

**IONA ISLAND WASTEWATER TREATMENT PLANT PROJECT**  
**COMMUNITY WORKSHOP #1**  
**JANUARY 9, 2019**  
**SUMMARY**

Summary of the Iona Island Wastewater Treatment Plant (IIWWTP) Community Workshop #1 (Workshop) held January 9, 2019 at the Pacific Autism Family Network, 3688 Cessna Drive, Richmond, British Columbia.

**1. Open House**

An Open House was held from 6 to 6:30pm, prior to the commencement of the Workshop. Attendees were invited to contribute to a Community Mapping Activity by placing coloured flags on a photographic satellite area map of Iona Island and its surroundings to denote the following:

- Green flags for things participants love about the area
- Orange flags for areas of concern or other issues
- Yellow flags for the identification of opportunities or potential.

Workshop participants who were unable to contribute to the Community Mapping Activity during the Open House were invited to add their comments during the Workshop and on the feedback forms provided; included here in [Appendix A](#).

Open House participants were also encouraged to engage with the project team and discuss a set of four panels that were on display near the Community Mapping Activity. The four display panels and results from the Community Mapping Activity are included in [Appendix B](#).

**2. Welcome to Workshop**

Lena Zordan, Policy Coordinator, Public Involvement, Metro Vancouver (MV) called the meeting to order at 6:34 pm by welcoming participants and introducing the objectives of the Workshop:

- Provide participants with background on the Project and the place
- Identify how the place is currently used and valued
- Identify opportunities and constraints

Forty-five individuals, from several municipalities, representing various businesses, organizations and individual interests participated in the workshop; see [Appendix C](#).

**3. Project Overview**

Fred Nenninger, Director, Policy, Planning and Analysis, MV, provided a technical project overview and noted that the IIWWTP is the last of the MV primary treatment plants being upgraded, as required by the MV Integrated Liquid Waste and Resource Management Plan and Government of Canada Wastewater Systems Effluent Regulations. Mr. Nenninger went on to explain that the Workshop is designed to provide early public feedback and input into the Project Definition Phase of this Project. The Design and Construction Phase of this project will occur between 2021 and 2030.

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**4. Iona Beach Regional Park**

Sylvia Pendl, Park Planner, MV, introduced Iona Beach Regional Park as part of Metro Vancouver Regional Parks, Greenways & Reserves. Ms. Pendl provided an overview of the habitat rehabilitation and eco-system restoration efforts undertaken to date at Iona Beach Regional Park.

**5. Story of Place – Iona Island**

Jeff Cutler, Landscape Architect, space2place, offered a broad look at Iona Island from a historical perspective and provided background on:

- How people are currently using the space, showing data from social media as an example
- The complexity of the estuary and how it impacts fish and wildlife habitat in the area
- A depiction of the influence the jetties have on sedimentation patterns
- Iona Island’s location within Coast Salish territory:
  - Traditional language areas
  - Indigenous transportation routes
  - An area of immense activity historically
  - Indigenous place names in the vicinity of the site
  - Traditional fishing activities
- Evolution of Iona Island is industrial development expanded along the north arm of the Fraser River
- Iona Island is a Ramsar Convention Designated Wetland and considered an important estuary.

The full *Presentation – Community Workshop #1* is available on the Metro Vancouver website.

**6. Q&A**

Ms. Zordan facilitated a question-and-answer period. The following table summarizes MV’s responses to questions and concerns provided by attendees.

<b>Issue, Comment, Question</b>	<b>MV Response</b>
Who makes the selection decision when moving from three scenarios to one?	The ultimate decision is with the MV Board of Directors. The decision-making process evolves through the input received at the evaluation stage and then progresses to looking at the trade-offs through each step, along with community and technical input. Final review is conducted by the MV Liquid Waste Committee and then their recommendations are passed on to the MV Board of Directors.
Communities live across from the site. Where is the information about how high and how big the plant will be? How much noise and light? Will Deering Island be affected?	At this early stage of the Project Definition Phase there is no design yet. The height, precise location and potential impacts will be determined through this process of collecting input. We are identifying these kinds of concerns through the engagement process so that we can incorporate considerations and include mitigation measures into our design.

