

H-843-14-01 (8100)  
September 30, 2008

US EPA, Region 1  
NCCW GP Processing  
Municipal Assistance Unit (CMU)  
1 Congress Street, Suite 1100  
Boston, MA 02114-2023

10/1/08  
received  
MAG-250881

Scanned - 10/8/08

MAG250881



Re: **Noncontact Cooling Water General Permit Notice of Intent  
Permit Number MAG250881**

To Whom It May Concern:

On behalf of our client, Hampden Papers, Inc. located at 100 Water Street in Holyoke, Massachusetts, we are providing you with this permit renewal application for non-contact cooling water discharges. The facility is proposing to continue non-contact cooling water discharges to the Connecticut River via Outfall No. 002 and 003 as previously permitted under the permit number MAG250881.

Please find enclosed a topographic map and a copy of the United States Environmental Protection Agency's Notice of Intent form. If you have any questions or require additional information, please contact me at 413-572-3215.

Very truly yours,

**TIGHE & BOND, INC.**

*Douglas A. Stellato*

Douglas A. Stellato  
Environmental Compliance Specialist

Enclosures

Copy: Massachusetts Department of Environmental Protection (w/encl)  
Mike Archambeault - Hampden Papers, Inc. (w/ encl)

J:\H\H0843\Non-Contact NOI\2008\EPA letter.doc



$mr$  = flow rate of river, MGD

$\Delta T_p$  = change in temperature of NCCW, effluent – influent, °F

The flow rate of the Connecticut River (7Q10 value) is 1,150 million gallons per day (MGD). The maximum flow rate of the NCCW from the Hampden Papers facility is 0.22 MGD. The change in temperature of the NCCW at the facility is approximately 19°F. The input of these values into the above equation results in a  $\Delta T_r$  value of  $3.635 \times 10^{-3}$  °F. The 7Q10 value of the Connecticut River was confirmed by Kathleen Keohane of the MADEP.

**APPENDIX 5**

**Suggested Form for Notice of Intent (NOI) for the Noncontact Cooling Water General Permit**

1. General facility information. Please provide the following information about the facility.

a) Name of facility: <b>Hampden Papers, Inc.</b>		Type of Business: <b>Packaging Paper and Plastic Film, Coated and Laminated</b>
Facility Location Address : 100 Water Street Holyoke, MA 01040 longitude: <u>-72.5937</u> latitude: <u>42.2077</u>	Facility SIC codes: 2671	Facility Mailing Address (if not location address) PO Box 149 Holyoke, MA 01041
b) Name of facility owner: <b>Hampden Papers, Inc.</b>		Email address of owner: <b>mikearchambeault@hampdenpapers.com</b>
Owner's Tel #: <u>413-536-1000</u> Owner's Fax # <u>413-532-9161</u>		Owner is (check one): 1. Federal <input type="checkbox"/> 2. State <input type="checkbox"/> 3. Tribal <input type="checkbox"/> 4. Private <input checked="" type="checkbox"/> 4. Other <input type="checkbox"/> (Describe)
Address of owner (if different from facility address)		
Legal name of Operator, if not owner: _____		
Operator Contact Name: _____		
Operator Tel Number: _____ Fax Number: _____		
Operator's email: _____		
Operator Address (if different from owner)		
d) Attach topographic map indicating the locations of the facility and the receiving water; all NCCW discharge points; upstream and downstream monitoring points. Map attached? <input type="checkbox"/> Yes <input type="checkbox"/>		
e) Check Yes or No for the following:		
1. Has a prior NPDES permit been granted for the discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If Yes, Permit Number: <u>MAG250881</u>		
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
3. Is the facility covered by an individual NPDES permit? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, Permit Number _____		
4. Is there a pending application on file with EPA for this discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, date of submittal: _____		

**2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)**

a) Name of receiving water into which discharge will occur: Connecticut River  
State Water Quality Classification: B Freshwater: X Marine Water: \_\_\_\_\_

b) Describe the discharge activities for which the owner/applicant is seeking coverage: Non-contact cooling water

c) FOR MASSACHUSETTS FACILITIES ONLY: Engineering Calculations: Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment A of the General Permit. Check if attached: X

d) Number of outfalls 2

For each outfall: Outfall 002 (O-2); Outfall 003 (O-3)

e) What is the maximum daily and average monthly flow of the discharge? Note that EPA will use the flow reported here as the facility's permitted effluent flow limit. Max Daily Flow O-2=220,000 O-3=0 GPD Average Flow O-2=90,000 O-3=0 GPD

f) What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. O-2=79 O-3=NA  
Average Temp. O-2=59.1 O-3=NA

g) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH O-2=8.0 O-3=NA Min pH O-2=6.8 O-3=NA

h) FOR MASSACHUSETTS FACILITIES ONLY: Is the source water of the NCCW potable water? Yes Mixed No \_\_\_\_\_ If Yes, EPA will calculate the Total Residual Chlorine limit for facilities located in Massachusetts. Municipal Water and Well Water

i) Is the discharge continuous? Yes O-2 No O-3 If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) O-3=I  
If (P), number of days or months per year of the discharge \_\_\_\_\_ and the specific months of discharge \_\_\_\_\_;  
If (I), number of days/year there is a discharge O-3=0 days \_\_\_\_\_

j) Latitude and longitude of each discharge within 100 feet: outfall 1: long. - lat. -; outfall 2: long. -72.599789 lat. 42.197159;  
outfall .3: long. -72.600022 lat. 42.197034 (See [http://www.epa.gov/tri/report/siting\\_tool](http://www.epa.gov/tri/report/siting_tool))

k) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 1782.5 cfs  
Please attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and additional information.

