Welcome to Public Information Meeting

What is the Fishtrap Creek Integrated Stormwater Management Plan?

The purpose of the study is to develop a Watershed Plan that enhances flood and environmental protection while facilitating orderly growth and development in the upland areas. The plan will investigate issues related to:

- Enhance flood protection
- Erosion and sediment deposition
- Environmental protection including aquatic resources, wildlife and their habitats, and forest areas.
- Quality and quantity of stormwater runoff









What can you do?

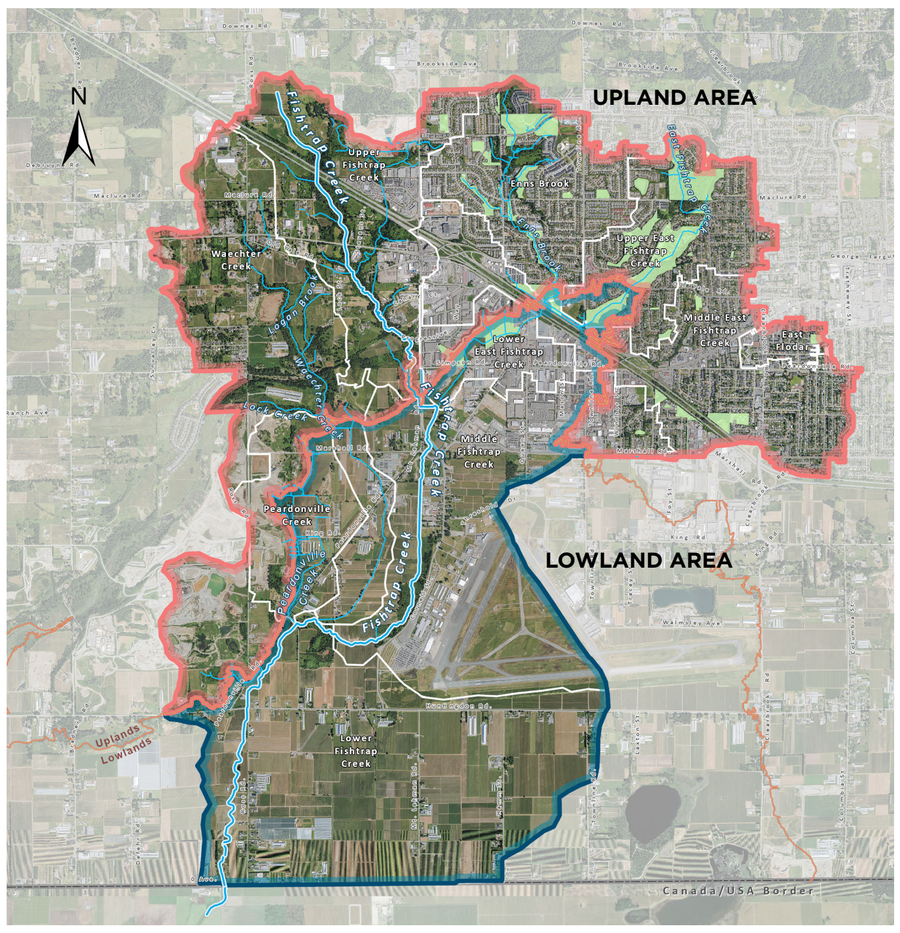
The Integrated Stormwater Management Planning process provides numerous opportunities for public involvement. We welcome your input today to help us finalize the Draft Plan. Please complete a Comment Sheet or submit feedback via the Let's Talk website https://letstalkabbotsford.ca/fishtrap by **Friday, February 27, 2026.**



Study Objectives

The objectives of the Fishtrap Creek Integrated Stormwater Management Plan are to:

- Address the development pressure in the watershed to minimize impacts on the environment.
- Mitigate the hydrologic impacts of existing and future development, including conveyance capacity issues and lowland flooding.
- Address erosion and sediment generation in upper creek sections, and deposition in lower creek sections.
- Improve the water quality of discharges into creeks;
- Protect and enhance riparian corridors.
- Maintain and enhance groundwater recharge and baseflows, including aquifer protection measures.
- Identify synergies / opportunities to achieve complementary objectives with other departments.
- Account for climate change impacts.



The study process includes:

Stage 1 Background Review and Data Assessment - **We received your input!**

Stage 2 Analysis and Evaluation

Stage 3 **Draft Plan** **(NOW) We need your input!**

Stage 4 ISMP Final Plan

Next Steps

Winter 2025/2026:

- First Nations Consultation
- Presentation to Council Committees
- Public Consultation