Issue, Comment, Question	MV Response
How will the IWWTP affect our view from the Dunbar area? How you are you going to landscape?	That has not been determined yet. We welcome you to share your concerns regarding impacts to views and your ideas or suggestions regarding landscaping during the workshop.
Are the storm sewers going to be separated?	<p>Stormwater and wastewater flow in the same pipe (combined sewer) throughout much of Vancouver as it is a legacy system. Legacy system means that this method of managing wastewater flow in the VSA has been in place for a long time and the new plant will inherit this system.</p> <p>Separation initiatives are underway but will not be complete until 2050. The new IWWTP is scheduled to come online in 2030, therefore, it will have to manage both wastewater and stormwater.</p>
What constraints does the airport put on you?	We will be consulting the airport authority.
What is your population estimate?	Estimates of the population in the IWWTP sewerage area have been developed with planning experts and consider the MV 2040: Shaping Our Future Plan. Current estimates anticipate a total population of 1.2 million in the Vancouver Sewerage Area by the end of the century. We are going to design a facility that will have the capacity staging to match future population estimates.
Will the Province of BC make more stringent regulations for wastewater outfall after the IWWTP is built?	Wastewater treatment is evolving and we anticipate water quality protection and objectives will change. As for regulations on water quality or restrictions on discharge, no firm direction or changes in water quality objectives have been presented.
Is there any consideration to pre-consumer waste, i.e. organic waste management on Lulu Island?	This will be noted as an opportunity or potential as the Project is developed.
Looking at a 100-year plan, geologists indicate we are overdue for an earthquake. Will the IWWTP be designed to withstand a tsunami?	Wastewater treatment plants are required to be post-disaster facilities and are designed to survive a large earthquake. It will be designed for earthquake resilience. Tsunami and other risks will be taken into account.

Issue, Comment, Question	MV Response
Would the southern jetty or causeway be repurposed to allow salmon to pass?	This will be noted as an opportunity or potential as the Project is developed.
Could this be a power station?	This will be noted as an opportunity or potential as the Project is developed.
Are you looking at the potential of bridging the north arm?	This will be noted as an opportunity or potential as the Project is developed.

## 7. Break-out Session

Workshop participants at six tables worked with a table facilitator to answer the following questions:

- Question 1 – What do you love about this place?
- Question 2 – What do you see as concerns now or in the future?
- Question 3 – What do you see as the potential of this place?

Note: For this workshop, the definition of “place” includes the project, the community, the region and beyond. It is a geographic location that is created by the qualities and experiences of a site to create a specific or unique atmosphere.

The transcription of the flipcharts created during the breakout session are included in [Appendix D](#).

## 8. Report Back

Representatives from each table were invited to share key findings from the break-out session.

- Table 1:
  - Question 1 – What do you love about this place?
    - Cycling
    - Beaches
    - Birds
    - Airport watching
    - Cycling without stop signs
    - Walking the south jetty
  - Question 2 – What do you see as concerns now or in the future?
    - The level of regulations around discharge may be in flux
    - The loss of the lagoons as bird habitat
    - Safety
  - Question 3 – What do you see as the potential of this place?
    - Potential to restore lagoon and put in education research centre
    - Demonstrate world class stewardship
- Table 2:
  - Question 1 – What do you love about this place?
    - Peacefulness is an important asset
    - Limited traffic creates a contemplative space in a busy environment
    - Natural environment is extraordinarily important

- Question 2 – What do you see as concerns now or in the future?
  - Impact on estuary is very important
  - Higher level of treatment beyond secondary to contemplate the future
- Question 3 – What do you see as the potential of this place?
  - Education centre
  - Resource recovery is very important and the plant could power the airport
  - Incubator for technology transfer
- Table 3:
  - Question 1 – What do you love about this place?
    - Nature dominates vision out there
    - Access to the river and Salish Sea
  - Question 2 – What do you see as concerns now or in the future?
    - Airport development
    - Sea level rising
    - Move the treatment plant to Point Grey Golf Course to alleviate concerns
  - Question 3 – What do you see as the potential of this place?
    - Restore all the nature aspects that used to be there
    - Inspire the best level of treatment
- Table 4:
  - Question 1 – What do you love about this place?
    - The site is so unique and offers a unique opportunity to engage with the Fraser River
  - Question 2 – What do you see as concerns now or in the future?
    - Lagoons
    - Increased foot traffic and dogs off leash
    - Loss of foreshore and shorebird habitat
  - Question 3 – What do you see as the potential of this place?
    - Endowment for long term monitoring of wildlife
    - Maintain biological important wetlands
    - Partner with University of British Columbia (UBC) to see this site as a global case study that is doing something unique using natural systems
    - Opportunities for traditional food harvesting for First Nations
    - Want a tour of existing plant
- Table 5:
  - Question 1 – What do you love about this place?
    - Peace and seclusion
    - Birds
    - Compatible recreational activities that fit with the natural values of the area
    - Washrooms are nicely maintained
  - Question 2 – What do you see as concerns now or in the future?
    - The effect construction will have on the environment
    - Sea level rise
    - Restricted access to protect habitat is important
  - Question 3 – What do you see as the potential of this place?
    - Educational opportunities
    - Using clean energy; zero emission for high standards

- Table 6:
  - Question 1 – What do you love about this place?
    - Most important thing to love is the birds
  - Question 2 – What do you see as concerns now or in the future?
    - Construction should be planned around the birds’ schedule
  - Question 3 – What do you see as the potential of this place?
    - Focus on the potential
    - Integration that is managed so wildlife is preserved
    - Increased educational opportunities
    - Power generation and a backup during a disaster
    - All levels of government should be involved in funding
    - Collaborate with First Nations to improve the estuary.

