures described in "British Columbia Environmental Laboratory Manual for the analysis of Water, Wastewater, Sediment and Biological Materials, 1994 Edition (Permittee)", March 1994, or by suitable alternative procedures as authorized by the Regional Waste Manager.

3.3. Quality Assurance Program

3.3.1. General Quality Assurance Requirements

In order to monitor the quality of effluent and receiving water data, the permittee is required to conduct an ongoing data quality program as follows:

- 3.3.1.1. Obtain laboratory precision, accuracy and blank quality criteria for each laboratory analyzed chemical parameter from the permittee's analytical laboratory(ies). Keep these criteria available and current.
- 3.3.1.2. For these parameters, in both effluent and receiving environment samples, the permittee shall obtain from the analytical laboratory(ies) the precision and accuracy data for each sample set submitted. For receiving environment parameters the permittee shall obtain the bottle blank data to document the acceptability of the cleaned bottles. The permittee shall also obtain from the laboratory(ies) an evaluation of the data acceptability from each sample set, based on these criteria.
- 3.3.1.3. Duplicate sampling shall be used to assess the combined field and laboratory precision. This precision criteria (expressed as percent standard deviation) for each of the duplicate samples shall be no greater than twice the laboratory precision criterion.



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Assistant Regional Waste Manager

3.3.1.4. To assess overall precision, the permittee shall, every quarter during regular effluent sampling, collect each duplicate sample in a similar manner, and as close to the same time as possible. These duplicates shall be submitted to the laboratory(ies); one identified as the regular sample and the other, a blind sample, identified by a fictitious site and time. The sites from which duplicate samples are taken shall be locations where concentrations of the main parameters are expected to be detected (to enable calculation of the relative standard deviation).

3.3.1.5 For receiving environment sampling, a sample collection blank shall be prepared, containing distilled water and preservative, if required, and submitted as a blind sample with sample sets as directed by the Regional Waste Manager.

3.4. Reporting

The permittee shall maintain information, analytical data and flow data for inspection by Pollution Prevention staff. The permittee shall submit a monitoring report containing results calculated in accordance with subsection 1.1.3., above, and all results of analysis for samples collected in accordance with the requirements of sub-sections 3.1.1., above, to the Regional Pollution Prevention office within 30 days of the month end in which the sampling was conducted.

The data-reporting format shall be to the satisfaction of the Regional Waste Manager. The reporting frequency may be changed, if so instructed in writing by the Regional Waste Manager.

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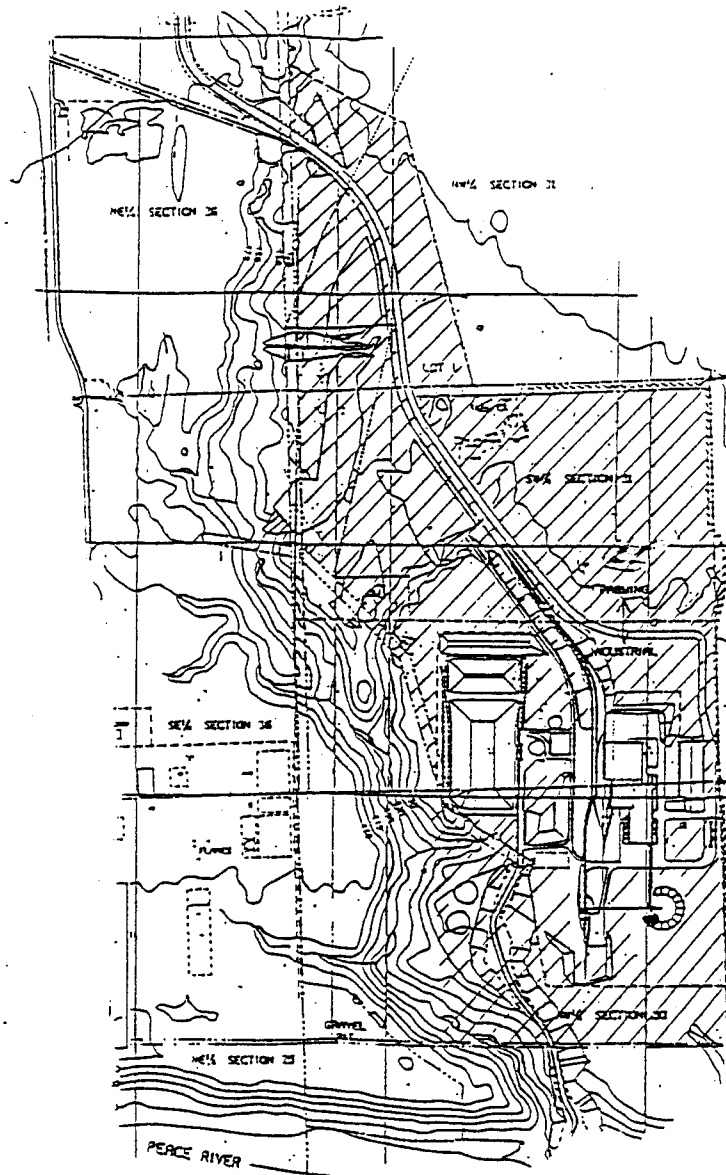
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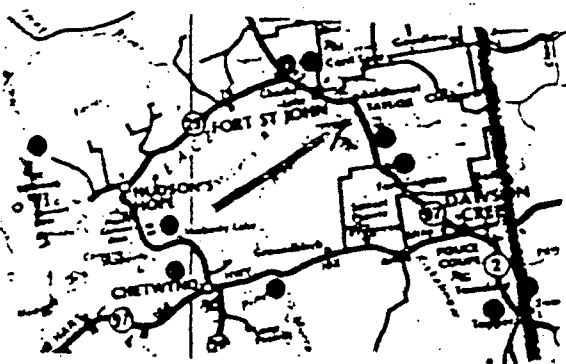
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SITE PLAN A



Location Map



Scale: Not to Scale

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