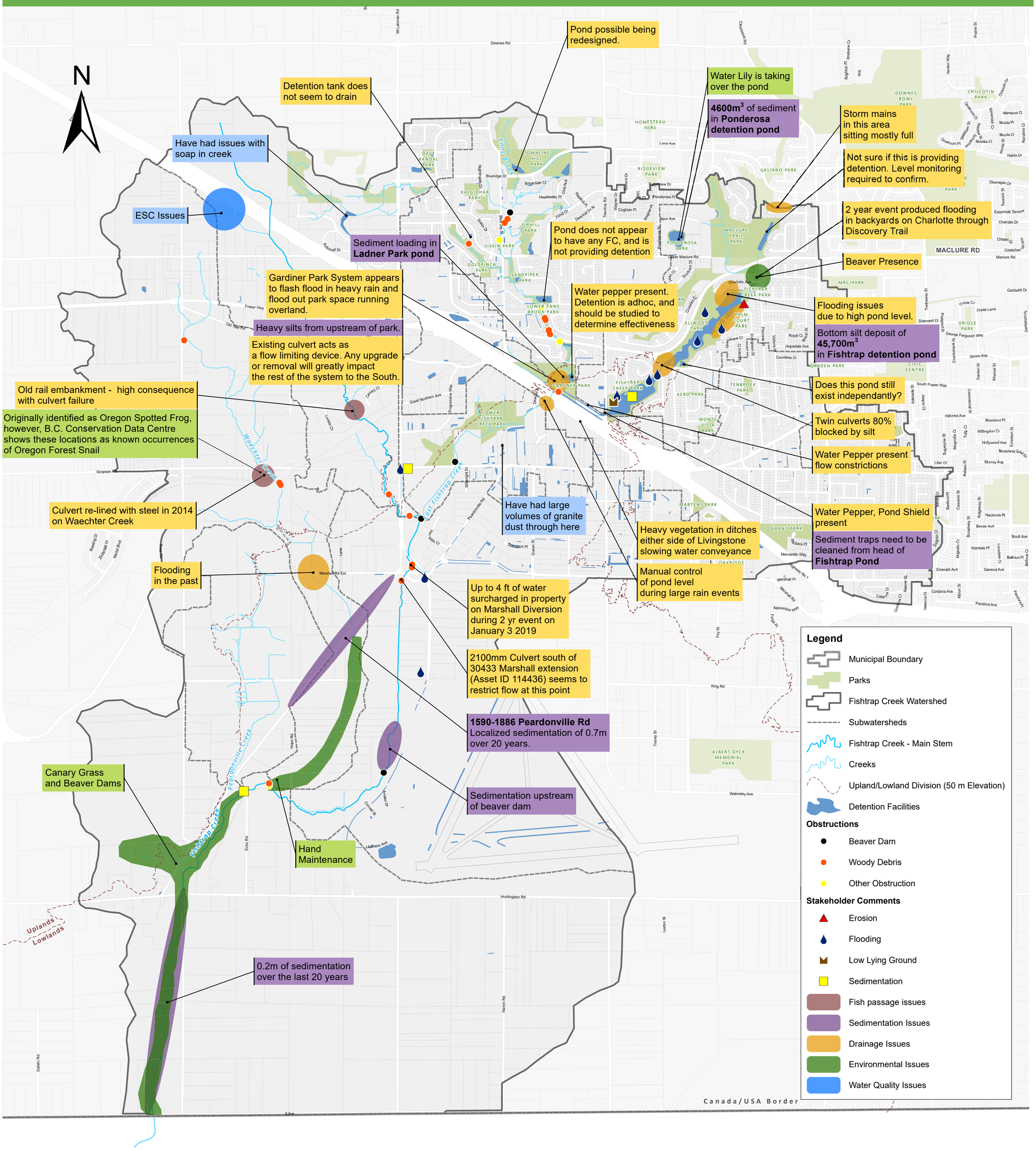
Winter/Spring 2026:

- Final Report to Council

City Known Watershed Issues

Identified Issues

- Poor water quality - creek channels and ponds
- Overgrown vegetation, beaver dams, sediment depositions, and reduced capacity in - Lower Fishtrap Creek and in-line detention ponds
- Invasive plant species in uplands near urban development
- Species at risks - fish and wildlife
- Channel erosion - Enns Brook and Fishtrap Creek mainstem
- Localized flooding - parks, trails, roads, Charlotte Avenue and agriculture fields near channels/ ponds
- Climate change impacts
- Capacity of drainage system



Fishtrap Creek

Integrated Stormwater Management Plan

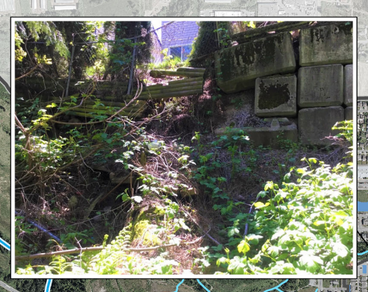
Recommended (Draft)
Erosion and Sediment Management

- Remove woody debris jams at 18 sites.
- Remove instream debris and beaver dams.
- Monitor known erosion sites.
- Enforce Soil Removal and Deposit Bylaw and Erosion and Sediment Control Bylaw.
- Enforce water quality treatment criterion for developments and City projects.

Undertake sediment/detritus removals from ponds:

1. Fishtrap detention pond estimated 45,700 m^3 of sediment.
2. Gardner detention pond estimated 1,700 m^3 of sediment.
3. Ponderosa detention pond estimated 4,600 m^3 of sediment.

Rehabilitate and stabilize two high risk sites.And stabilize with bioengineering the 10 moderate/low risk erosion sites











4600m^3 of sediment in **Ponderosa detention pond**

Bottom silt deposit of 45,700m^3 in **Fishtrap detention pond**

City Identified Erosion

Sediment traps need to be cleaned from head of **Fishtrap Pond**

Sediment loading in **Gardener Park pond**

Heavy silts from upstream of park.

Undertake design to reconfigure Fishtrap Ponds.

1590-1886 Peardonville Rd
Localized sedimentation of 0.7m over 20 years.

