

## VANPLAY IMPLEMENTATION –

**One Water Initiatives** 

Park Board Committee Meeting February 10, 2020



#### Purpose of Presentation



- To update the Board on implementation of VanPlay goals and the City's One Water initiatives;
- To seek the Board's endorsement of the Rain City Strategy, and;
- To seek the Board's support of Blue-Green systems initiatives and rainwater/parks integration opportunities.

#### Outline of Presentation



VanPlay

The City's One Water Approach

Rain City Strategy: Park Board Aspects

Blue-Green Systems Planning

Rainwater/Parks Integration Opportunities:

- Cambie and Broadway Integrated Water Master Plans
- Three opportunities

Recommendation



VanPlay

#### **GUIDING PRINCIPLES**

This vision is guided by four main principles:

1. Vibrant, active communities



2. Flow of water



3. Sense of place



4. Thriving ecosystems











# N.2 FRESHWATER RESOURCES

Protect Vancouver's freshwater resources through ecological restoration, green infrastructure, and water conservation.

#	INITIATIVES		
N.2.1	Identify, acknowledge, uncover and connect <b>freshwater features, and historic streams,</b> to both help manage and filter stormwater and increase their visibility.		
N.2.2	Reduce <b>potable water use</b> in parks through service review, innovative design, new technologies and increasing the use of recirculating systems.		
N.2.3	Establish principles and a decision-making framework to determine appropriate locations to incorporate green infrastructure, like bioswales and wetlands, in parks to create wetland habitat, improve water quality, manage stormwater and reduce need for irrigation (Water Management in Parks Policy).		

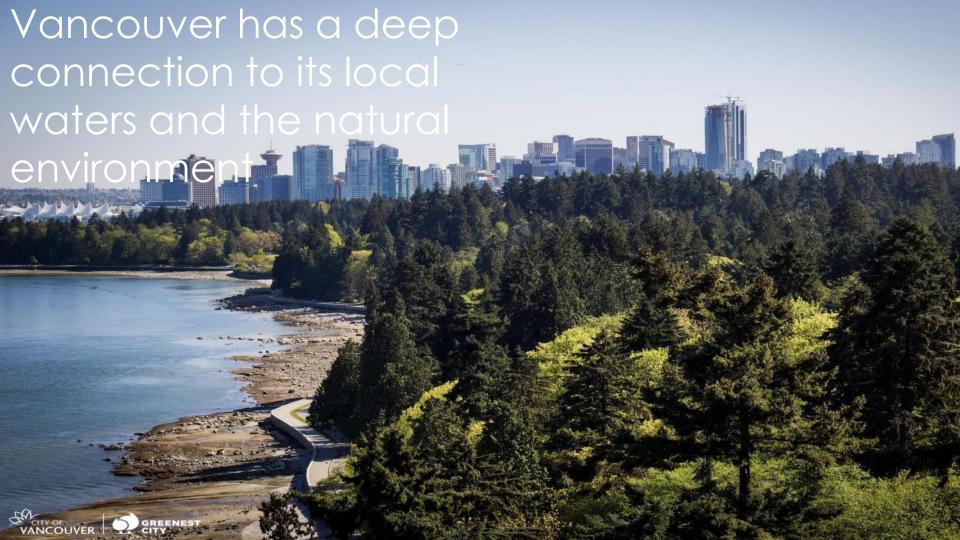
THE PLAYBOOK: IMPLEMENTATION PLAN



The City's One Water Approach

#### The City's One Water Approach













Think strategically about adapting for the future

climate emergency

combined sewer overflow mitigation

ecosystem health & services

growth +
aging sewer
& drainage
infrastructure

Image: Columbia St & W 10<sup>th</sup> Ave, Vancouver Photo Credit: Robert Pennings