MASSACHUSETTS FACILITIES: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.

Areas of Critical Environmental Concern (ACEC): Does the discharge occur in an ACEC? Yes \_\_\_\_\_ No X

If yes, provide the name of the ACEC: \_\_\_\_\_

**3. NCCW Source Water Information. Please provide information about the NCCW source water, using separate sheets as necessary:**

a) Indicate source of the NCCW (i.e., municipal water supply, private well, surface water withdrawal, groundwater):

Source:  Municipal water supply and Private Well \_\_\_\_\_

Name of Source Water: \_\_\_\_\_

Is the source registered/permitted under MA Water Management Act or NHDES Water User Registration Rule (Env Wq 2202)?

Yes \_\_\_\_\_ No

If yes, registration number: \_\_\_\_\_

b) If source water is surface water:

i) Is it a freshwater river or stream Yes \_\_\_\_\_ No \_\_\_\_\_

ii) Is it a lake? \_\_\_\_\_ reservoir? \_\_\_\_\_

iii) Is it tidal river? \_\_\_\_\_ estuary? \_\_\_\_\_ ocean? \_\_\_\_\_

c) Is the source water groundwater? Yes  Partial  No \_\_\_\_\_ If yes, see Appendix 8 and submit effluent and surface water test results, as required in Part 5.4 of the General Permit.

d) Does the facility use both a primary and backup source of noncontact cooling water?

Yes \_\_\_\_\_ No  - See Section 1.3 of application package \_\_\_\_\_

If yes, attach information that identifies and explains the primary and backup sources of noncontact cooling water for and how often the backup supply was used in last three years.

**4. Best Technology Available for CWIS**

Are you subject to BTA requirements at Part 4.2 of the General Permit? (Facility's discharge is covered by this General Permit and the facility withdraws noncontact cooling water from surface source water). Yes \_\_\_\_\_ No  If No, explain:

If YES, attach the facility-specific BTA description as required in Part 4.3 of the General Permit. For additional information and guidance, see Questions 13-23 of the NCCW Fact Sheet, posted at <http://www.epa.gov/region1/npdes/nccwgp.html>. Provide a map showing the location of each CWIS intake structure; NCCW outfall(s) and any CWIS feature referred to in the BTA description.

Include in your description:

\_\_\_\_\_ Measures to meet the General Permit Part 4.3.a general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrate; or the required alternative monitoring plan frequency and/or protocol

\_\_\_\_\_ A characterization of the source water body's aquatic life habitat in the vicinity of each CWIS during the seasons when the CWIS may be in use

\_\_\_\_\_ The attributes of the current CWIS

\_\_\_\_\_ Design measures of the CWIS

\_\_\_\_\_ Operation measures of the CWIS

\_\_\_\_\_ Historical occurrence of impinged fish for the past five years

\_\_\_\_\_ If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system

\_\_\_\_\_ Other components to reduce impingement and/or entrainment of aquatic life

**4. BTA FOR CWIS CONTINUED:**

Provide the following information for each CWIS to support your attached facility-specific BTA description.

Design capacity of the of the CWIS \_\_\_\_\_MGD

Maximum monthly average intake of the CWIS during the previous five years \_\_\_\_\_MGD Month in which this flow occurred \_\_\_\_\_

Maximum through-screen design intake velocity \_\_\_\_\_feet/second (fps)

For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

The source water's annual mean flow \_\_\_\_\_cubic feet/second (cfs) as available from USGS or other appropriate source

The design intake flow as a % of the source water's annual mean flow \_\_\_\_\_ Attach calculations if equal to or less than 5% of annual mean flow.

The source water's 7Q10 \_\_\_\_\_cfs. See Attachment B of the General Permit for more information on 7Q10 determinations.

The design intake flow as a percent of the source water's 7Q10 \_\_\_\_\_

**5. Contaminant Information**

If applicable, attach a listing of all non-toxic pH neutralization and/or dechlorination chemicals used, including chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the NCCW discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC<sub>50</sub> in percent for aquatic organism(s)).

**6. Determination of Endangered Species Act Eligibility:** Provide documentation of ESA eligibility as required at Part 3.4 and Appendix 2, Part C, Step 4, of the General Permit. In addition, respond to the following questions.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes \_\_\_ No X

b) Has any consultation with the federal services been completed? Yes X No \_\_\_

c) Is consultation underway? Yes \_\_\_ No X

d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one):

a "no jeopardy" opinion \_\_\_ or written concurrence X on a finding that the discharges are not likely to adversely affect any endangered species or

e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D or E) have you met? B

f) Attach a copy of the most current federal listing of endangered and threatened species from the USF&W web site listed in Appendices 2, 2.1 and 4

**7. Documentation of National Historic Preservation Act requirements:** Please respond to the following questions:

Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes X No \_\_\_

Have any State or Tribal historic preservation officers been consulted in this determination? Yes \_\_\_ or No X If yes, attach the results of the consultation(s).

c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 o3) have you met? 2

8. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

9. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: Hampden Papers, Inc.