Sedimentation upstream of beaver dam

0.2m of sedimentation over the last 20 years

Canada/USA Border

Legend

- Municipal Boundary
- Fishtrap Creek Watershed
- Subwatersheds
- Fishtrap Creek
- Creeks and Streams
- Parks
- Detention Ponds
- 2019 Traversed Creek
- Found Bridges

Obstructions

- Beaver Dam
- Woody Debris
- Other Obstruction

Erosion Qualitative Risk

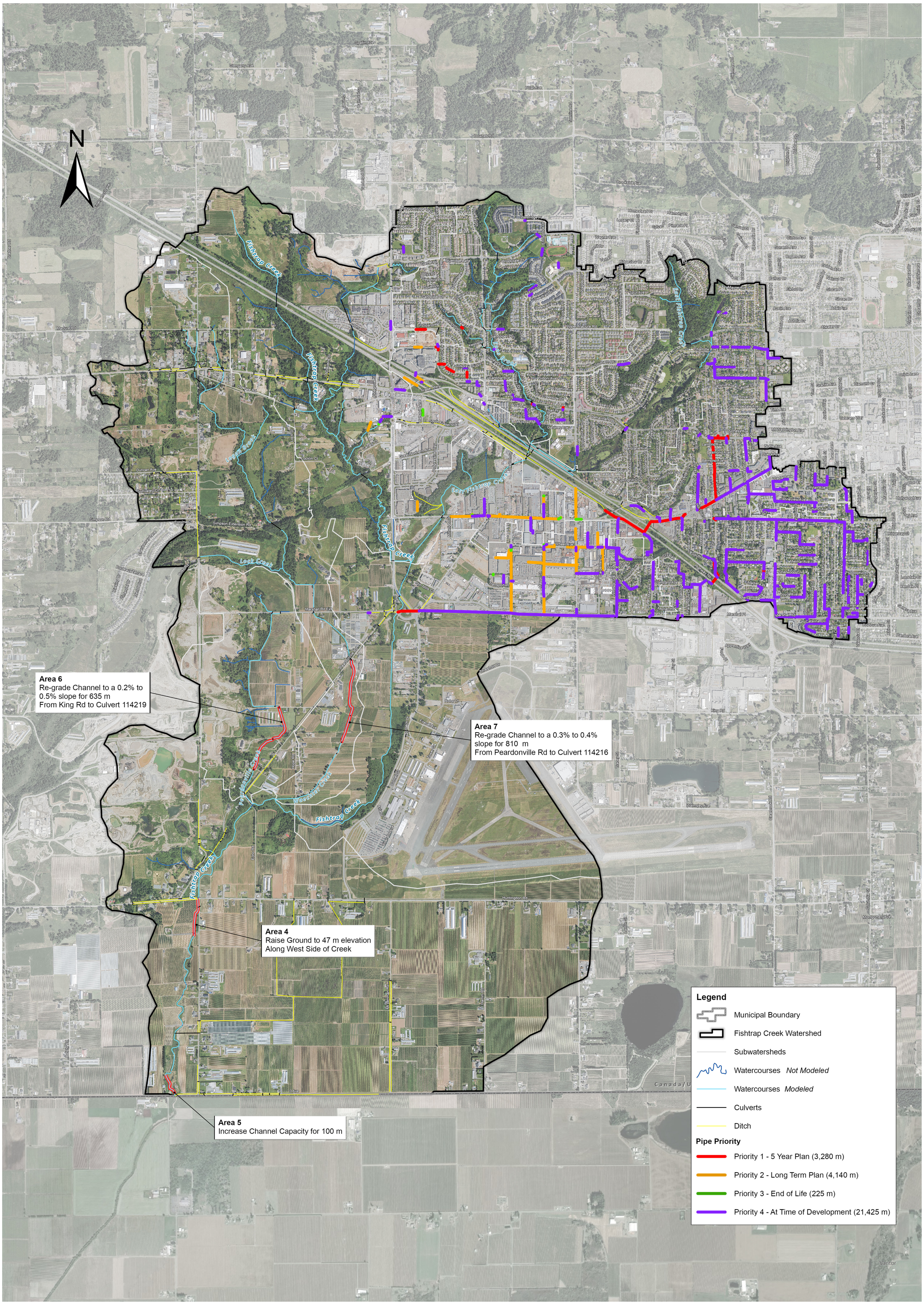
- Very High (1)
- High (1)
- Moderate (6)
- Low (3)
- Very Low (2)
- 2012 SHIM Erosion Site

Fishtrap Creek
Integrated Stormwater Management Plan

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Recommended (Draft)