**9. Closing Remarks**

Mr. Nenninger thanked Workshop participants for their participation and contributions.

The Workshop concluded at 8:38 p.m.

APPENDIX A – PARTICIPANT FEEDBACK FORM



PROJECT

**Feedback Form – Community Workshop #1**

Wednesday, January 9, 2019, 6 to 8:30pm  
Pacific Autism Family Network, 3688 Cessna Drive, Richmond, BC

**YOUR CONTACT**

Name: \_\_\_\_\_  
Organization: \_\_\_\_\_  
(if applicable)  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone: \_\_\_\_\_

**PROJECT INFORMATION**

The Iona Island Wastewater Treatment Plant Project is a new plant that will be built to replace the existing primary level treatment plant in Richmond, BC. It will be located on the site of the existing wastewater treatment plant on Iona Island.

Metro Vancouver wants to ensure the new wastewater treatment plant makes a positive contribution to the health and well-being of people and the environment.

The project is in the planning phase until December 31, 2019. The new plant will be designed and constructed between 2020 and 2030, and will be in operation by December 31, 2030.

Metro Vancouver will provide ongoing opportunities for public input throughout all phases of the project. For this particular topic, please provide comments by Friday, January 25, 2019 to Metro Vancouver:  
Email: [ionaWWTP@metrovancover.org](mailto:ionaWWTP@metrovancover.org)  
Online: [www.metrovancover.org](http://www.metrovancover.org) search "Iona WWTP"  
Fax: 604-432-6297

**Please turn the page to provide your input**

Note: Personal information and input contained in this feedback may be compiled with other public responses and included in a report to the Metro Vancouver Board of Directors. Such reports are available to the public. All submissions will be treated with confidentiality by Metro Vancouver staff and contractors; however,







7. How did you hear about this community workshop?

- Newspaper advertisement
- Email
- Poster
- Word of mouth
- Website \_\_\_\_\_ (please tell us where)
- Other \_\_\_\_\_ (please tell us where)

8. What methods would you find helpful for receiving project information?

a. Project updates (newsletters, flyers, fact sheets) mailed or hand delivered to your home

Less helpful      More helpful

b. Email updates

Less helpful      More helpful

c. Metro Vancouver website

Less helpful      More helpful

d. Community meetings

Less helpful      More helpful

9. In addition to the above, are there other methods that you prefer for receiving communications about Metro Vancouver projects? Please list:

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10. This meeting location was selected because of its proximity to the Iona Island Wastewater Treatment Plant and Iona Island Regional Park. For future meetings, would you prefer the venue is:

- in this area (in Richmond, near the Plant & Park)
- in a more central area of the region (Burnaby/New Westminister)
- doesn't matter
- other \_\_\_\_\_.

## APPENDIX B – COMMUNITY MAPPING ACTIVITY & OPEN HOUSE PANELS

The following is a photograph of the result of the Community Mapping Activity.