CITY OF VANCOUVER

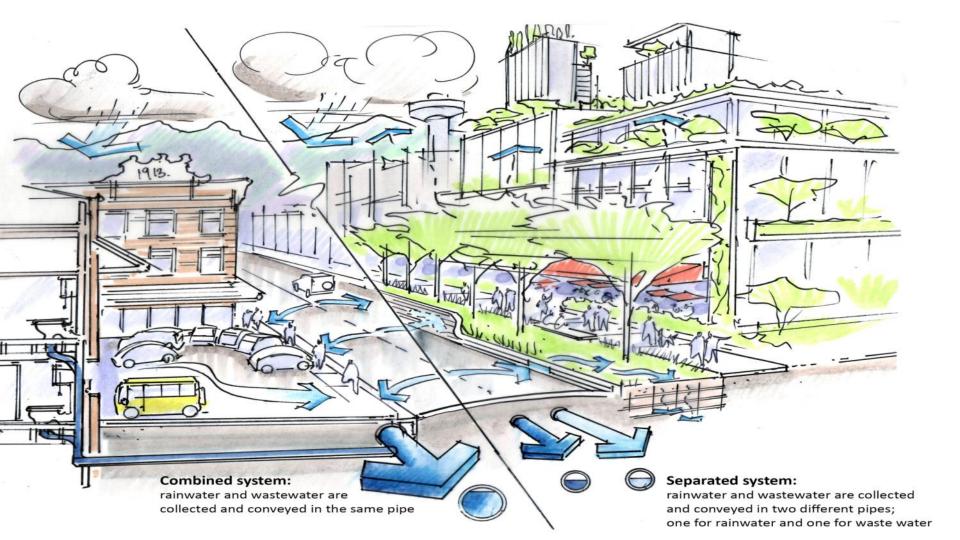


#### **One Water** approach Drinking water Surface Rain water water **Integrated** Ground Waste water water 18 Image: Rainy day in Vancouver **Photo Credit: Robert Pennings**

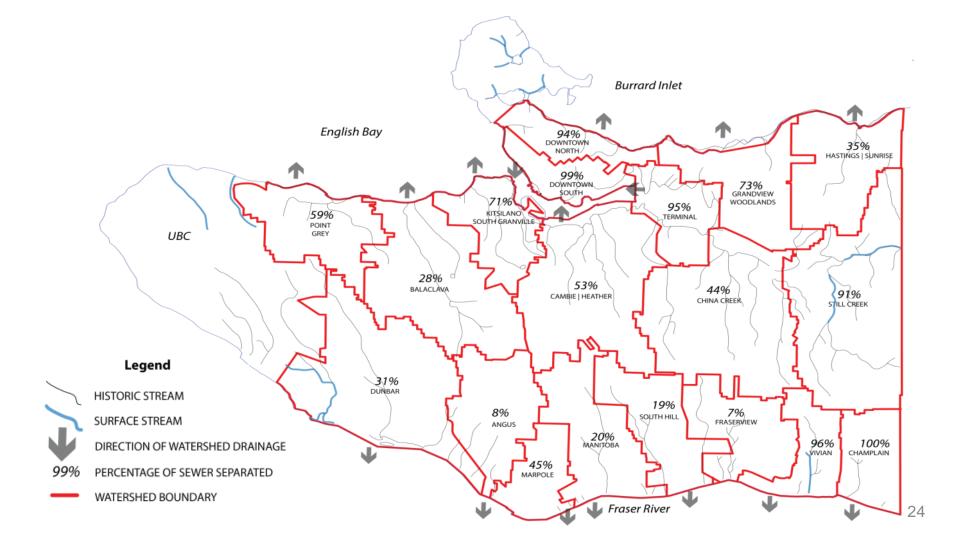


















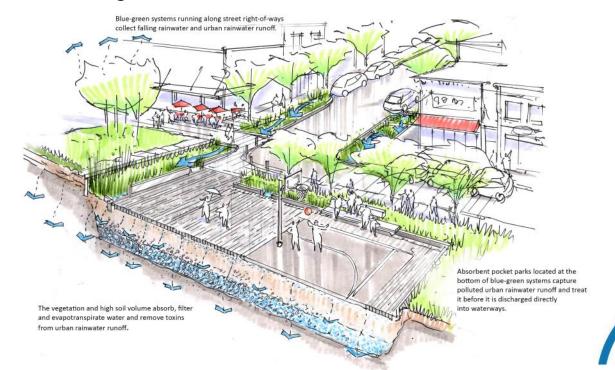
Rain City Strategy: Park Board Aspects

#### Rain City Strategy



ONE WATER

 use of green rainwater infrastructure to capture and treat rainwater run-off to reduce urban flooding, combined sewer overflows (CSO) and pollution discharge to our local waters



