

Fishtrap Creek Integrated Stormwater Management Plan (ISMP)

Stages 1 & 2 OVERVIEW

Development, Transportation and Infrastructure Advisory Committee

September 30, 2021

Engineering and Regional Utilities





9
**MASTER
PLANS**



4
**NEIGHBOURHOOD
PLANS**



7
PLANS & STUDIES



ALIGNMENT WITH OTHER MASTER PLANS/STUDIES



TRANSPORTATION



TRANSIT

Fishtrap
Creek ISMP

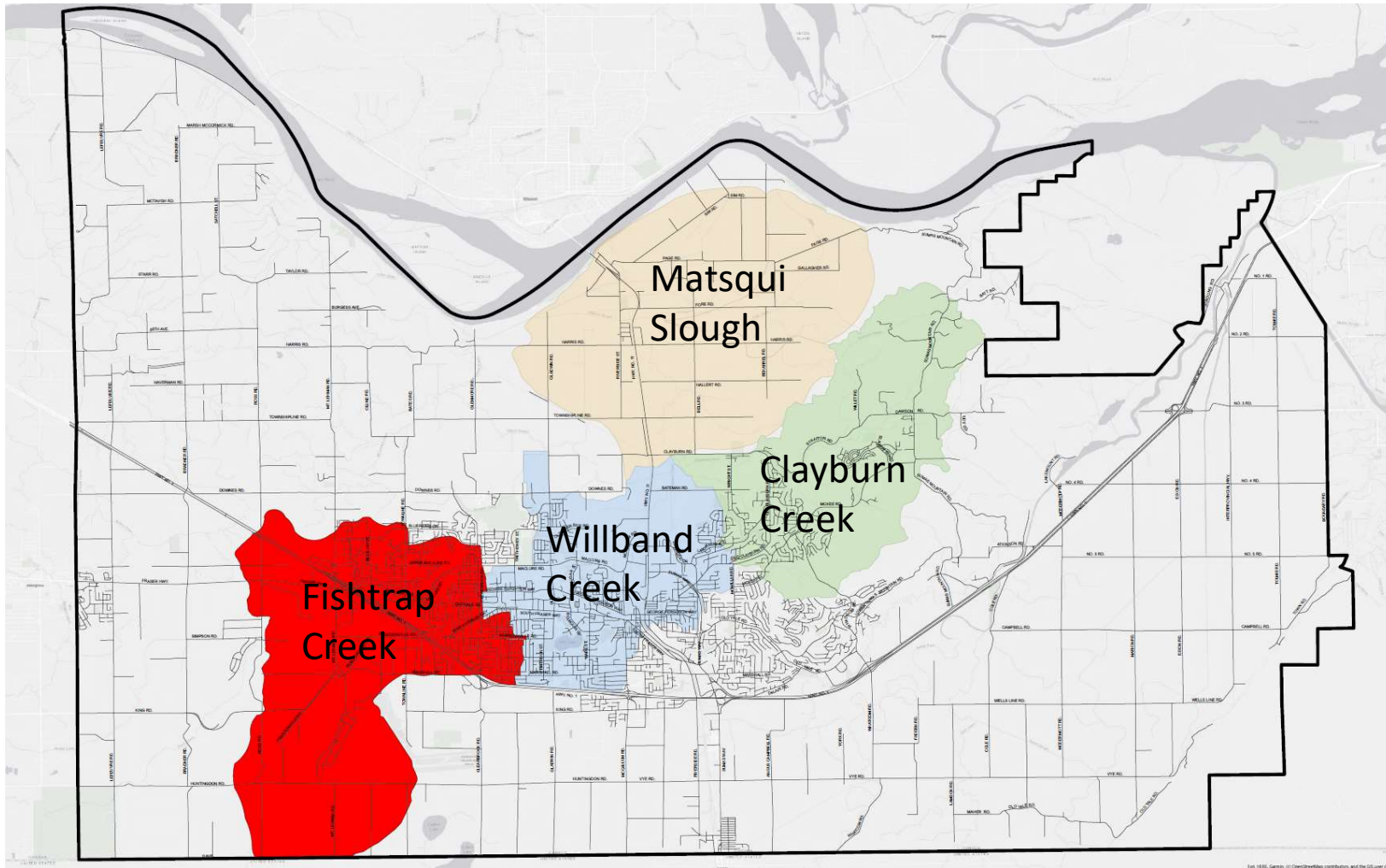


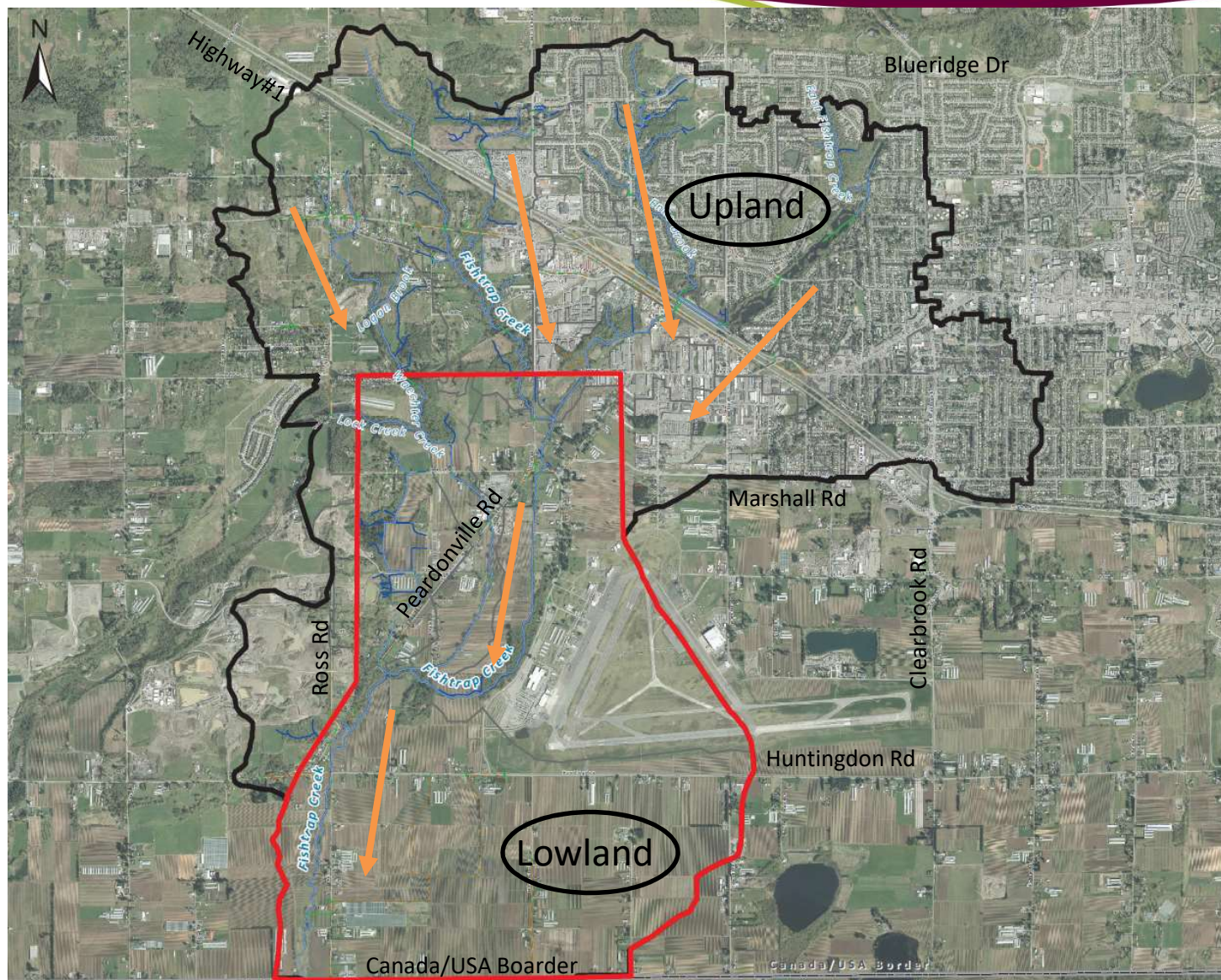
PARKS, RECREATION & CULTURE



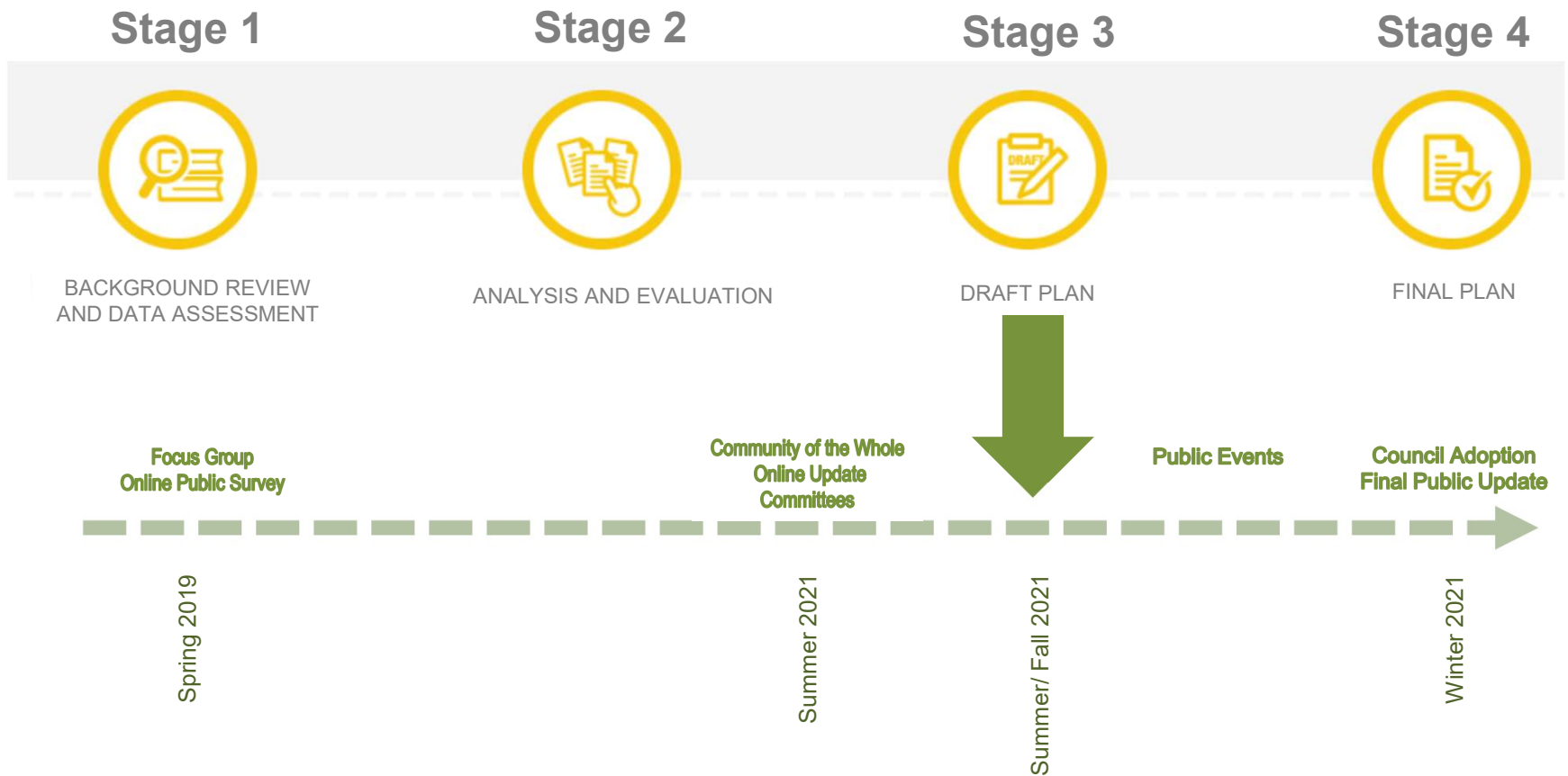
DRAINAGE

FISHTRAP CREEK WATERSHED





PROGRESS



ENGAGEMENT



Key Issues

- Poor water quality (creek channels and ponds)
- Overgrowing vegetation, beaver dams, and sediment depositions (Lower Fishtrap Creek & in-line detention ponds)