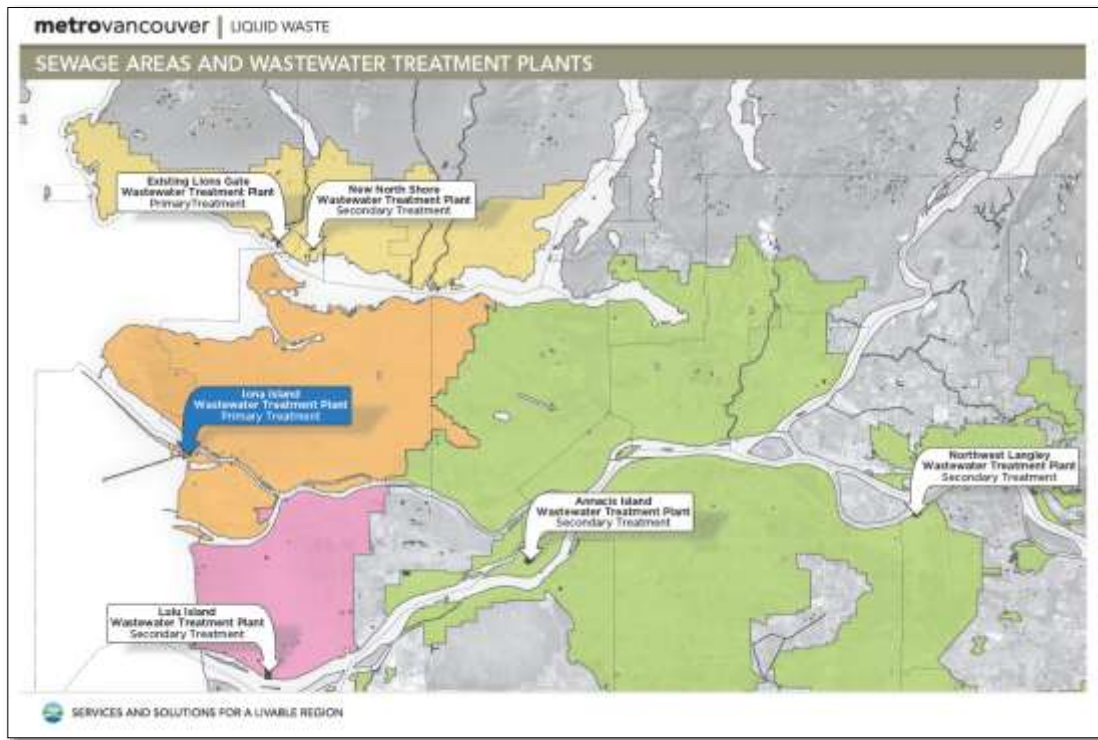
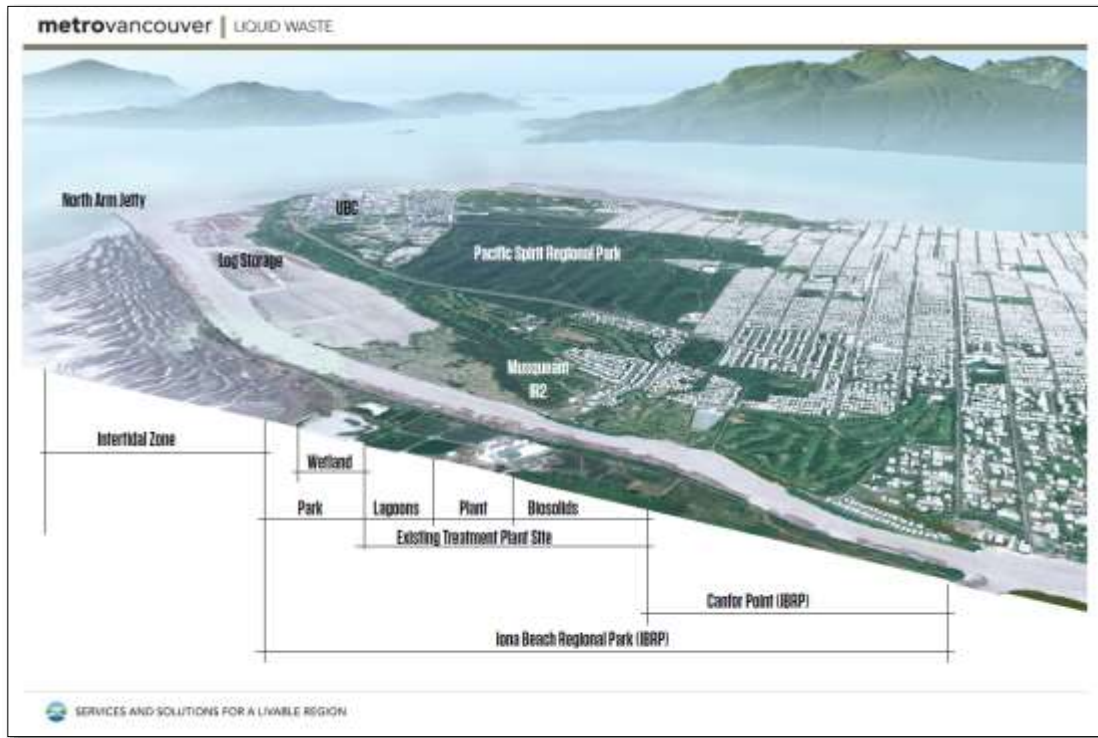


