

# South Park in Good Weather



14<sup>th</sup> Ave S – Main Commercial Corridor



S Portland St – Industrial Area



S Director St - Residential

# South Park During Storm Events



December 2010



November 2012

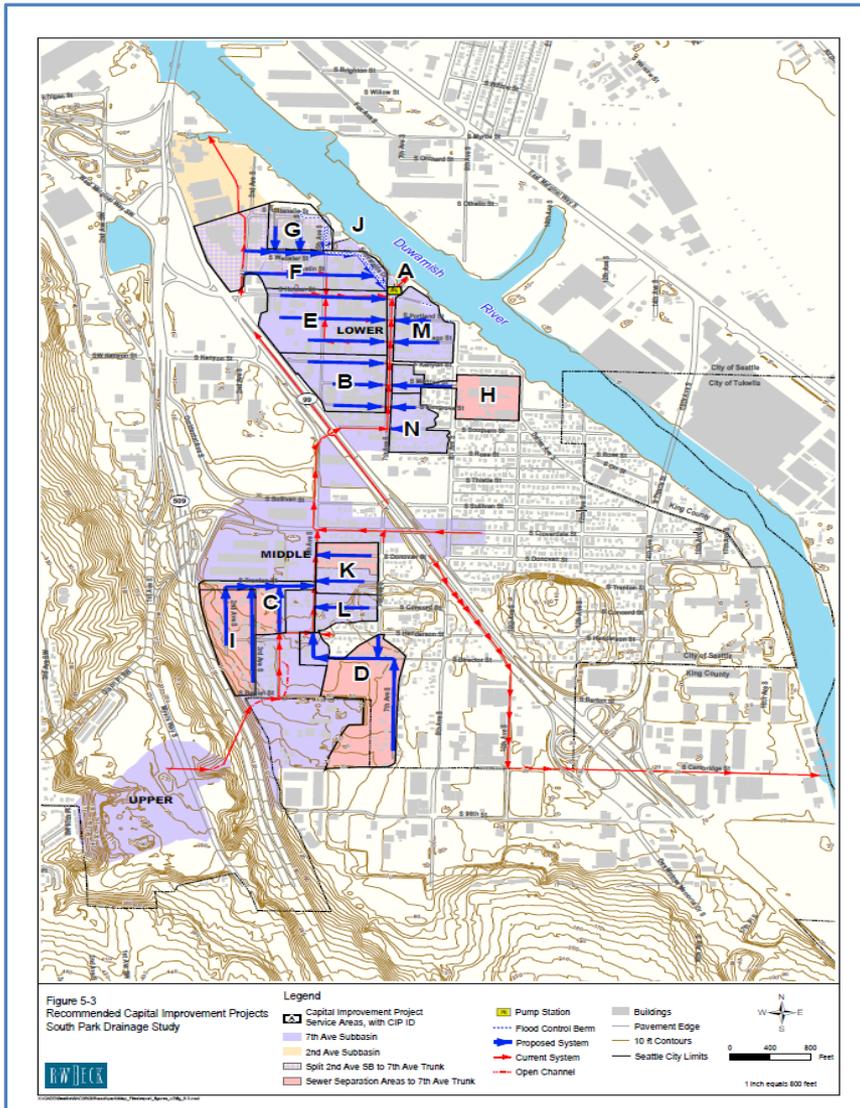


December 2007

# 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 7<sup>th</sup> Ave. Basin

Street	LF Pipe	Drainage costs
S Portland	1800	\$ 2.2M
S Chicago	1500	\$ 1.9M
S Kenyon	1500	\$ 1.9M
S Monroe	1300	\$ 1.7M
S Elmgrove	1200	\$ 1.5M
S Southern	300	\$ 0.4M
S Holden	1200	\$ 1.5M

