South Park in Good Weather

14th Ave S – Main Commercial Corridor

S Portland St – Industrial Area

S Director St - Residential
South Park During Storm Events

- November 2012
- December 2010
- December 2007
2002 South Park Basin Study
Recommended Capital Projects

- 2009 – Projects C & D completed in middle basin.

- Remaining work in the lower basin is a high priority, in order to realize the full benefits on the South Park Pump Station & Water Quality Facility
## Estimated costs for developing the Lower 7th Ave. Basin

<table>
<thead>
<tr>
<th>Street</th>
<th>LF Pipe</th>
<th>Drainage costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>S Portland</td>
<td>1800</td>
<td>$2.2M</td>
</tr>
<tr>
<td>S Chicago</td>
<td>1500</td>
<td>$1.9M</td>
</tr>
<tr>
<td>S Kenyon</td>
<td>1500</td>
<td>$1.9M</td>
</tr>
<tr>
<td>S Monroe</td>
<td>1300</td>
<td>$1.7M</td>
</tr>
<tr>
<td>S Elmgrove</td>
<td>1200</td>
<td>$1.5M</td>
</tr>
<tr>
<td>S Southern</td>
<td>300</td>
<td>$0.4M</td>
</tr>
<tr>
<td>S Holden</td>
<td>1200</td>
<td>$1.5M</td>
</tr>
</tbody>
</table>

**Note** – Costs are based on the 100% design engineer’s estimate for constructing the S Portland St Drainage Improvements in 2014. Total costs include street restoration.
Work Plan

Work can be completed in half the time with Action Plan funding.

<table>
<thead>
<tr>
<th></th>
<th>Spending</th>
<th>LF/Year</th>
<th>Years</th>
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</thead>
<tbody>
<tr>
<td>Baseline</td>
<td>$ 2,000,000</td>
<td>1565</td>
<td>4</td>
</tr>
<tr>
<td>Action Plan</td>
<td>$ 4,000,000</td>
<td>3130</td>
<td>2</td>
</tr>
</tbody>
</table>

- **Note** – The spending noted above is for the drainage system only. Street improvements or pavement restoration would also be required.
Broadview Sewer & Drainage Project

- 12th Avenue Basin sewer LOS is 2 – 5 years w/20 houses backing up and flooding street/creek.
- 12th basin stormwater LOS is 1 – 2 years in some areas, well below City standard.
- Dayton Avenue Basin sewer LOS is 6 – 9 years w/15 homes backing up and flooding street/creek.
Broadview Sewer & Drainage Project

- Total funding needed $65M
- Current funding $22M
  - 12th Avenue NW basin only
- Additional $10M 2016-2020
  - Provides funding to either finish 12th Avenue NW basin or initiate work on Dayton basin.
D&WW Planning & Policies Objectives

• 4-6 Geographically based Master Plans by 2020
• Updated mapping and modeling of DWW infrastructure
• Development and clarification of policies that support the DSO and work of other departments
Surface Water Assets help direct rainwater to a conveyance system

- Catch basins

- Inlets
Informal Surface Water Assets

Ditches

- Culverts
Project Drivers

- If an asset isn’t captured in GIS, it doesn’t exist in SPU’s Work Management System (MAXIMO). This means:
  - Some assets are not being maintained
  - Claims, public safety risks, etc..
  - Permit requirement to inspect catch basins
Before SWAMP...
After SWAMP...
Resource Projection

• 5 FTEs
  – 2 FTEs to support Master Planning; one in USM and one in FOM
  – 2 FTEs in support of system mapping and modeling
  – 1 FTE in support of Policy Development

• O&M non-labor to support plan development and technical studies
South Park Project

- Adjacent to the Duwamish Waterway
- Residential, commercial and light industrial areas
- Diverse neighborhood; high percentage of low-income families with children
- Historically underserved in street improvements and drainage & sewer service
- Project to install pump station and water quality treatment.
- Drainage improvements required.
Broadview and South Park Action Plan

Objectives

• Accelerated capital funding for two high priority flooding and sewer back-up projects.
• Additional $5M/year in D&WW CIP.
• Accelerates Broadview to 50% complete
• Provides additional conveyance to South Park facility
Benefits Provided

• Proactive investments in D&WW infrastructure
  – Service levels improved in targeted areas
  – Adequate coordination with external projects
  – Improved developer experience

• Accurate baseline mapping and modeling information

• Clear policy direction internally and externally