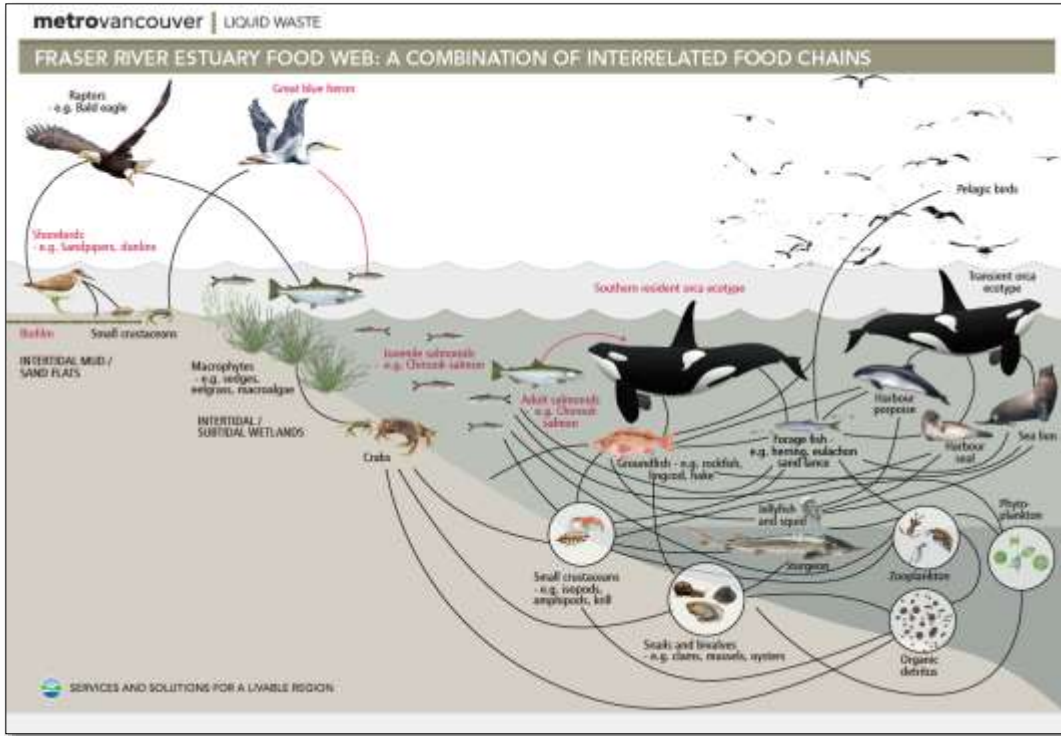
The following is a transcription of the flags placed by participants during the Community Mapping Activity, divided by broad geographical areas on the site, with the color of the flag noted in brackets after each comment.

- Green flags for things participants love about the area
  - Orange flags for areas of concern or other issues
  - Yellow flags for the identification of opportunities or potential.
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- **North Arm Jetty:**
    - Bike path right to the end and separate bike path at road (yellow)
    - Remoteness sounds of birds, wind and waves (green)
    - Slack floating village (green)
    - Clean-up the creosote pile burning site (green)
    - Aesthetics and smell of creosote (orange)
    - Thank you for the new trail bypass around the logs (green)
    - Able to walk out the north arm, plane watching, boating (green)
    - Off leash dogs disturb feeding shorebirds on migration (orange)
    - Off leash dogs (orange – flagged twice)

- Important area for birds including nesting ground birds (green)
- **Beach:**
  - Beach (green)
  - Thank you for the wheel chair mat (green)
  - Kite surfers (orange)
  - Grease balls to be eliminated from outfall (orange)
- **Iona Jetty:**
  - Great long walk (green)
  - Long bike ride and view at the end (green)
- **Lagoons and Ponds:**
  - Eagles nest (green)
  - Very special bird habitat (green)
  - A bird nature reserve like Reifel no dogs (yellow)
  - Great place for teaching bird identification and to introduce beginners to birding (yellow)
  - Good bird habitat so keep (green)
  - Enhance as better bird habitat (yellow)
  - Might lose bird habitat (orange)
  - Protected bird habitat, few people, no dogs (green)
  - Open up McDonald Slough for salmon crossing (yellow)
  - View across to the north shore mountains (green)
- **East Island:**
  - Able to walk down to Canfor Point (orange)
  - C.F.P. Eburne clean up Canfor Point (orange)
  - Needs bird habitat enhancement – was compensation for YVR development (yellow)
  - Trail down to Canfor Point (yellow – flagged twice)
  - More hiking trails here (yellow)
  - Use bio-solids on-site for green energy/ bio-products (yellow)

The following are the four Open House Panels.





