

**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 Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

Bird Incorporated D/B/A Certainteed

is authorized to discharge from the facility located at

**1077 Pleasant Street
Norwood, Massachusetts 02062**

to receiving water named Neponset River (NEPO - 73)

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

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

This permit and the authorization to discharge expire at midnight, five (5) years from the effective date.

This permit supersedes the permit issued on September 30, 1997.

This permit consists of 8 pages in Part I including effluent limitations, monitoring requirements, Attachment A and 35 pages in Part II including General Conditions and Definitions.

Signed this 20th day of September, 2005

/s/ SIGNATURE ON FILE

Linda M. Murphy, Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA

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

Part I

<p>A.1. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge from outfall serial number 001 treated contact cooling water to the Neponset River. Such discharges shall be limited and monitored as specified below.</p>								
<u>EFFLUENT CHARACTERISTIC</u>			<u>EFFLUENT LIMITS</u>				<u>MONITORING REQUIREMENTS</u>	
<u>PARAMETER</u>	<u>AVERAGE MONTHLY</u>	<u>AVERAGE WEEKLY</u>	<u>MAXIMUM DAILY</u>	<u>MEASUREMENT FREQUENCY</u>	<u>SAMPLE TYPE</u> ^{3,4}			
FLOW ²	0.04 mgd	*****	Report	Weekly	Meter			
TEMPERATURE	83°F	*****	90°F	Weekly	Grab			
TOTAL SUSPENDED SOLIDS	40 mg/l	*****	70 mg/l	Monthly	24-Hour Composite ⁴			
pH RANGE ¹	See Permit Page 6 of 8 Paragraph I.A.1.b.			Weekly	Grab			
OIL AND GREASE	*****	*****	15 mg/l	Monthly	Grab			
ALUMINUM	Report	*****	Report	Monthly	Grab			
WHOLE EFFLUENT TOXICITY See Footnotes 5, 6 and 7	Acute LC ₅₀ ≥ 100%			2/Year	24-Hour Composite ⁴			

Sampling for effluent parameters shall be conducted after treatment at the concrete settling pools, before the effluent mixes with any other waste stream or enters the Neponset River.

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<p>A.2. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge from outfall serial number 002 treated cleaning, dust control, and noncontact cooling water to the Neponset River. Such discharges shall be limited and monitored as specified below.</p>					
<u>EFFLUENT CHARACTERISTIC</u>		<u>EFFLUENT LIMITS</u>		<u>MONITORING REQUIREMENTS</u>	
PARAMETER	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	MEASUREMENT FREQUENCY	SAMPLE TYPE ^{3,4}
FLOW ²	Report, gallons	*****	Report, gallons	Monthly	Estimate
TSS	20 mg/l	*****	30 mg/l	Monthly	Grab
pH RANGE ¹	6.5 - 8.3 s u. See Permit Page 6 of 8 Paragraph I.A.1.b.				

Sampling for effluent parameters shall be conducted at the bottom of the concrete weir before the effluent mixes with any other waste stream or the Neponset River.

PART I

<p>A.3. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge from outfall serial number 003 and outfall serial number 004 treated storm water to the Neponset River. Such discharge shall be limited and monitored as specified below.</p>					
EFFLUENT CHARACTERISTIC	EFFLUENT LIMITS	MONITORING REQUIREMENTS			
PARAMETER	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	MEASUREMENT FREQUENCY	SAMPLE TYPE ^{3,4}
FLOW ²	Report, gallons	*****	Report, gallons	Monthly*	Estimate
TSS	10 mg/l	*****	15 mg/l	Monthly*	Grab
pH RANGE ¹	See Permit Page 6 of 8 Paragraph I.A.1.b.			Monthly*	Grab
OIL AND GREASE	*****	*****	15 mg/l	Monthly*	Grab

Sampling for effluent parameters shall be conducted at the discharge from the oil/water separators, before mixing with any other waste stream or before it is discharged into the Neponset River.

* Sampling for outfalls 003 and 004 shall be conducted in accordance with footnote 4 of this permit.

Footnotes:

1. Required for State Certification.
2. For outfall 001 report weekly flow readings using a meter or like device Also, weekly temperature readings for this discharge shall be taken at noon time.