Proposed Conveyance Upgrades - Pipe Upgrade Priority and Channel Upgrades



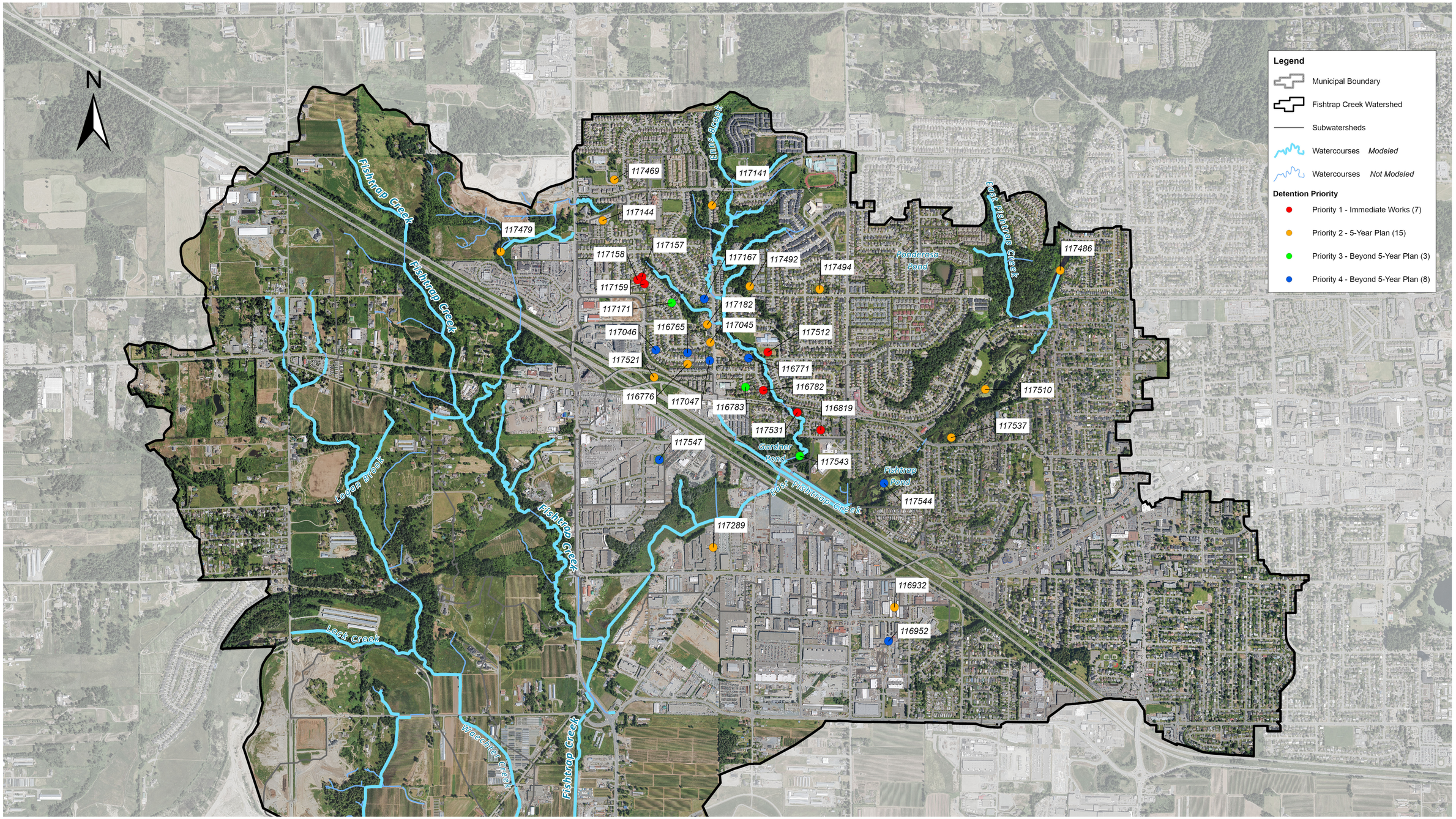
Fishtrap Creek

Integrated Stormwater Management Plan

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Recommended (Draft)

