



GREATER  
**VICTORIA**  
HARBOUR AUTHORITY

# Ogden Point Operations

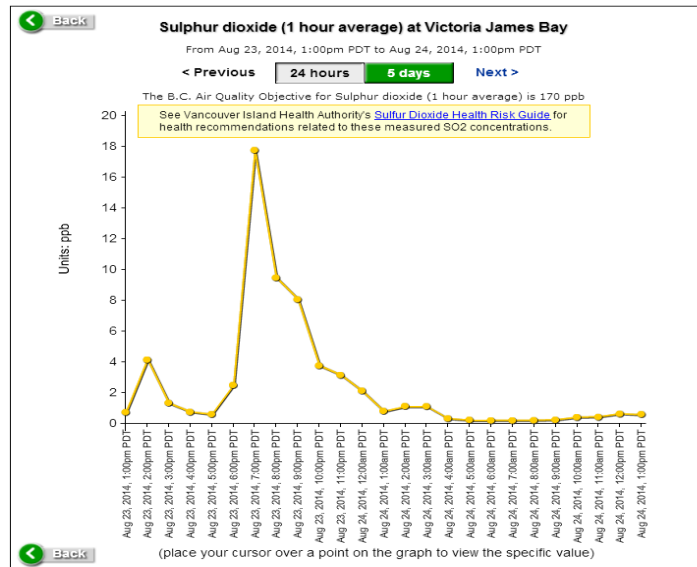
City of Victoria  
Governance &  
Priorities Committee

