

**Monthly Report: October 2015**

**BARUCH  
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**To:**  
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**By:**  
Jamie Duberstein

Bill and Mary:

Please see the bulleted list below for the major actions and accomplishments associated with Cooperative Agreement Number W912HZ-14-2-0002 for the month of October 2015. Please let me know if you would like me to elaborate on the details of any items I've listed below, or if there are any status updates you'd like on unlisted topics.

Best Regards,

Jamie

### Marsh Vegetation

- The October synoptic marsh vegetation collection was carried out 10-12 October.
  - Vegetation samples have been sorted by species within plots (n=108 plots).
  - Samples are currently being dried and weighed.
- Multivariate analyses for the October 2015 collection will begin after samples are weighed and data are entered into spreadsheet format.

### Water Data

- Water data were last downloaded on 21 and 22 September.
  - An updated salinity table was provided in the September monthly report and in the 3<sup>rd</sup> quarter report.
- Back 4: Minor repairs were made to the well array on 10 October:
  - A new aboveground well was installed because of minor warping associated with previous hog damage.
    - No previous data were compromised.
  - New suspension cables were installed for sensors in both the aboveground and belowground monitoring wells. We previously made temporary fixes using zip-ties.
    - There may be a slight shift in water level corresponding to the cable replacement in the belowground well. That potential shift will be considered as water level data are post-processed.
- Back 3.5: The belowground sensor reported an internal hardware error during our September download. A replacement sensor was deployed on 10 October at 17:15.
  - There is data loss associated with the malfunctioning sensor. Data loss began 07 September and continued until the 01:00am measurement on 11 October.

### Forest monitoring

- Monthly measurements of baldcypress tree growth were last taken on 10 October for Swamp 1 and Swamp 2, and on 11 October for Swamp 3.
- Average basal area increase for the past month:
  - Swamp 1: 0.4 cm<sup>2</sup> (22 Sept. – 10 Oct.)
  - Swamp 2: 0.3 cm<sup>2</sup> (22 Sept. – 10 Oct.)
  - Swamp 3: 0.2 cm<sup>2</sup> (21 Sept. – 11 Oct.)