Proposed Detention Upgrades - Detention Priority



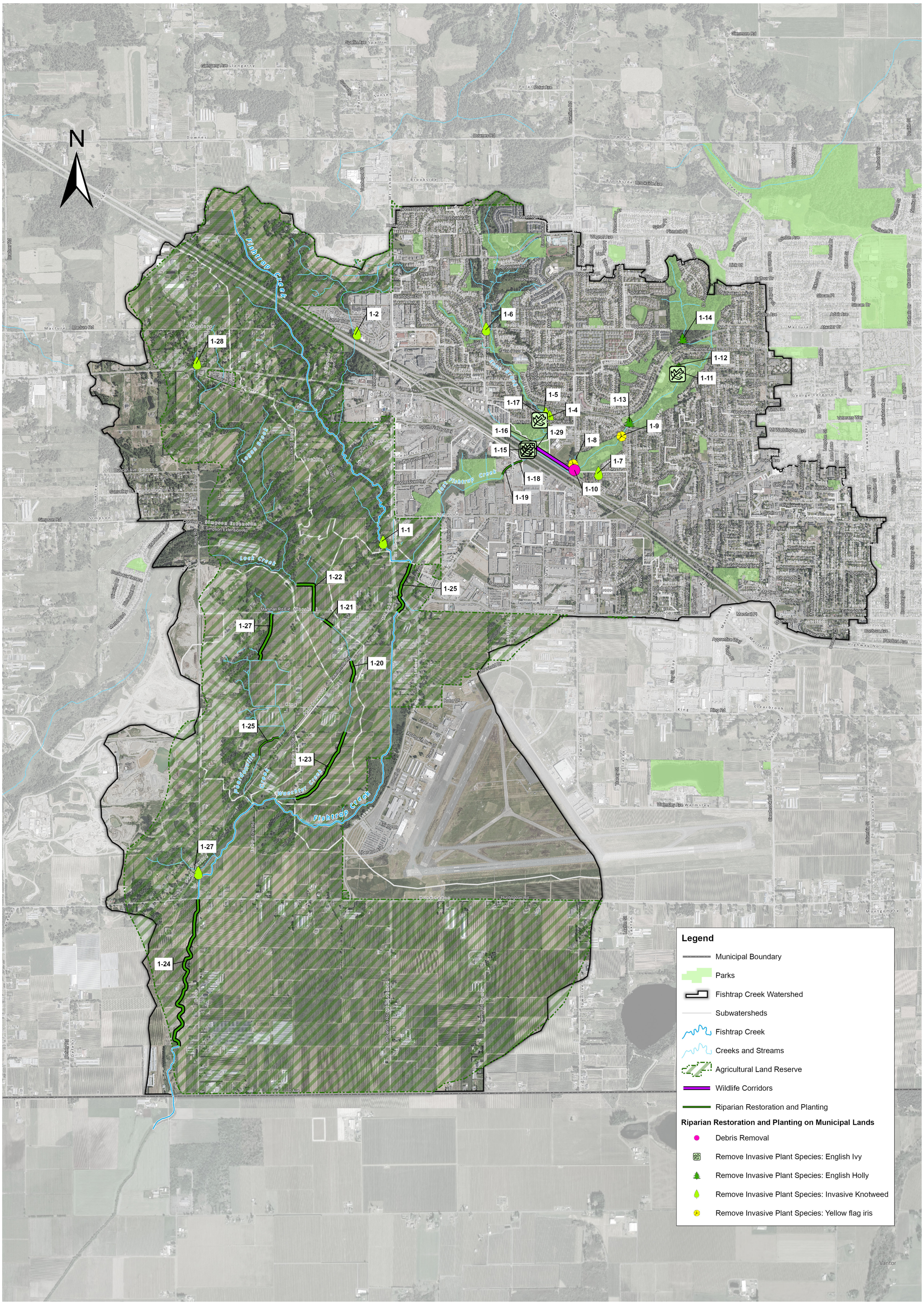
Fishtrap Creek

Integrated Stormwater Management Plan

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Recommended (Draft)

Stream Restoration, Enhancement, and Offsetting Projects



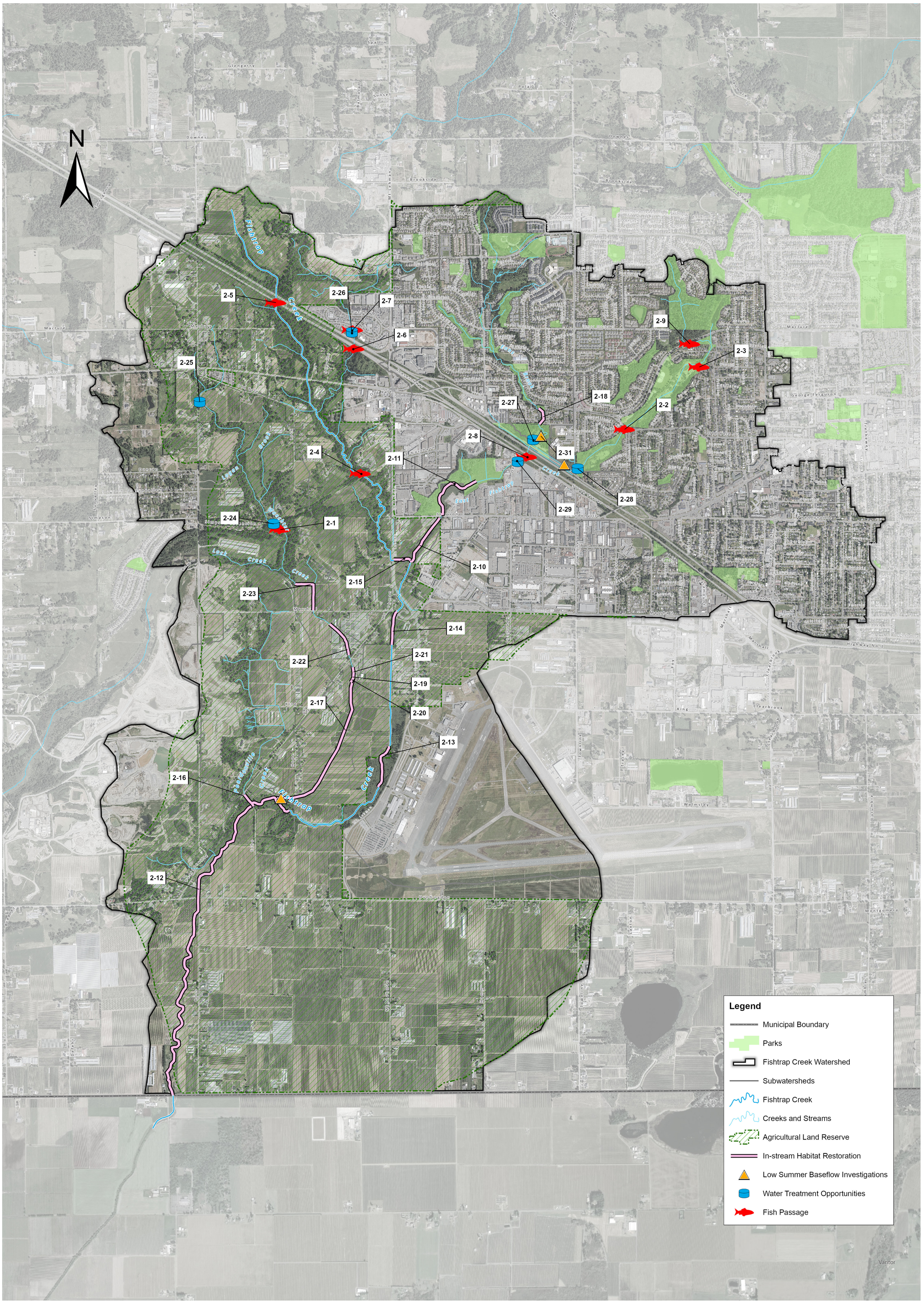
Fishtrap Creek

Integrated Stormwater Management Plan

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Recommended (Draft)