28 Aug 2014

# Ogden Point Operations

## Key Issues

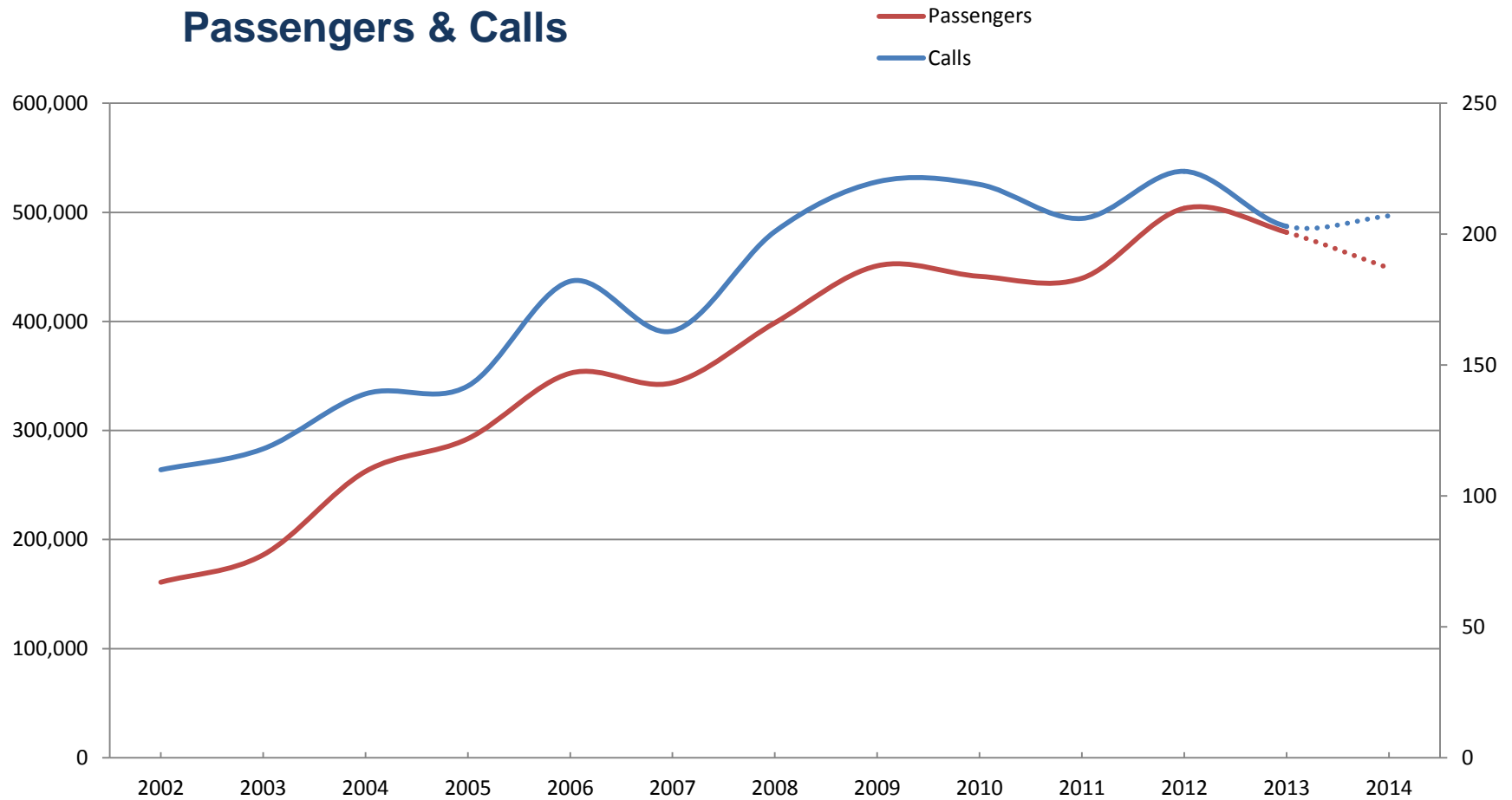
- Air Quality
- Noise
- Traffic



# Cruise Traffic Growth



## Passengers & Calls



# Cruise ~ Economic Impact



## Spending ~\$ Millions

Source	2012	2013
Cruise lines	15.6	14.0
Passengers	25.8	24.7
Crew	7.6	7.3

*Source: BREa (3<sup>rd</sup> party validation by Oxford Economics)*

## Individual Spending (2012 survey)

Source	Spending per PAX	Percentage coming ashore
Passengers coming ashore	\$66.1	77.5%
Crews member coming ashore	\$64.1	43.0%

*Source: BREa (3<sup>rd</sup> party validation by Oxford Economics)*

- Cruise spending provides an important foundation for long-term sustainability of the region's tourism attractions/assets, which helped the industry weather the recent economic downturn

## Economic Output ~\$ Millions

Source	2012	2013
Total Output (direct & indirect)	96.1	88.7
Employment (indirect)	683	636
Wage Income (\$ Millions)	30.0	28.0

*Source: BREA (3<sup>rd</sup> party validation by Oxford Economics)*

- Translates to ~\$425K in total economic impact per ship call, or \$8.5m/season for each ship (based on 20 calls per season)



## GVHA participated in the following:

2008	James Bay Air Quality Study Phase I
2009	James Bay Air Quality Study Phase II
2009	James Bay Air Quality Study Phase III
2011 – current	James Bay Sulphur Dioxide Monitoring Program

## Project Partners:

- Ministry of Environment
- Vancouver Island Health Authority
- University of Victoria Spatial Sciences Division
- James Bay Neighbourhood Association
- Environment Canada (early phases)
- Cruise Industry Association (as required)

## Air Quality Trend at Erie Station



Source: VIHA 2013 Report: [http://www.viha.ca/NR/ronlyres/01720FD1-FE51-49F1-A366-00F7981E365A/0/ERIE\\_SO2\\_2013\\_Final\\_Jan2014.pdf](http://www.viha.ca/NR/ronlyres/01720FD1-FE51-49F1-A366-00F7981E365A/0/ERIE_SO2_2013_Final_Jan2014.pdf)

## Erie Street Monitoring Station

- Continuous draw of air sample from 1 location
- Capture depends on weather conditions, particularly wind direction/speed)
- Readings fed into a data-logger which calculates 1-minute averages
- 1-minute values used to calculate 1-hour and 24-hour values
- Values used to compare to provincial air quality objectives
- 24-hour values are 'rolling averages' (hourly values can have a dramatic effect)

## Analysis & reporting

Supply data and support the work of the experts to complete 2014 monitoring report



