THE MAINE DRAIN: STORMWATER MANAGEMENT STRATEGIES AND SOLUTIONS

URBAN IMPAIRED STREAMS

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SOURCES OF CLEAN WATER ACT OBLIGATIONS FOR MUNICIPALITIES

Municipal Clean Water Act (CWA) Obligations include not only:

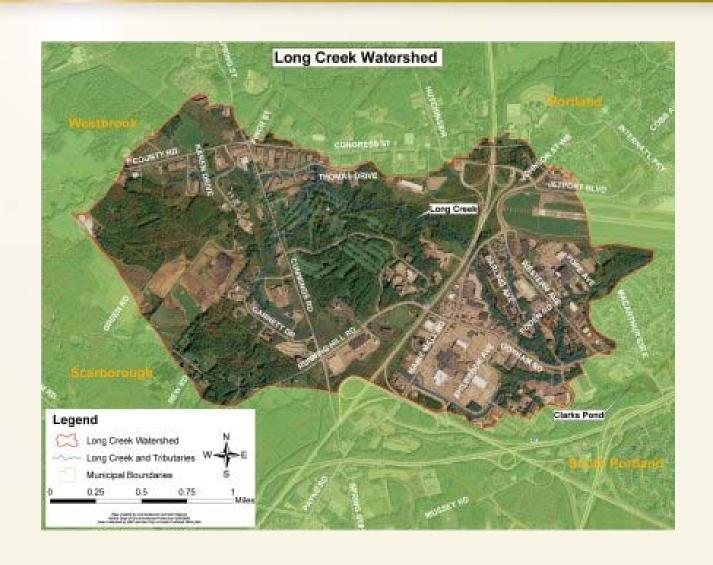
- 1. Small MS4 regulation;
- 2. Combined Sewer Overflows; but also
- 3. Urban Impaired Streams.

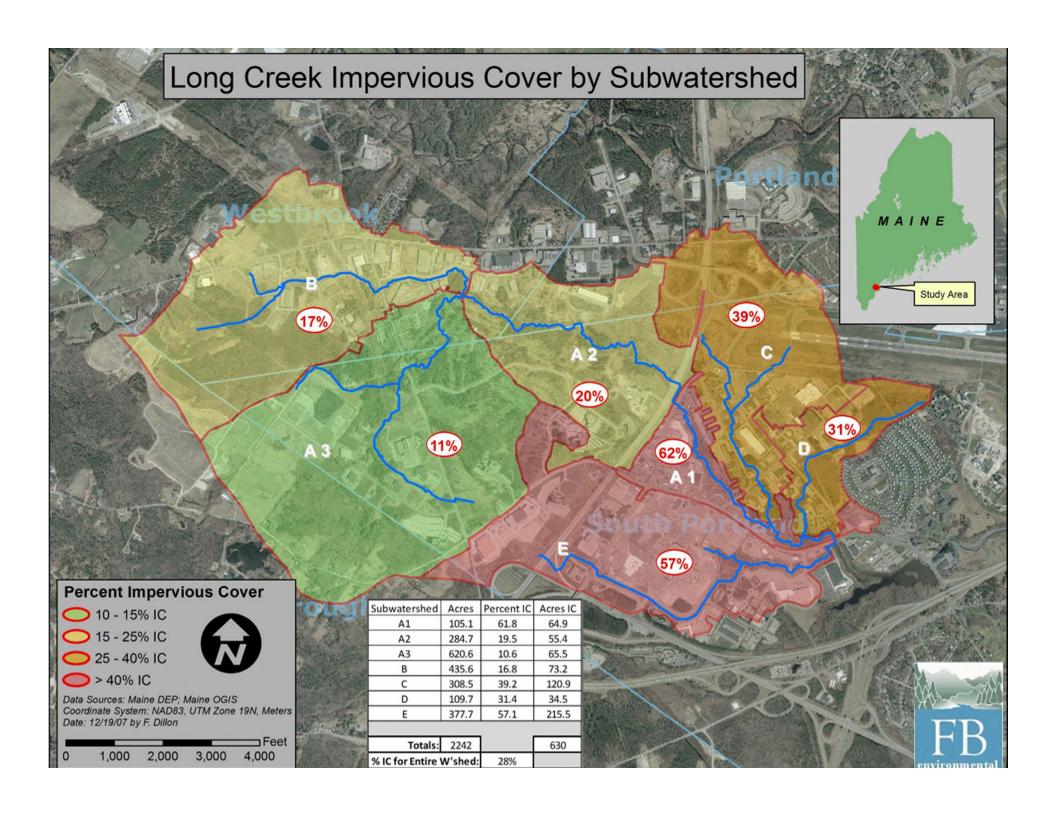
SOURCES OF URBAN IMPAIRED STREAM OBLIGATIONS

Urban Impaired Streams obligations arise out of:

- 1. 1972 CWA Amendments (Section 303(d) list and TMDL);
- 2. 1987 CWA (Stormwater) Amendments (Residual Designation Authority);
- 3. Small MS4 permit conditions; and
- 4. Threat of citizen suits and petitions.

LONG CREEK WATERSHED





URBAN IMPAIRED STREAM EXAMPLES IN MAINE

- A. Long Creek Watershed. Located in Portland, South Portland, Scarborough and Westbrook.
- 3.45 square miles in Maine Mall area commercial and industrial uses, jetport, interstate highway, parking lots, shopping centers – much impervious area.
- Long Creek does not meet State water quality standards: low dissolved O2; heavy metals; high suspended solids and chlorides.
- Threat of enforcement action and of citizen action resulted in collaborative action by public and private landowners.
- First in nation use of RDA to require stream restoration.

URBAN IMPAIRED STREAM EXAMPLES IN MAINE

- Interlocal Agreement and nonprofit corporation to create Long Creek Watershed Management District.
- Over 110 public and private landowners implementing a Long Creek Watershed Management Plan to restore the urban impaired stream within ten years.
- \$14 million cost shared by annual assessments; remediation capital projects focused on most costeffective BMPs.
- Potential model for urban impaired stream remediation.

URBAN IMPAIRED STREAM EXAMPLES IN MAINE

- B. Other streams and models -municipal restoration:
- 1. Penjajawoc Marsh, Bangor
- 2. Capisic Brook, Portland
- 3. Red Brook, South Portland and Scarborough

Finance remediation through tax base? Separate stormwater charge for this and other stormwater costs? Separate stormwater utility?

URBAN IMPAIRED STREAM RESTORATION

Urban Impaired Stream Restoration Strategies:

- 1. Low Impact Development
- 2. Onsite infiltration of stormwater
- 3. Reduced impervious surface area
- 4. Proactive steps to protect streams before become urban impaired streams