Stream Restoration, Enhancement, and Offsetting Projects

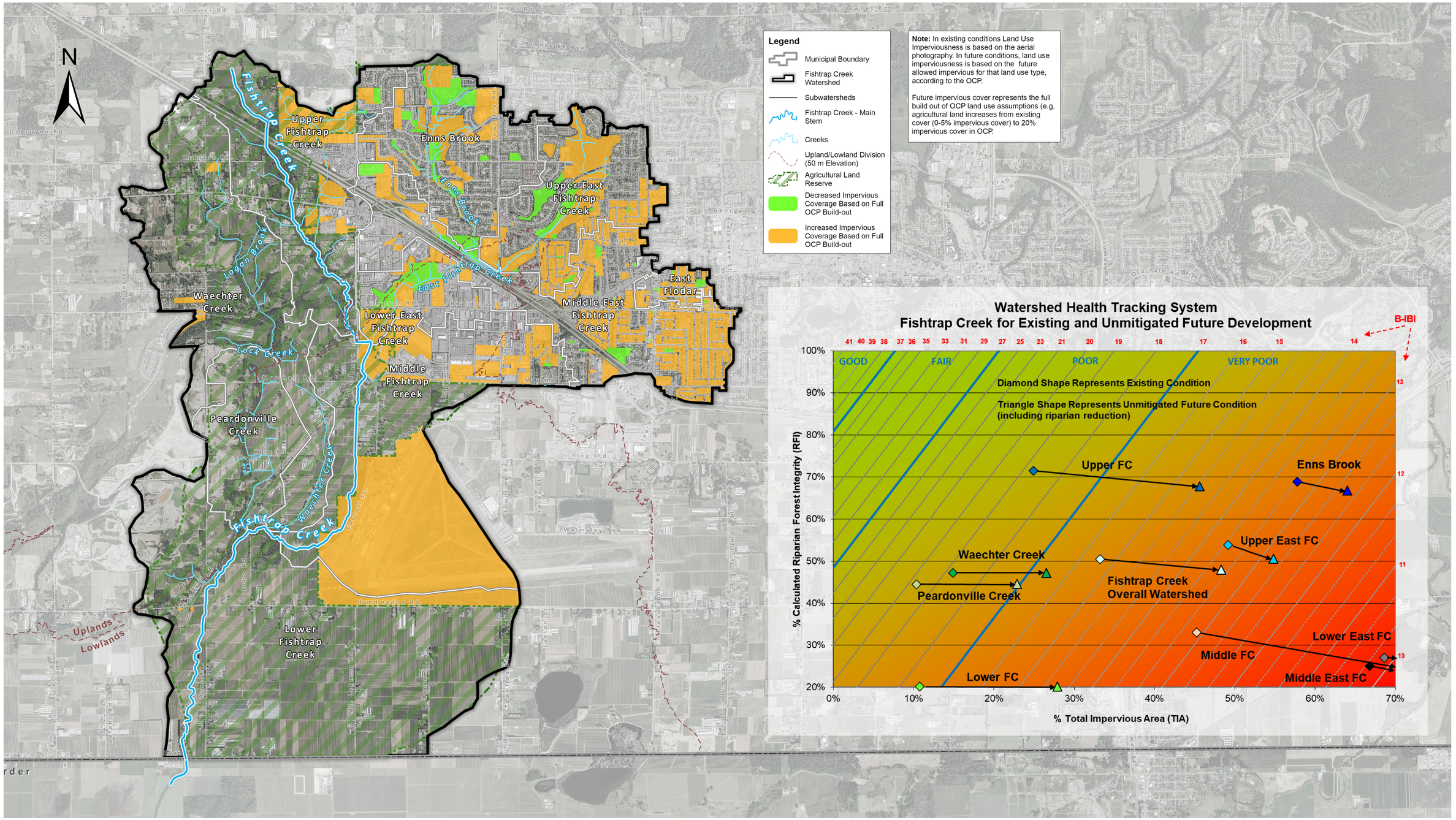


Fishtrap Creek

Integrated Stormwater Management Plan

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Imperviousness Change (Existing Conditions to Full OCP Build-Out)



