

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Federal Clean Water Act as amended: (33 U.S.C. §§1251 et seq.; the "CWA" and the Massachusetts Clean Water Act, as amended, (M.G.L. Chap.21, sec. 26-53)

Ferraz Shawmut Incorporated
374 Merrimac Street
Newburyport, MA 01950

is authorized to discharge from facilities located at

374 Merrimac Street
Newburyport, MA 01950

to receiving waters named Merrimack River in Merrimack Watershed; (State Code 84)

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective 60 days from the date of signature.

This permit and the authorization to discharge expire at midnight, four (4) years from the date of issuance.

This permit supersedes the permit issued on September 18, 1997.

This permit consists of 6 pages in Part I including effluent limitations, monitoring requirements, etc., Attachment A, Freshwater Acute Toxicity Test Procedure and Protocol; and 35 pages in Part II including General Conditions and Definitions.

Signed this 30th day of September, 2002

Signature on File
Linda Murphy, Director
Office of Ecosystem Protection
US Environmental Protection Agency
Boston, MA

Glenn Haas, Director
Division of Watershed Management
Department of Environmental Protection
Commonwealth of Massachusetts
Boston, MA

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date and lasting through the expiration date the permittee is authorized to discharge from outfall serial number 001, treated process wastewater.

a. Such discharges, upon becoming active, shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Average Monthly</u>	<u>Max. Daily</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow, GPD	20000	30000	Continuous	Daily Total
Zinc, total, mg/l	1.48	2.61	1/Month	Composite ¹
Copper, total, mg/l	2.07	3.38	1/Month	Composite ¹
Total Suspended Solids, mg/l	20	30	1/Month	Composite ¹
Oil & Grease, mg/l	---	15	1/Month ⁵	Grab
Total Toxic Organics, mg/l	---	2.13	Quarterly ²	Grab
pH, S.U.	see A.1.b		1/Month	Grab
<u>Whole Effluent Toxicity Testing</u> LC50 ³	---	>50	2/Year ⁴	Composite

(See page 3 for Footnotes)

Sampling Location : Sampling shall be taken at Polish Tank after pH adjustment.

Footnotes:

1. Composite samples will be comprised of twenty four grab samples taken in 15 minutes intervals during a daily production schedule.
2. See Page 5 for TTO Definition and requirements. At a minimum, the permittee shall test for the following pollutants listed in the application which are used in its facility and may be present in a product, by-product or an intermediate: Chloroform, Bis (2-ethylhexyl) phthalate, Butyl benzyl phthalate, Bromodichloromethane and Dibromochloromethane. List the value of each item separately with total TTO value in the DMR.
3. LC50 is defined as the concentration of effluent that causes mortality to 50% of the test organisms.
4. The permittee shall conduct acute toxicity tests two times per year. The permittee shall test the Mysid shrimp and Inland silverside. Toxicity test samples shall be collected during the second week of the months of April and October. The test results shall be submitted by the last day of the month following the completion of the test. The results are due May 31st and November 30th, respectively. The tests must be performed in accordance with test procedures and protocols specified in **Attachment A** of this permit.

Test Dates Second week in	Submit Results By:	Test Species	Acute Limit LC ₅₀	Chronic Limit C-NOEC
April October	May 31 st November 30 th	Mysid shrimp Inland silverside See Attachment A	≥ 50%	N/A

After submitting **two years** and a **minimum** of **four** consecutive sets of WET test results, all of which demonstrate compliance with the WET permit limits, the permittee may request a reduction in the WET testing requirements. The permittee is required to continue testing at the frequency specified in the permit until notice is received by certified mail from the EPA that the WET testing requirement has been changed.

If toxicity test(s) using receiving water as diluent show the receiving water to be toxic or unreliable, the permittee shall follow procedures outlined in **Attachment A Section IV., DILUTION WATER** in order to obtain permission to use an alternate dilution water. In lieu of individual approvals for alternate dilution water required in **Attachment A**, EPA-New England has developed a Self-Implementing Alternative Dilution Water Guidance document (called “Guidance Document”) which may be used to obtain automatic approval of an alternate dilution water, including the appropriate species for use with that water. If this Guidance document is revoked, the permittee shall revert to obtaining approval as outlined in **Attachment A**. The “Guidance Document” has been sent to all permittees with their annual set of DMRs and Revised Updated Instructions for Completing EPA’s Pre-Printed NPDES Discharge Monitoring Report (DMR) Form 3320-1 and is not intended as a direct attachment to this permit. Any modification or revocation to this “Guidance Document” will be transmitted to the permittees as part of the annual DMR instruction package. However, at any time, the permittee may choose to contact EPA-New England directly using the approach outlined in **Attachment A**.

5. Use EPA Method 1664 for Oil and Grease testing.

b. The pH shall not be less than 6.5 standard units nor greater than 8.5 standard units and not more than 0.2 units outside of the normally occurring range.

c. There shall be no discharge of floating solids, oil sheen or visible foam in other than trace amounts.

2. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 C.F.R. §122.21(g)(7); or

(4) That any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).

b. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"

(1) Five hundred micrograms per liter (500 ug/l);

(2) One milligram per liter (1 mg/l) for antimony;

(3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 C.F.R. §122.21(g)(7); or

(4) Any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).

c. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

3. This permit may be modified, or revoked and reissued, on the basis of new information in accordance with 40 C.F.R. §122.62.

4. The permittee shall abide by all existing sludge use and disposal regulations.

B. MONITORING AND REPORTING

1. Reporting

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report Form(s) postmarked no later than the 15th day of the month following the completed reporting period.

- a. Original signed of all Discharge Monitoring Reports, and all other reports required herein, shall be submitted to the Director at the following address:

Environmental Protection Agency
Water Technical Unit (SEW)
P.O. Box 8127
Boston, MA 02114

- b. One signed copy of all monitoring reports and all other reports shall be submitted to the State at:

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
Northeast Regional Office
205 Lowell Street
Wilmington, MA 01887

- c. Signed copies of toxicity test reports and all other notifications and reports required by this permit shall be submitted to the State at:

Massachusetts Department of Environmental Protection
Division of Watershed Management
Surface Water Discharge Permit Program
627 Main Street
Worcester, MA 01608

C. STATE PERMIT CONDITIONS

1. This Discharge Permit is issued jointly by the U. S. Environmental Protection Agency (EPA) and the Division of Water Pollution Control under Federal and State law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner the Massachusetts Department of Environmental Protection pursuant to M.G.L. Chap. 21, §43.

2. Each Agency shall have the independent right to enforce the terms and conditions of this Permit. Any modification, suspension or revocation of this Permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this Permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this Permit is declared, invalid, illegal or otherwise issued in violation of State law such permit shall remain in full force and effect under Federal law as an NPDES Permit issued by the U.S. Environmental Protection Agency. In the event this Permit is declared invalid, illegal or otherwise issued in violation of Federal law, this Permit shall remain in full force and effect under State law as a Permit issued by the Commonwealth of Massachusetts.