



## Nutrient Scenarios for Budd Inlet

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(presented by Mindy Roberts)

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Deschutes Advisory Group

## Deschutes Advisory Group (DAG) Scenarios

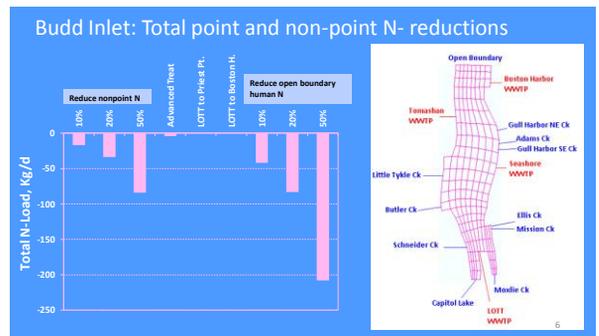
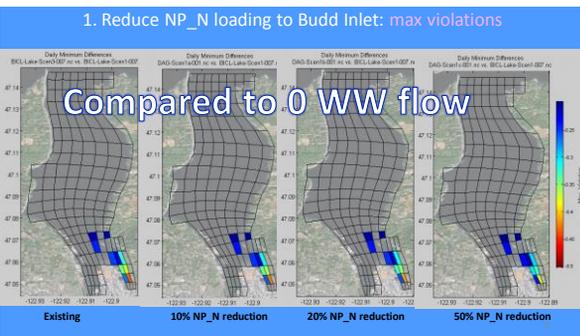
1. Reduce non-point N\_loading to Budd Inlet
2. Advanced nitrogen removal at all WWTPs
3. Extend LOTT outfall
4. Reduce N\_load at open boundary

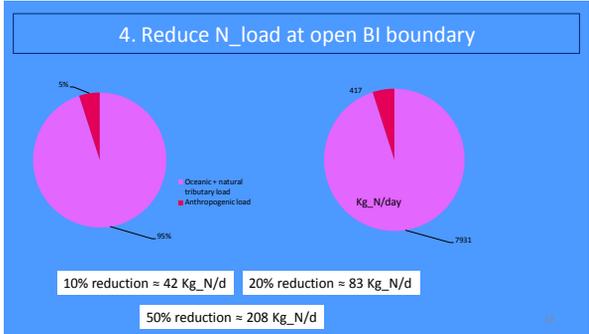
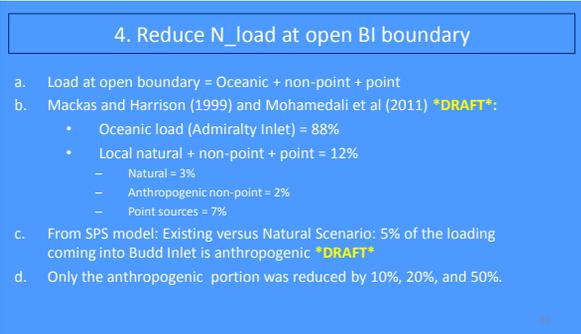
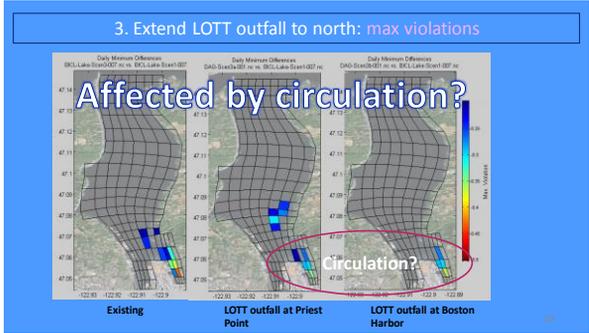
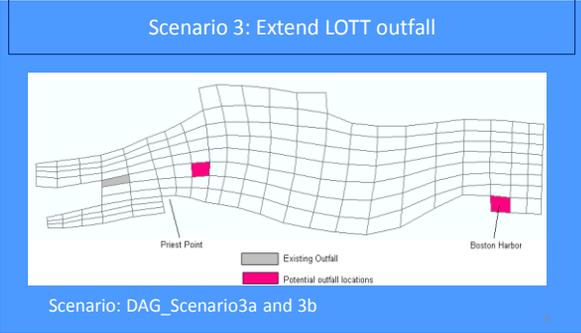
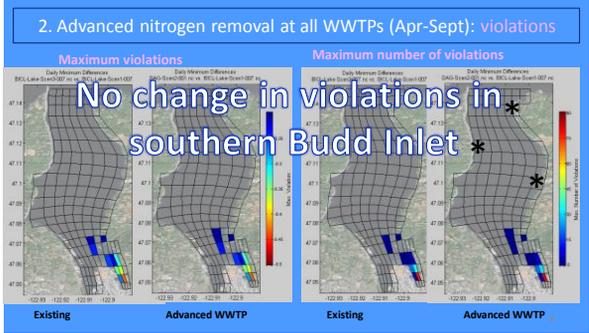
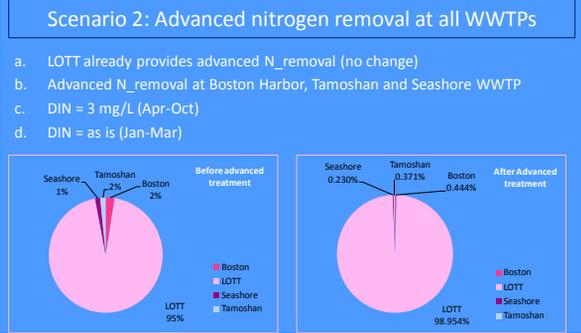
## Deschutes Advisory Group (DAG) Scenarios – preview of results