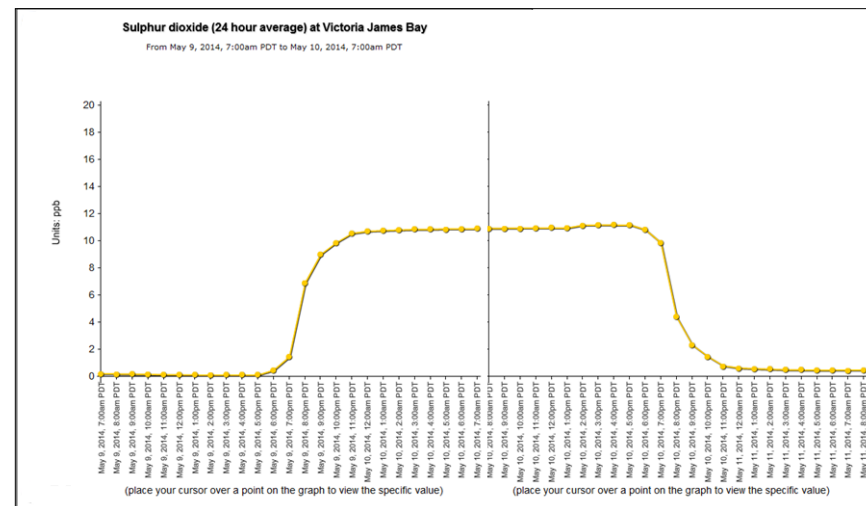
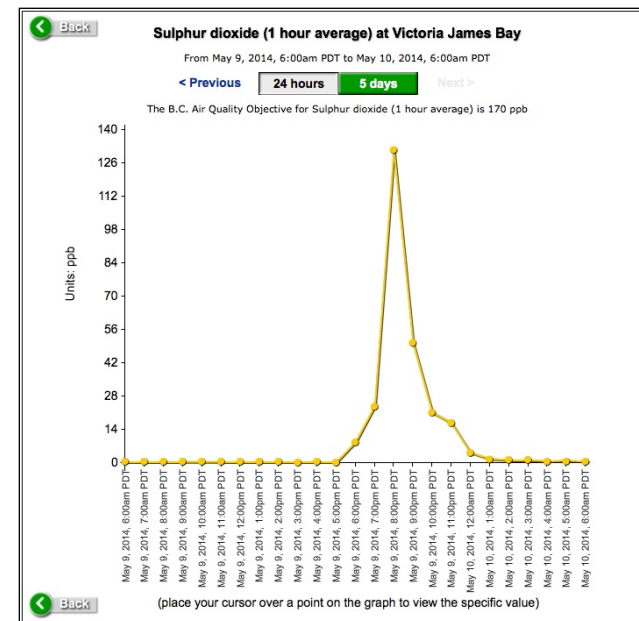
## Consultation with key stakeholders:

### Vancouver Island Health Authority/ Ministry of Environment

- Met with reps to review air quality results, and monitoring accountabilities and communications

### Cruise Line Industry Association - Northwest & Canada

- Met with reps to discuss cruise line operations and future plans to manage emissions



## Emissions Control Area (ECA)



### Implementation ...

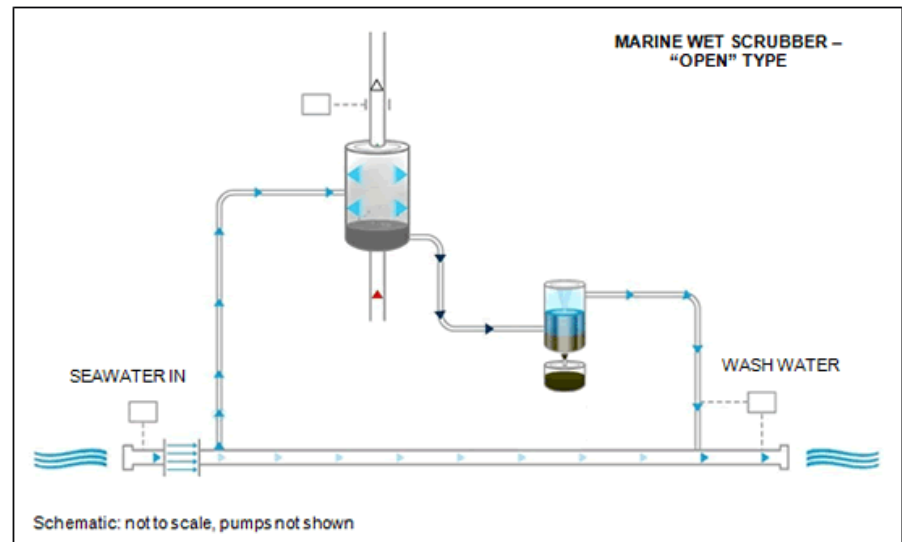
- Aug 1, 2012 ... 1.0% sulphur or better
  - Jan 1, 2015 ... 0.1% sulphur or better \*
- \* Exclusions have been given to ships that are installing scrubbers

### ECA Compliance

- Low sulphur fuel
- Scrubber technology
- Shore power
- Transport Canada is responsible for regulation of ECA
- Short term exemptions and equivalencies have been given to ships investing in scrubber technology

## Scrubber Technology

- Removes sulphur oxides from ship's engine and boiler exhaust gases
- Pollutants removed:
  - $\text{SO}_2$  ~ 98%
  - Particulate Matter ~80%
  - $\text{NO}_x$  ~ 5%
- Cruise industry is investing hundreds of \$millions into this comprehensive solution ... effective at sea, approach port and at berth



Source: Exhaust Gas Cleaning Systems Association <http://www.egcsa.com/>

## Shore Power Limitations

Not an effective solution for Ogden Point due to:

- Cost of up to \$10M capital cost to service 1/3 of calls
- No benefit when ships maneuvering into port
- Scrubber technology and regulations will more fully address air quality concerns



