









# (CON) Report for evaluation to the Construct

### RI Stormwater Standards (RIPDES Requirements)

- Low Impact Development (LID)
- Groundwater recharge required
- Water quality treat runoff (WQV)
  - 85%TSS
  - 60% Pathogens
  - 30% TP (Fresh Water)
  - 30% TN (Salt Water)
- > Natural channel protection address erosion
- Overbank flood protection







# (COR) Known for weather as Botton frost.

### Management of contaminated sites

- > All are unique
- > Types of contaminants present (biodegradeable? flamable?...)
- Differentiate between "clean" and "dirty" areas
- Minimize run-off (infiltrate)
- > But, infiltration not possible at many contaminated sites





# Case Study 1 – South Street Substation

- Located along the Providence River in Providence, RI
- Rebuild of existing substation (5+ acres); included:
  - Demolition of existing substation and control house
  - Construction of new building
  - Relocation of existing overhead transmission line below ground

## (CR) Report for great area. Bo that food

GEN Report for event area. But the first

### Case Study 1 – South Street Substation

- RIDEM regulated site due to contamination from prior uses brownfields
  - Excavate/remove certain contaminated soils
  - > Install engineered cap (impermeable barrier) selective?







# (CON) Known for wood a rose. Bo from treat

### Stormwater Management Challenging

- > Underground utilities everywhere
- > Limited stormwater allowed in existing municipal system
- > Impermeable liner may cause safety issues related to electrical system



# Final Plan Completed a Green/Yellow/Red assessment of infiltration suitability of soils Roof runoff treated separately (small infiltration basin in green area) Transformer area, properly located, allowed to infiltrate (yellow area)

# (CAR) Encore for exact an as Borton inst.

### • Final Plan

Additional treatment provided by 2 infiltration trenches (to accommodate WQV) – to capture and treat as much runoff as practicable from paved surfaces