For outfalls 002, 003 and 004, the flow shall be estimated for all the discharge event(s) on **each month**, in accordance with the procedure for collecting and testing requirements indicated in footnote 4 below. Flow associated with pollutant sampling (i.e. when permit-required pollutant sampling is conducted, the permittee shall report the total flow pumped to the oil/water separator (Outfall# 003 and # 004) during that discharge event). If only one discharge event is sampled per month, the permittee shall report the total flow in both the average and maximum columns of the pre-printed discharge monitoring report form. If more than one sampling event is conducted per month, the permittee shall report the average of the total flows in the average column and the highest of the total flows in the maximum column. Estimates shall be based on pumping rate and duration. Write “No Discharge” in the average column of the DMR sheets if there was no discharge to be reported for the month in question

The permittee shall also keep records of average and maximum daily storm flows for each month and submit the information to the Agencies on request.

3. All required effluent samples shall be collected at the point specified in Pages 1-4 of this permit. Any change in sampling location must be reviewed and approved in writing by EPA and MADEP. All samples shall be tested using the analytical methods found in 40 CFR §136, or alternative methods approved by EPA in accordance with the procedures in 40 CFR §136. Composite samples shall be 24 hour composites taken during one working day, unless specified as a grab sample in 40 CFR §136.
4. Storm water runoff samples will be collected and analyzed in accordance with 40 CFR Part 136 and EPA's NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001, July, 1992. All such samples shall be collected from the discharge resulting from a significant storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (grater than 0.1 inches of rainfall) storm event. The grab sample shall be taken during the first thirty minutes of the discharge; if this is not feasible, it may be taken within the first to third hour of discharge and noted.
5. The permittee shall conduct acute toxicity tests two times per year on outfall serial number 001 in accordance with the table of compliance indicated below. 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
May August	June 30 th September 30 th	<u>Ceriodaphnia dubia</u> (Daphnid)	≥ 100%	Not required

6. The LC₅₀ is the concentration of effluent which causes mortality to 50% of the test organisms. Therefore, a 100% limit means that a sample of 100% effluent (no dilution) shall cause no more than a 50% mortality rate.

7. 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 the Toxicity Testing Procedures and Protocol, 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.

Part I.A.4. (Applicable to all outfalls)

- a. The discharge shall not cause a violation of the water quality standards of the receiving waters.

- b. The pH of the effluent shall not be less than 6.5 standard units (su) and no greater than 8.3 su. at any time.

- c. The discharge shall not cause objectionable discoloration of the receiving waters.

- d. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.

Part I.A.5. Toxics Control

- a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
- b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

Part I.A.6. Numerical Effluent Limitations for Toxicants

EPA or DEP may use the results of the toxicity tests and chemical analyses conducted pursuant to this permit, as well as national water quality criteria developed pursuant to Section 304(a)(1) of the Clean Water Act (CWA), state water quality criteria, and any other appropriate information or data, to develop numerical effluent limitations for any pollutants, including but not limited to those pollutants listed in Appendix D of 40 CFR Part 122.

B. UNAUTHORIZED DISCHARGES

The permittee is authorized to discharge only from the outfalls listed in Part I.A.1.-3. of this permit, and only in accordance with terms and conditions of this permit. Discharges of wastewater from any other point sources, are not authorized by this permit and shall be reported in accordance with Section D.1.e. (1) of the General Requirements of this permit (Twenty-four hour reporting).

C. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). **The SWPPP for this facility shall be prepared, and except as provided elsewhere in this permit, shall provide for compliance with the terms of the permit and the plan, no later than 90 days after the effective date of the permit.** The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

D. MONITORING AND REPORTING**1. Reporting**

Monitoring results obtained during each calendar month shall be summarized and reported on Discharge Monitoring Report Form(s) **postmarked no later than the 15th day of the following**

month.

Signed and dated originals of these, and all other reports required herein, shall be submitted to the Director and the State at the following addresses:

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

The State Agency is:

Massachusetts Department of Environmental Protection
Northeast Regional Office-Bureau of Waste Prevention
1 Winter Street
Boston, Massachusetts 02108

Signed and dated Discharge Monitoring Report Forms and toxicity test reports required by this permit shall also be submitted to the State at:

Massachusetts Department of Environmental Protection
Division of Watershed Management
Surface Water Discharge Permit Program
627 Main Street, 2nd Floor
Worcester, Massachusetts 01608

E. STATE PERMIT CONDITIONS

This discharge permit is issued jointly by the U. S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (DEP) 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 of the MA DEP pursuant to M.G.L. Chap.21, §43.

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.