

Recreational Water Quality Protection

Update to Vancouver City Council May 2, 2017



Overview



- Update on activities since January 2016
- Findings
- Next steps
- Recommendations

May 2015 Council motion



Work with interested government agencies and departments, non-government organizations and individuals to achieve a goal of zero beach closures



False Creek Water Quality Working Group



- Representatives from City, Park Board, VCH, Metro Vancouver, Transport Canada, MOE
- 2015 "pump, don't dump" campaign
- 2016 Greenest City Scholar research project to collect, compile, and analyze data
- Extended hours at Burrard Marina
- Boater survey (March 2017) sought input for pump-out facility improvements



Sewage Management



- Existing pump-out facilities are inadequate
- Anecdotal evidence suggests significantly more liveaboards than permitted
 - Subject of 2017 Metro Vancouver Homeless
 Count
 - If not permitted, not connected to sanitary sewer
 - Marina owners/operators not enforcing

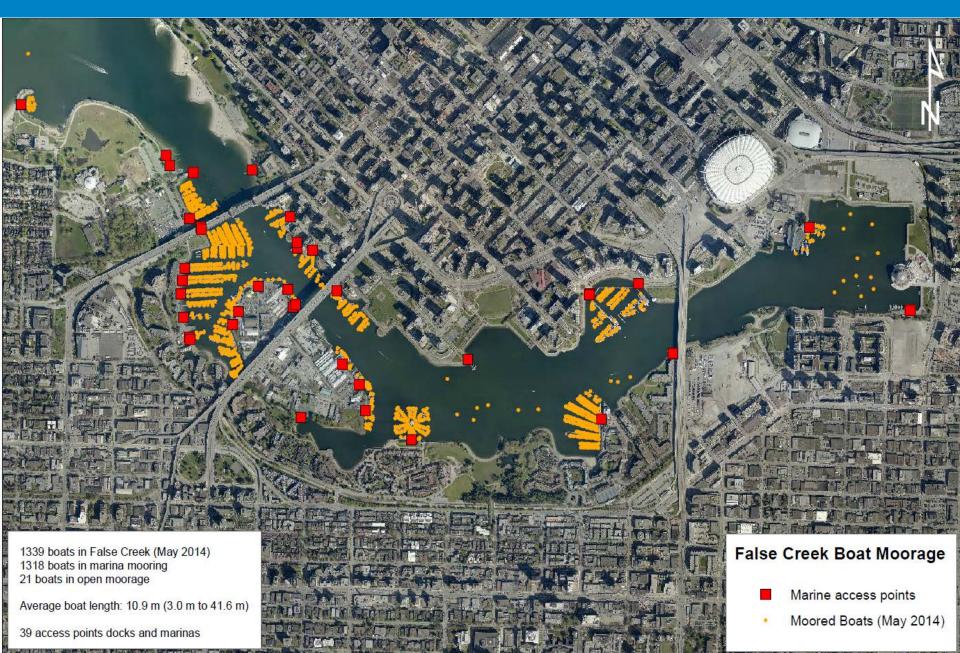
Greenest City Scholar research



- GCS compiled data from various sources, collected additional data, and assessed for patterns and correlations
- Research project confirmed majority of E. coli contamination in False Creek is from human waste
 - Potential sources: boats, sewer crossconnections, CSOs, land-based outputs to storm sewer

False Creek Boat Moorage (2014)





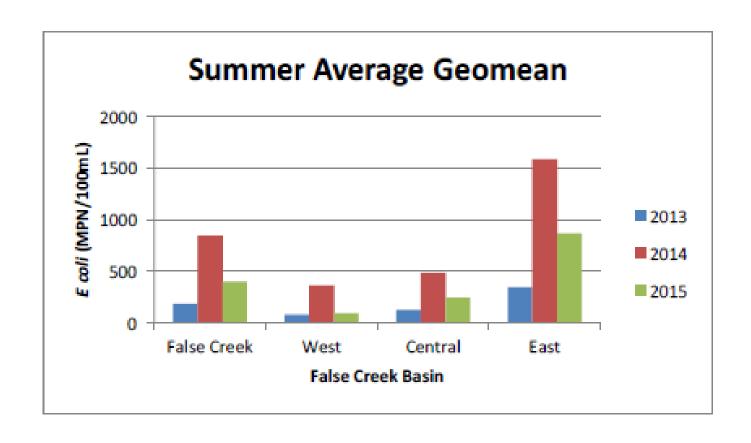
Sewer Outfalls





Spatial Distribution



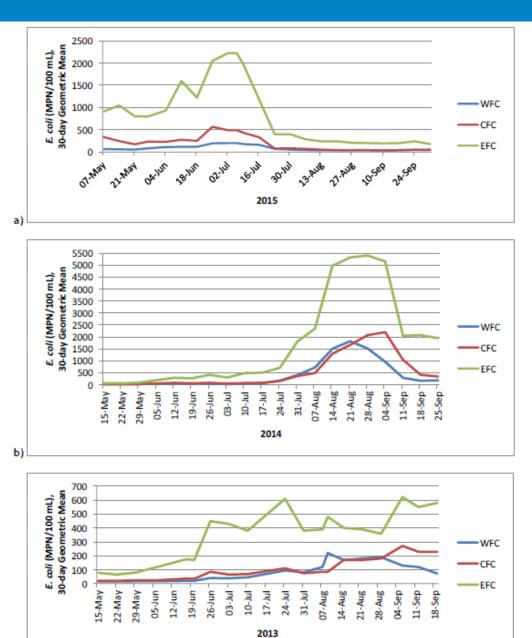


Average geometric mean of *E. coli* counts in False Creek

Temporal Distribution

c)







- Since the 2015 MV Marathassa oil spill in English Bay, the City has been better informed of oil releases into nearby waters
 - Almost weekly releases in False Creek
- Staff participating in Federal (regional), provincial, and local oil spill preparedness and response initiatives



Upcoming initiatives



- Communications campaign (spring 2017) to improve public awareness and understanding of water quality issues, contributing factors, and associated regulations
- Completion of Federal (regional),
 Provincial, and City's oil spill preparedness and response plans

Proposed activities



- Staff further consult with marina and boat operators on approaches to improve water quality protection
 - Bring forward recommendations for related VBBL amendments
- Conduct pilot project for City-funded, mobile sewage pump-out services in False Creek
 - Report back on success and findings
- Retain service provider to audit boats
- Enhance enforcement through escalation from education and warnings up to commencing prosecutions

Proposed by-law amendments



Health By-law

- Marinas section removed in 2007
- Recommend immediate enactment of proposed amendments to:
 - reinstate requirements for sewage management, oil discharge, and garbage management
 - require marina owners ensure waste properly managed in their facilities
 - require boaters properly manage their waste

Proposed by-law amendments



VBBL

- Requires liveaboards have sanitary sewer connection
- Requires new marinas have easily accessible pumpout connection for visitors and non-liveaboard vessels
 - Proposal: all marinas must provide easily accessible pump-out facilities or services
 - Consult with boating community and marina owners/operators prior to enactment
 - Transition period of three months from enactment date
 - Non-compliant marinas will be unable to renew business licenses

Recommendation



 Council support proposed activities and by-law amendments, and direct staff to proceed