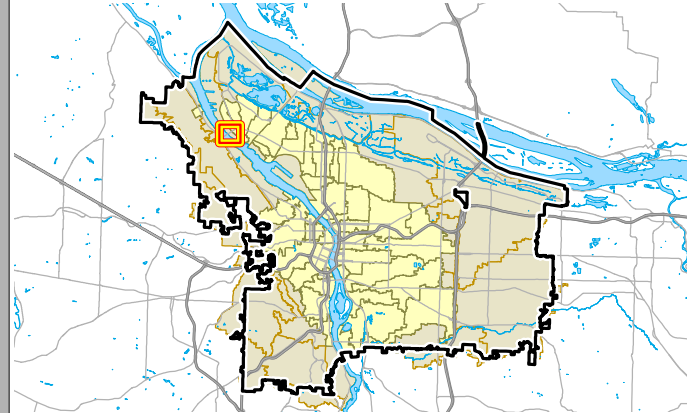
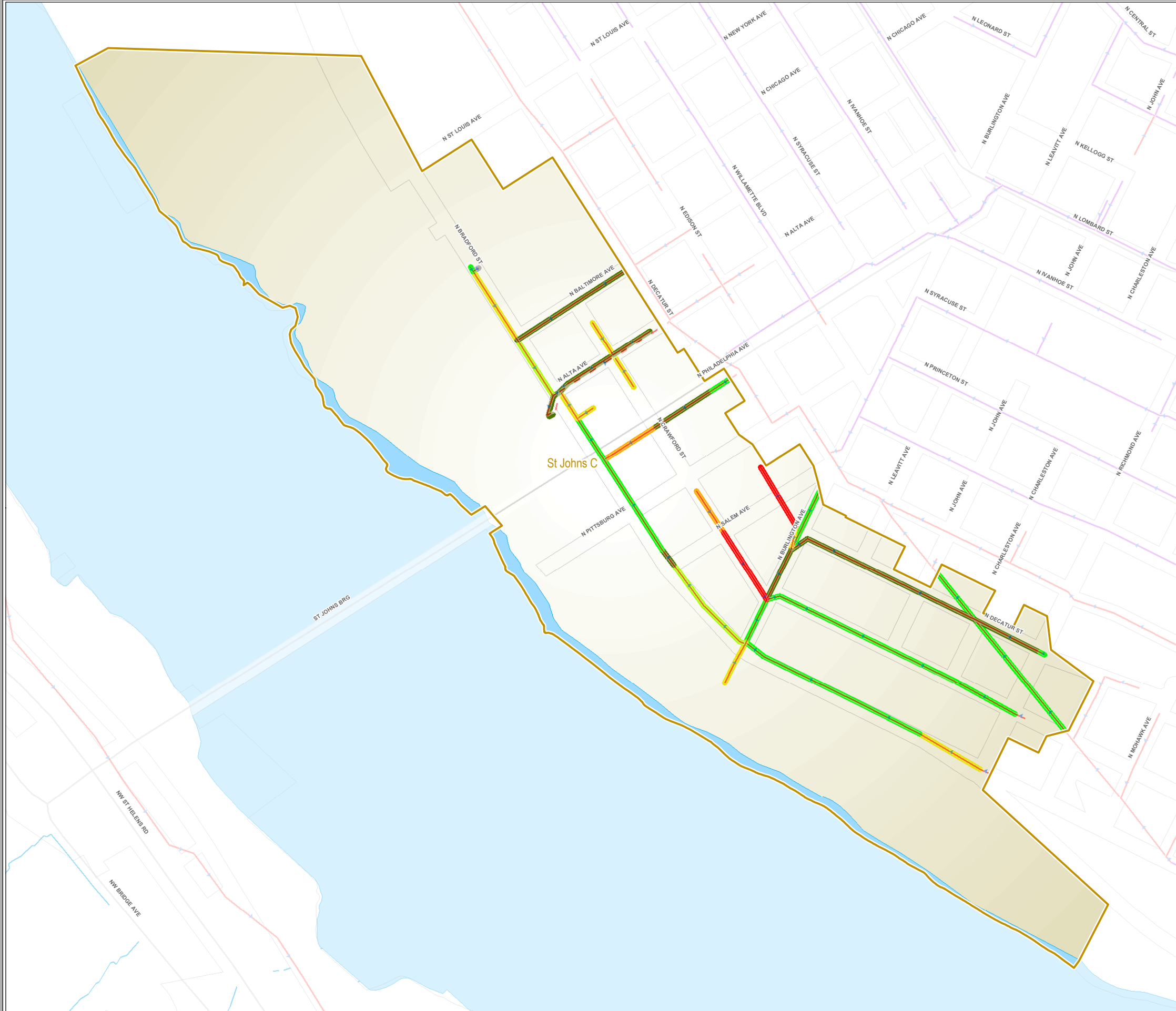


Produced by Asset Systems Management: Map Request 6196 (KDR) May 31st, 2012 \\CASSIO\Systems\_Planning\SCIP\Phase\_1\Mxd\Report\_Figs\Tractive\_Forces\_Sjc.mxd



**Legend**

- City of Portland
- Combined Sewer Basin Boundary
- Sanitary Sewer Basin Boundary
- Sanitary Sewer Pipes
- Sanitary Pressure Mains
- Combined Sewer Pipes
- Combined Pressure Mains

**Tractive Force Analysis**

Maximum Suspensible Particle Size (mm)		
—	No Flow	
VH	0.00001 to 0.01	Cannot clean sanitary solids / fine silt
H	0.01 to 0.06	Cleans sanitary solids / silt only
M	0.06 to 0.3	Cleans some stormwater solids/fine sand
L	0.3 to 1.0	Cleans most stormwater solids up to coarse sand
VL	1.0 to 50	Cleans up to coarse pebbles
??	> 50 mm	Clean pebbles and cobbles

**CMOM SCIP Models**  
**Collection System Basin**  
**Tractive Forces**

**St Johns C Basin**

Drawing Not To Scale

**ENVIRONMENTAL SERVICES**  
CITY OF PORTLAND  
working for clean rivers

Date Printed: May 31st, 2012