

AGENDA

COUNCIL WORKSHOP

Tuesday, March 6, 2012

6:00 p.m.

Committee Room, Municipal Hall

355 West Queens Road,

North Vancouver, BC

Council Members:

Mayor Richard Walton

Councillor Roger Bassam

Councillor Robin Hicks

Councillor Mike Little

Councillor Doug MacKay-Dunn

Councillor Lisa Muri

Councillor Alan Nixon



NORTH VANCOUVER
DISTRICT

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COUNCIL WORKSHOP

6:00 p.m.
Tuesday, March 6, 2012
DNV Committee Room, Municipal Hall
355 West Queens Road, North Vancouver

AGENDA

1. Opening by the Mayor

2. Utilities

2.1 Inflow and Infiltration p. 5 - 18

Presentation: DNV Staff

2.2 Metro Vancouver Lions Gate Secondary Wastewater Treatment Plant p. 19 - 35

Presentation: Metro Vancouver Staff

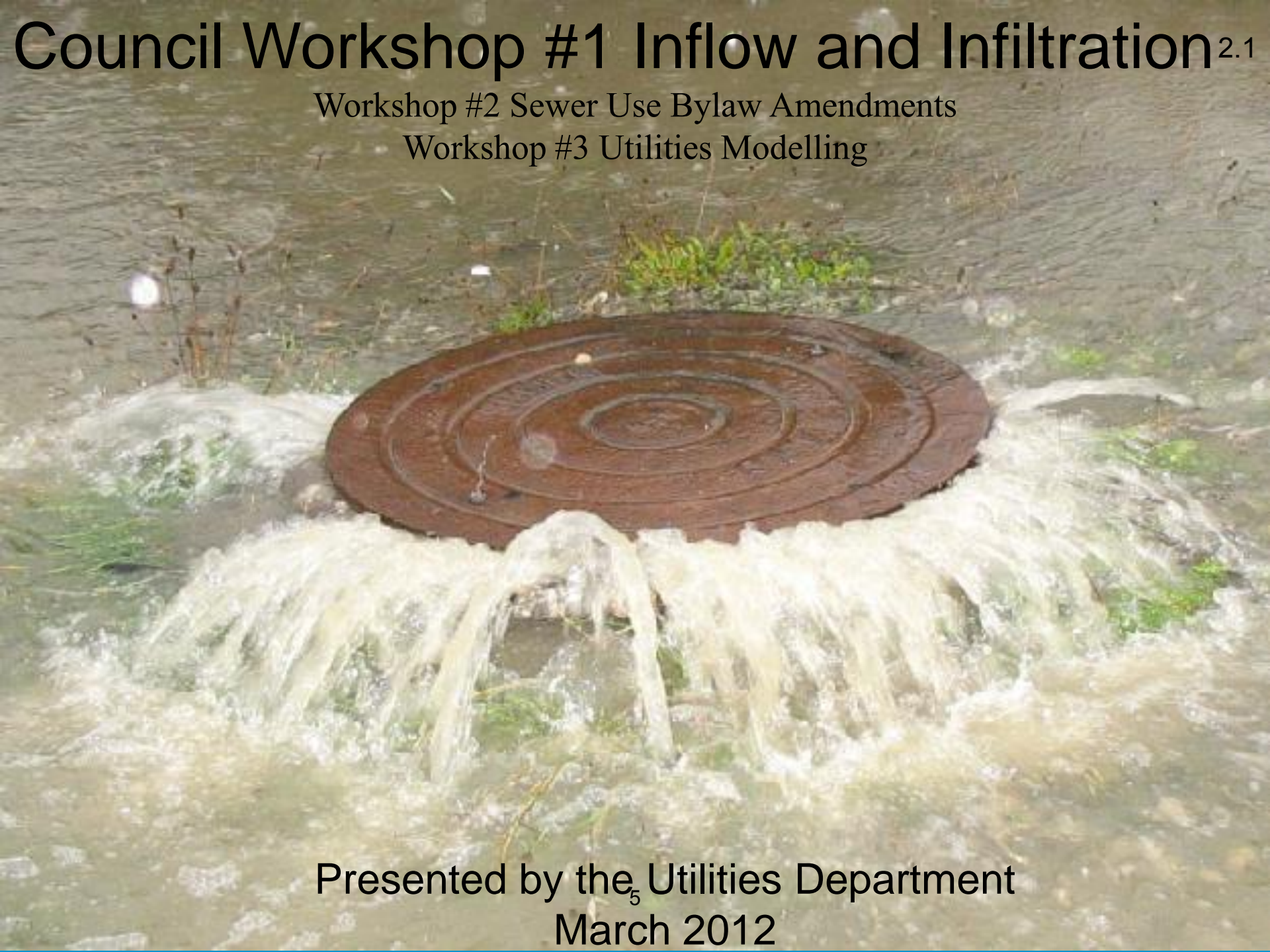
3. Adjournment

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Council Workshop #1 Inflow and Infiltration^{2.1}