- Invasive plant species in uplands near urban development
- Species at risks (fish & wildlife)
- High risk channel erosion (Enns Brook and Fishtrap Creek mainstem)
- Localized flooding (parks, trails, roads and agriculture fields near channels/ponds)
- Climate change impacts
- Capacity of system

ASSESSMENT FINDINGS

Watershed Health



- Historic development impacts
 - Increased hard surface & peak flows
 - Runoff pollutants
 - Channel erosion & sedimentation
- Lack of watershed forest cover

ASSESSMENT FINDINGS

GEOTECHNICAL

Erosion Sites



Large portion of the watershed are well drained and offer good opportunity for infiltration

ASSESSMENT FINDINGS

INFRASTRUCTURE

- Majority of storm system is adequate now (93%), but need some upgrade for future developments (27%).
- About 82% of the existing culverts are adequate for now, and culvert upgrade needed for future development (26%)
- Detention systems generally have adequate capacity (72%); while deficiencies exist for system designed against historic criteria from different time period.
- Rise in source controls in recent years - a way of the future.

NEXT STEPS

- Public Consultation
- Stage 3 Draft Plan
- Stage 4 Final Plan

ALIGNMENT WITH OTHER MASTER PLANS/STUDIES



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DRAINAGE



RECOMMENDATION

It is recommended that the Fishtrap Creek Integrated Stormwater Management Plan Draft Overview – Stages 1 & 2 be received.

Questions / Comments?