

***Development of Standardized Criteria for the Assessment of Brown Bullhead Lesions
and Deformities in Areas of Concern***

Sponsored by

Pennsylvania Sea Grant, USEPA GLNPO, and Pennsylvania Department of
Environmental Protection
February 14-15, 2006

At

Stull Interpretive Center
Presque Isle State Park
Erie, PA

This two-day workshop is the third in a series focused on the Fish Tumors or Other Deformities beneficial-use impairment and studies of the Presque Isle Bay Area of Concern (AOC). Participants will discuss and finalize standardized protocols for assessing liver and external lesions on brown bullhead catfish, evaluate reference lesion rate data for Lake Erie, and review proposed delisting targets for the Presque Isle Bay AOC.

For more information or to register (registration is free but please RSVP), contact Pennsylvania Sea Grant Extension Director -Eric Obert via phone at (814) 217-9018 or e-mail at ecol@psu.edu.

An agenda, hotel accommodations, and directions to the Stull Interpretive Center are listed below.

AGENDA

February 14, 2006

INTRODUCTION

- 9:00 Welcome – Eric Obert
- 9:10 Introductions, Goals and Objectives, History of Project, and Progress to date -
Lori Boughton

RESEARCH

- 9:30 Tumor prevalence in brown bullheads from the South River, Anne Arundel
County, Maryland - Pinkney, A.E. and J.C. Harshbarger.
- 9:50 Canadian assessment of tumor rates – Scott Brown
- 10:20 Sediment, invertebrate and fish health parameters from 1998-2000 collections at
Lake Erie AOCs - Stephen B. Smith, Dora P. Reader, and P.C. Baumann
- 10:35 Coffee Break
- 10:45 Presque Isle Bay deep water trawl and trap sampling for brown bullheads – Bob
Wellington
- 11:00 Young of year study of brown bullheads in Presque Isle Bay – Colleen
Wellington

STANDARDIZED CRITERIA DEVELOPMENT

- 11:15 Pathology Manual - Vicki Blazer
- 11:45 Field Biologists Manual - Sean Rafferty

Noon LUNCH

- 1:00 Panel Discussion – Comments and Feedback on the Manuals
- 1:30 Hybridization Study of Brown Bullheads in PIB – Dave Hunnicutt

LESION REFERENCE RATES FOR LAKE ERIE

- 1:45 Historical Reference Work – Paul Baumann

- 2:15 Data from 2004/05 Reference Studies and Inland Lakes – Jim Grazio
- 2:45 Coffee Break
- 3:00 Histological Data for PIB – Vicki Blazer
- 3:30 Statistical Analysis of 04/05 data – Mike Rutter
- 4:00 Facilitated Discussion – Bob Light
Answer the following:
1. What reference liver lesion rate should be used for Presque Isle Bay?
 2. Should inland lakes be used as a reference?

April 15, 2006

DELISTING TARGETS FOR THE FISH TUMOR OR OTHER DEFORMITIES BUI IN PRESQUE ISLE BAY?

- 8:00 General overview of the fish studies done on Presque Isle Bay – Jim Grazio
Presentation of Data – Jim Grazio/Mike Rutter
- Pre-Recovery Stage data/results
 - Post-Recovery Stage data/results
 - Proposed Delisting Target for the Fish Tumor or Other Deformities BUI in Presque
- 9:00 Facilitated Discussion – Bob Light
1. Are the proposed targets appropriate for Presque Isle Bay?
 2. Based upon the data, is the Fish Tumor or Other Deformities Beneficial Use impaired in Presque Isle Bay?

10:30 Coffee Break

WHAT ARE THE COMPONENTS OF A LONG-TERM MONITORING PLAN FOR PRESQUE ISLE BAY?

- 10:45 Facilitated Discussion – Bob Light
1. What is the recommended interval between sampling events?
 2. Recommended sample size for gross observations?
 3. Recommended sample size for liver histopathology?

11:30 FUTURE RESEARCH NEEDS?

Noon ADJOURN

HOTEL ACCOMMODATIONS

The Bel-Aire/Clarion Hotel and Hampton Inn are located within two-miles of Presque Isle State Park, and provide free shuttle service from the Erie International Airport. Directions to each of the hotels are provided on the included Web sites.

Bel-Aire Clarion Hotel
2800 West Eighth Street
Erie, PA 16505
(800) 888-8781
www.clarionhotel-erie.com

Hampton Inn
3041 West 12 Street
Erie, PA 16505
(814) 835-4200
www.hampton-inn.com

DIRECTIONS TO STULL INTERPRETIVE CENTER

If you need transportation from the hotel to the workshop, please contact Eric Obert via phone at (814) 217-9018 to make arrangements.

From Bel-Aire/Clarion Hotel:

Start out heading west on West 8th Street. Make a right onto Peninsula Drive. Follow Peninsula Drive to Presque Isle State Park. The Stull Interpretive Center is located one-half mile from the park entrance (the building will be located on your left toward the lake-side of the park). There is signage highlighting the Stull Interpretive Center location.

From Hampton Inn:

Start out heading east on West 12th Street (Rt. 5). Make a left onto Peninsula Drive. Follow Peninsula Drive to Presque Isle State Park. The Stull Interpretive Center is located one-half mile from the park entrance (the building will be located on your left toward the lake-side of the park). There is signage highlighting the Stull Interpretive Center location.