





- O1 BACKGROUND & PROJECT OVERVIEW
- O2 POLICY OBJECTIVES & VISION
- O3 OVERVIEW OF DRAFT POLICIES
- O4 DISCUSSION / Q&A

# **BACKGROUND**

2009-10

Sustainable Water Service Policy created & Water Gap Analysis completed 2012-13

Sustainable Sewer Service Policy created & Sewer Gap Analysis completed 2022-23

Sewer Policy updated with focus on financial viability 2024-25

Flood Protection
Policy development
and preparation of
Flood Gap Analysis
(in progress)



# POLICY SCOPE

- Policy focus is on the management of specific flood hazard management infrastructure within FVRD electoral areas, including local service areas for:
  - Stormwater management infrastructure; and,
  - Flood and debris hazard infrastructure.
- Emergency management covered through FVRD Emergency Management Program Policy



# KEY SCOPE LIMITATION

- The policies focus on management of local service areas
- The policies do not preclude the FVRD from exploring or entering into sub-regional or regional partnerships to address broader watershed, flood hazard management and climate change adaptation objectives.



# **CURRENT SERVICE EXAMPLES**

Elbow Creek
Dikes &
Sediment
Basin (Area C)

Popkum Storm Drainage System (Area D)

Baker Trails Debris Control (Area E)

Rexford Creek Debris Basin (Area E)

Wilson Road Dike & Floodbox (Area E)

Cascade Dike (Area F)

Frosst Creek Dikes & Debris Basins (Area H)



#### **Provincial Context**

Dike Maintenance Act

Water Sustainability Act

**Environment Management Act** 

Local Government Act

Community Charter

Land Act

Emergency and Disaster Management Act



#### **FVRD Plans & Policies**

Regional Growth Strategy

Electoral Area Official Community Plans & Development Permit Areas

Neighbourhood Plans within Electoral Areas

Stormwater Management Plans

Operation & Maintenance Plans

**Emergency Management Plan** 



#### **FVRD Regulations & Bylaws**

**Zoning Bylaws** 

Subdivision & Development Servicing Bylaw

Floodplain Management Bylaw

Local Service Area Establishment Bylaws for Flood Control



### **FVRD Flood Policy Scope**





#### **FVRD Service Areas**

(Service Levels, Acquisition, Governance, Finance)



#### Relationships

(Indigenous Communities, Municipalities, Improvement Districts, Province)



# **KEY CONSIDERATIONS**



Level of Service Considerations



Governance & Scope of FVRD Service Responsibilities



Funding & Financial Sustainability



Priority-Setting for Projects & Initiatives



Guidance for the
Potential
Acquisition of
Services



Guidance for Relationships

# OBSERVATIONS FROM OTHER REGIONAL DISTRICTS

- \$ Very limited examples of RDs owning and operating flood protection infrastructure
- Regional Districts are critical partners in achieving funding
- Relationships & collaboration are key
- + There's a current emphasis on flood forecasting and emergency management
- For some types of functions, service areas can be broader if providing benefit to larger geographic areas





# DRAFT FLOOD POLICY VISION

### VISION

The FVRD supports sustainable electoral area communities by taking a holistic approach to flood hazard management.

This approach enables an understanding of the existing flood hazard landscape, the achievable level of service around flood hazard management, and aims to inform land use planning decisions.

The FVRD supports a collaborative approach to flood hazard management including senior government agencies and Indigenous communities.



