CITY OF KIRKLAND SHORELINE

- SMP adopted August 2010
- 10 Miles of shoreline along Lake Washington
- ½ of shoreline is designated Low Density Residential
- Majority of developed property have hard armoring/bulkheads
- 7 Years of tracking data
What do we track?

- **DEVELOPMENT ACTIVITY**
  - Building Permits
  - SDP Exemptions
  - Enhancement Projects

- **CATEGORIES**
  - Shoreline Setback
  - Vegetation
  - Stabilization
  - Overwater Coverage
  - Lighting
  - In Water Structures
  - Public Pathways
Is our data any good?

- Permit Review
- Tracking Data
- Confirmation at Final Inspection
- As-Built Plan
- Recorded Agreements on Title
Single Family Development Tracking
Taylor NSFR
ENSURING THE NUMBERS ARE RIGHT
MEASURABLES

- 2100 SF structures removed from shoreline setback
- 62 Native Trees Planted (15 Permits)
- 4000 SF Lawn removed (6 Permits)
- 8600 SF of Native Vegetation Planted along shoreline (13 Permits)
- 103 LF of Bulkhead Removed (3 Permits)
- 14,835 SF of Solid Pier Decking Removed
- 16,672 SF Grated Pier surface installed
- 1472 SF of Overwater Structures Removed
- 200 SF of in water Structures Removed
- 33 Piles Removed (5 parcels)
- 6000 SF Spawning Gravel Installed (6 parcels)
QUESTIONS?
<table>
<thead>
<tr>
<th>SPawning Gravel Added</th>
<th>SHR Habitat &amp; Natural System Pri</th>
<th>Removal of Structures</th>
<th>Removal of Piles (Qty.)</th>
<th>Other Description</th>
</tr>
</thead>
</table>

**Hard Shoreline Stabilization (Linear Ft)**

<table>
<thead>
<tr>
<th>Added</th>
<th>Removed</th>
<th>Repaired</th>
<th>Altered (Step Back)</th>
<th>Geotech Report (Y/N)</th>
<th>Needs Assessment (Y/N)</th>
<th>Soft Stabilization (Linear Ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Added</td>
</tr>
</tbody>
</table>

**Native Vegetation (Sq. Ft) Within Shoreline Setback**

<table>
<thead>
<tr>
<th># of Trees Removed</th>
<th># Trees Retained</th>
<th># of Trees Planted</th>
<th>Shrubs</th>
<th>Ground Cover</th>
<th>Lawn</th>
<th>Removal of Ornamental</th>
<th>Removal of Invasive</th>
<th>Aquatic Vegetation</th>
<th>Mitigation for 83.550.5.B.5 (10%) Sq Ft</th>
</tr>
</thead>
</table>

**Removal of Total Impervious Surface (Sq Ft +/-)**

<table>
<thead>
<tr>
<th>Old Shoreline Setback</th>
<th>New Shoreline Setback</th>
<th>Parcel Width (FT) Linear Shoreline</th>
<th>New Shoreline Setback Area (Sq Ft)</th>
<th>Change From Existing (FT)</th>
<th>Change In Shoreline Setback Area (Sq Ft)</th>
<th>Use of 83.550.5.B.5 (10%) Sq Ft of Area</th>
<th>Setback Reduction</th>
<th>Accessory Structure in Setback (Sq Ft)</th>
<th>Removal of Structures in Setback (Sq Ft) (Such as Sheds, Boat House, Residence...)</th>
<th>Describe Mitigation for 83.550.5.B.5</th>
</tr>
</thead>
</table>

**Overwater Coverage: Piers, Docks, Boatlifts, Canopies (Sq Ft Unless Otherwise Noted)**

<table>
<thead>
<tr>
<th>New</th>
<th>Change in Size of Replacement</th>
<th>Change in Height (FT)</th>
<th>Amount of Grating</th>
<th>Amount of Solid Boards Removed</th>
<th>Length (FT)</th>
<th>Width in First 30’ (FT)</th>
<th>Skirting Removed (Linear FT)</th>
<th>Over Water Structures Removed</th>
<th>Administrative Approval (Y/N)</th>
<th>Boat Lift (Y/N)</th>
<th>Joint Pier (Y/N)</th>
</tr>
</thead>
</table>

**Shoreline Environment**

<table>
<thead>
<tr>
<th>R-L</th>
<th>R-M/H</th>
<th>UM</th>
<th>UR</th>
<th>Description</th>
</tr>
</thead>
</table>

**Public Access Trails (Linear Ft)**

**View Corridors (Linear Width, FT)**

**Other Description**