# Colliery Dam Park

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### COLLIERY DAM PARK

#### WE DO NOT KNOW

- Spillway capacity -Let us see the numbers
- Water Distribution where does the water go?
- Auxiliary Spillway without the studies we do not know what we need

#### WHAT WE NEED TO KNOW

Can the concrete wall survive the design flood?

- Is the concrete strong enough?
- What are the dimensions and geometry of the concrete wall?
- Will The concrete fracture or erode?

#### WHAT WE NEED TO KNOW

If the concrete wall will not survive:

- Do we need more rock to support it?
- How much water will flow over the dam in the design flood?
- What is the lateral dissipation of the water once the spillway has reached capacity?

#### WHEN WE HAVE THE ANSWERS:

We can then determine what upgrades we need.

- Do we support the dam wall?
- Do we protect from overtopping?
- Do we redirect the water?

#### WHAT IS THE REAL STORY

- What happens to Nanaimo in a hypothetical 34,000 year flood
- Happens over time days
- Evacuation occurs downstream before dam crests
- Flood damage throughout Nanaimo has occurred
- Possible dam failure damage is incremental to wide spread existing flood damage

#### WHAT IS THE REAL STORY

- City maintains that risk remains severe from a 34,000 year flood event
- Risk Assessment is ignored
- We do not know what will happen, pure speculation

#### WHAT WE NEED TO KNOW

We have spent \$3 million and we still do not know:

- The dimensions of the lower dam
- Is the concrete strong enough to resist erosion
- Will it fail if overtopped
- The technical information regarding spillway capacity

## WHAT'S NEXT

#### There is absolutely no urgency

- Insufficient data on record to support proposed option
- Water level has never exceeded half of measuring board
- Important to maintain realistic surveillance and emergency planning
- Compile data for best solution

#### Basic Requirements

- Spillway measurements over high rainfall season
- Dam dimensions and make up of concrete and rock buttressing

#### COMPLY OR DEFY.

- DSS has a history of accepting flawed studies
- Time to do it right
- Defy this Order and stand up for what is right

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#### THANK YOU