MAG250030 9/24/08

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: Sinclair Manufacturing Company

Type of Business: Manufacturer of Electronic Components

Facility Location Address :
12 So. Worcester Street
Chartley, MA 02712
longitude: 41° 57' 01" N
latitude: 71° 13' 36"W

Facility SIC codes:
3679
3451

Facility Mailing Address (if not location address)
P.O. Box 398
Chartley, MA 02712

b) Name of facility owner: Sinclair Manufacturing Company

Email address of owner: dlemieux@sinclairmfg.com

Owner's Tel #: 508-222-7440
Owner's Fax # 508-226-0517

Owner is (check one): 1. Federal____ 2. State _____ 3.Tribal_____ 4. Private_X___ 4. Other _____(Describe)

Address of owner (if different from facility address)

Same

Legal name of Operator, if not owner: same
Operator Contact Name: David M. LeMieux
Operator Tel Number: 508-222-7440 **Fax Number:** 508-226-0517
Operator's email: dlemieux@sinclairmfg.com
Operator Address (if different from owner)

same

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? Yes

e) Check Yes or No for the following:

1. **Has a prior NPDES permit been granted for the discharge? Yes** X **No____ If Yes, Permit Number:** MAG250030
2. **Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes_____ No** X
3. **Is the facility covered by an individual NPDES permit? Yes_____ No** X **If Yes, Permit Number ____**
4. **Is there a pending application on file with EPA for this discharge? Yes_____ No** X **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: Chartley Brook
State Water Quality Classification: Class 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 1

For each outfall:

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 8700 GPD Average Flow 8545 GPD

f) What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. 83 Average Temp. 79.5

g) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 7.0 Min pH 7.0

h) FOR MASSACHUSETTS FACILITIES ONLY: Is the source water of the NCCW potable water? Yes X No _____ If Yes, EPA will calculate the Total Residual Chlorine limit for facilities located in Massachusetts.

i) Is the discharge continuous? Yes X No _____ 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) --
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 --

j) Latitude and longitude of each discharge within 100 feet: outfall 1: long. 41° 57' 01" N lat. 71° 13' 36" W; outfall 2: long. -- lat. --;
outfall 3: long. -- lat. -- (See 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 0.12 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 **Name of Source Water:** Town of Norton **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:** N/A **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 _____ No X 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 X** **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 X If No, explain: Town water supply

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: N/A

_____ **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. N/A
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: N/A
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 N/A

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_{50} 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___ No_X_
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): N/A
a "no jeopardy" opinion _____or written concurrence____ 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? _A_____
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:

a) 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 _____ No _X_

b) 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? C.1

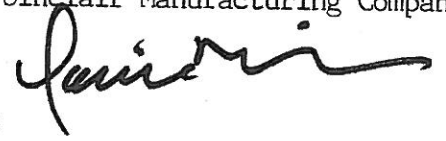
8. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

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.