#### Rain City Strategy: Parks and Beaches Action Plan



 One of three Action Plans, along with Buildings and Sites, Streets & Public Spaces

- Developed with (and to be led by) Park Board staff
- Includes 16 Programs developed by Park Board staff
- These Programs align with actions in VanPlay,
   Biodiversity Strategy, Urban Forest Strategy, and Park
   Development Standards



#### Rain City Strategy: Parks and Beaches Action Plan



P&B-01	Green Rainwater Infrastructure Integration into Park Development Standards	P&B-09	Minimize Impervious Surfaces within Parks and Recreation Spaces
P&B-02	Protect and Enhance Park Service Levels through Green Rainwater Infrastructure Retrofits	P&B-10	Multi-stakeholder Land Acquisition for Rainwater Management and Park Use in Key Watershed Areas
P&B-03	Non-potable Water Systems and Water Conservation & Efficiency	P&B-11	Green Rainwater Infrastructure Operation and Maintenance and Asset  Management
P&B-04	Green Rainwater Infrastructure Integration into Playing Fields	P&B 12	Protect and Enhance Beaches and Waterfront Program
P&B-05	Parks and Recreation Spaces Climate Change Adaptation Program	P&B-13	Citywide Green Rainwater Infrastructure Financial Planning and Sustainable Funding Program
P&B-06	Create a Green Network that will Connect our Parks, Waterfront and Recreation Areas	P&B-14	Research and Innovation Program
P&B-07	Enhanced Urban Forest Program	P&B-15	Shift in Park Board Process & Capacity Building
P&B-08	Enhanced Park Biodiversity Program	P&B-16	Industry Capacity Building & Public Engagement



#### Rain City Strategy: Specific Performance Target



### UPDATED PERFORMANCE TARGET

Capture and clean a minimum of 90% of Vancouver's average annual rainfall volume

#### UPDATED DESIGN STANDARD

Capture (infiltration, evapotranspiration and/or reuse) and clean (treat) rainwater from a minimum of the first 48 mm of rainfall per day Example park
 application: on-site
 water management
 of playing field
 redevelopments





Blue-Green Systems

#### Blue-Green Systems: Background



In 2019, Council approved three motions related to blue-green systems. The three motions relate to:

- Watershed Revival (Shore to Core)
- Greenways Plan (Shore to Shore) and
- False Creek to the Fraser River Blueway