## APPENDIX C – PARTICIPANT LIST

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### Live in the following municipalities:

City of Burnaby  
City of Coquitlam  
City of Delta  
City of North Vancouver  
City of Richmond  
City of Surrey  
City of Vancouver

### Represent the following organizations:

Nature Vancouver  
Dunbar Southlands  
Azuma Foods  
Richmond City Council  
Wildlife Rescue Association of BC  
Colony Farm Heron Count  
Blue Projects  
YVR  
BC Nature  
Delta Naturalists  
Nature Guides BC  
UBC Chemical and Biological Engineering  
Canada Post Corporation  
BBA  
Wild Research  
Hancock Wildlife Foundation  
Ivy Automation LLC  
Dunbar Residents' Association  
Point Grey Golf Course  
National Industrial Symbiosis Program Canada  
Light House Sustainable Building Centre

### Table Facilitators and Staff Resources:

Rick Bitcon, Senior Engineer, AECOM  
Jeff Cutler, Landscape Architect, space2place  
Nanette van Doorn, Communications Officer, MV  
Carlos Hunte, Senior Project Engineer, MV  
Michel Labrie, Architect, Local Practice Architecture  
Sylvia Pendl, Park Planner, MV  
Tom Sadleir, Public Involvement Program Manager, MV  
Scott Wolf, Architect, Miller Hull  
Matthew Woodruff, Architect, Local Practice Architecture  
Robyn Worcester, Natural Resource Management Specialist, MV  
Roberta Pak, Recording Secretary, Mosaic Writing Group

## APPENDIX D – TRANSCRIPTION OF FLIPCHARTS

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The following are the transcribed notes from the flipcharts generated during the break-out session:

### Table 1

#### *Question 1 – What do you love about this place?*

- People and wildlife connect
- Excellent birding (please enhance)
- Vast open spaces – big sky
- Great place to take visitors birding
- Special landscape and habitat
- Rare bird sightings
- Specific birds due to habitat
- Nesting birds – all kinds
- Rearing area for salmon (important)
- Diversity of recreation opportunities
- Great cycling
- Place where people interact with the Fraser River
- Bird conservation for specific species (for example, Purple Martin)
- Snake habitat (McDonald Beach)
- Key flyway spot
- Working and living river (FREMP)
- Accessible – open, flat, good sightlines
- Accessible beach mat
- Access the North Arm (bypass trail)
- Heart of Wild Research’s organization (with a decade of birding data)
- Integrates nature, wildlife, community, interpretive
- Good place for beginner birders
- Good interpretive programming by parks

#### *Question 2 – What do you see as concerns now or in the future?*

Note: This table circled items of key importance and those are noted in bold below.

- **Loss of lagoons and ponds**
- Loss of areas that are currently inaccessible to **dogs** (lagoons)
- Sea level rise will inundate the island
- **Sand loss**
- We don’t understand sediment patterns, flows or other dynamic events to know what the impacts will be
- If the park is improved then the place will be overrun by people and dogs
- **Risk of degradation of habitat with additional visitors**
- Comments on how to overcome concerns:
  - Improved treatment re: contaminants
  - Managed access into Canfor Point to accommodate increased population
  - No dogs
  - **Maintain intertidal foreshore**



*Question 3 – What do you see as the potential of this place?*

Note: This table circled items of key importance and those are noted in bold below.

- MV to create an endowment fund for long-term ecological monitoring of wildlife providing interpretive opportunities
- Invasive species removal (including funding for long-term)
- **Beautiful and biologically functional wetlands**
- Create and make better bird habitat for the **whole delta** by looking at the **whole system**
- YVR to use south runway NOT north (this is a concern)
- Bird **protection** and wildlife resource protection
- Place for education and training; **partner** with UBC (make this a case study/example of novel natural/ human integration)
- Water **recovery** resource
- Power some of YVR through power capture
- Capture and process methane
- Revenue opportunities thru processing of bio solids
- Open causeway, etc. to enhance fish habitat
- Opportunities for traditional food harvesting in addition to salmon
- Incorporate habitat/nesting opportunities into architecture i.e. Barnswallows, bats, owls, etc.
- Tour of existing plant – tourist opportunity

**Table 2**

*Question 1 – What do you love about this place?*

- Doesn't seem in a city
- Positively remote feeling
- Magnificent views
- Feel like in estuary
- Smells like the ocean in a good way
- Bird releases successful here
- Walking (people and dogs) Fraser River and Sturgeon Bank
- Cycling
- Access to waterfront
- Great site for wedding pictures
- Bird watching spot
- Transition zone for salmon "Speaking for the salmon"
- Howling cold in November

*Question 2 – What do you see as concerns now or in the future?*

- Airport development
- Sea level rise issues
- Make sure this project has a long-term vision for the future
- Population growth = overwhelm the system
- Salmon that get stuck behind the causeway
- Ensure process supports reconciliation
- How to retain views in the face of growing real estate development pressures
- Good work in the past has fallen on deaf ears...why is this time different?