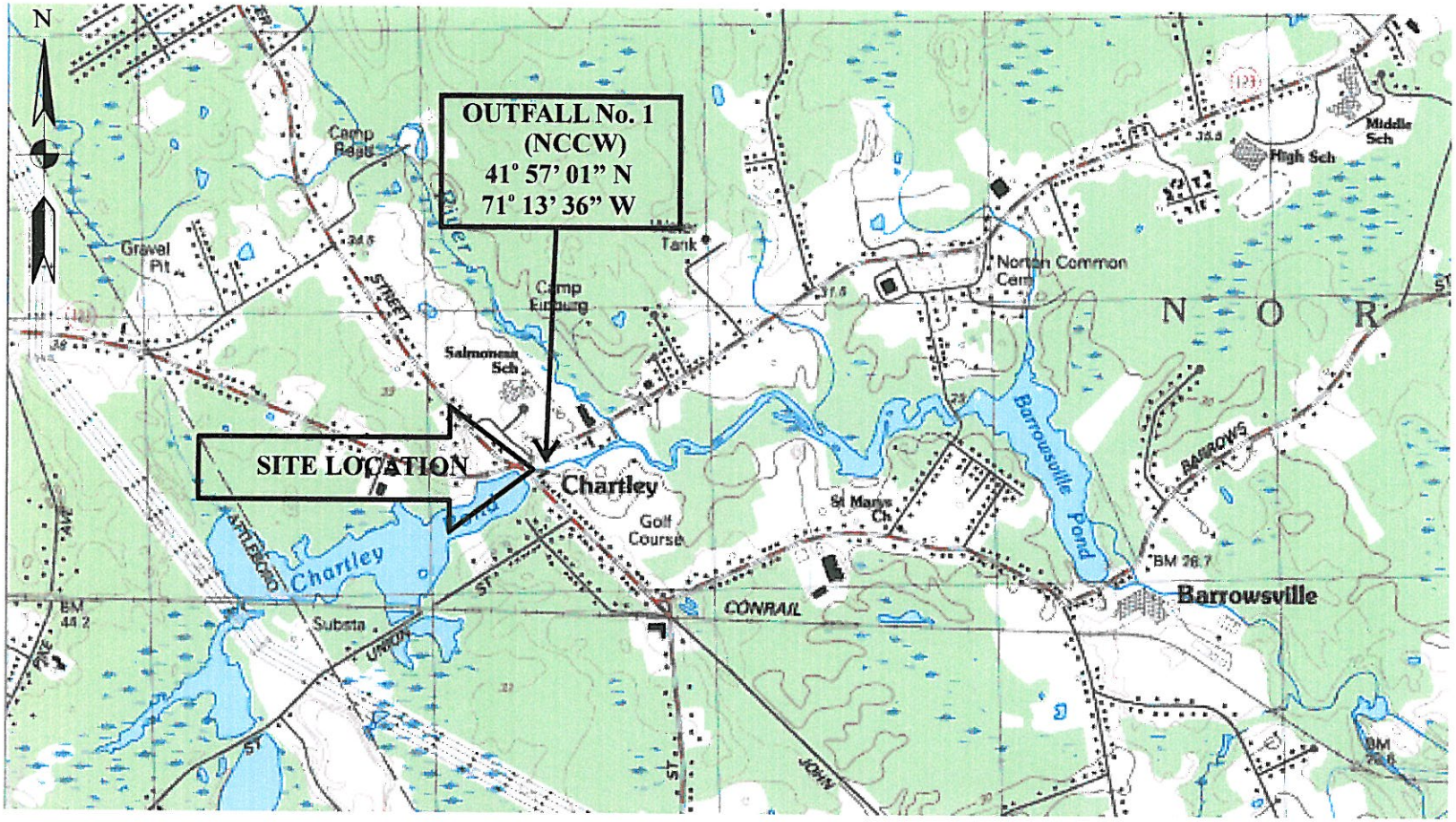
Facility Name: Sinclair Manufacturing Company

Operator signature: 

Title: President

Date: 9/18/08

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.



MASSACHUSETTS

QUADRANGLE LOCATION

0 1000 2000

APPROXIMATE SCALE (FEET)

Source:
USGS 7.5 Minute Series
Taunton, MA Quadrangle

ANKIEWICZ
ENVIRONMENTAL SERVICES
51 Powow Street, Amesbury, MA 01913
Phone: (978) 388-8278 Fax:978-388-0817
E-mail: ankiewicz.aes@verizon.net