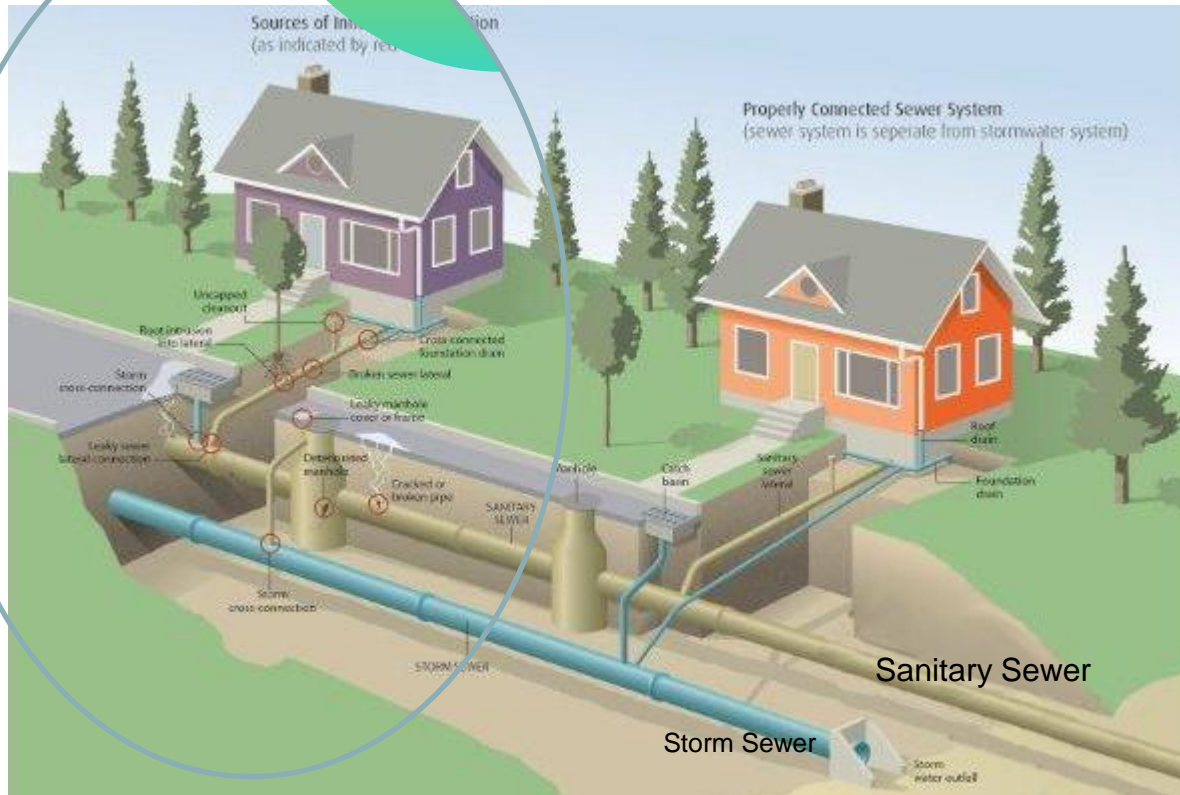
Workshop #2 Sewer Use Bylaw Amendments

Workshop #3 Utilities Modelling

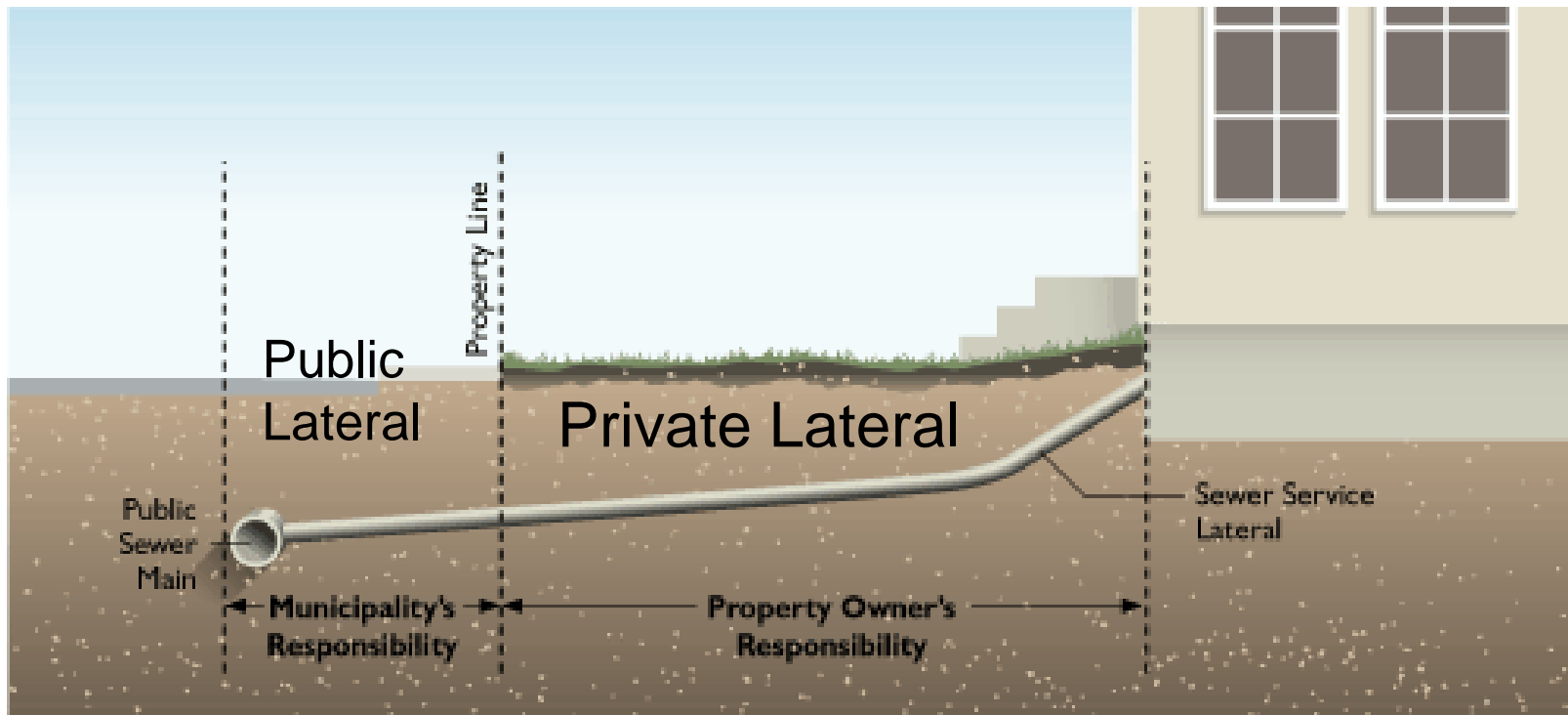


Presented by the₅ Utilities Department
March 2012

Reality.....Fantasy



Who's Responsible for What?