**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

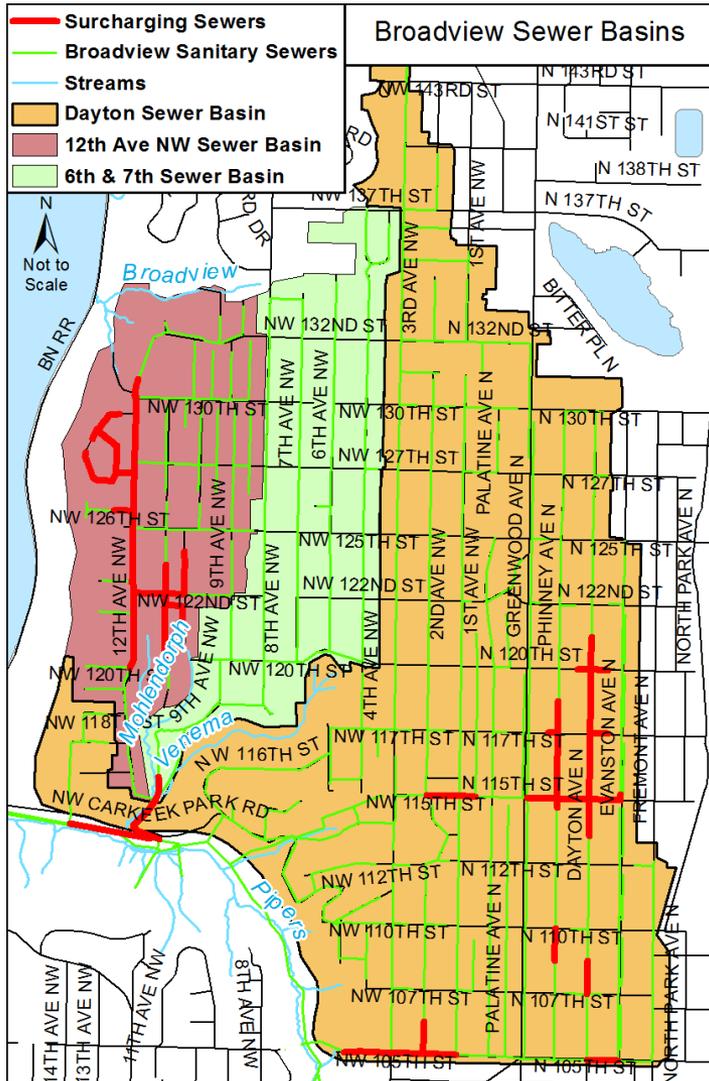
Work can be completed in half the time with Action Plan funding.

	Spending	LF/Year	Years
Baseline	\$ 2,000,000	1565	4
Action Plan	\$ 4,000,000	3130	2

- **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.
- ❑ 12<sup>th</sup> 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