Operator signature: Michael E. Archambeault

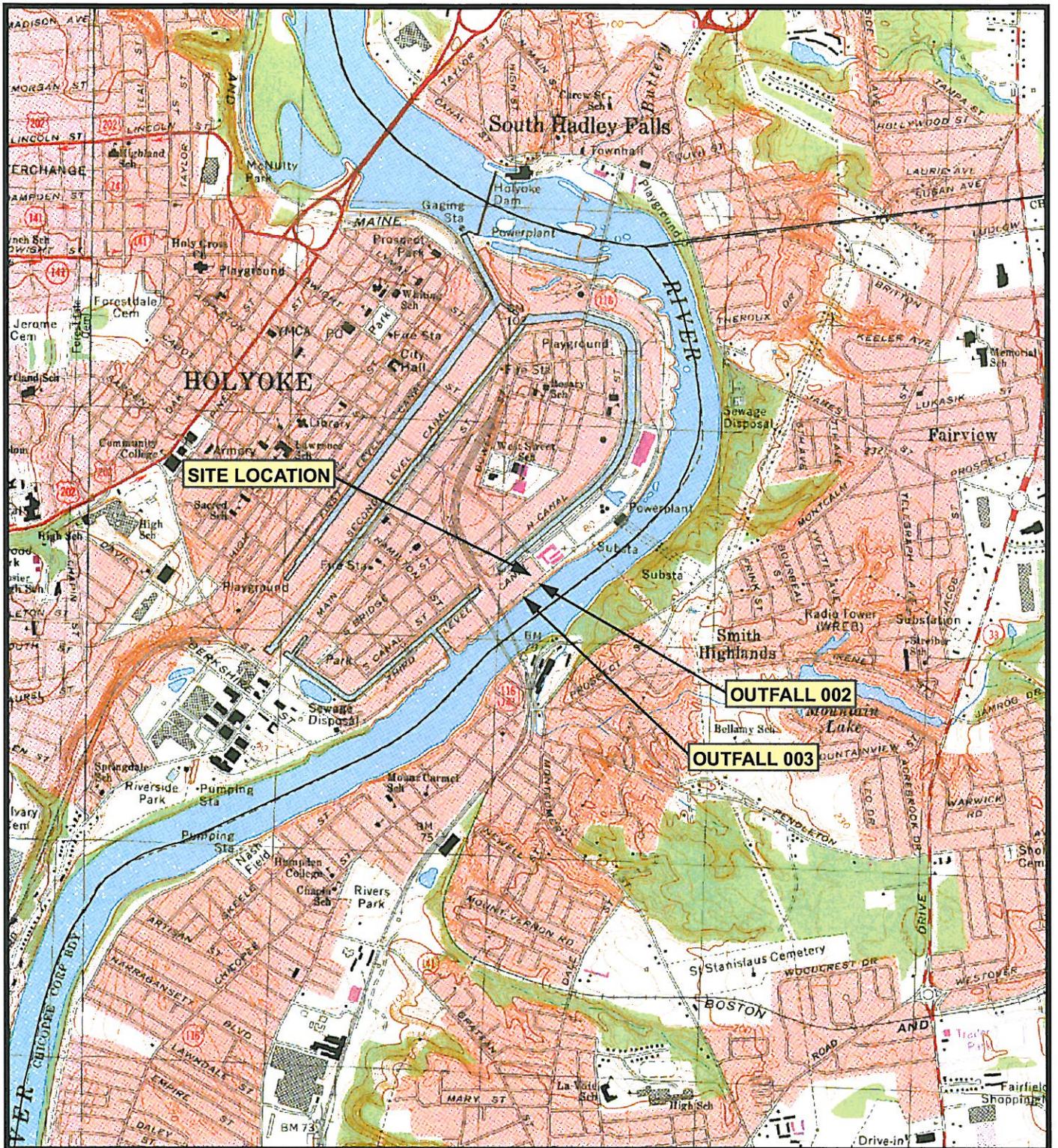


Title: VP Operations

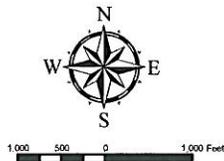
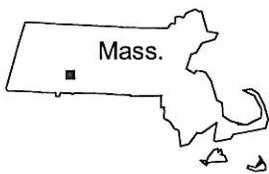
Date: 9/30/08

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



BASED ON USGS TOPOGRAPHIC MAP FOR  
 SPRINGFIELD NORTH & MOUNT TOM  
 MASSACHUSETTS QUADRANGLES  
 REVISED 1979  
 10-FOOT CONTOUR INTERVAL



## FIGURE 1 SITE LOCUS

HAMPDEN PAPERS, INC.  
 100 WATER STREET  
 HOLYOKE, MASSACHUSETTS

**Tighe & Bond**

SCALE 1:25,000

SEPTEMBER 2008

## **Section 4**

### **Sample Analysis**

This section includes the results of the sample analysis of the NCCW effluent and can be summarized as follows:

- Antimony – ND
- Arsenic - ND
- Cadmium - ND
- Chromium(Total) - ND
- Chromium(VI) - ND
- Copper – 0.012 mg/L
- Iron – 0.100 mg/L
- Mercury - ND
- Nickel - ND
- Silver - ND
- Zinc - ND
- pH – 8.0 s.u.
- Chloride – 6.6 mg/L
- Hardness (receiving water) – 36 mg/L

Doug Stellato  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-18951-1

Client Sample ID: Hampden - 1  
Lab Sample ID: 360-18951-1

Date Sampled: 09/22/2008 1530  
Date Received: 09/22/2008 1630  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
<b>Method: Total Recoverable-200.7 Rev 4.4</b>			Date Analyzed: 09/25/2008 1343	
<b>Prep Method: 200.7</b>			Date Prepared: 09/25/2008 0823	
Silver	ND	ug/L	5.0	1.0
Arsenic	ND	ug/L	10	1.0
Cadmium	ND	ug/L	1.0	1.0
Chromium	ND	ug/L	5.0	1.0
Copper	12	ug/L	10	1.0
Iron	100	ug/L	100	1.0
Nickel	ND	ug/L	10	1.0
Antimony	ND	ug/L	6.0	1.0
Zinc	ND	ug/L	50	1.0

Doug Stellato  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-18951-1

Client Sample ID: Hampden - 2  
Lab Sample ID: 360-18951-2

Date Sampled: 09/22/2008 1530  
Date Received: 09/22/2008 1630  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 245.1			Date Analyzed: 09/25/2008 0836	
Prep Method: 245.1			Date Prepared: 09/24/2008 0837	
Mercury	ND	ug/L	0.20	1.0

Doug Stellato  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-18951-1

Client Sample ID: Hampden - 3  
Lab Sample ID: 360-18951-3

Date Sampled: 09/22/2008 1530  
Date Received: 09/22/2008 1630  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 3500 CR D Chromium (hexavalent)	ND	mg/L	Date Analyzed: 09/23/2008 0859 0.0050	1.0

Doug Stellato  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-18951-1

Client Sample ID: Hampden - 4  
Lab Sample ID: 360-18951-4

Date Sampled: 09/22/2008 1530  
Date Received: 09/22/2008 1630  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 300.0 Chloride	6.6	mg/L	Date Analyzed: 09/24/2008 1941 1.0	1.0

Doug Stellato  
Tighe & Bond  
53 Southampton Road  
Westfield, MA 01085

Job Number: 360-18951-1

Client Sample ID: Hampden - 5  
Lab Sample ID: 360-18951-5

Date Sampled: 09/22/2008 1535  
Date Received: 09/22/2008 1630  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: SM 2340B Hardness as calcium carbonate	36	mg/L	Date Analyzed: 09/25/2008 1134 2.6	1.0

## ANALYTICAL REPORT

Job Number: 360-18951-1

Job Description: H-843-14-02

For:

Tighe & Bond

53 Southampton Road

Westfield, MA 01085

Attention: Doug Stellato



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Designee for

Lisa A Worthington

Project Manager II

[lisa.worthington@testamericainc.com](mailto:lisa.worthington@testamericainc.com)

09/26/2008

Test results relate only to sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters and any exceptions to NELAC requirements are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory.

TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD 10843, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY DOH 10843.

Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.

TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085

Tel (413) 572-4000 Fax (413) 572-3707 [www.testamericainc.com](http://www.testamericainc.com)



## METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-18951-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Metals (ICP)	TAL WFD	EPA 200.7 Rev 4.4	
Preparation, Total Recoverable Metals	TAL WFD		EPA 200.7
Mercury (CVAA)	TAL WFD	EPA 245.1	
Preparation, Mercury	TAL WFD		EPA 245.1
Hardness, Calculation	TAL WFD	SM SM 2340B	
Anions, Ion Chromatography	TAL WFD	MCAWW 300.0	
Chromium, Hexavalent	TAL WFD	SM SM 3500 CR D	

### Lab References:

TAL WFD = TestAmerica Westfield

### Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

## METHOD / ANALYST SUMMARY

Client: Tighe & Bond

Job Number: 360-18951-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA 200.7 Rev 4.4	Nasiatka, Ellen M	EMN
EPA 245.1	Nasiatka, Ellen M	EMN
SM SM 2340B	Nasiatka, Ellen M	EMN
MCAWW 300.0	Lalashius, Andrew L	ALL
SM SM 3500 CR D	Emerich, Rich W	RWE

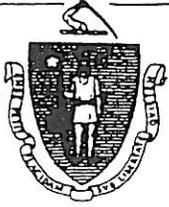
## SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-18951-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
360-18951-1	Hampden - 1	Water	09/22/2008 1530	09/22/2008 1630
360-18951-2	Hampden - 2	Water	09/22/2008 1530	09/22/2008 1630
360-18951-3	Hampden - 3	Water	09/22/2008 1530	09/22/2008 1630
360-18951-4	Hampden - 4	Water	09/22/2008 1530	09/22/2008 1630
360-18951-5	Hampden - 5	Water	09/22/2008 1535	09/22/2008 1630

Commonwealth of Massachusetts



# Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

April 20, 2001

Jeffrey P. Bibeau  
Tighe & Bond, Inc.  
Westfield Executive Park  
53 Southampton Road  
Westfield, MA 01085-5308

Re: Multi Sector General Permit  
Holyoke, MA  
NHESP File: 01-8812

Dear Mr. Bibeau,

Thank you for contacting the Natural Heritage and Endangered Species Program for information regarding state-protected rare species in the vicinity of the site identified above.