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2. Flow of water

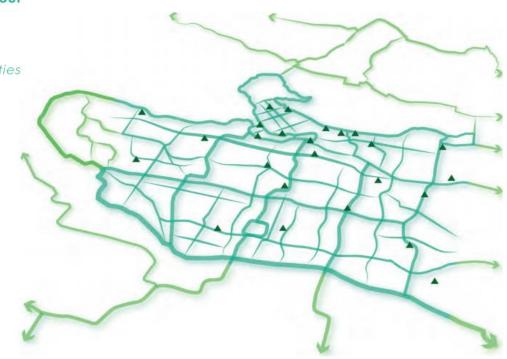


3. Sense of place



4. Thriving ecosystems

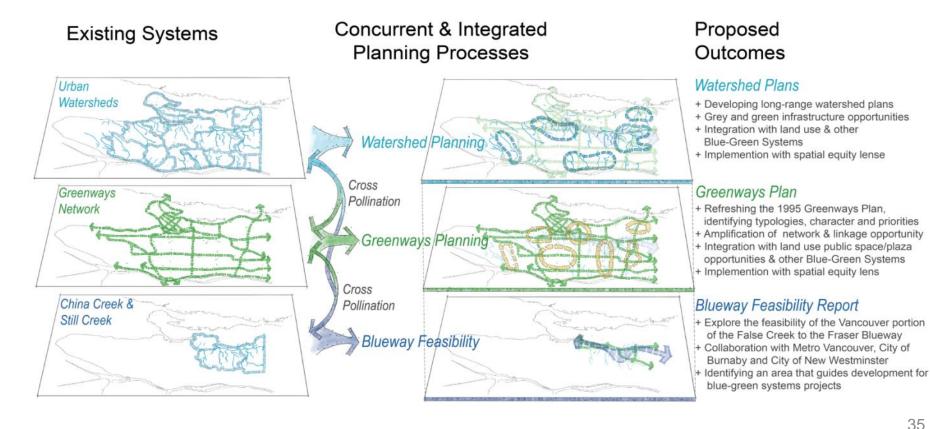






#### Blue-Green Systems: conceptual diagram





#### Blue-Green Systems: examples of infrastructure in / as parks





**Arbutus Greenway** 



Swale on Yale Seattle



### START

### ACCESS TO NATURE

place to observe the changing seasons, critters, birds, trees, ferns and flowers

### ECOLOGICAL HEALTH

Habitat for plants and animals, which supports hiodiversity and wildlife

### BEAUTY

Space for habitat fo plants and animals which supports biodiversity and wildlife connectivity

### COMMUNITY BUILDING

Gatherina spaces facilitate social interaction and community programming.

# **PUBLIC SAFETY** Casual, popup, and/or opportunistic programming, art,

Traffic calming, buffer zones that provide "eyes on the street"

### **TEMPERATURE** CONTROL

Areas to mitigate heat island effect and climate change and improve air quality

CELEBRATION

# EDUCATION

PLACE ACTIVATION

activities, performances and

A place to observe the changing seasons and Jeam about nature

FOOD

skill developmen

floodways and

MENTAL HEALTH

WELLBEING

reduce stress and for

therapeutic activities

ofrastructure

# ACTIVE RECREATION

High-quality sports facilities and outdoor recreation spaces to promote healthy living

### HERITAGE

Open spaces to highlight the cultural and/or historical value of a site of feature.

### MOVEMENT FOR RECREATION

Places and pathways for walking, cycling, rolling, and to host outdoor fitness

### WATER MGMT Connected open

PRODUCTIO spaces to absorb and Production areas process stormwater to promote food and prevent flooding Interaction, and

#### RESILIENCE TRANSPORTATION Stabilized slopes

Well-connected, safe pathways to encourage active transportation and improve mobility

### SPIRIT OF PLACE

### **PASSIVE** RECREATION

Places to sit. host a small picnic with friends, enjoy lvina in sunshine

# TOURISM

sautiful places that celebrate Vancouver as a destination

### STEWARD-SHIP

Programming and play to monte learning and nature engagement

### FREE-FORM PLAY

and play to engagement

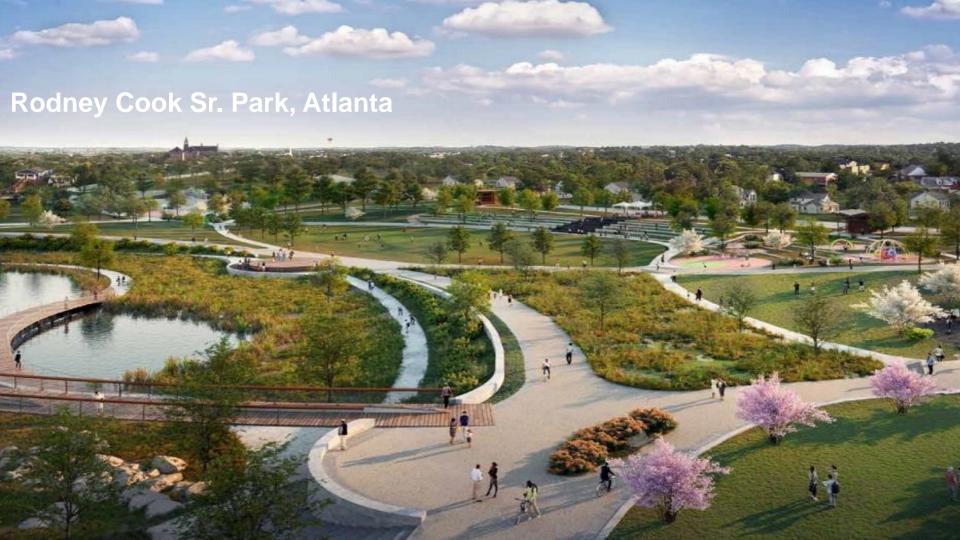
### JOY

Playgrounds, interactive public art, colorful landscaping, to create opportunities for fun