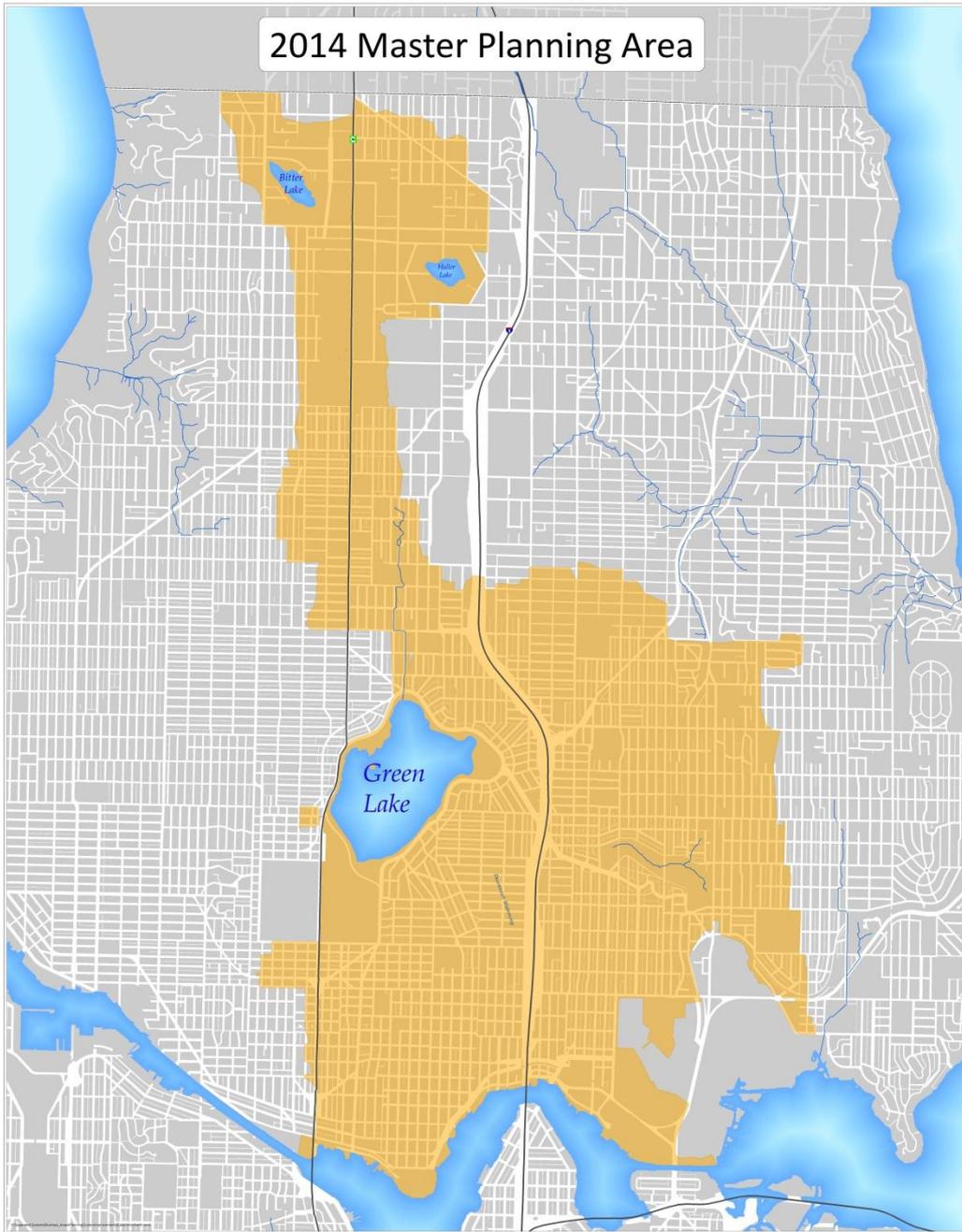
- ❑ Total funding needed \$65M
- ❑ Current funding \$22M
  - ❑ 12<sup>th</sup> Avenue NW basin only
- ❑ Additional \$10M 2016-2020
  - ❑ Provides funding to either finish 12<sup>th</sup> Avenue NW basin or initiate work on Dayton basin.



