

SCIENCE & TECHNICAL ADVISORY COMMITTEE



DELAWARE CENTER FOR THE
INLAND BAYS
Research. Educate. Restore.

DATE & TIME: DEC. 11, 2015 at 9:00 A.M.

LOCATION: DNREC LEWES FIELD FACILITY, END OF PILOTTOWN ROAD, LEWES

Meeting called by: Scott Andres, Chair

AGENDA ITEMS

Call to order

STAC announcements & annual appeal..... *Scott Andres*

CIB announcements *Marianne Walch*

CAC Announcement *Susie Ball*

CAC resolution on nutrient loads from residential fertilization *Scott Andres*

(See copy of memo on next page)

Nutrient Trends in Delaware Surface Waters 1998-2014..... *David Wolanski, DNREC*

David will discuss trends in nutrient concentrations in Delaware that were recently done statewide as part of a Nutrient Water Quality Management Framework in Delaware document recently submitted to EPA in lieu of a numeric nutrient criteria development plan for EPA's comment and discussion.

BREAK

Update on Your Creek Project. *Marianne Walch &*

Sally Boswell, CIB

The Love Creek indicators report was finalized and is publically available (<http://www.inlandbays.org/wp-content/uploads/State-of-Love-Creek-Report-FINAL.pdf>), and an outreach presentation for use by the Love Creek Team and the CAC was developed. The STAC will be updated on current activities of both creek teams, including a rare plant project and planned improvements in Swann Keys. The participation of STAC mentors will be discussed.

Macroalgae Blooms in the Inland Bays *Ed Whereat, U of D,*

&group

Unusually heavy blooms of macroalgae occurred in parts of the Inland Bays this past spring and summer. A discussion will be led of the conditions leading to these blooms, any data collected, and how this might relate to

pollution that can be controlled. Information from a recent regional meeting on *Dinophysis* and Diarrhetic Shellfish Poisoning, an emerging HAB issue in the U.S., will also be presented and discussed.

New Business *Scott Andres*

Adjourn

MEMO

TO: Executive Committee CIB

FROM: Susie Ball, CAC CHAIR

DATE: September 13, 2015

SUBJECT: IMPACT OF RESIDENTIAL FERTILIZATION LOADS OF NITROGEN AND PHOSPHORUS INTO THE INLAND BAYS

The Residential Fertilization Sub-committee of the CAC has recommended to the CAC and the CAC thus recommends to the Board that the Board direct the Executive Director to initiate research on the nitrogen and phosphorus loads flowing into the bays as a result residential fertilization from increased development in the watershed. This information is necessary to understand the impact of this potentially important source of pollution on the estuary and to determine any actions that could help implement the CCMP in regards. This recommendation is consistent with Actions E., E1, and F of the Nutrient Management Focus Area of the 2012 CCMP Addendum.

This research would include but not be limited to:

- Estimating the current and proposed acreage of lawns in the watershed,
- Researching literature for models to determine loading rates of N and P from lawns into the inland bays
- Determining the effects and impact of laws in adjoining states, which have mandated decreased content of nitrogen and very limited use of phosphorus in lawn fertilizers.