Fishtrap Creek

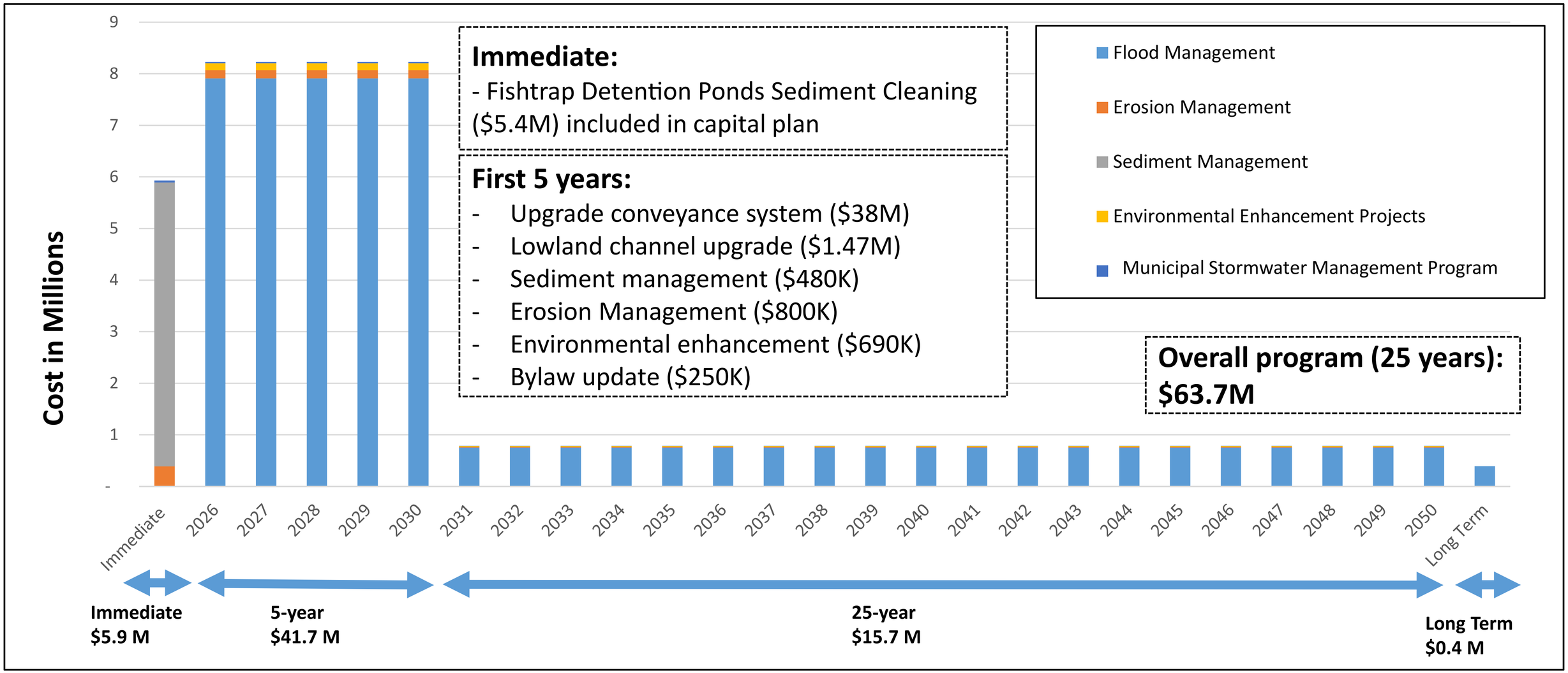
Integrated Stormwater Management Plan

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FINANCIAL IMPLICATION

FINANCE AND TIMELINE

*Finance/Timeline of projects will be incorporated into the upcoming overall Drainage MP Update for prioritization



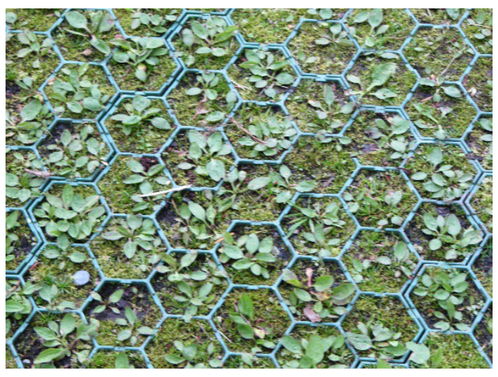
Recommended Fishtrap Creek Watershed Criteria

Category		Purpose / Criteria / Solution
Stormwater	**Development Restricted and Special Requirement Areas**	**TO PROTECT HUMAN/PROPERTY SAFETY AND THE ENVIRONMENT** **No development except road and utility crossings within:** • Extreme slope areas (above 35%) • Detailed geotechnical assessments required in areas of steep/ravine slopes (2H:1V (50%) from toe of stream channel or ravine slope), no development within geotechnical setbacks • Streamside Protection areas, with no-net-loss variance protection policy specific to Fishtrap Creek watershed to provide increase riparian protection (5, 15, or 30 m from top of bank) **Development Permitted with Special Requirements:** • Steep slope areas (10% to 35%) • High or moderate habitat sensitivity ranking areas • Within Wildlife Corridor and Species at Risk BMP buffers (to be determined)
	Water Quality Treatment	**TO TREAT STORMWATER PRIOR TO DISCHARGE TO WATERCOURSES** Size to treat 90% of average annual runoff (equivalent to 72% of the 2-year, 24-hour event [53mm]). • Construct Stormwater Source Controls (rain gardens, vegetated swales, vegetated pervious pavers) to filter contaminants from roads and parking lots • Alternatively consider regional water quality facilities such as wetlands and wet ponds • Construct oil/grit separators as spill control devices for gas stations, high risk spill industry, large parking lots • Provide Erosion and Sediment Control measures during construction
	Reduce Runoff Volume	**TO PRESERVE BASEFLOWS & MINIMIZE DOWNSTREAM EROSION AND HABITAT DEGRADATION** Size to capture 72% of the 2-year, 24-hour event (53mm). No infiltration/retention facilities within geotechnical setbacks, site specific geotechnical studies are required. • Maximize low impact development techniques • Construct Stormwater Source Controls (bio-retention rain gardens or swales, pervious pavers, absorbent soil layers, green roofs, rainwater harvesting & reuse, etc.) • Regional facilities for baseflow augmentation (sustain baseflows)
	Reduce Runoff Peaks	**TO MINIMIZE DOWNSTREAM EROSION AND HABITAT DEGRADATION** Size to detain the 10-year post-development flows to 5 L/s/ha. • Construct detention/infiltration

