DISCLAIMER

The full text of certain NPDES permits and the associated fact sheets has been made available to provide online access to this public information. EPA is making permits and fact sheets available electronically to provide convenient access for interested public parties and as a reference for permit writers. The ownership of these documents lies with the permitting authority, typically a State with an authorized NPDES program.

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Please contact the appropriate permitting authority (either a State or EPA Regional office) prior to acting on this information to ensure you have the most up-to-date permit and/or fact sheet. EPA recognizes the official version of a permit or fact sheet to be the version designated as such and appropriately stored by the respective permitting authority.

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ME 000 2526

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

MARTHA KIRKPATRICK
COMMISSIONER

December 19, 2001

Rec'd 1/2/02

Michael Noble
Robinson Manufacturing Company
P.O. Box 195
Oxford, ME 04270

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit #ME0002526
Maine Waste Discharge License (WDL) Application #W000612-5N-F-M
Final Permit/License Modification

Dear Mr. Noble:

Enclosed please find a copy of your **final** MEPDES permit and Maine WDL **modification** which was approved by the Department of Environmental Protection. This permit/license for your facility supersedes National Pollutant Discharge Elimination System (NPDES) permit #ME0002526, last issued to your facility by the Environmental Protection Agency (EPA) on March 30, 1999. Please read the permit/license and its attached conditions carefully. You must follow the conditions in the order to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State Law and is subject to enforcement action.

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision.*"

If you have any questions regarding this matter, please feel free to call me at 287-7693.

Sincerely,

Gregg Wood
Division of Water Resource Regulation
Bureau of Land and Water Quality

Enc.
cc: Stuart Rose, DEP/SMRO
David Cochrane, USEPA
Susann Nachmann, USEPA

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE HOUSE STATION 17 AUGUSTA, MAINE 04333

DEPARTMENT ORDER

IN THE MATTER OF

ROBINSON MANUFACTURING COMPANY	)	MAINE POLLUTANT DISCHARGE
OXFORD, OXFORD COUNTY, MAINE	)	ELIMINATION SYSTEM PERMIT
TEXTILE MANUFACUTURING		
ME0002526	)	AND
W000612-5N-F-M **APPROVAL**	)	WASTE DISCHARGE LICENSE
	)	**MODIFICATION**

Pursuant to the provisions of the Federal Water Pollution Control Act, Title 33 USC, Section 1251, et seq. and Maine Law, 38 M.R.S.A., Section 414-A et Seq., and applicable regulations, the Department of Environmental Protection has considered the application of the ROBINSON MANUFACTURING COMPANY (RMC), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

The applicant has applied for modification of Department Waste Discharge License (WDL) #W000612-5N-E-M, which was issued on December 10, 1998 and is due to expire on December 10, 2003. The WDL approved a monthly average discharge of 0.50 million gallons per day (MGD) of treated process and sanitary waste water, and 0.20 MGD of cooling waters from a woolen mill to the Thompson Lake Outlet Stream (TLOS), Class C in Oxford, Maine. The permittee has requested the Department modify the WDL to incorporate the terms and conditions of the Maine Pollutant Discharge Elimination System (MEPDES) Program.

On January 12, 2001, the Department received authorization from the Environmental Protection Agency (EPA)to administer the National Pollutant Discharge Elimination System (NPDES) program in Maine. From this point forward, the program will be referenced as the Maine Pollutant Discharge Elimination System (MEPDES) Program.

PERMIT SUMMARY

This permit carries forward all terms and conditions of the December 10, 1998, WDL and the September 23, 1999, modification with the following exceptions:

1. Removal of the limitations (3%) for the water flea and fathead minnow.

2. Removal of the weekly average limit of 0.1 ml/L for settleable solids.

3. Removal of Special Condition C requiring the submission of a toxicity reduction evaluation (TRE).

CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated August 20, 2001, and revised on November 29, 2001 and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.

2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water which the Department expects to adopt in accordance with the state law.