Background

ILWRMP Integrated Liquid Waste and
Resource Management Plan

Goal 1

Protect Public Health and the
Environment.

Goal 3

Effective, affordable and collaborative
management.

ILWRMP

Active DNV Actions

- CCTV Program
- I&I Management Plan 2012
- Address causes of overflows

- Ops Infrastructure Maintenance
- Rehabilitation/Replacement Plan (100 year)
- Ensure infrastructure supports growth

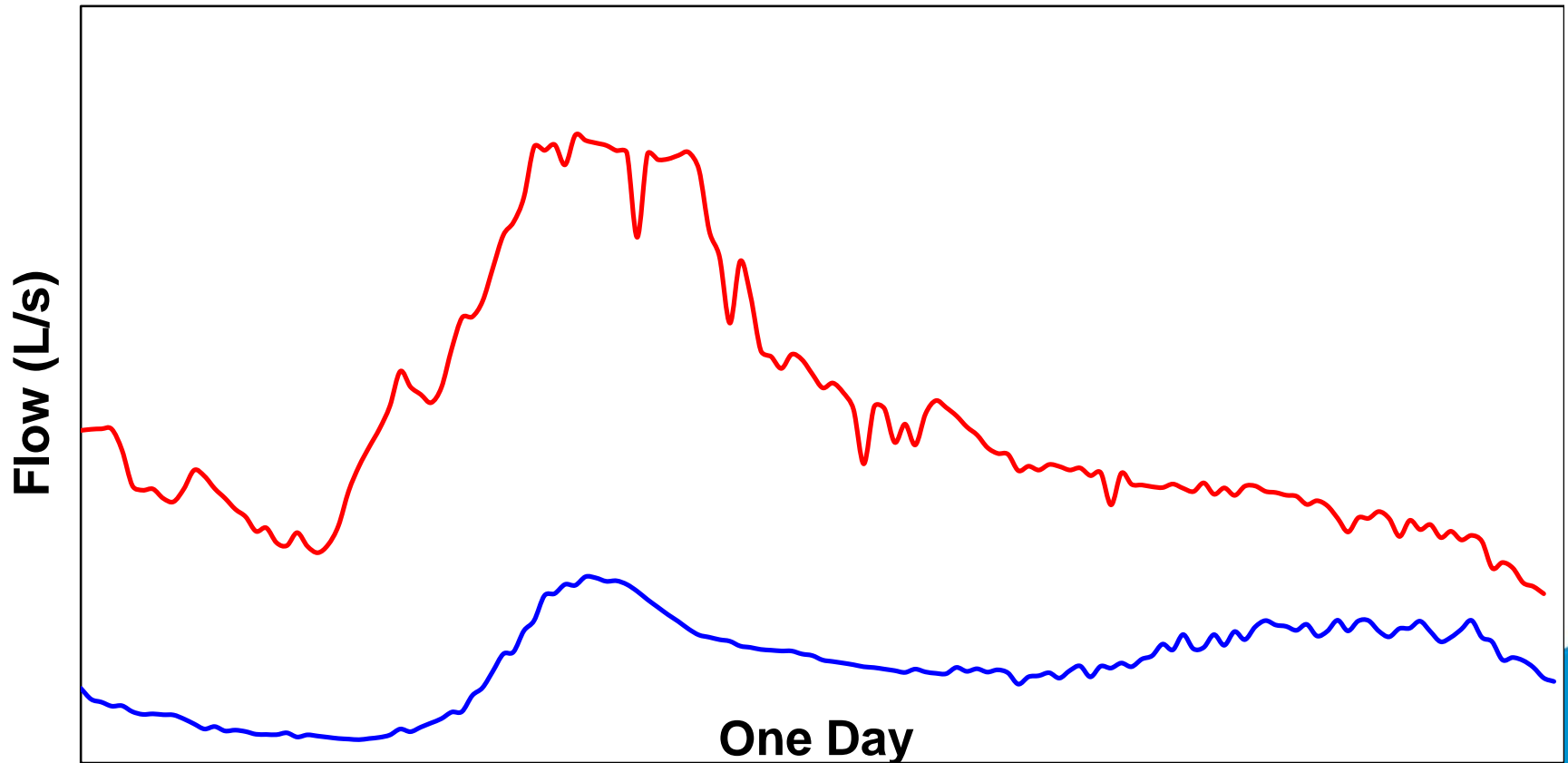
Goal 1. Strategy 1.

Planned DNV Actions

- Reduce liquid waste at the source.
 - Update bylaws to inhibited rain and ground water entering the sanitary system
 - Work with Metro to prevent sanitary sewer overflows (SSO)
 - Develop and implement plans to ensure infrastructure reliability and optimal performance

I&I in the DNV

Leaky Lid Private Lateral Cross Connection



I&I Reduction Benefits

1. Support design for Lions Gate WWTP
2. Reduce total flow anticipating ILWRMP rate structure change
3. Achieve our mandated ILWRMP actions
4. Accommodate OCP growth efficiently
5. Defer or eliminate capital projects
6. Develop I&I reduction relationships
 - Method: Removal
 - Cost: Benefit

I&I Video Overviews

(compliments of the Capital Regional District)

- I&I. The Impact to our System.
- I&I: Defects on the Private Side.

