



# Culvert Survey, May 2015

Volunteer Field Work in Sawmill Brook Watershed, Manchester-by-the-Sea



## VOLUNTEER TEAM HELPS WITH CULVERT SURVEY

A group of volunteers led by the Manchester-by-the-Sea Stream Team and Salem Sound Coast Watch assisted Tighe & Bond engineers and scientists with a field effort to photograph and collect vital statistics on 40 culverts throughout the Sawmill Brook Watershed on May 30<sup>th</sup>, 2015.

This survey effort was part of a Coastal Zone Management Grant to evaluate the capacity of culverts under future climate change conditions and identify options to reduce flooding by developing flood storage in the watershed.



Top: Jessica Lamothe, Stream Team Coordinator and Mary Reilly, Town Conservation Administrator plan the survey route.

Middle: Tighe & Bond Staff instruct the group on field data collection.

Bottom: Volunteers look on and gear up to take on assigned culverts. See Page 5 for list of all volunteers.







## TEAMWORK

MERHS Green Team members, Jake Brugger, Redmond Pulver, Belle Allmendinger and Eric Magers survey culverts along Causeway Brook and enjoy some beautiful vistas along the way.



Barbara Warren, Salem Sound Coast Watch and Eric Thomsin, Stream Team, take on culverts at the top of the watershed where poison ivy, briars and beaver dams created some challenges to obtaining data.





*Susan demonstrates technique for culvert photo identification*



*Examining culvert arch and bottom construction material*



*Steve and Jessica measure the headwall*



*Jessica provides directions on measuring "bank-full width"*



*Jennie and Susan compare notes*



*Mary and David discuss strategy to measure road crossing width*





A HUGE THANK  
YOU TO ALL THE  
AWESOME  
VOLUNTEERS\*  
WHO GAVE UP A  
SATURDAY TO  
HELP OUT!!

Jennie Moonan and Amanda Crouch-Smith, Tighe and Bond staff are all smiles thanks to everyone's help, in spite of the creepy bugs, poison ivy and missing culverts.

**\*Awesome Volunteers:**

Mary Reilly  
Jessica Lamothe  
Barbara Warren  
Eric Thomsin  
Jack Nessen  
Belle Allmendinger  
Redmond Pulver  
Jack Brugger  
Lisa Watt-Bucci  
Olga Hayes  
Francie Caudill  
Eric Magers  
Lynn Atkinson  
Carolyn Kelly  
Susan Costello  
David Lumsden  
Joan Nesbit  
Donna Dowal  
Steve Gang

