



PAUL R. LEPAGE
GOVERNOR

STATE OF MAINE
DEPARTMENT OF AGRICULTURE, FOOD AND RURAL RESOURCES
BOARD OF PESTICIDES CONTROL
28 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0028

WALTER E. WHITCOMB
COMMISSIONER
HENRY S. JENNINGS
DIRECTOR

To: Board of Pesticides Control Members
From: Mary Tomlinson, Pesticides Registrar/Water Quality Specialist
RE: Water Quality Program Update for 2010
Date: February 7, 2011

2009 Sampling Results

The Friends of Casco Bay (FOCB) collected one storm water sample per site in Falmouth Foreside, Portland, and Freeport. Results were non-detect for the following residential pesticides analyzed: 2,4-D, MCP, MCPA, dicamba, permethrin, pendimethalin, propiconazole, bifenthrin.

Sediment sampling was conducted to determine presence or absence of pyrethroids in sediment downstream of residential run-off areas. Representative samples were collected at five locations in Portland and South Portland: Capisic Stream; Long Creek; Trout Brook; and three Back Cove sites - behind the Back Cove Pumping Station, Payson Park Creek, and the Back Cove storm water outflow just off Coyle Street.

Bifenthrin was present in four of five samples at concentrations between 1-37 ng/g (detection limit approximately 1 ng/g) and permethrin was detected in three samples with concentrations between 3-47 ng/g (detection limit approximately 8-10 ng/g). Mean values were at or exceeded at least one aquatic life benchmark. The results for cypermethrin and esfenvalerate were inconclusive as results were at or near the detection limit. Samples were non-detect for λ -cyhalothrin. These values are approximations only as formal detection limit estimations have not been conducted for any of these analytes.

2010

Sediment samples were collected in December at six locations in Portland and South Portland: Capisic Stream, two Trout Brook locations, behind the Back Cove Pumping Station, Payson Park Creek, and the Back Cove storm water outflow just off Coyle Street. FOCB also collected sediment samples at Mussel Cove, in Falmouth, and Broad Cove, in Cumberland, in lieu of storm water sampling for 2010. These samples have not yet been analyzed by the University of Maine Food and Chemical Safety Laboratory.

The "Quality Assurance Project Plan (QAPP) for the Board of Pesticides Control Water Quality Program and Related Laboratory Work" has been updated.