I&I Reduction Strategy

- Why Laterals?
 - 50% of sewer pipe is lateral
 - Source of 30-70 % I&I

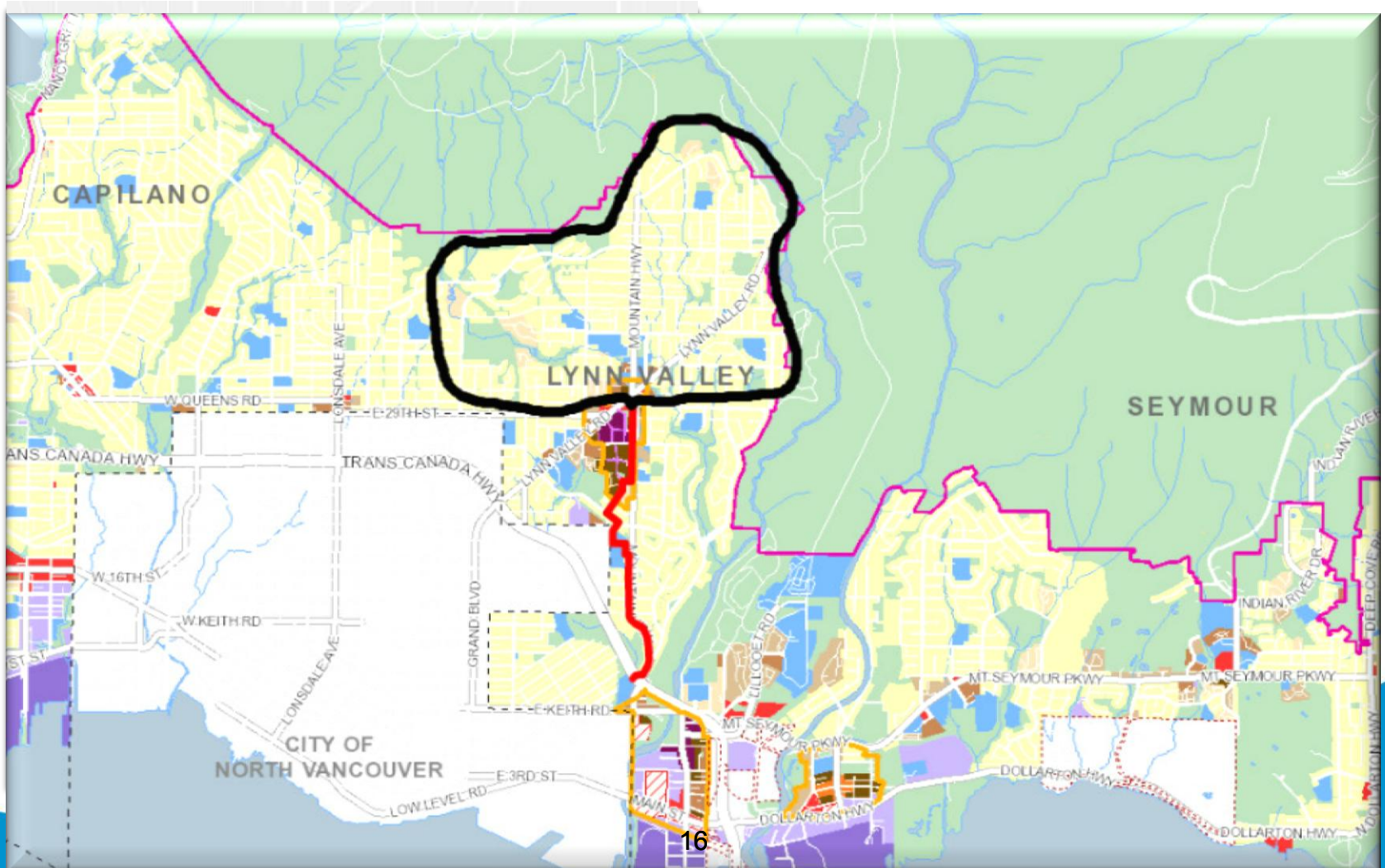


Lynn Valley

Town Centre Pilot Area

- Accommodate expected OCP Town Center growth.
- Defer or eliminate proposed \$15M Metro tank
- Defer DNV capital sewer main replacement
- Identify DNV I&I removal potential & impact

Lynn Valley Sewer System



Future Actions

- Council Workshop #2:
 - Sewer Use Bylaw Amendments
 1. Private Lateral Program Approaches
 - Incentive Based
 - Regulatory Based
- Council Workshop #3:
 - Water and Sanitary Computer Models



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Lions Gate Secondary Wastewater Treatment Plant

Project Definition Phase

District of North Vancouver
Presentation to Council

[LGSWWTP Webpage Link](#)

