

Stormwater Pollution Prevention in the Port of Vancouver

Presentation to the Burrard Inlet Science Symposium, Stormwater Edition

May 13, 2019

Jurisdiction





Stormwater Management





Stormwater Pollution Prevention





Stormwater pollution













Stormwater characterization study

- Goal: capture worst-case scenario (first flush)
- Approximately 30 outfalls at 12 industrial and commercial sites through Burrard Inlet each in 2017 and 2018
- Analyzed for total metals, polycyclic aromatic hydrocarbons (PAHs), nutrients (e.g., phosphorous, nitrogen), petroleum hydrocarbons, general chemistry parameters (e.g., pH, conductivity) and bacteria (e.g., E. coli).
- Compared against CCME and BC MOE water quality guidelines for marine aquatic life, and BC Contaminates Sites Regulations



Stormwater characterization study

- Total Suspended Solids
- Metals: Copper, Lead, Zinc, etc.
- Hydrocarbons
- pH
- Nitrogen
- Phosphorous
- Bacteria



Stormwater Pollution Prevention



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Guidelines

To assist applicants has developed appli Development team

Application gui

Project and Environr Project and Environr Works and Activities

Technical guide

Technical studies m require Aboriginal, s review phase of the note these guideline

Aboriginal Consultat Air Emission Manage Construction Enviror Designated Projects Environmental Air As Environmental Noise Habitat Assessment

Canada

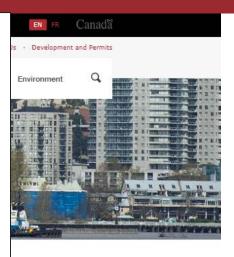
Lighting [PDF]
Public Consultation [PDF]



Project & Environmental Review

Guidelines –
Construction Environmental
Management Plan (CEMP)

July 2015





Purpose of Effective SPPP

- Design systems appropriate for the site
- Prevent or reduce pollutant loading of stormwater
- Treat or otherwise manage stormwater if pollutant loading cannot be prevented
- Reduce the amount of stormwater discharged to the environment



Stormwater pollution prevention

Prevent

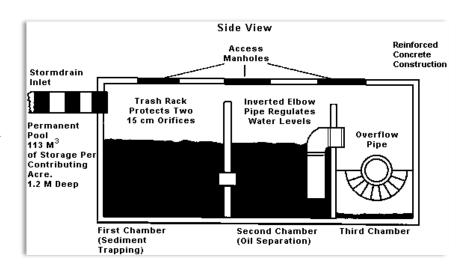




Contain/reduce

Treat









EXAMPLE 1 (2014)





EXAMPLE 1 (2018)











EXAMPLE 3