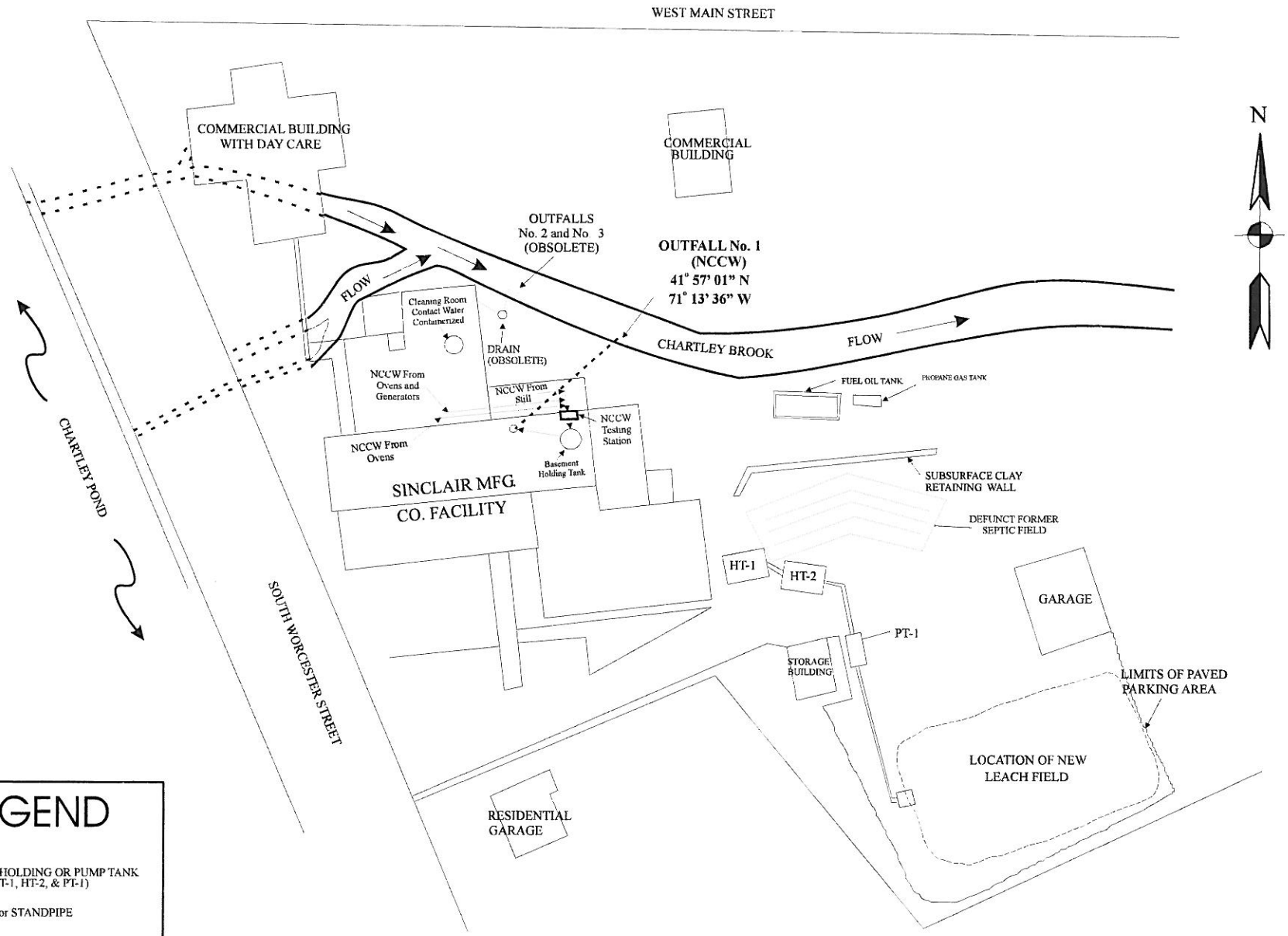
Client: Sinclair Manufacturing Co.

Site Address: 12 South Worcester St. Chartley, MA

Title: SITE LOCUS MAP

Project	Drawn	Approved	Figure No
NCCW Permit (September 2008)	JHA	JHA	1

Approx. Scale	Date	File No	Project No
1:24,000	09-05-08	Locus - 0808	05010-03



LEGEND

- SEPTIC HOLDING OR PUMP TANK (HT-1, HT-2, & PT-1)
- DRAIN or STANDPIPE
- HOLDING TANK

0 50 100

APPROXIMATE SCALE (FEET)

ANKIEWICZ ENVIRONMENTAL SERVICES
51 Powow Street, Amesbury, MA 01913
Phone: (978) 388-8278 Fax:978-388-0817
E-mail: ankiewicz.aes@verizon.net