3. The provisions of the State's antidegradation policy, 38 M.R.S.A., Section 464(4)(F), will be met in that:

   a. Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;

   b. Where high quality water of the State constitute an outstanding national resource, that water quality will be maintained and protected;

   c. The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;

   d. Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification, that higher water quality will be maintained and protected; and

   e. Where a discharge will result in lowering the existing quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.

4. The discharge will be subject to effluent limitations that require application of best practicable treatment.

ACTION

THEREFORE, the Department APPROVES the above noted application of the ROBINSON MANUFACTURING COMPANY, to discharge a monthly average of 0.50 million gallons per day (MGD) of treated process and sanitary waste water, and 0.20 MGD of cooling waters to the Thompson Lake Outlet Stream, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

1. "Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits," revised January 16, 2001, copy attached.

2. The attached Special Conditions, including any effluent limitations and monitoring requirements.

3. The expiration date of the current license is December 10, 2003.

DONE AND DATED AT AUGUSTA, MAINE, THIS 18 DAY OF December, 2001.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA KIRKPATRICK, Commissioner

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: August 1, 2001.

Date of application acceptance: August 3, 2001.

FILED
DEC 19 2001
BOARD OF ENVIRONMENTAL PROT.
STATE OF MAINE

Date filed with Board of Environmental Protection _____

This order prepared by Gregg Wood, BUREAU OF LAND AND WATER QUALITY
W06125nf 11/29/01

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning effective date and lasting through permit expiration, the permittee is authorized to discharge treated process and sanitary waste waters from **Outfall 001** to the Thompson Lake Outlet Stream. Such discharges shall be limited and monitored by the permittee as specified below.

Effluent Characteristic	Discharge Limitations						Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
	Mass			Concentration				
Flow (MGD)	0.50 MGD	---	0.60 MGD	---	---	---	Continuous	Recorder
BOD	290 lbs/day	---	500 lbs/day	---	---	---	2/Week	Composite
TSS	400 lbs/day	---	600 lbs/day	---	---	---	2/Week	Composite
COD	2,000 lbs/day	---	3,000 lbs/day	---	---	---	1/Week	Composite
Total Chromium	2.3 lbs/day	---	4.6 lbs/day	0.83 mg/L	---	1.38 mg/L	1/Quarter	Composite
Total Phenols	2.3 lbs/day	---	4.6 lbs/day	---	---	---	1/Quarter	Grab
Total Sulfides	4.6 lbs/day	---	9.2 lbs/day	---	---	---	1/Quarter	Grab
Settleable Solids	--	---	---	---	---	0.3 ml/L	5/Week	Grab
Total Phosphorus	---	---	---	---	---	Report mg/L	1/Month	Grab
Temperature Diff. (1)	---	---	---	---	$\Delta T=0.5^0F$ (2)	---	1/Day	Calculate
Temperature – Effluent	--	---	---	---	Report ^0F	90 ^0F	1/Day	Grab
Temperature – TLOS (1)	---	---	---	---	Report ^0F	Report ^0F	1/Day	Grab
Thermal Load	---	---	---	---	---	67.4EE6 BTU's/Day (3)	1/Day	Calculate

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

1. During the period beginning effective date and lasting through permit expiration, the permittee is authorized to discharge treated process and sanitary waste waters from **Outfall 001** to the Thompson Lake Outlet Stream. Such discharges shall be limited and monitored by the permittee as specified below.

Effluent Characteristic	Discharge Limitations						Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
	Mass			Concentration				
Benzo(K)Fluoranthene	0.0005 lbs/day	---	---	0.21 ug/L (4)	---	---	1/Year	Composite
Chemical Specific (5)	---	---	---	---	---	Report ug/L	1/Year	Grab / Composite
Whole Effluent Toxicity(6)								
A-NOEL								
Ceriodaphnia dubia	---	---	---	---	---	Report %	1/Year	Composite
Pimephales promelas	---	---	---	---	---	Report %	1/Year	Composite
Savelinus fontinalis	---	---	---	---	---	Report %	1/Year	Composite
C-NOEL								
Ceriodaphnia dubia	---	---	---	---	---	Report%	1/Year	Composite
Pimephales promelas	---	---	---	---	---	Report%	1/Year	Composite
Savelinus fontinalis	---	---	---	---	---	Report %	1/Year	Composite
pH	---	---	---	---	---	6.0-8.5 S.U	1/Day	Grab