# **MULTIPLE BENEFITS BOARD GAME**

How many of these benefits can be incorporated into a place, project or program?







Rainwater/Parks Integration Opportunities

# Rainwater/Parks Integration Opportunities



 IWMP (Integrated Water Management Plans) for Broadway and Cambie provide opportunity to translate City-wide ambitions and systems at the local area level



# BROADWAY AREA PLAN

Target:

December 2020



# CAMBIE IWMP Target: December 2020



# Rainwater/Parks Integration Opp. 1: Charleson Park / Broadway IWMP



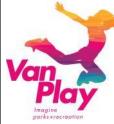












# Rainwater/Parks Integration Opp. 2: Columbia Park-Alberta St. / Cambie IWMP









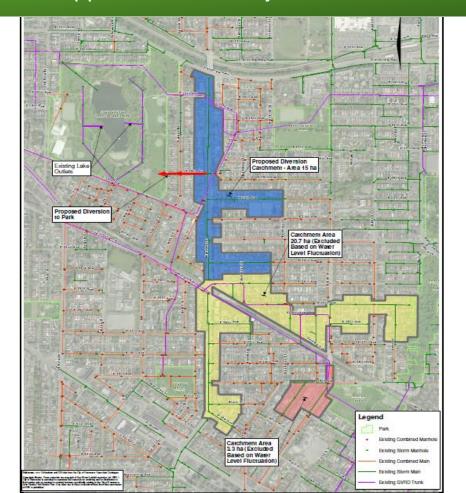






# Rainwater/Parks Integration Opp. 3: John Hendry Park / Nanaimo St Watershed

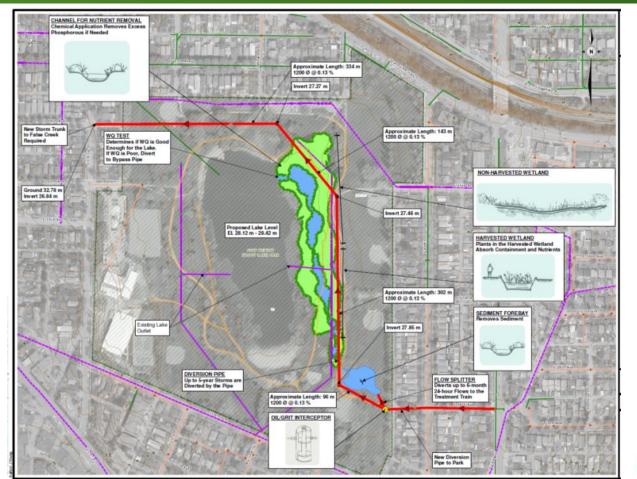






# Rainwater/Parks Integration Opp. 3: John Hendry Park / Nanaimo St Watershed





\*CONCEPTUAL DIAGRAM ONLY



### Recommendation



- A. THAT the Vancouver Park Board support the implementation of VanPlay goals related to connectivity, biodiversity, and the natural flow of water in parks through collaboration with other City of Vancouver One Water initiatives, as outlined in this report;
- B. THAT the Vancouver Park Board endorse the Rain City Strategy's Parks & Beaches Action Plan, attached as Appendix A;
- C. THAT the Vancouver Park Board support staff collaboration with the City of Vancouver's Integrated Blue-Green Systems Planning initiatives (Watersheds, Greenways, and Blueway Feasibility) as they pertain to parks and recreation; and
- D. THAT the Vancouver Park Board support the exploration of integrating rainwater management opportunities in Charleson, Columbia, and John Hendry Parks, as outlined in this report.