At this time we are not aware of any rare plants or animals or exemplary natural communities in the area of this site.

This review concerns only rare species of plants and animals and ecologically significant natural communities for which the Program maintains site-specific records. This review does not rule out the possibility that more common wildlife or vegetation might be adversely affected if this site is developed, especially if it will modify currently undeveloped areas. Should site plans change, or new rare species information become available, this evaluation may be reconsidered.

Please call me at (508)792-7270 x.154 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Christine Vaccaro".

Christine Vaccaro  
Environmental Review Assistant



**Natural Heritage & Endangered Species Program**

Route 135, Westborough, MA 01581 Tel: (508) 792-7270 x 200 Fax: (508) 792-7821  
An Agency of the Department of Fisheries, Wildlife & Environmental Law Enforcement  
<http://www.state.ma.us/dfwale/dfw/nhesp>

## IV. County/Species List

The following list identifies federally listed or proposed U.S. species by State and County. It has been updated through December 31, 1999. Species listed below with a status of both E and T are generally either endangered or threatened within the specified county. Designation of critical habitat (CH) does not mean that the county constitutes critical habitat, only that critical habitat has been designated for that species (see Addendum A Instructions of the Construction General Permit, or Addendum H instructions of the Multi-Sector Permit).

State/County	Group name	Inverse name	Scientific name	Action/Status
MASSACHUSETTS				
NO COUNTY DETAILS-				
ALL PERMITTEES				
SHOULD CONSIDER	MAMMALS	LYNX, CANADA	<i>Lynx canadensis</i>	T
BARNSTABLE	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		PLOVER, PIPING	<i>Charadrius melodus</i>	E,T
		TERN, ROSEATE	<i>Sterna dougalli dougalli</i>	E,T
	PLANTS	GERARDIA, SANDPLAIN	<i>Agalinus acuta</i>	E
	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
BERKSHIRE	MAMMALS	BAT, INDIANA	<i>Myotis sodalis</i>	E,CH
		COUGAR, EASTERN	<i>Felis concolor cougar</i>	E
BRISTOL	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		PLOVER, PIPING	<i>Charadrius melodus</i>	E,T
	FISHES	STURGEON, SHORTNOSE	<i>Acipenser brevirostrum</i>	E
	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
DUKES	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		PLOVER, PIPING	<i>Charadrius melodus</i>	E,T
	INSECTS	BEETLE, NORTHEASTERN BEACH TIGER	<i>Cicindela dorsalis dorsalis</i>	T
	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
ESSEX	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		PLOVER, PIPING	<i>Charadrius melodus</i>	E,T
	FISHES	STURGEON, SHORTNOSE	<i>Acipenser brevirostrum</i>	E
	PLANTS	POGONIA, SMALL WHORLED	<i>Isotria medeoloides</i>	T
	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
FRANKLIN	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
	FISHES	STURGEON, SHORTNOSE	<i>Acipenser brevirostrum</i>	E
	MAMMALS	BAT, INDIANA	<i>Myotis sodalis</i>	E,CH
		PLANTS	BULRUSH, NORTHEASTERN (=BARBED BRISTLE)	<i>Scirpus ancistrochaetus</i>
HAMPDEN	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
	FISHES	STURGEON, SHORTNOSE	<i>Acipenser brevirostrum</i>	E
	MAMMALS	BAT, INDIANA	<i>Myotis sodalis</i>	E,CH
	PLANTS	POGONIA, SMALL WHORLED	<i>Isotria medeoloides</i>	T
HAMPSHIRE	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
	FISHES	STURGEON, SHORTNOSE	<i>Acipenser brevirostrum</i>	E

