

Commonwealth of Massachusetts
Executive Office of Environmental
Affairs ■ MEPA Office

ENF Environmental
Notification Form

For Office Use Only
Executive Office of Environmental Affairs
 EOEa No.: 13563
 MEPA Analyst: Bill GAGE
 Phone: 617-626-1025

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Restore Saugus Iron Works Turning Basin and Dock		
Street: 244 Central Street		
Municipality: Saugus	Watershed: Saugus River Watershed	
Universal Transverse Mercator Coordinates: North (Y) in meters: 4703793.771 East (X) in meters: 334852.518	Latitude: 422808N Longitude: 0710032W	
Estimated commencement date: Sept. 2005	Estimated completion date: November 2006	
Approximate cost: \$2,412,237	Status of project design: 30-35 %complete	
Proponent: National Park Service Saugus Iron Works NHS Elizabeth Marcus, Acting Superintendent		
Street: 244 Central Street		
Municipality: Saugus	State: MA	Zip Code: 01906
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Cristina Aspuru or John Burgess		
Firm/Agency: CH2M HILL	Street: 25 New Chardon Street, Suite 300	
Municipality: Boston	State: MA	Zip Code: 02114
Phone: (617) 523-2002	Fax: (617) 723-9036	E-mail: caspuru@ch2m.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No
- Has any project on this site been filed with MEPA before?
 Yes (EOEA No. _____) No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8)) Yes No
 - a Special Review Procedure? (see 301 CMR 11.09) Yes No
 - a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 - a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): None

Are you requesting coordinated review with any other federal, state, regional, or local agency?

Yes (Specify NEPA) No

List Local or Federal Permits and Approvals: See attachment.

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input checked="" type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input checked="" type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	3.58			
New acres of land altered		3.58		
Acres of impervious area	0	0	0	
Square feet of new bordering vegetated wetlands alteration		Excavating and restoration, no net loss- 78,418		
Square feet of new other wetland alteration		Excavating and restoration, no net loss of area, 76,607		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	N/A	0	N/A	
Number of housing units	0	0	0	
Maximum height (in feet)	N/A	0	N/A	
TRANSPORTATION				
Avg. visitors to site per year	16,000	0	16,000	
Parking spaces	25	0	25	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	N/A	0	N/A	
GPD water withdrawal	N/A	0	N/A	
GPD wastewater generation/ treatment	N/A	0	N/A	

The previous two permits are in preparation and will be ready for submission in FY 2005.

Length of water/sewer mains (in miles)	N/A	0	N/A
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CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes () No

No federally-listed species are known to be present onsite according to the USFWS and NMFS. In a letter dated September 15, 2004, the NMFS states that "no threatened or endangered species under the jurisdiction of the NMFS are known to exist in the Saugus area." Letters from the USFWS and NHESP concur that no rare species are known to occur on site (see Appendix 5B for consultation letters). In a June-August 2004 survey of the site, after receipt of the letters, state-listed American waterwort (*Elatine Americana*) was found within the Saugus Iron Works NHS stream channel. The NHESP has been notified of the discovery in a letter dated March 25, 2005. NHESP is attempting to verify the identification of the species. No work is proposed within the stream channel, however, so impacts to the species are not likely.

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify: Saugus Iron Works is a National Historic Landmark and is listed as nationally significant on the National Register of Historic Places. Features of the reconstructed historic district would be replaced consistent with the Secretary of the Interior's Standard for the Treatment of Historic Properties)

No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify: The dock and bulkhead need restorative maintenance as the structural integrity is compromised and the areas are closed to the public for safety reasons)

No

Please see Appendix 5B for concurrence letters.

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

Please see attached.

Saugus Iron Works National Historic Site
PROJECT DESCRIPTION

The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative.

- A.** Saugus Iron Works National Historic Site (NHS) in Saugus, Massachusetts is the site of the first integrated iron works in North America, which operated from 1646 to 1668. The original manufacturing site served as a training ground for skilled ironworkers for what would become America's iron and steel industry. Iron making provided the infrastructure for the rise of other colonial industries. Called "the forerunner of America's industrial giants," the site served as a center for technology, innovation, and invention (www.nps.gov/sair).

Saugus Iron Works NHS illustrates the critical role of iron making in seventeenth-century settlement and its legacy in shaping the early history of the nation. The site's setting on the Saugus River, featuring an open-air museum with working waterwheels, evokes a unique experience for park visitors. These resources demonstrate seventeenth-century engineering and design methods, iron-making technology and operations, local and overseas trade, and life and work in the Massachusetts Bay Colony. The site is the southern gateway to the Essex National Heritage Area, linking thousands of historic places in Essex County related to the themes of colonial settlement, maritime trade, and early industrialization.

- B.** The National Park Service (NPS) is proposing a project which will restore the Saugus River turning basin and reconstructed seventeenth-century waterfront structures (dock and bulkhead) at Saugus Iron Works National Historic Site (SAIR). The following presents the seven alternatives considered as well as selection of the preferred alternative.

Alternative A- Also considered the "No Action" Alternative, employing this route would not employ any alterations to the site. Everything would remain unchanged.

Alternative B- The "Preferred Alternative". The proposed action can be characterized as "restoration" of the turning basin and waterfront structures to their condition prior to the 1957 dam breach. It also includes restoration of the portion of the Saugus River south of the historic turning basin area, within park boundaries (henceforth referred to as the "southern area").

Alternative C- Alternative C is identical to the preferred alternative, but does not take action with respect to the southern area.

Alternative D- Alternative D is similar to the preferred alternative, except that only 40% of the southern area of the tidal basin would be excavated and restored to approximate 1954 contours.

- C.** It is the aim of the NPS to have multifaceted benefits to the restoration. In addition to improved cultural landscape and visitor experience, the NPS is looking to improve the biodiversity and ecology of the area. The following lists mitigation measures for each alternative.

Alternative A- As this is the no-action alternative, no mitigation measures would be taken if this were the adopted alternative.

Alternative B- The preferred alternative may include mitigation measures as planting additional vegetation in the restored mudflats to achieve less vegetated wetland loss, enhancing rainbow smelt spawning by increasing and improving riffles and increasing bed coarseness to improve American eel and elvers habitat.

Alternative C- As this alternative only restores the turning basin, less mitigation measures are needed. Mitigation measures would be similar to those mentioned in the previous alternative, only less expansive.

Alternative D- The mitigation measures for this alternative mirror those listed in Alternative B. The alternative only restores 40% of the southern area, thus suggesting less mitigation than Alternative B.