- Ensure dovetail and integration with Iona Beach Regional Master Plan
- Move plant to north side of the river upstream of Musqueam
- DFO Designation 29-3 recognizes Musqueam Fishing Area; article in paper 1/7 – waters polluted
- Port of Vancouver development of areas around Iona
- Recognize needs of wildlife in project

*Question 3 – What do you see as the potential of this place?*

- Understand and integrate Canfor site
- Recognize need to clean-up past sites of pollution
- Fix water quality issue
- Integrate interpretative opportunities
- “Where are the Musqueam today (at the meeting)?”
- Recognize First Nations names
- Restore juvenile salmon habitat
- Move plant to North side of the river
- Refer to studies done for similar sites
- Minimize impacts to Deering Island residents
- Partnerships with research organizations but concern with long-term funding research
- Build the best secondary WWTP in the world
- Recognize and anticipate future regulatory changes to minimize cost impact of compliance
- Opportunity to use project as educational tool for awareness
- Deal with future changes now in terms of treatment strategy

Additional Comments from this table:

- Questions:
  - How to transfer LGWWTP knowledge to this project?
  - Where does solid waste go?
  - Power generation – how?
- Most hopeful (roundtable):
  - Project on time and budget
  - That Iona Island becomes a nature park
  - That the water quality coming out of this plant will be the best in the world
  - Keep it above sea level
  - Plan and allow for future expansion without impacting park

**Table 3**

*Question 1 – What do you love about this place?*

- #1 bird hot spot
- Vital stop on flyway
- Habitat on inner ponds
- Connection to water
- Far from the city
- Preservation of habitat and green spaces
- Nice park facility
- Nice long walk on jetty
- Plant provides a beneficial service

*Question 2 – What do you see as concerns now or in the future?*

- Concern with loss of habitat for plants and animals
- Impact of construction
- Increase in access could be detrimental to habitat
- Cost
- Missed opportunities
- Impacts of climate change
- Allow for future proofing

*Question 3 – What do you see as the potential of this place?*

- Increase educational opportunities
- Increase the community assets
- Increase recreation connection and access
- Manage access for recreation with the protection of habitat; balance synergies and manage constraints
- Take advantage of integrated resource recovery
- Juvenile salmon nursery
- Potential for First Nations reconciliation
- Research:
  - Waste water
  - Ecological centre/ habitat
  - Fish, salmon, sturgeon
- Partnership with universities
- Research for integrated resource recovery
- Increase educational tours for plant and park (K-12) and post-secondary
- Increase the livability of the estuary – habitat
- Increase the size and complexity of ecosystems
- Increase the experience of the park (restrooms and water stations)
- Leap frog over secondary treatment
- Increase access to water ecosystem (diving, scuba)
- Increase external funding potential (Federal, partnerships)
- Improve access to park and plant (multi-modal and transit)
- Use this opportunity to add resilience to the region (power generation and redundancy of treatments)

**Table 4**

*Question 1 – What do you love about this place?*

Note: This table marked items of importance with an asterisk and those are noted in bold below.

- Environmental protection
- **Cycling**
- **Beach**
- **To see the birds**
- **Convenience and accessibility to bird habitat from Vancouver**
- Lagoons the best opportunity to observe shore birds in Lower Mainland
- Able to get very close to shore birds
- The lagoons have the gate which manages the disturbance of the birds and the birders

- The lagoons provide access to view birds
- **Airplane watching**
- **No interruptions along the roadway (i.e. no stop signs)**
- Wild bird research bird banding station:
  - Close to most nest locations
  - Good variations in tree height
- Good to be located apart from human traffic
- Recognized by Bird Life International as an important bird biodiversity area
- **Love walking the south jetty (sunsets and storms)**

*Question 2 – What do you see as concerns now or in the future?*

Note: This table marked items of importance with an asterisk and those are noted in bold below.

- **Concerned that the province will make discharge permits more stringent; the treatment plant has to be way more efficient than now**
- **Concerned about the implications of the foreshore runway; both from a recreational perspective and a bird perspective**
- **Loss of lagoons**
- Loss of bird habitat
- Would be concerned if the lagoons are changed; they are of highest value when filled with sediment
- Concerned about the input of changes in water salinity
- **Cycling safety from Templeton to Iona**
- Lagoons are a “gas” station for migrating birds
- **Concerns about micro plastics discharged in effluent**
- **Equal to concerns about birds, concerns about the quality of aquatic habitat**
- **Concerns about the costing formula to municipalities**

*Question 3 – What do you see as the potential of this place?*

Note: This table marked items of importance with an asterisk and those are noted in bold below.