	INSECTS	BEETLE, PURITAN TIGER	<i>Cicindela puritana</i>	T
	MAMMALS	BAT, INDIANA	<i>Myotis sodalis</i>	E,CH
		COUGAR, EASTERN	<i>Felis concolor cougar</i>	E
MIDDLESEX	PLANTS	POGONIA, SMALL WHORLED	<i>Isotria medeoloides</i>	T
	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
	MAMMALS	BAT, INDIANA	<i>Myotis sodalis</i>	E,CH
NANTUCKET	BIRDS	EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		PLOVER, PIPING	<i>Charadrius melodus</i>	E,T
	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
NORFOLK	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
PLYMOUTH	BIRDS	CURLEW, ESKIMO	<i>Numenius borealis</i>	E
		EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		PLOVER, PIPING	<i>Charadrius melodus</i>	E,T
		TERN, ROSEATE	<i>Sterna dougalli dougalli</i>	E,T
	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
		TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
		TURTLE, PLYMOUTH RED-BELLIED	<i>Pseudemys (Chrysemys) rubriventris bangsi</i>	E,CH
SUFFOLK	REPTILES	TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	<i>Lepidochelys kempii</i>	E
SUFFOLK	REPTILES	TURTLE, LOGGERHEAD SEA	<i>Caretta caretta</i>	T
WORCESTER	BIRDS	CROW, MARIANA	<i>Corvus kubaryi</i>	E
		EAGLE, BALD	<i>Haliaeetus leucocephalus</i>	T
		MALLARD, MARIANA	<i>Anas oustaleti</i>	E
		MEGAPODE, MICRONESIAN (LA PEROUSE'S)	<i>Megapodius laperouse</i>	E
		MONARCH, TINIAN	<i>Monarcha takatsukasae</i>	T
		MOORHEN, MARIANA COMMON	<i>Gallinula chloropus guami</i>	E
		STARLING, PONAPE MOUNTAIN	<i>Aplonis pelzelni</i>	E
		SWIFTLET, MARIANA GRAY (=VANIKORO)	<i>Aerodramus vanikorensis bartschi</i>	E
		WARBLER (OLD WORLD), NIGHTINGALE REED	<i>Acrocephalus luscinia</i>	E
		WHITE-EYE, PONAPE GREATER	<i>Rukia longirostra (=sanfordi)</i>	E
	MAMMALS	BAT, INDIANA	<i>Myotis sodalis</i>	E,CH
		BAT, LITTLE MARIANA FRUIT	<i>Pteropus tokudae</i>	E
		BAT, MARIANA FRUIT	<i>Pteropus mariannus mariannus</i>	E
		COUGAR, EASTERN	<i>Felis concolor cougar</i>	E
		DUGONG	<i>Dugong dugon</i>	E
	PLANTS	HAYUN LAGU (TRONKON GUAFI)	<i>Serianthes nelsonii</i>	E
		POGONIA, SMALL WHORLED	<i>Isotria medeoloides</i>	T
	REPTILES	TURTLE, GREEN SEA	<i>Chelonia mydas</i>	E,T,CH
		TURTLE, HAWKSBILL SEA	<i>Eretmochelys imbricata</i>	E,CH

Key: E - Endangered, T - Threatened, CH - Critical Habitat

## **Section 6**

### **Historic Places**

A review of the National Register of Historic Places information listed on the United States National Park Service's web site indicated that one historic property is in the proximity of the facility's discharge of NCCW. The current list of historic properties in Holyoke was exported from the National Register of Historic Places website and has been included in this section. The one property that is located in proximity to the Hampden Papers facility is the Holyoke Canal System. Hampden Papers does not have any new or increased discharges. Therefore, a visual inspection revealed that the NCCW discharged to the Connecticut River will not affect the Holyoke Canal System. The Holyoke Canal System has inlets in the Front Street and South Street areas, both of which are not in close proximity to the discharge of NCCW from Hampden Papers.

## Index by State and City report

Row	STATE	COUNTY	RESOURCE NAME	ADDRESS	CITY	LISTED	MULTIPLE
1	MA	Berkshire	Maplewood Hotel	328-330 Maple St.	Holyoke	1983-11-10	 
2	MA	Hampden	Caledonia Building	185-193 High St.	Holyoke	1979-07-03	 
3	MA	Hampden	Friedrich Block	449-461 Main St.	Holyoke	2002-12-05	 
4	MA	Hampden	Hadley Falls Company Housing District	Center, N. Canal, Grover, and Lyman Sts.	Holyoke	1972-11-09	 
5	MA	Hampden	Holyoke Canal System	Front and South St. and CT River	Holyoke	1980-12-03	 
6	MA	Hampden	Holyoke City Hall	536 Dwight St.	Holyoke	1975-12-06	 
7	MA	Hampden	Maplewood Hotel	328-330 Maple St.	Holyoke	1983-11-10	 
8	MA	Hampden	North High Street Historic District	High St. between Dwight and Lyman Sts.	Holyoke	1986-06-26	 
9	MA	Hampden	North High Street Historic District (Boundary Increase)	233--411 High St.	Holyoke	1992-12-24	 
10	MA	Hampden	Prospect Park	Maple St., Arbor Way, Connecticut R	Holyoke	2004-09-10	 
11	MA	Hampden	Robert, Clovis, Block	338-348 Main St.	Holyoke	2002-12-05	 
12	MA	Hampden	US Post Office--Holyoke Main	650 Dwight St.	Holyoke	1986-01-21	 
13	MA	Hampden	Wistariahurst	238 Cabot St.	Holyoke	1973-04-23	 

## Login Sample Receipt Check List

Client: Tighe & Bond

Job Number: 360-18951-1

**Login Number: 18951**  
**Creator: Rinard, Kimberley A**  
**List Number: 1**

**List Source: TestAmerica Westfield**

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	8.0 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Metals analytes not specified
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## **Section 5 Endangered Species**

The current federal list of endangered and threatened species from the United States Fish and Wildlife Services (USF&WS) website is included in this section. The Massachusetts Division of Fisheries & Wildlife was contacted in 2001 by Tighe & Bond, Inc. on behalf of the Hampden Papers facility. The response letter from the Division of Fisheries & Wildlife is also included in this section and states that no rare plants or animals are in the area of the facility. All species that are on the current list from the USF&WS website were also on the list used in 2001. The list, which was current in 2001, has also been included in this section as a reference point.