March 6, 2012

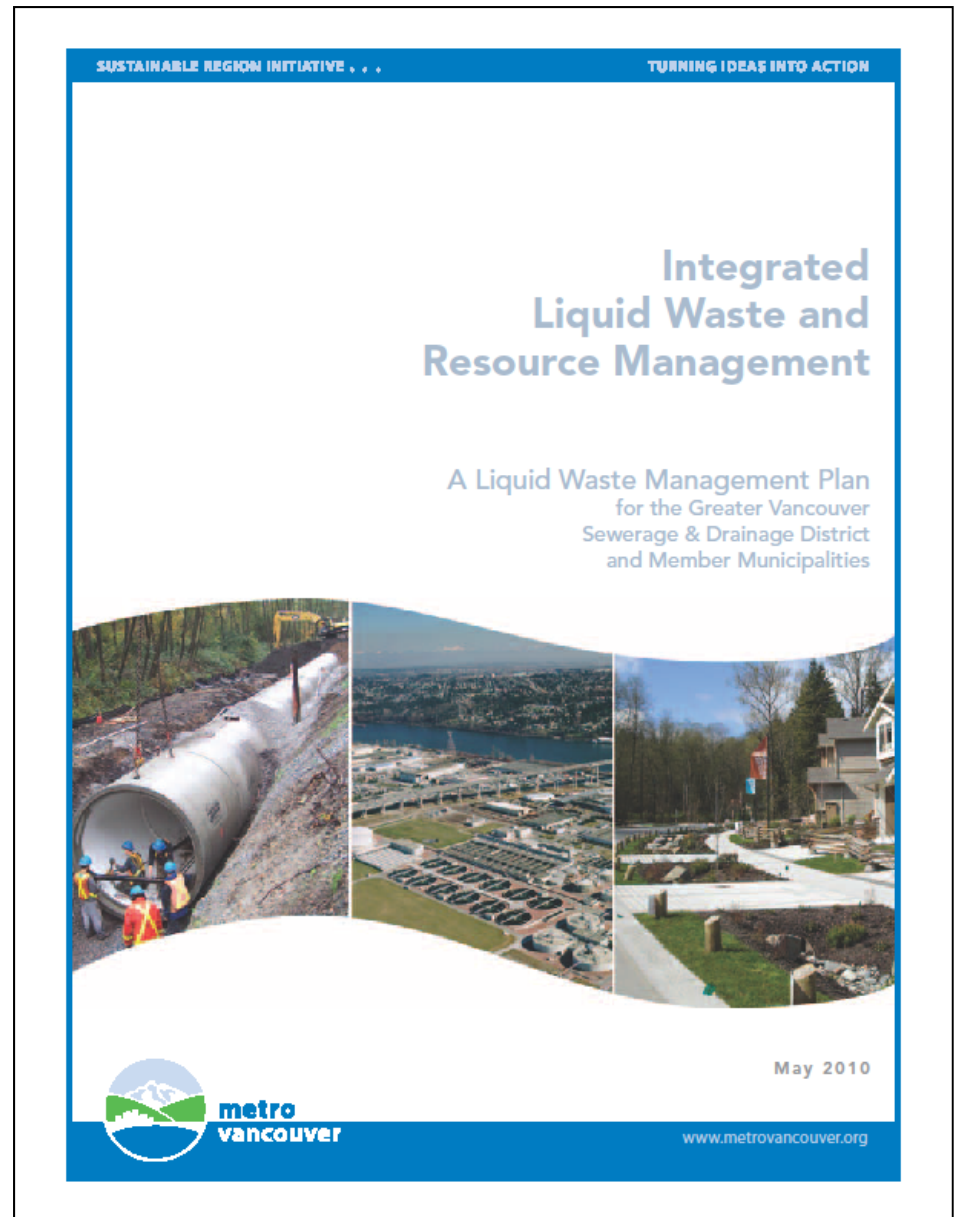


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vancouver

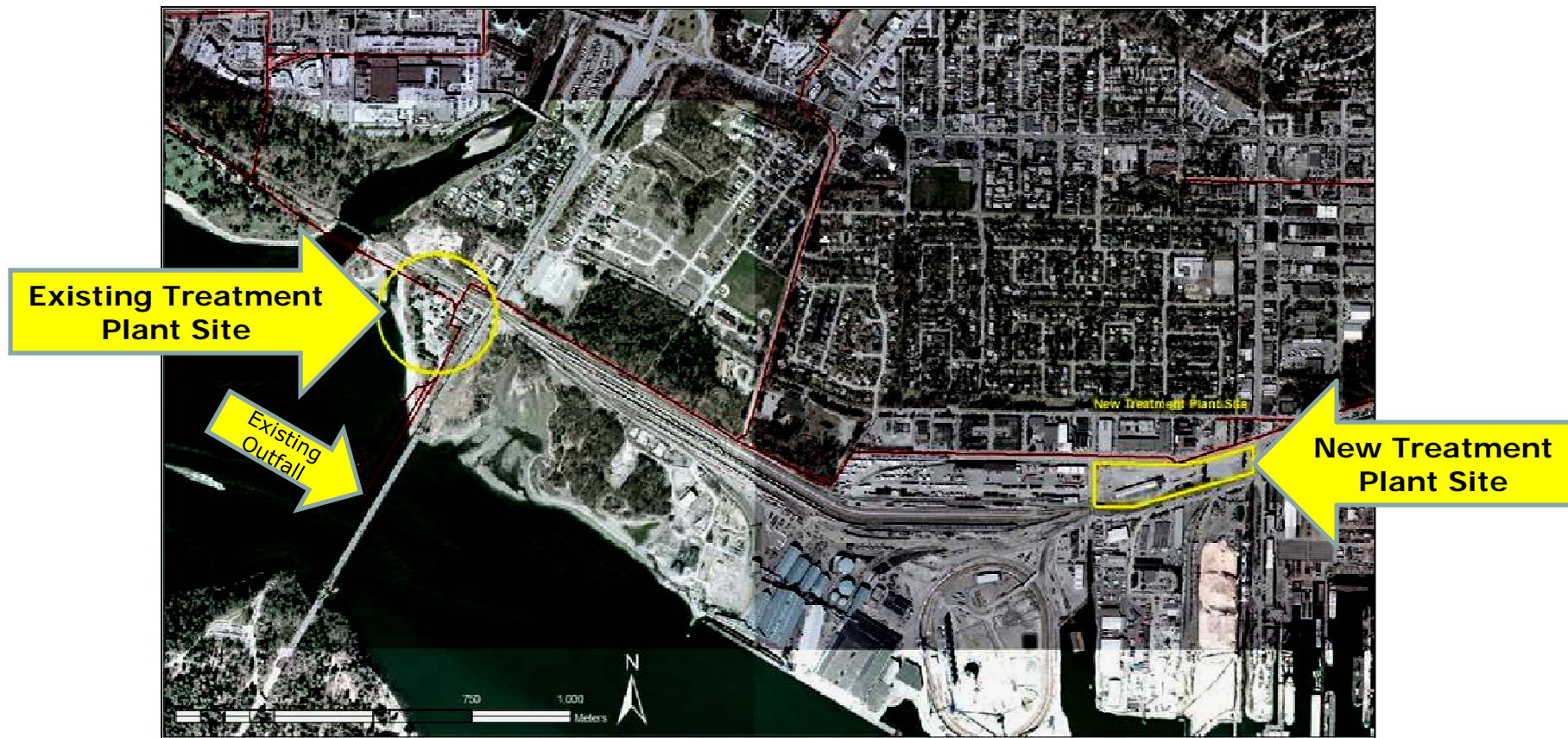
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Liquid waste continues to be managed safely, affordably, and effectively