# **OBJECTIVES**

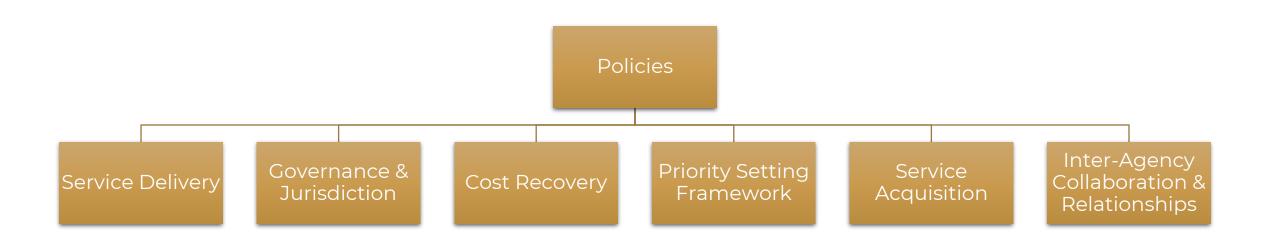
- 1. To effectively manage FVRD-owned flood hazard management infrastructure.
- 2. To effectively prioritize recommended upgrades, projects and initiatives related to flood hazard management.
- 3. To guide the FVRD's approach to the acquisition of new and existing flood management infrastructure.
- 4. To support a clear understanding of flood hazard management roles and responsibilities of the FVRD, including the linkage to emergency management, and relationships with other jurisdictions.
- 5. To support flood hazard management and clearly delineate jurisdictional roles and responsibilities in electoral areas in collaboration with the Province of BC, Indigenous communities, improvement districts and other key stakeholders.
- 6. To guide the review of flood hazard management considerations for development applications.
- To support the development of climate change adaptation strategies in the design of flood hazard management infrastructure.







# Flood Protection Policy Framework



# **PART 1: SERVICE DELIVERY**



**Service Delivery** 

Policies to guide the establishment, design, operations and maintenance of existing FVRD flood hazard management infrastructure.



**Objective:** To ensure that FVRD flood hazard management infrastructure safeguards the public and protects property.

# **KEY POLICY DIRECTIONS**

## 1.1 SERVICE ESTABLISHMENT

The FVRD will typically not establish or expand flood hazard management service areas unless:

- 1. FVRD will own the infrastructure
- 2. System is designed to be financially sustainable
- 3. Appropriate access and legal tenure are in place
- 4. All government approvals are in place

# **KEY POLICY DIRECTIONS**

## 1.2 EXPANDING SERVICE DELIVERY

The FVRD will extend or expand flood hazard management services at the request of property owners, and only if doing so is shown to be socially, economically and environmentally sustainable.

The FVRD will require completion of a financial viability plan prior to extending or expanding existing services.



# **KEY POLICY DIRECTIONS**

# 1.3 LEVELS OF SERVICE

**Service Delivery** 

The FVRD will maintain the base level of service defined below. Expanded levels of service will be considered based on request and consultation with participating service area property owners.

Existing/Proposed Infrastructure	Base Levels of Service	Expanded Levels of Service
Existing	Current state of infrastructure is operating as designed.	Upgraded to meet the current day minimum level of service as defined in the relevant regulations, standards, and design guidelines, including considerations for climate change.
Proposed	Designed and constructed to meet the minimum level of service as defined in the relevant regulations, standards and design guidelines.	Designed and constructed to exceed the minimum level of service as defined in the relevant regulations, standards, and design guidelines.



# **KEY POLICY DIRECTIONS**

## 1.4 FLOOD CONSTRUCTION LEVEL

The FVRD will encourage, and where possible, require that new diking infrastructure is constructed to the appropriate flood construction level consistent with Provincial Regulations.



# **OTHER POLICY TOPICS**

- 1.5 Quality Design and Construction
- 1.6 Operation And Maintenance
- 1.7 System Reliability

**Service Delivery** 

- 1.8 Coordinating Land-use Planning
- 1.9 Keeping Policies And Practices Up To Date
- 1.10 Hydrometric Monitoring
  - The FVRD is not currently responsible for hydrometric monitoring and flood forecasting and will consult with the best available data from the Federal Government and the Province to inform decisions.



# **PART 2: GOVERNANCE & JURISDICTION**



**Service Delivery** 

Policies to guide **decision-making related to FVRD flood hazard management infrastructure** and to ensure a clear understanding of jurisdiction and service delivery responsibilities.



**Objective:** To guide board decision-making on electoral area flood hazard management infrastructure and to provide a clear understanding to residents of responsibility and the scope of FVRD electoral area service delivery.