# Massachusetts

Common Name	Scientific Name	Status	Distribution
<b>FISHES:</b>			
Sturgeon, shortnose*	Northeastern bulrush	E	Atlantic coastal waters and rivers (Conn. R.)
<b>REPTILES:</b>			
Turtle, bog	Clemmys muhlenbergii	T	Berkshire County
Turtle, green*	Chelonia mydas	T	Oceanic straggler in southern New England
Turtle, hawksbill*	Eretmochelys imbricata	E	Oceanic straggler in southern New England
Turtle, leatherback*	Dermochelys coriacea	E	Oceanic summer resident
Turtle, loggerhead*	Caretta caretta	T	Oceanic summer resident
Turtle, Atlantic ridley*	Lepidochelys kempii	E	Oceanic summer resident
Turtle, Northern red-bellied couter (Plymouth redbelly)	Chrysemys rubriventris bangsi	E	Plymouth & Dukes Counties
<b>BIRDS:</b>			
Plover, piping		T	Atlantic coast, nesting
Tern, roseate	Charadrius melodus	E	Atlantic coast/islands, nesting
	Sterna dougallii dougallii		
<b>MAMMALS:</b>			
Bat, Indiana		E	Berkshire County/historic
Whale, blue*	Myotis sodalis	E	Oceanic
Whale, finback*	Balaenoptera musculus	E	Oceanic
Whale, humpback*	Balaenoptera physalus	E	Oceanic
Whale, right*	Megaptera novaeangliae	E	Oceanic
Whale, sei*	Eubalaena spp. (all species)	E	Oceanic
Whale, sperm*	Balaenoptera borealis	E	Oceanic
	Physeter catodon		
<b>MOLLUSKS:</b>			
Wedgemussel, dwarf		E	Hampshire, Franklin County
	Alasmidonta heterodon		

**INSECTS:**

Beetle, Puritan tiger		T	Hampshire County
Beetle, Northeastern beach	<i>Cicindela puritana</i>	T	Dukes & Bristol Counties
Beetle, American burying	<i>Cicindela dorsalis dorsalis</i>	E	Penikese & Nantucket Isl., reintroduced populations
	<i>Nicrophorus americanus</i>		

**PLANTS:**

Small whorled pogonia		T	Hampshire, Essex, Hampden, Worcester, Middlesex Counties
	<i>Isotria medeoloides</i>		
Sandplain gerardia		E	Barnstable & Dukes Counties
Northeastern bulrush	<i>Agalinus acuta</i>	E	Franklin County
	<i>Scirpus ancistrochaetus</i>		

\* Except for sea turtle nesting habitat, principal responsibility for these species is vested with the National Marine Fisheries Service  
 Rev. 1/8/02

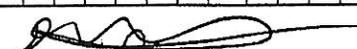
## Chain of Custody Form

• 53 Southampton Road  
Westfield, MA 01085  
(P) 413-572-4000  
(F) 413-572-3707

• 148 Rangeway Road  
N. Billerica, MA 01862  
(P) 978-867-1400  
(F) 978-867-7871

Westfield

Boston - Service Center

Client: <u>Tighe + Bond</u>		Client Project #: <u>H-843-14-02</u>		Job# <u>360-1895</u>	Quote# <u>36001482-0</u>	PO#																				
Address:		Site ID & State: <u>Hampden Papers, Holyoke, MA</u>		Shaded areas for Office Use																						
Phone:		Reports Sent To: <u>Doug Stellato</u>		Invoice same as Report to? <input type="checkbox"/>																						
Fax:		Email: <u>dastellato@tighebond.com</u>		If Invoice contact or address different, note in Comments																						
Requested Turnaround Time (PLEASE SPECIFY)		Regulatory Programs/Presumptive Certainty/QC Forms			Please print legibly. If the analytical requests are not clearly defined on the chain-of-custody, the turnaround time will begin after all questions have been satisfactorily answered.																					
STANDARD	RUSH <input checked="" type="checkbox"/> <u>3-bus. days</u> (Lab Approval Required)	MADEP MCP <input type="checkbox"/>	GW1/S1 <input type="checkbox"/>	PWS DEP Forms <input type="checkbox"/>	500-series for drinking water 600-series for waste water, NPDES 8000-series for groundwater, soil, waste 8000-series for groundwater, soil, waste Use comments section to further define.																					
		CTDEP RCP <input type="checkbox"/>	CT RSR <input type="checkbox"/>	EDD Required <input type="checkbox"/>																						
		QA Rpt: No QC <input type="checkbox"/>	Std QC Rpt <input type="checkbox"/>	CLP QC Rpt: <input type="checkbox"/>	Comments:																					
Sample Type Codes: WW-Wastewater, DW-Drinking Water, SW-Surface Water, GW-Groundwater, LW Lab Water, A-Air, "Z"-Other (please, specify) <u>Non-contact cooling water</u>		Date Collected: <u>9-22-08</u>		Preservative																						
Sample I.D.		Sample Type	Sampler's Initials	Grab Comp.	# Containers	Plastic(P) or Glass(G)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >12	Na2S2O3	None / 4°C	524 / 624 / 8260	525 / 625 / 8270	PCB / Pest / Herbicide	EPH / VPH	DRO / GRO / ETPH	Metals (Please Specify)	Mercury	General Chemistry	Bacteriological	Toxicity	Chromium, Hex Chloride	Hardness	
																										Total Recoverable Metals
Hampden-1		other	DAS	✓	1	P		✓											✓							
Hampden-2		other	DAS	✓	1	P		✓												✓						
Hampden-3		other	DAS	✓	1	P							✓											✓		
Hampden-4		other	DAS	✓	1	P							✓											✓		
Hampden-5		other	DAS	✓	1	P		✓																✓		
Sampled by (print): <u>Doug Stellato</u>		Signature: 		Cooler? <input checked="" type="checkbox"/> N		MADEP Requirement Samples Iced? <input checked="" type="checkbox"/> N																				
Relinquished by: 		Date: <u>9/22/08</u>	Time: <u>16:30</u>	Received by: 		Date: <u>9/22/08</u>	Time: <u>1630</u>	Temp @ receipt: <u>8.00</u> °C																		
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Preservation / pH checked? <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>																		
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	By:  Date: <u>9/22/08</u>																		