The Lions Gate Plant upgraded to secondary level treatment by 2020



Lions Gate Wastewater Treatment Plant Location Map



Four Key Project Objectives

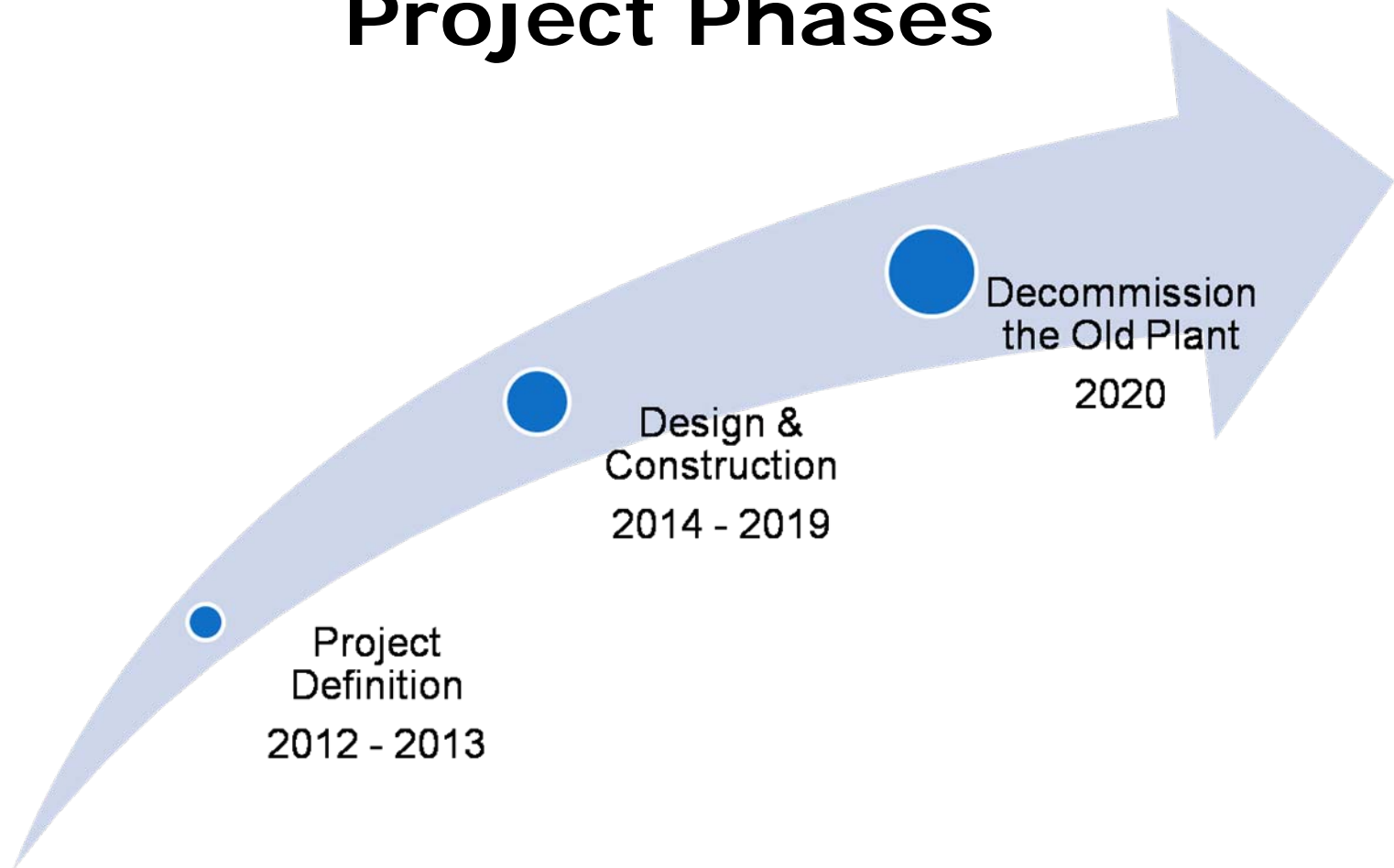
Secondary Wastewater
Treatment

Sustainability
Environmental, Social, Economic

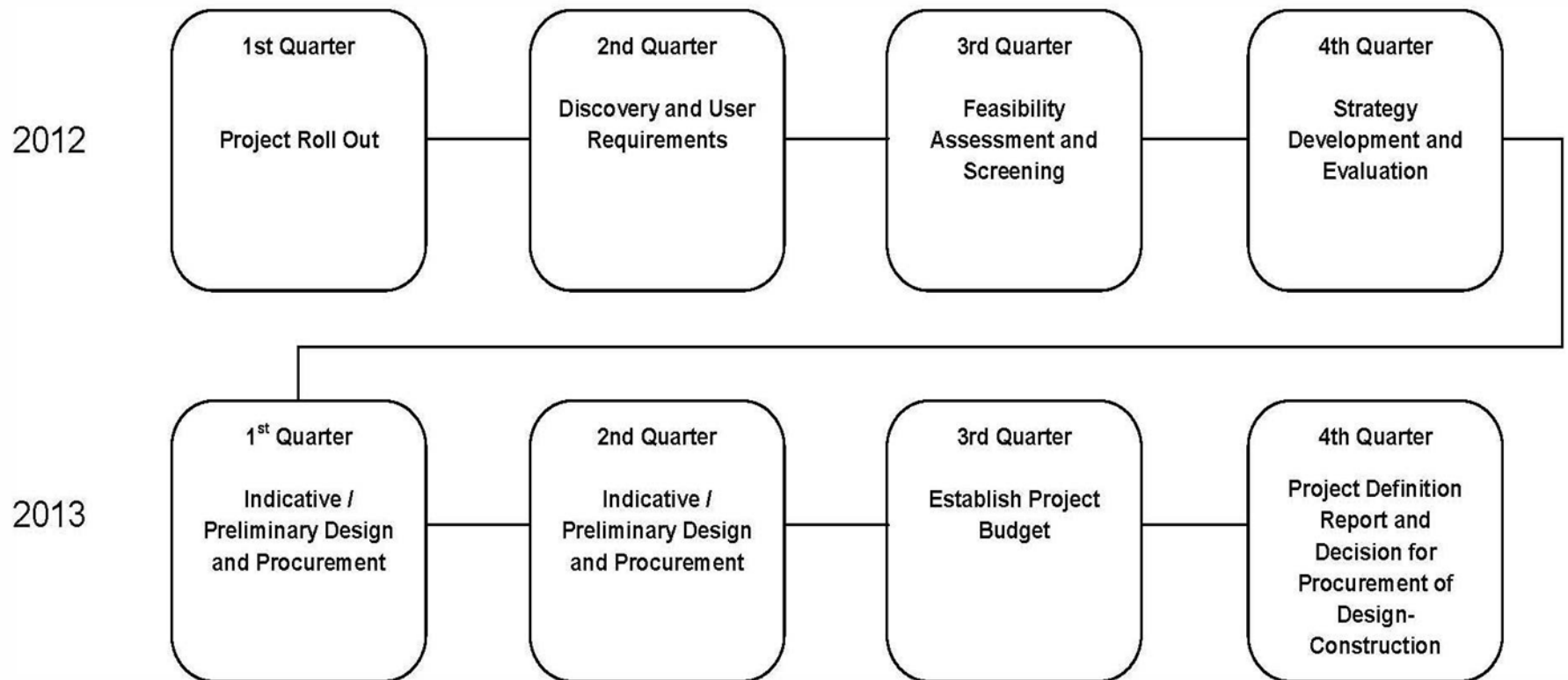
Integrated Resource Recovery

Community Integration

Project Phases



Project Definition Phase Timeline



Integrated Design Process



Infrastructure Canada Announcement

Existing Building Canada
Fund Ends in 2014

Approach for a New Long-
term Infrastructure Plan



Potential Funding Sources for Project Definition Phase



Building Canada Plan – Major Infrastructure Component



Green Municipal Fund