#### RESPONSIBILITY FOR FLOOD HAZARD MANAGEMENT SERVICES

Type of Land	Responsibility for Flood Hazard Management Services (excluding Emergency Response and Regulatory Bylaws)	FVRD Role in Flood Hazard Management (excluding Emergency Response)
Electoral Area Service Area	FVRD	Maintain service in accordance with establishment bylaw and annual requisition
Improvement District Area	Improvement District	None (except as requested by Improvement District and approved by FVRD Board, such as to facilitate grant funding)
Electoral Area Land Outside of an FVRD or Improvement District Service Area	Private Property Owners	None unless service area is requested and created through a service area establishment bylaw and annual requisition
Crown Land/Road Rights of Way (where service areas do not exist)	Provincial	None
Indigenous Reserve Lands	Indigenous Governing Body	Support in collaboration with other levels of government
Member municipalities	Municipal	None unless sub-regional/regional service is requested and established



# **KEY POLICY DIRECTIONS**

## 2.1 DECISION-MAKING

**Service Delivery** 

The FVRD will make all decisions regarding flood hazard management service provision by carefully considering short and long-term social, economic and environmental impacts, and will strive for consistency, clarity and transparency in all decisions.

## 2.2 DELEGATING DECISION-MAKING AUTHORITY

The FVRD Board maintains decision-making authority regarding FVRD owned flood hazard management infrastructure (i.e. for overall governance) and decision-making will not be delegated to a commission or other body.

# 2.3 PUBLIC EDUCATION AND ENGAGEMENT

The FVRD will strive to educate and engage residents on flood hazard management service provision.

URBAN SYSTEMS

# **PART 3: COST RECOVERY**



**Service Delivery** 

Policies on how costs associated with providing flood hazard management services should be recovered.



**Objective:** Policies on how costs associated with providing flood hazard management services should be recovered.

# **KEY POLICY DIRECTIONS**

## 3.1 FINANCIAL SUFFICIENCY AND CERTAINTY

The FVRD will take proactive measures to ensure sufficient funding is available to provide the achievable level of flood hazard management services.

# 3.2 POOLING COSTS AND REVENUES - KEY DISCUSSION POINT

The FVRD will explore opportunities to pool costs and revenues (but not debt) across multiple FVRD owned flood hazard management service areas and/or establish new electoral area or region-wide services for flood hazard management activities with broader benefit.

# 3.3 THE "USER-PAY" PRINCIPLE (COST PER LOT)

The FVRD will adopt an equitable approach based on the "user-pay" principle for recovering costs. Service area boundaries will be expanded only if the cost of doing so is financed exclusively by the newly serviced area.



# PART 4: PRIORITY SETTING FRAMEWORK



**Service Delivery** 

Policies that outline the FVRD's priorities regarding funding and implementation of flood hazard management projects.



**Objective:** : To allocate resources to top priorities.

# PRIORITY SETTING FRAMEWORK



**Service Delivery** 

Step 1

Complete Project Summaries



Step 2

Compare with Established Priorities



Step 3

Consider
Cost Per
Lot
Benefiting



Step 4

Evaluation Matrix



# **KEY DISCUSSION POINT - ESTABLISHED PRIORITIES**

- 1. If Ordered by the Province (e.g. to undertake mitigation efforts, accept ownership, or implement new statutory requirements)
- 2. Sustain Existing Levels of Service to Manage Flood Risk (life, critical infrastructure, property, etc.)
- 3. Improve Financial Sustainability of Flood Management Services
- 4. Enhance Levels of Service to Existing Service Areas (i.e. Climate Change, alignment with new standards)
- 5. Implement New Services/Service Area Extensions for Existing Development
- 6. Implement New Services/Service Area Extensions for New Development



# PART 5: FLOOD HAZARD MANAGEMENT SERVICE ACQUISITION



**Service Delivery** 

Policies to guide the acquisition of existing or new flood hazard management services



**Objective:** : To clarify the conditions in which the FVRD would consider acquiring flood hazard management responsibilities

#### **GENERAL PRINCIPLE:**

**Service Delivery** 

The FVRD does not proactively seek to own additional flood hazard management infrastructure. However, there may be examples where the FVRD will consider acquisition, including:

- Orphaned infrastructure
- Newly developed infrastructure
- Infrastructure actively managed by others