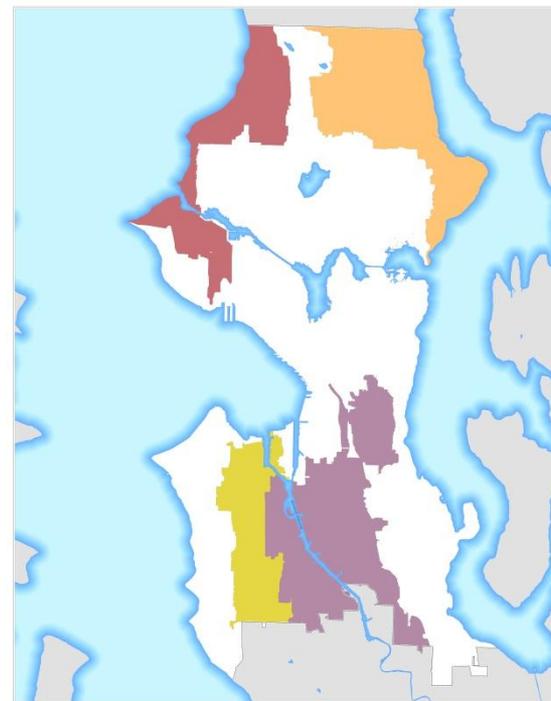
# D&WW Planning & Policies Objectives

- 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

### 2014 Master Planning Area



### Future Planning Areas 2015-2019



# Surface Water Assets help direct rainwater to a conveyance system

- Catch basins



- Inlets



# Informal Surface Water Assets

## Ditches



## ■ Culverts



# Project Drivers

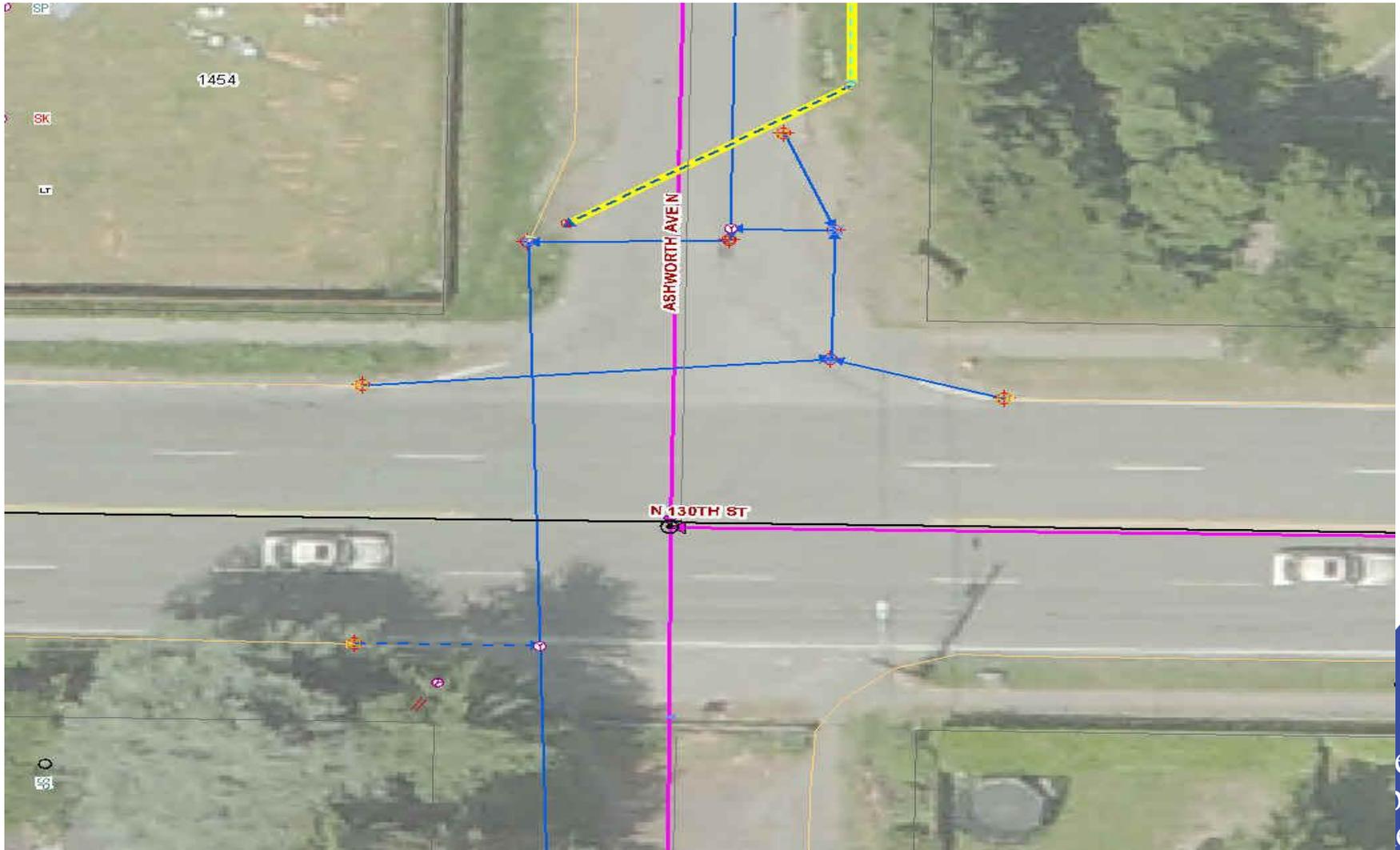
- If an asset isn't captured in GIS, it doesn't exist in SPU's Work Management System (MAXIMO). This means:
  - Some assets are not being maintained
  - Claims, public safety risks, etc..
  - Permit requirement to inspect catch basins



# 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