## Background:

The City of Vancouver (COV) has proposed a new development on the site of the Vancouver National Yard (see map in slides). The site is being developed into a mixed residential/commercial neighbourhood consisting of luxury condos, high-end retail and single-family homes. Your firm has decided to write a letter of intent (LOI) indicating your interest in competing for the contract to develop the area’s “stormwater management plan”.

COV has the following specific concerns for this site:

1. Projections show storm surge in False Creek is likely to increase, potentially causing billions of dollars of damage. How will your approach prevent storm surge from flooding the area?
2. This area is served by combined sewers. A key COV goal is to reduce the number of Combined Sewer Overflow (CSO) events. How will your approach accomplish this?
3. Previously, this area was used as a train yard, and a number of chemical contaminants are known to be in the soil. Our Environmental Site Assessment identified that the most cost-effective mitigation method for these contaminants was to “cap” them with a layer of soil and wait for them to degrade. How will your approach ensure that these chemicals are not re-mobilized and transferred to groundwater or washed into False Creek?

The front side of this hand-out will guide your team through the ideation process for generating the core of your team’s pitch. On the back, you will compare with another team representing a different engineering philosophy and together generate the best potential stormwater management plan.

## Frontside – Each Group Independently

1. Give an overview of your team’s stormwater management plan. Will you focus on low-impact development technologies or “traditional” conveyance and storage technologies? What are some specific things that you will build?
2. How will your approach prevent flooding from storm surge?
3. How will your approach reduce the number and volume of CSOs?
4. How does your approach prevent soil contaminants from being remobilized?
5. What is one unique or showpiece aspect or technology in your plan? Why will it “wow” the client?

## Backside – Partner with another Group

1. Which aspects of the design were hardest for the “traditional” teams?
2. Which aspects of the design were hardest for the “LID” teams?
3. Overall, do you prefer one of the approaches?
4. Take a few minutes as a team and together come up with a single stormwater management plan. This can include aspects of both designs, reflect only one design, or be something completely novel. Then, give an overview of your combined stormwater management plan.
5. How will your combined approach prevent flooding from storm surge?
6. How will your combined approach reduce the number and volume of CSOs?
7. How does your combined approach prevent soil contaminants from being remobilized?
8. What is one unique or showpiece aspect or technology in your combined plan? Why will it “wow” the client?