WESTFIELD

Page 1 of 1

White = Lab file Yellow = Report copy Pink = Customer copy



Enter your transmittal number

W059830

Transmittal Number

Your unique Transmittal Number can be accessed online: http://www.mass.gov/dep/counter/trasmfrm.shtml or call DEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection
Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. Copy 2 must accompany your fee payment. Copy 3 should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

DEP
P.O. Box 4062
Boston, MA
02211

\* Note: For BWSC Permits, enter the LSP.

A. Permit Information

BRPWM11

1. Permit Code: 7 or 8 character code from permit instructions

Discharge of Non-Contact Cooling Water

3. Type of Project or Activity

Non-Contact Cooling Water Discharge

2. Name of Permit Category

B. Applicant Information - Firm or Individual

Hampden Papers, Inc.

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

100 Water Street

5. Street Address

Holyoke

6. City/Town

Mike Archambeault

11. Contact Person

3. First Name of Individual

MA

7. State

01040

8. Zip Code

413-536-1000

9. Telephone #

4. MI

248

10. Ext. #

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Hampden Papers, Inc.

1. Name of Facility, Site Or Individual

100 Water Street

2. Street Address

Holyoke

3. City/Town

MA

4. State

01040

5. Zip Code

413-536-1000

6. Telephone #

248

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)\*

Tighe & Bond, Inc.

1. Name of Firm Or Individual

53 Southampton Road

2. Address

Westfield

3. City/Town

Jeffrey P. Bibeau

8. Contact Person

MA

4. State

01085

5. Zip Code

413-572-3243

6. Telephone #

7. Ext. #

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

- 1. Is this project subject to MEPA review? [ ] yes [X] no
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

Special Provisions:

- 1. [ ] Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less). There are no fee exemptions for BWSC permits, regardless of applicant status.
2. [ ] Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. [ ] Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. [ ] Homeowner (according to 310 CMR 4.02).

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

24433

Check Number

\$385

Dollar Amount

02/08/05

Date

**Transmittal Form**

**Section 1 Introduction**

1.1 Background ..... 1-1  
1.2 Scope of the Application ..... 1-1  
1.3 NOI Supplemental Information ..... 1-1  
1.4 Calculations ..... 1-1

**Section 2 NOI**

**Section 3 Topographic Map**

**Section 4 Sample Analysis**

**Section 5 Endangered Species**

**Section 6 Historic Places**

J:\H\H0843\Non-Contact NOI\2008\NOI Text.doc

# Section 1

## Introduction

### 1.1 Background

Hampden Papers, Inc, (Hampden Papers) is located at 100 Water Street in Holyoke, Massachusetts. The Hampden Papers facility manufactures decorative paper, film, and foil products. The facility operates under a Standard Industrial Classification (SIC) code of 2671, "Packaging Paper and Plastic Film, Coated and Laminated". Hampden Papers has an existing Non-Contact Cooling Water (NCCW) Discharge Permit, MAG250881.

### 1.2 Scope of the Application

This Notice of Intent (NOI) is intended to obtain coverage under the new General Permit (released July, 2008) for NCCW Discharges from the Massachusetts Department of Environmental Protection (MADEP) and the United States Environmental protection Agency (USEPA) for the Hampden Papers facility. Hampden Papers discharges their NCCW to the Connecticut River in Holyoke.

### 1.3 NOI Supplemental Information

Hampden Papers has two separate sources of water that is used for the facility's NCCW. Hampden Papers' utilizes both the municipal water supply and a private well located on-site. Over the past three years, Hampden Papers has used the well water first, and then the municipal water to supply additional flow rates that cannot be achieved from the well. Because the well water cannot always supply the desired quantity of water, starting in May of 2008, Hampden Papers has used primarily the municipal water supply first, and the well water as a secondary source. Because groundwater (well water) is used as one of the water sources, effluent sampling and testing had to be performed for the parameters required in Section 5.4 of the General Permit. The analysis of the samples is included in Section 4 of this application package. The pH testing of the effluent NCCW was performed by Tighe & Bond, Inc, whereas all other parameters were analyzed by Test America Laboratories, Inc.

### 1.4 Calculations

Hampden Papers discharges its NCCW to the Connecticut River. Therefore, engineering calculations for the surface water temperature rise due to the discharge of the NCCW is required. The temperature rise of the surface water was calculated using the following formula:

$$\Delta Tr = \frac{mp}{mr} \times \Delta Tp$$

Where

$\Delta Tr$  = change in river temperature, °F

$mp$  = flow rate of effluent, MGD