

Going with the Flow

Pretreatment Programs Accepting Stormwater



Service Population 200,000
22 MGD total at 2 WWTP
19 SIUs (11 CIUs)



Vancouver

Separate sanitary / storm

I/I under control

120% - 140%

Port, rail and ship
repair facilities



Collection System

- Conveyance capacity relatively smaller than CS system



Drivers

- NPDES general stormwater permit – lower pollutant limits
- NPDES individual stormwater permitting
- Port of Vancouver
- Groundwater treatment / management
- Water resource protection (Vancouver has an extensive WRP program)



Acceptance Criteria

- **Industrial characteristic**
 - Actual & Potential
- **Limit areas to industrial activity**
- **Engineering Report**
 - BMPs
 - AKART (including direct discharge opportunity)
 - Retention / storage capacity
 - Compatible / beneficial treatment at plant



Flow Management

City Looks at . . .

Sewer Capacity

Hydraulic Load

Pretreatment Capacity

Industry Must . . .

Minimize contributing areas

Delay discharge from peak time

Storage for Design Storm

Written Plan

Flow Limits – peak &
avg daily for wet
weather

SDCs

Storage quantity

Provision to provide max storage

Pretreatment system operation

Permit Conditions



Flow Management

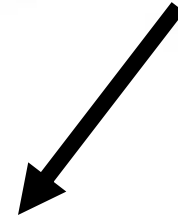
Average flow limits and SDCs apply for wet weather months only

Storage capacity required to handle the “six month storm” – 64% of the 2-year, 24-hour storm event per Isopluvial Maps for Clark County.

For Port facilities, 1.6” / 24 hours



Ore In









Ore Out







← TRACKS

← ORE









Clunkers







