100-Year Floodplains in the Lamprey River Watershed:
Flood Insurance Rate Maps (FIRMs), Updated (2005) Conditions, and 2100 LID Buildout

Durham Panel

Map Description:
This map illustrates the 100-year floodplain for the town of Durham for three conditions: (1) the FEMA Flood Insurance Rate Maps (FIRMs) derived from 1962-2005 rates and updated 100-year 24-hour rainfall of 8.5" shown in pink; and (2) the projected conditions (LID) buildout based on 1962-2005 rates and increased future rainfall of 11.4" shown in green. The map and table below show the increases in the extent of the floodplain based on current and future conditions compared to FIRM conditions.

Map Key:
- Updated (2005) 100-Year Floodplains
- 2100 100-Year Floodplains: LID Buildout
- Effective Zone A 100-Year Floodplains
- Special Flood Hazard Areas with Base Flood Elevations (SFEs) determined
- Effective Cross Sections

Figures showing the surface water elevations and water discharge at each cross section for each condition are located in a separate document available on the project web site.

Acreage Summary:

<table>
<thead>
<tr>
<th>Watershed Name</th>
<th>Total Acreage</th>
<th>Effective Floodplains</th>
<th>Special Flood Hazard Areas</th>
<th>Base Flood Elevations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamprey River</td>
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<tr>
<td>Piscassic River</td>
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<tr>
<td>Great Bay</td>
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</tbody>
</table>

Technical Notes:
The extent of the floodplains was calculated using 1962-2005 general hydrography data and the National Elevation Dataset (NED) 10-meter resolution digital elevation model (DEM) to determine the highest points to be digitized as elevation points. These points were then matched to an updated 1962-2005 National Elevation Dataset (NED) 10-meter resolution DEM, with the updated points digitized using the resulting DEM. The extent of the floodplains was determined to be the entire 100-year floodplain, and this extent was visually verified using orthorectified aerial photography.

Map Data Sources:
- Effective Zones/Special Flood Hazard Areas: Effective FIRMs, April 2010.
- Topography: National Elevation Dataset, 10-meter resolution digital elevation model.

Assessing Flood Risk in the Lamprey River Watershed

For further information about this project, please visit http://www.granit.unh.edu/MapLibrary/ProjectMaps.