- More song bird habitat
- **More cycling and walking paths**
- **Treatment wetlands to offset the loss of the lagoons**
- Designed so the wetlands are shore bird friendly
- **Similar bird education/research center to Reifel**
- More interpretative signage
- Generate electricity from the sewage and gases
- **See big picture for the recycling of the sludge for farming and natural restoration**
- **Education centre for the plant**
- **Potential to show world class leadership in waste water treatment**
- Look at best practices to demonstrate responses to climate change
- Iona’s importance will become greater as Vancouver’s population increases
- Opportunity to escape the city to experience nature

## Table 5

### Question 1 – What do you love about this place?

Note: This table circled items of importance and those are noted in bold below.

- Scenery
- Hiking, photography
- Recreation opportunities
- **Peacefulness away from the rush of the city**
- **Relaxing /contemplative**
- Watching planes
- Views - 360° view of Lower Mainland
- Whale watching
- **Natural environment**
- Not too busy, mostly residents

### Question 2 – What do you see as concerns now or in the future?

Note: This table circled items of importance and those are noted in bold below.

- **Impact on existing estuary:**
  - Jetties
  - Outfall discharge
  - Salmon, whales
- **Higher level of treatment beyond secondary**
- Odour impacts
- So much development in area (YVR and IWWTP)
- Impact on aesthetics
- Higher standard for construction (exemplary construction practices)
- Draw more visitors to the area
- Don't want to attract a lot more people to the area
- Airport noise overwhelms impacts from the plant
- Higher level of treatment
- High level of odour control
- Opportunity to build educational centre and educate the public on water pollution, etc.

### Question 3 – What do you see as the potential of this place?

Note: This table circled items of importance and those are noted in bold below.

- Bridge over Fraser River
- Ferry
- Improve the fishery
- Improve tourism
- Improve recreation opportunities
- Integration of organic waste (to reduce/eliminate other facilities i.e. harvest waste)
- **Education centre**
- **Resource recovery – power, bio-gas, other**
- Improved health; demonstration of leadership; long-term value
- Reduce resource use at airport, Canada Post, etc.
- Potential for leadership in resource recovery
- In-line turbines? Are they possible?

- Could it be an example of an exemplary integrated process?
- **Could it be an incubator for technology transfer outside of the region?**
- Could we sell clean water to California?
- Viewpoints or viewing towers for photographers and for birders
- No wires to impact photographs

#### Table 6

*Question 1 – What do you love about this place?*

Note: This table marked items of importance with a star and those are noted in bold below.

- **Birding hotspot in BC – no question**
- **Peace, secluded, quiet**
- Waves crashing
- Sunsets
- **Migration stopover point for shore birds especially**
- Important marine life
- Restricted access/ dog access is important for wildlife; increasingly important
- **Good for other recreational activities (running, biking, horse) compatible uses**
- Maintain secluded feel
- Bird resting/habitat area during construction
- Washrooms – nicely maintained
- **Simplicity of facilities – not commercial, not entertainment**

*Question 2 – What do you see as concerns now or in the future?*

Note: This table marked items of importance with a star and those are noted in bold below.

- **Effective construction and protection of the environment**
- Sea level rise
- Light pollution
- Bus access/ accessibility
- No commercialization
- Invasive species
- **Settling ponds = great bird shelters, attract birds:**
  - Opening or removing them is potential loss of habitat
  - Canfor Point also
- Impacts to industry:
  - Log boom holding
  - Shipping
  - Need to consider
- Port industrial site in the park:
  - Negative impacts
  - Creosote smell/pollution
  - Can it be added to the park?
- Visual impact/aesthetics of site
- Lack of enforcement:
  - Kite surfers
  - Dogs off leash
  - Clear signage/ enough signage

- **Carrying capacity of the park – increase size**
- Opening up currently closed areas:
  - Canfor Point

*Question 3 – What do you see as the potential of this place?*

Note: This table marked items of importance with a star and those are noted in bold below.

- Park office for MV staff – save money
  - Share between MV departments
  - Resources
  - Costs
  - 25 workers
  - Not reducing park space
- **Leverage energy recovery and optimizing (methane, materials, solids, organics, minerals) resources recovered**
- Improve environment and air quality
- **Improve habitat for birds and fish**
- **Educational opportunities:**
  - For larger community
  - Meeting space
  - Habitat /displays / interpretation
  - Sea level rise
  - On wastewater treatment
  - On parks
- Art/ interpretative features – like chimneys at Olympic Village lighting up
- Integrate infrastructure with nature
- Improve fish migration routes with river flows
- **Zero emissions production**
- To be world class; lead using global examples and latest developments/ technologies
- Viewing platforms
- Jobs for UBC grads – chemical engineers internship program
- Research and development – collaborate with academic institutions
- Wildlife and fish research
- Expand park to include industrial site (restored) and North Arm Jetty
- Remove jetty?