General Strategic Priorities Fund / Innovation Fund

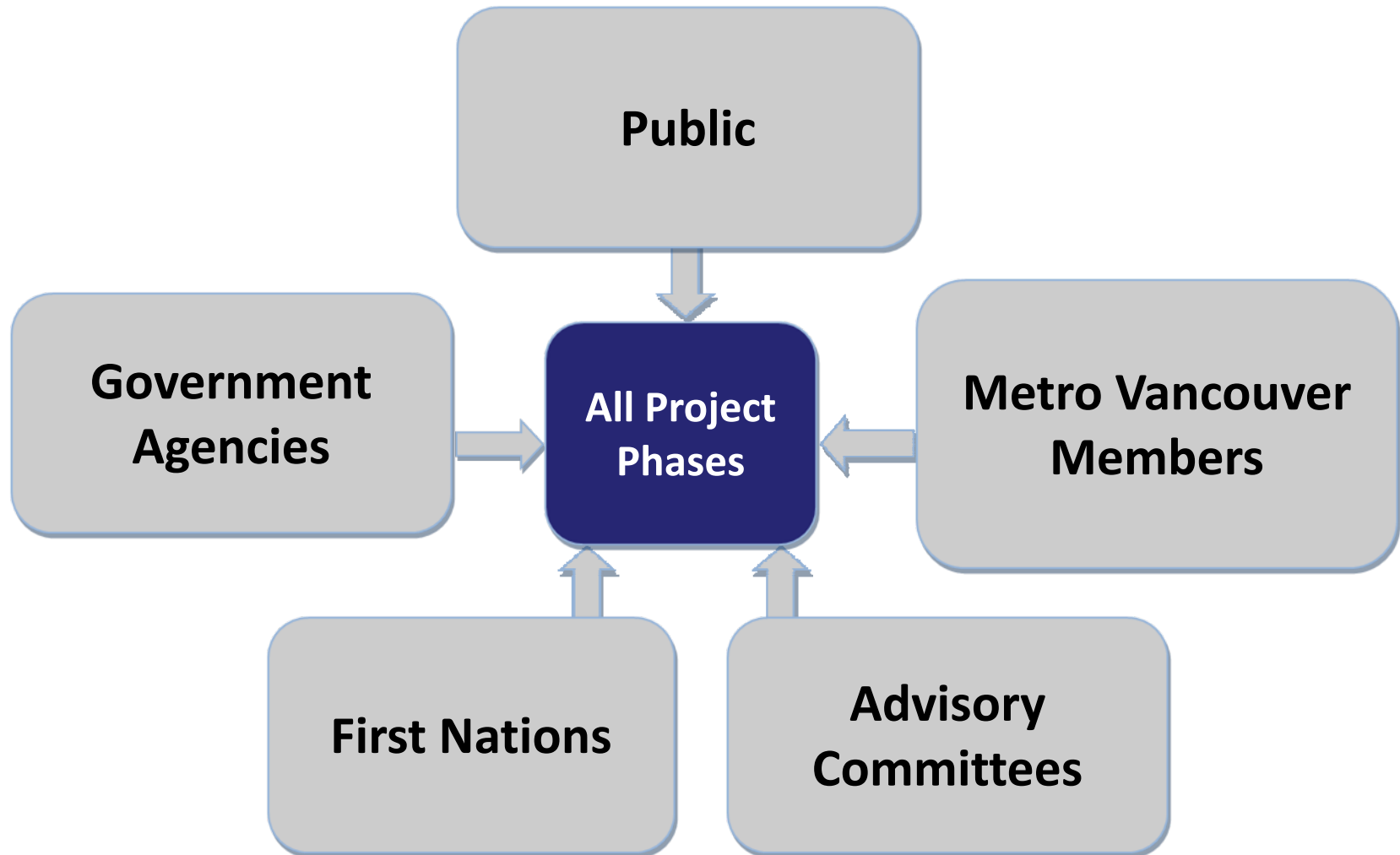
Engagement and Consultation

All phases: January 2012 – January 2021



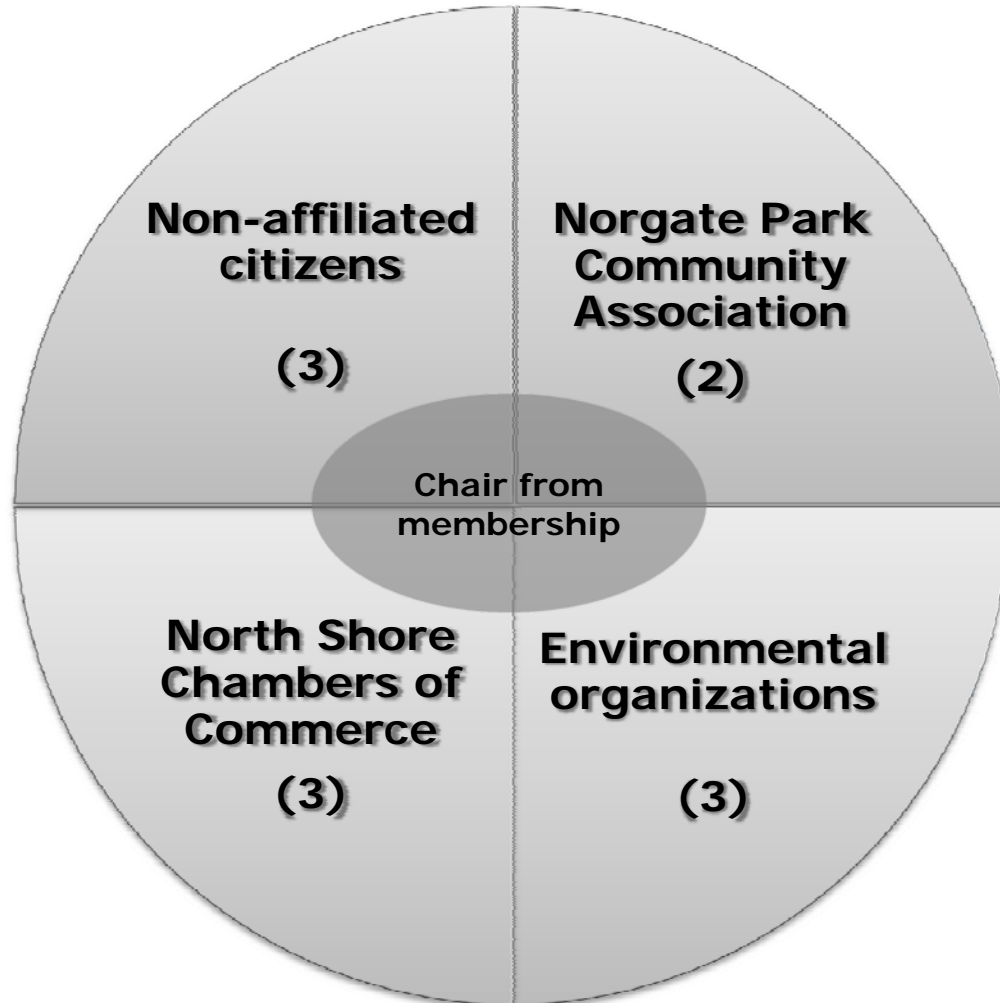
- **Project Definition**
- **Design and Construction**
- **Decommission Existing Plant**

Target Audiences



Public Advisory Committee

11 members



Public Advisory Committee

Selection Process

MV develops selection criteria with input from North Shore staff

Meetings with key interest groups to request representatives

Advertising and review of resumes for non-affiliated members



First Nations

Approximately 30 First Nations, Tribal Councils and Treaty Groups/Associations have traditional territories or interests within the project area.

Squamish and Tsleil-Waututh Nations included in the engagement process.

Invited to sit on Lions Gate Technical Advisory Committee and separate meetings, as required.

Government Agencies

BC Ministry of Environment approval for an Operational Certificate required for new plant

Metro Vancouver will notify and consult relevant federal and provincial government agencies

Opportunities for participation include the Lions Gate Technical Advisory Committee

Activities in 2012

Ongoing engagement with:

- **Metro Vancouver committees,**
- **First Nations, and**
- **North Shore councils.**



Lions Gate Secondary Wastewater Treatment Plant

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