# **KEY POLICY DIRECTIONS**

### 5.1 INITIATING THE ACQUISITION OF FLOOD INFRASTRUCTURE

Initiation of acquisition will come primarily from third parties:

- Board of an Improvement District
- Province

**Service Delivery** 

- Beneficiaries/users of infrastructure
- Owners of infrastructure, including developers

# **KEY POLICY DIRECTIONS**

#### 5.2 CAPACITY TO ACQUIRE

**Service Delivery** 

Prior to advancing the acquisition process, the FVRD will assess its capacity to acquire any existing or newly developed infrastructure. A key factor will be the status of currently owned flood hazard management infrastructure and capacity to deliver on existing needs.

#### 5.3 FINANCIAL VIABILITY OF FLOOD INFRASTRUCTURE

The FVRD will not acquire any existing or newly developed infrastructure unless it is financially sustainability to own and operate in accordance with Policy 1.1.

This includes requiring the provision of resources from the Province necessary to fulfill any newly assigned responsibilities.



# **OTHER POLICY TOPICS:**

- 5.4 Public assent process for flood infrastructure
- 5.5 Comprehensive assessment

**Service Delivery** 

- 5.6 Standards for new flood hazard infrastructure
- 5.7 Payment for flood hazard management infrastructure
- 5.8 Transfer of all financial assets, rights-of-way, easements, approvals and permits at conversion
- 5.9 Transfer of infrastructure and legal risk
- 5.10 Transfer of flood infrastructure without valid approvals/permits
- 5.11 Constructed simple ownership works protected by rights-of-way, easements, leases or fee
- 5.12 Existing debt and reserves
- 5.13 Cost of conversions
- 5.14 Tangible capital assets
- 5.15 Seed funding for long-term capital replacement



# PART 6: INTER-AGENCY COLLABORATION AND RELATIONSHIPS



**Service Delivery** 

Policies to guide FVRD Relationships with other bodies involved in flood hazard management service provision



**Objective:** To pursue successful collaboration in addressing flood hazard management, including relationships with Indigenous governing bodes, other levels of government, and agencies.

# **KEY POLICY DIRECTIONS**

### 6.1 INDIGENOUS RELATIONSHIP BUILDING

The lands and waters that make up the area that we now call the Fraser Valley Regional District (FVRD) have been home to the Nlaka'pamux, St'at'imc, Stó:lō, and Sts'ailes Peoples for generations. As confirmed in the FVRD Strategic Plan, the FVRD is committed to building relationships and working towards advancing reconciliation with Indigenous Peoples. Central to this commitment is building collaborative relationships with neighbouring Indigenous communities.

This collaboration is especially important when addressing challenges like flood events, which transcend boundaries and require cooperative efforts for effective flood hazard management and service delivery. This process will be driven by ongoing relationship-building, listening, and learning. Where mutual interest exists, the FVRD will seek opportunities to collaborate with Indigenous communities to create cross-boundary flood management plans. The FVRD is also committed to developing protocol agreements with Indigenous communities to address shared priorities, whether related to service delivery or emergency management.



# **KEY POLICY DIRECTIONS**

### 6.2 IMPROVEMENT DISTRICT RELATIONSHIPS

The FVRD will continue building relationships and explore opportunities to engage and partner with improvement districts to advance collective responses to flood management.

The FVRD may support improvement districts provided staff time is recoverable through external funding sources and does not utilize electoral area tax base funding.

#### 6.3 PROVINCIAL AND FEDERAL RELATIONSHIPS

The FVRD will leverage relationships to explore jointly beneficial projects and create partnerships to mitigate flood risks and safeguard residents and infrastructure.



# **KEY POLICY DIRECTIONS**

### 6.4 MULTI-JURISDICTIONAL SERVICE DELIVERY

The FVRD may seek opportunities to form multi-jurisdictional partnerships to facilitate sustainable and effectively delivery of flood hazard management infrastructure and services within a watershed.







# DISCUSSION QUESTIONS

Are there any items that you feel have not been addressed through the draft policy document?

Are there any aspects of the policy that seem unrealistic to achieve?

Do you have any other questions or comments?