SOURCE CONTROL EXAMPLES



Pervious Paving - Reinforced Gravel



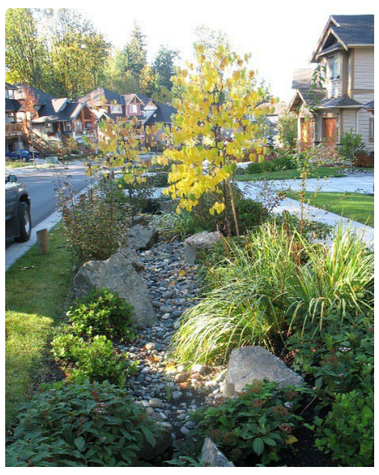
Pervious Paving - Geogrid



Absorbent Landscaping



Absorbent Landscaping



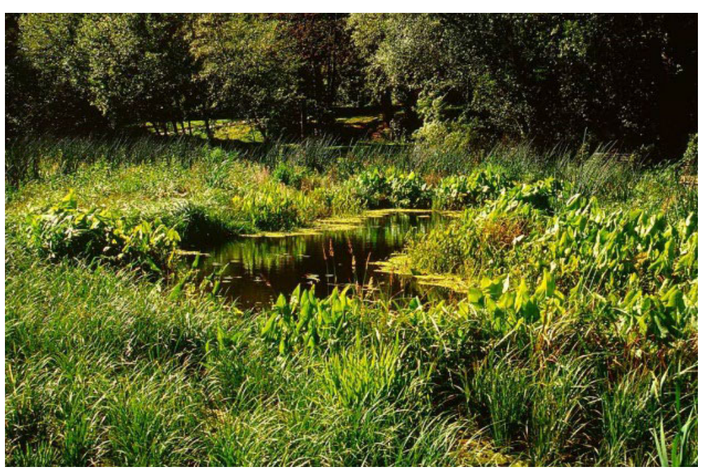
Bio-Retention Swale



Bio-Retention Swale



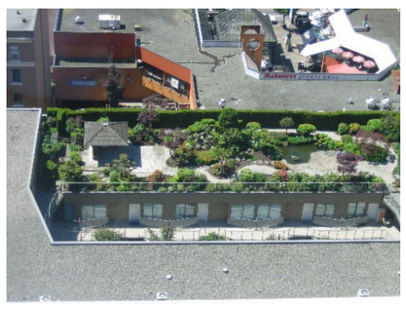
Small Wetland



Wetland



Green Roof



Green Roof



Re-Use Tank



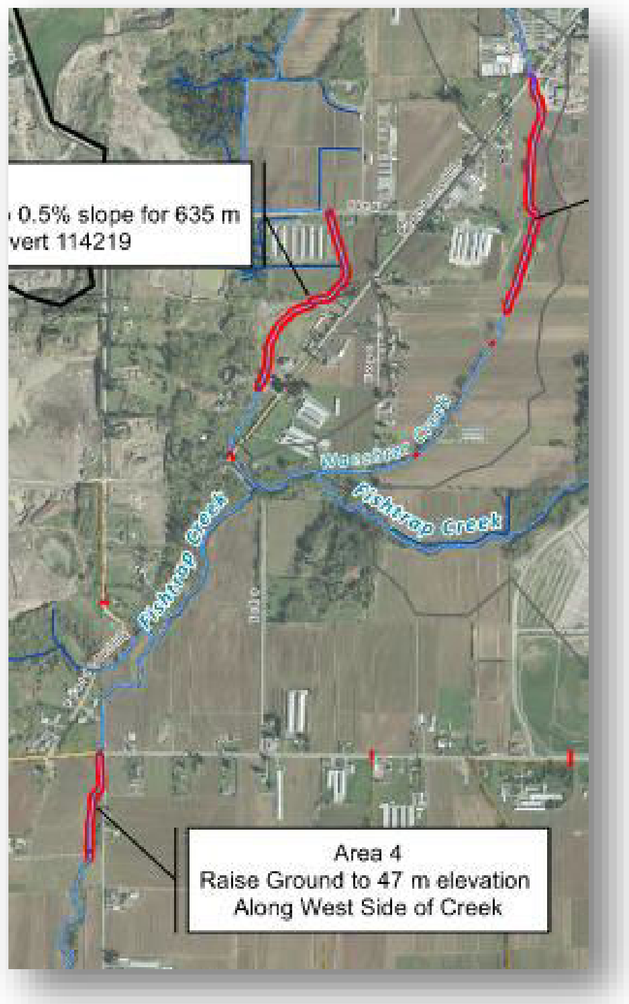
Re-Use Rain Barrel



Sub-Surface Infiltration

ISMP RECOMMENDATIONS (DRAFT)

- A draft Integrated Stormwater Management Plan was developed.
- Works were prioritized into categories: 5-year Plan, Long Term Plan, End of Life, and At Time of Development



Flood Management

1. Upgrade culverts, storm sewers
2. Improve detention facilities
3. Enlarge lowland channel & berm bank to convey 10-year flow

Erosion Management

1. Manage beaver dams, creek sediment, channel vegetation
2. Rehabilitate and stabilize instream erosion sites

Sediment Management

1. Remove sediment & detritus from ponds & sediment traps

ISMP RECOMMENDATIONS (DRAFT)

Environmental Restoration and Enhancements

1. Improve fish passage
2. Restore in-stream habitat and wildlife corridors
3. Restore riparian areas and planting
4. Identify water quality pollutant sources and treat before discharge to creek
5. Investigate/improve low summer baseflow



ISMP RECOMMENDATIONS (DRAFT)

Mitigate Impacts of Future Development

1. Protect Riparian, Ravine and Wildlife Areas
2. Maximize low impact development techniques
3. Construct Stormwater Quality Treatment Measures
4. Construct detention facilities