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

2. During the period beginning effective date and lasting through permit expiration, the permittee is authorized to discharge non-contact cooling waters from **Outfall 002** to the Thompson Lake Outlet Stream. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations		Monitoring Requirements	
	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow				
Oct 1 – May 31	---	0.20 MGD	1/Month	Estimate
June 1 – Sept 30	---	0.20 MGD	1/Day	Estimate
Temperature Diff. (1)	$\Delta T=0.5^0F$ (2)	---	1/Day	Calculate
Temperature	Report ^0F	90^0F	1/Day	Grab
Thermal Load	---	67.4EE6 BTU's/Day (3)	1/Day	Calculate
pH – Standard Units	---	6.0-8.5 S.U.	1/Month	Grab

The discharge shall contain only non-contact cooling waters to which nothing has been added but heat.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

1. The calculated temperature difference limitations apply to the total thermal load from Outfall 001 and 002 combined. See Special Condition F of this permit for calculation requirements.

2. A weekly rolling average limitation is in effect between June 1 and September 30 of each calendar year. For Discharge Monitoring Report (DMR) reporting purposes, report the highest seven (7) day temperature difference during a calendar month. See Special Condition F.

3. A daily maximum limitation that is only in effect when the TLOS temperature is $\geq 73^0$F. For DMR reporting purposes, report the highest daily thermal load (expressed in BTU's/Day) during a calendar month. See Special Condition F.

4. Compliance based on the Department's "Reporting Limit" of 3 ug/L. All analytical test results shall be reported to the Department including results which are detected at or below the RL of 3 ug/L. It is noted that should analytical test methods be revised such that a lower RL is established, this permit will be re-opened per Special Condition C to establish a new RL. Until such time, the permittee shall report Benzo (K)Fluoranthene values as follows:

   Detectable results: All detectable analytical test results shall be reported to the Department including results which are detected below the RL of 3 ug/L. If the concentration result is at or above 3 ug/L, the concentration shall be reported at that level and the mass shall be calculated using the concentration detected and the actual flow rate associated with the sampling period. The numeric value calculated shall be entered into the mass column. If the concentration result is less than the RL of 3 ug/L, the permittee shall enter <0.0005 in the column for mass.

   Non-detectable results - If the analytical test result is below 3 ug/L, the concentration result shall be reported as <X where X is the detection level achieved by the laboratory for that test. Reporting a value of <X where X is greater than 5 ug/L is unacceptable and will be rejected by the Department. Because the mass can not be calculated using a concentration reported at <X, the permittee shall enter <0.0005 in the column for mass.

5. Priority Pollutants are those listed by the USEPA pursuant to Section 307(a) of the Clean Water Act and published at 40 CFR, Part 122, Appendix D, Tables II and III. **Beginning the effective date of this permit, surveillance level chemical specific testing shall be conducted once per year in any calendar quarter. Beginning twelve months prior to the expiration date of this permit, the permittee shall initiate screening level chemical specific tests at a frequency of once per calendar quarter for four consecutive calendar quarters.**

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

6. Definitive WET testing is a multi-concentration testing event (a minimum of five dilutions that bracket the critical dilutions of acute – 3.6%, chronic- 3%), which provides a point estimate of toxicity in terms of No Observed Effect Level, commonly referred to as NOEL or NOEC. A-NOEL is defined as the acute no observed effect level with survival as the end point. C-NOEL is defined as the chronic no-observed effect level with survival, reproduction and growth as the end points.

   Beginning the effective date of the permit, surveillance level WET testing shall be conducted once per year in any calendar quarter using two species, the water flea (Ceriodaphnia dubia) and the fathead minnow (Pimephales promelas). Acute NOEL values associated with each chronic test must be submitted. Results shall be reported as soon as they become available, but in no case later than the 15th day of the month following the end of the quarter.