# Cruise Passenger

## Traffic Tracker

	2014	2011
	<i>Average for May - July</i>	<i>Snapshot: Aug 22 - Aug 27</i>
Passengers coming ashore	87%	85%
Walking	29%	18%
Shuttle pax	22%	26%
Tour pax	35%	32%





## Pedestrian Traffic

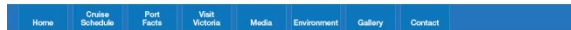
- Signage & path improvements
- Webpage and printed map with walking routes
- Temporary Harbour Pathway Signage
- Ogden Point Enhancement Society Walking App
  - Free "Walking App" for iPhones
  - Routes from Point to downtown eateries

## Opportunity

- Walking routes signage esp. David Foster Pathway



### CRUISE OGDEN POINT Your Gateway To Victoria.



### VICTORIA ON FOOT | A Walker's Guide

Victoria's cruise ship terminal lies within easy walking distance of gardens, heritage homes, parks and attractions. Walking routes to your destination can be viewed on the interactive map below.





# Multi-purpose Float

## Shore Excursion Pick-ups

- Significant volumes of whale watching tours picked up at new float

## Marine Shuttle Phase - Transition to Phase II

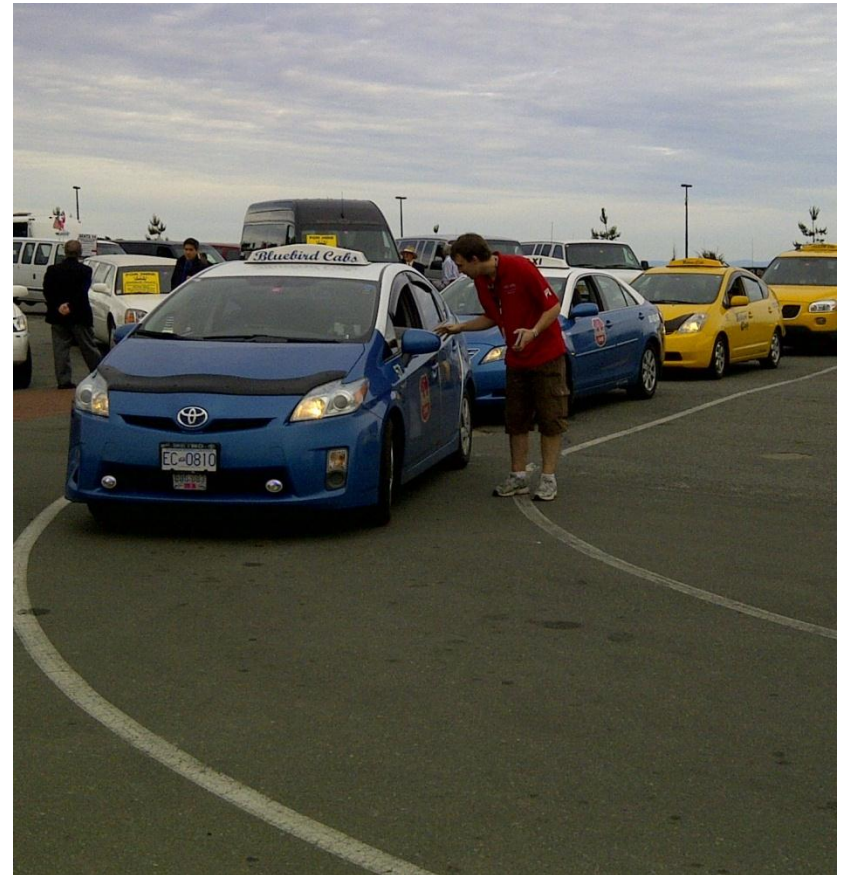
- Phase I ~ GVHA operated pilot marine shuttle now closed
- Phase II ~ Commercial operation by Victoria Harbour Ferries
- Phase I/II will be reviewed At end of the season



*Above: Re-purposed E&N Rail roof; shelter for multi-purpose float*

## Ground Transportation

- Speed boards in the community
- Commissionaires documenting speeding past reader boards
- Ongoing consultation with transportation operators
- Feedback management system (ISO compliant) to log and respond to concerns



## Cruise Shuttle

- Piloting of transit-style buses
- Increasing efficiency by:
  - trialing short route
  - eliminating additional stops

## Shore Excursion (Shore-ex)

- Effective 2015, max. engine age of 1999 set for any “new” buses to be added/permitted at Ogden Point

## Looking forward ...

- Exploring strategic approaches and partnership(s) to bring newer, cleaner and quieter buses into service





*Thank you ...*