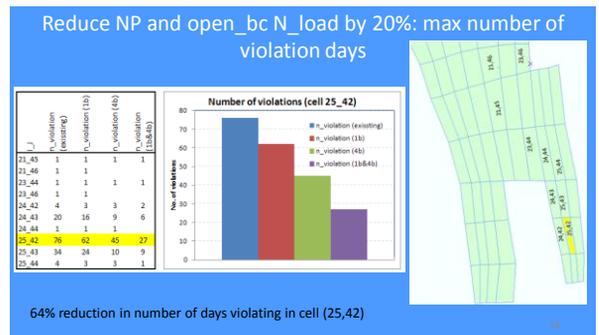
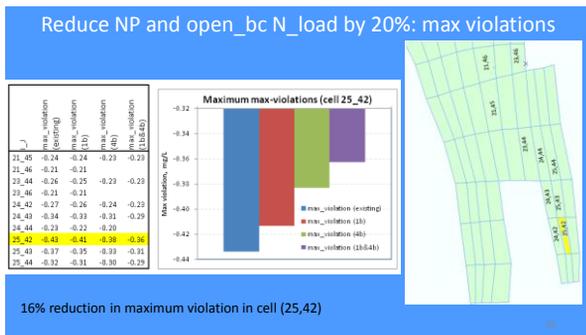
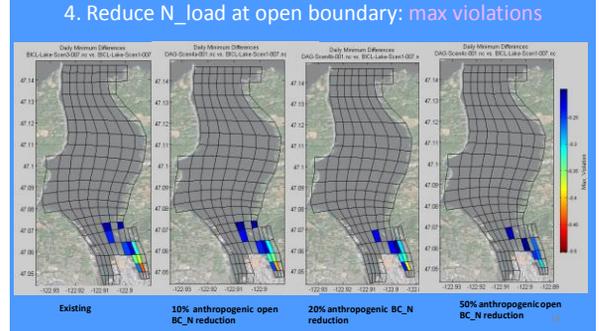
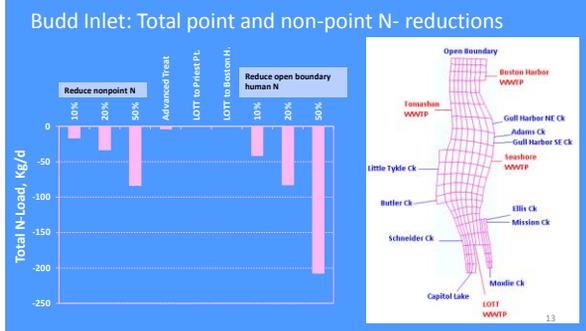
1. Reduce non-point N\_loading to Budd Inlet: *beneficial*
2. Advanced nitrogen removal at all WWTPs: *no effect*
3. Extend LOTT outfall: *somewhat beneficial*
4. Reduce N\_load at open boundary: *complicated*

## Scenario 1: Reduce non-point N\_loading to Budd Inlet

- a. Non-point can only be reduced to natural conditions
- b. Reduce the difference between existing and natural conditions
- c. Keep point source at existing conditions
- d. Scenario: DAG\_Scenario1a, 1b and 1c







### Complication: Circulation

- Freshwater wastewater flows affect circulation in East Bay and somewhat in southern Budd Inlet
- Wastewater provides freshwater and also nutrients – have different effects on dissolved oxygen

### Deschutes Advisory Group (DAG)\_Scenarios – Results

- Reduce non-point N\_loading to Budd Inlet: *beneficial*
- Advanced nitrogen removal at all WWTPs: *no effect*
- Extend LOTT outfall: *somewhat beneficial; affected by circulation*
- Reduce N\_load at open boundary: *complicated*