   Beginning twelve months prior to the expiration date of this permit, the permittee shall initiate screening level WET tests at a frequency of once per quarter for four consecutive calendar quarters Testing shall be conducted on the water flea (Ceriodaphnia dubia) and the fathead minnow (Pimephales promelas) in two of the four calendar quarters and conducted on the water flea (Ceriodaphnia dubia) and the brook trout (Salvelinus fontinalis) in the remaining two of the four calendar quarters. Results shall be reported as soon as they become available, but in no case later than the 15th day of the month following the end of the quarter.

   Toxicity tests must be conducted by an experienced laboratory approved by the Department. The laboratory must follow procedures as described in the following U.S.E.P.A. methods manuals.

   a. Lewis, P.A. et al., Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Water to Freshwater Organisms, Third Edition, July 1994 EPA/600/4-91/002.

   b. Weber, C.I. et al., Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Freshwater and Marine Organisms, Fourth Edition, August 1993 EPA/600/4-90/027F.

   The permittee is also required to analyze the effluent for the parameters specified in the analytic chemistry on the form in Attachment A of this permit each and every time a WET test is performed.

B. NARRATIVE EFFLUENT LIMITATIONS FOR ALL OUTFALLS

1. The effluent shall not contain a visible oil sheen, foam, or floating solids at any time.

2. The effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life; or which would impair the usages designated by the classification of the receiving waters.

3. The discharge shall not impart color, taste, turbidity, toxicity, radioactivity or other properties which cause those waters to be unsuitable for the designated uses and characteristics ascribed to their class.

4. Notwithstanding specific conditions of this permit, the effluent must not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.

C. REOPENER CLAUSE

Upon evaluation of test results required by Special Condition A of this permit, new site specific information or any other pertinent information gathered during the term of this permit, the Department may, at anytime and with notice to the permittee, modify this permit to: (1) include effluent limits necessary to control specific pollutants or whole effluent toxicity where there is a reasonable potential that the effluent may cause water quality criteria to be exceeded: (2) require additional monitoring if results on file are inconclusive; or (3) change monitoring requirements or limitations based on new information.

D. MONITORING AND REPORTING

The results of the monitoring requirements shall be reported on forms approved by the Department in the units specified at a frequency of once monthly in accordance with the attached Standard Conditions and directed to:

Department of Environmental Protection
Central Maine Regional Office
Bureau of Land and Water Quality
State House Station #17
Augusta, Maine 04333

E. TREATMENT PLANT OPERATOR

The treatment facility must be operated by a person holding a **Grade III** certificate pursuant to Title 38 M.R.S.A., Section 4171 et Seq. All proposed contracts for facility operation by any person must be approved by the Department before the permittee may engage the services of the contract operator.

F. TEMPERATURE DIFFERENCE/THERMAL LOAD

Between June 1 and September 30 of each year, the weekly average calculated temperature difference (predicted river temperature increase) for Outfalls 001 and 002 combined, is in effect.

Between June 1 and September 30 of each year, The Qe, Qr, Te and Tr shall be recorded on a daily basis. The daily recorded and calculated values shall be reported to the Department as an attachment to the Discharge Monitoring Reports (DMR's) for the month of June, July, August and September of each year. The temperature difference (predicted river temperature increase) shall be calculated as follows:

$$PRTI = \frac{[(Qe_{001})(Te_{001}-Tr) + (Qe_{002})(Te_{002}-Tr)}{Qr}$$

PRTI = Predicted River Temperature Increase

Qe = Effluent flow in MGD from the applicable outfall.
Qr = River flow in MGD.
Te = Effluent Temperature in °F from the applicable outfall.
Tr = Upstream River Water Temperature in °F.

Qr – (River Flow in MGD) shall be measured by the staff gauge located on the north shore of TLOS on the upstream side of the King Street Bridge at the site of the former USGS gauge location. The staff gauge was calibrated in calendar year 2000 by the RMC and Acheron Inc.

Tr – (Upstream River Water Temperature) shall be measured at the TLOS dam, after the process water gate but before the lake water intake tank.