TITLE: NCCW - SITE PLAN		CLIENT: SINCLAIR MANUFACTURING CO.	
PROJECT NO.: 05010-03	DRAWN: JHA	LOCATION: 12 South Worcester Street Chartley, MA	FIGURE: 2
SCALE: AS SHOWN	DATE: 09-05-08	PROJECT: NCCW Permit Application (September 2008)	

Table 1

Receiving Water Temperatures Engineering Calculations
and
Calculated Dilution Factor
Sinclair Manufacturing, 12 South Worcester Street, Chartley, MA
NPDES Permit Number MAG250030
(September 2008)

Criteria	Units	Symbol	Value	Source
Effluent Temp.	degrees F	Tp	79.5	Avg. effluent temperature based on the last 24-monhts of monitoring data
Chartley Brook Min. Temp.	degrees F	Tb	40	Estimated winter months minimum temperature per MassDEP discussions
delta Tp	degrees F	delta Tp	39.5	delta Tp = Tp - Tb
Mass of River	mgpd	mr	0.08	7Q10 per MassDEP
Mass of Effluent (avg)	mgpd	mp	0.00845	Avg. daily NCCW effluent flow based on 39 months of monitoring data.
Mass of Effluent (max)	mgpd	mp:max	0.0087	Avg. daily NCCW effluent flow based on 39 months of monitoring data.
Potential Change in Chartley Brook Temp.	**degrees F**	**delta Tr**	**4.2**	**delta Tr = mp/mr x delta Tp**
Dilution Factor	**n/a**	**DF**	**10.2**	**DF = (mr + mp:max)/mp:max**

Table 2

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

Only Plymouth County has federally-designated Critical Habitat in Massachusetts. The following are federally-listed species by county:

Common Name	Species	Status	County/General Distribution
Shortnose sturgeon[1]	*Acipenser brevirostrum*	E	Atlantic coastal waters and Connecticut and Merrimack Rivers
Eastern cougar	*Felis concolor couguar*	E	Entire state/historic
Indiana bat	*Myotis sodalis*	E	Berkshire/historic
Bald eagle	*Haliaeetus leucocephalus*	D[2]	Barnstable, Berkshire, Essex, Franklin, Hampden, Hampshire, Plymouth, Worcester
Piping plover	*Charadrius melodus*	T	**Nesting**: Barnstable, Essex, Plymouth, Dukes, Nantucket, Bristol (coastal beaches only) **Migratory:** Atlantic Coast
Roseate tern	*Sterna dougallii dougallii*	E	**Nesting**: Barnstable, Plymouth, Dukes (coastal islands) **Migratory:** Atlantic Coast
Bog turtle	*Clemmys muhlenbergii*	T	Berkshire
Dwarf wedgemussel	*Alasmidonta heterodon*	E	Hampshire, Franklin (Connecticut River watershed)
Puritan tiger beetle	*Cicindela puritana*	T	Hampshire (Connecticut River floodplain)
Northeastern beach tiger beetle	*Cicindela dorsalis dorsalis*	T	Barnstable, Duke (coastal beaches only)
American burying beetle	*Nicrophorus americanus*	E	Dukes, Nantucket (Penikese & Nantucket Isl.) reintroduced populations
Small whorled pogonia	*Isotria medeoloides*	T	Hampshire, Essex, Hampden, Worcester, Middlesex
Sandplain gerardia	*Agalinus acuta*	E	Barnstable, Duke
Northeastern bulrush	*Scirpus ancistrochaetus*	E	Franklin

[1] Principal responsibility for this species is vested with the National Marine Fisheries Service.
[2] Delisted. Protected under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act.

Table 3

Index by State and City
National Register Information System 09/17/2008 13:20:45

No filter Include filter in navigation ☐

Row	STATE	COUNTY	RESOURCE NAME	ADDRESS	CITY	LISTED	MULTIPLE
1	MA	Bristol	**Clarke, Pitt, House**	42 Mansfield Ave.	Norton	1976-07-13	
2	MA	Bristol	**Norton Center Historic District**	MA 123	Norton	1977-12-23	
3	MA	Bristol	**Old Bay Road**	From Easton Town Line to Taunton Town Line	Norton	1974-11-08	

First Page Next Page Refresh Export