



*Okanagan Basin*  
WATER BOARD

# **Drought and Flood Planning Committee Term 7 Report**

Presentation to the Water Stewardship Council

March 8<sup>th</sup> 2018

Scott Boswell

# The Drought and Flood Planning Committee

- Scott Boswell, OCCP – Chair
- Kellie Garcia, OBWB
- Danika Dudnik, RDCO
- Janelle Taylor, RDCO
- Luke Dempsey, City of Kelowna
- Rob Miles, City of Vernon
- Lorne Davies, BCWF
- Nelson Jatel, OBWB
- Susan Lapp
- Nargiz Rahimova, OBWB

# Objectives Term 7

- **Improved communication** for flood and drought issues across all levels of government.
- **A high level gap analysis for floodplain management** in the Okanagan region.
- Increases in consistency for Drought and Flood planning amongst municipalities.
- **Provide support for Drought Planning Initiatives (Kellie Garcia)**
  - Okanagan Mainstem Drought Stage Triggers Project
  - Okanagan Agriculture Water Supply Status Outreach Project

# Tasks Term 7

- **Background research, key stakeholder interviews.**
  - Review Flood management plans and reports
- **Identify priorities for Floodplain Management**
  - Floodplain Mapping, Dyke Breach Analysis, Flood Risk Assessment, Flood Mitigation Planning
- **Identified funding sources for priorities**
  - Community Emergency Preparedness Fund (CEPF)
  - National Disaster Mitigation Program (NDMP)

# Grant Submission Coordination

- Members of the Committee, local government staff and OBWB's Executive Director Anna Warwick-Sears provided assistance in coordinating and developing grant submissions for flood management.
- Okanagan Flood Mapping Coordination meeting.
  - 20 participants
  - Lidar acquisition and data processing
  - Flood modeling and mapping
  - Funding considerations for Lidar

### CEPF (approved December 2017)

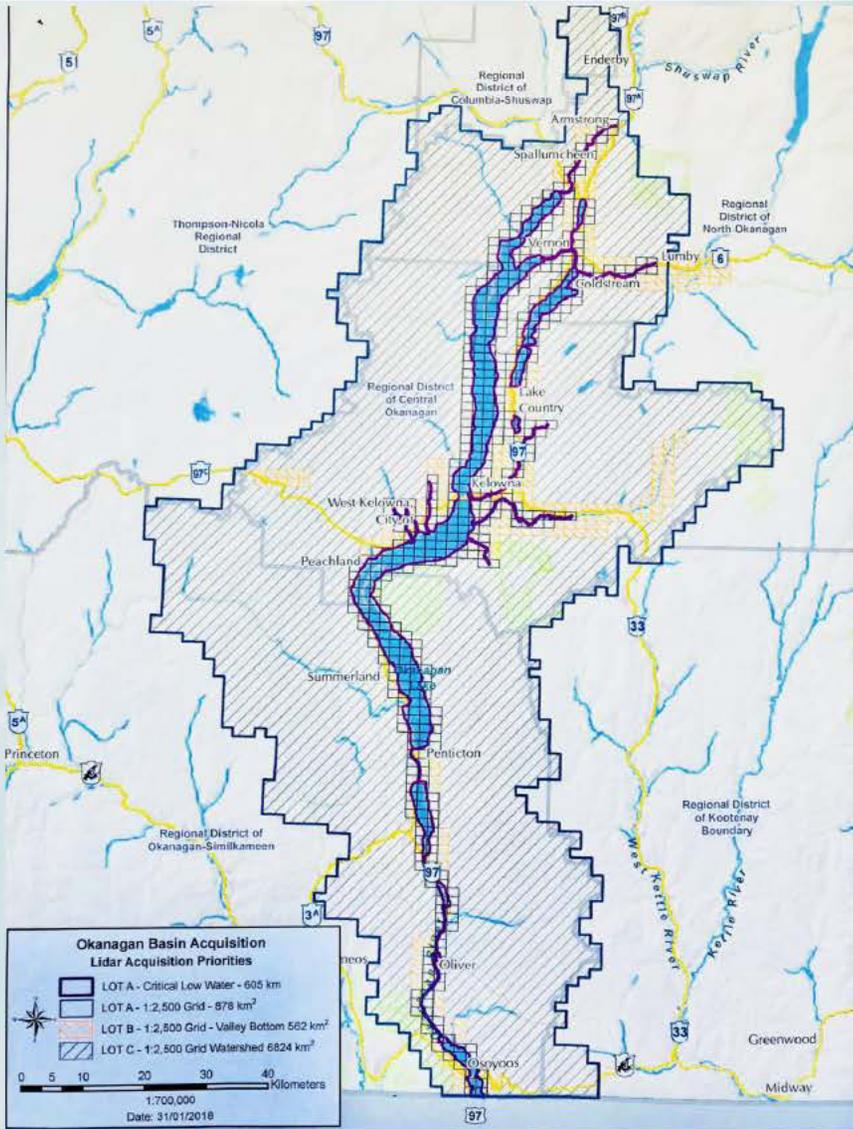
- RDCO – LiDAR Floodplain Mapping and Dike Breach Analysis (\$150,000)
- RDNO – Greater Vernon Lakeshore Flood Mapping (\$150,000)
- Armstrong – Flood Mapping and Mitigation Planning (\$79,302)
- Kelowna – Flood Mitigation Planning – Mill Creek (\$150,000)
- Penticton – Flood Risk Assessment (\$66,500)

### NDMP Intake 4 (Public Safety Canada decision expected May 2018)

- RDCO – Lakeshore Flood Mapping (\$270,000)
- RDOS – Okanagan River and Lakes Flood Mapping (\$570,000)
- Armstrong – Flood Risk Assessment (\$250,000)
- Kelowna – Flood Risk Assessment (\$250,000)
- Okanagan Nation Alliance – Flood Risk Assessment (\$450,000)
- Lumby – Flood Mitigation Plan (\$225,600) Approved September 2017



# Outcomes



# Lidar Mapping

- Surface data has a higher sample density, which improves results for floodplain delineation.
- Lidar does not have any geometric distortions.
- Can collect elevation data in dense forests.
- Can be integrated with other data sources.



Okanagan Basin  
WATER BOARD

## Outcomes

# Recommendations for Term 8

Committee to play a coordinating role to ensure:

- Consistency in data collection and floodplain mapping.
- Coordination on how the Lidar data can be shared and utilized amongst municipalities.
- Help identify the resources that will be needed to address the drought and flood management issues for risk assessment and mitigation planning.