When the temperature of the TLOS is $\geq$73 °F, the permittee will be limited to a thermal load of 67.4 x 10^6 BTU's/Day. The permittee shall calculate the thermal load in accordance with the following equation:

$$BTU's/Day = [(Qe_{001})(Te_{001} - Tr) + (Qe_{002})(Te_{002} - Tr)]\ (8.34\ lb/gal)$$

Qe = Effluent flow in gallons per day from the applicable outfall.
Qr = River flow in MGD.
Te = Effluent Temperature in °F from the applicable outfall.
Tr = Upstream River Water Temperature in °F.

G. NOTIFICATION REQUIREMENT

In accordance with Standard Condition D, the permittee shall notify the Department of the following:

1. Any substantial change in the volume or character of pollutants being introduced into the waste water collection and treatment system.

2. For the purposes of this section, adequate notice shall include information on:

   a. The quality and quantity of waste water introduced to the waste water collection and treatment system; and

   b. Any anticipated change in the quality or quantity of the waste water to be discharged from the treatment system.

H. UNAUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from Outfalls 001 and 002. All other discharges are not authorized under this permit, but shall be reported in accordance with Standard Condition B(5)(Bypass) of this permit.

ATTACHMENT A

ANALYTICAL CHEMISTRY RESULTS
FRESHWATER TESTS

Date collected _____ mm/dd/yy

Date analyzed _____ mm/dd/yy

Lab ID No. _____

Analyte	Report Units	Results receiving water	Results effluent	Detection level	Method
Alkalinity	mg/L			mg/L	
Ammonia nitrogen	µg/L			µg/L	
Specific conductance	µmhos			µmhos	
Total residual chlorine	mg/L			mg/L	
Total organic carbon	mg/L			mg/L	
Total solids	mg/L			mg/L	
Total suspended solids	mg/L			mg/L	
Total aluminum	µg/L			µg/L	
Total cadmium	µg/L			µg/L	
Total calcium	mg/L			mg/L	
Total chromium	µg/L			µg/L	
Total copper	µg/L			µg/L	
Total hardness	mg/L			mg/L	
Total lead	µg/L			µg/L	
Total magnesium	µg/L			µg/L	
Total nickel	µg/L			µg/L	
Total zinc	µg/L			µg/L	
other (pH)	S.U.			S.U.	
other ( )					

Comments _____

Laboratory conducting test. To the best of my knowledge this information is true, accurate, and complete

signature _____ lab name _____

printed name _____ address _____

tel. no. _____

FR WATER WHOLE EFFLUENT TOXICITY (WE EST REPORT

Facility _____ DEP License No _____ NPDES permit No _____

Contact person _____ Telephone No _____

Date initially sampled _____ (mm/dd/yy) Date tested _____ (mm/dd/yy) Chlorinated? _____

Test type screening _____ surveillance _____ Dechlorinated? _____

Results % effluent Test required by: DEP/EPA _____

	Water flea	Trout	Fathead
LC50			
A-NOEL			
C-NOEL			

Receiving Water Concentration

A-NOEL	
C-NOEL	

Data summary

	water flea			tro ut			fat head		
	% survival		no. young	% survival		final wt (mg)	% survival		final wt (mg)
QC standard	A>90	C>80	>15/female	A>90	C>80	>2% increase	A>89	C>79	>0.25
lab control									
river water control									
conc. 1 (%)									
conc. 2 (%)									
conc. 3 (%)									
conc. 4 (%)									
conc. 5 (%)									
conc. 6 (%)									
stat test used									

place * next to values statistically different from controls for trout show final wt and % incr for both controls

Reference toxicant

	water flea		tro ut		fat head	
	LC50/A-NOEL	C-NOEL	LC50/A-NOEL	C-NOEL	LC50/A-NOEL	C-NOEL
toxicant / date						
limits (mg/l)						
results (mg/l)						

Comments _____

Laboratory Conducting Test. To the best of my knowledge this information is true, accurate, and complete

signature _____ company _____

printed name _____ address _____

tel. no. _____

Report analytical chemistry on reverse side.