



# Odour Control Facilities for Ashbridges Bay Treatment Plant

Presentation to  
**Neighbourhood Liaison Committee**

**November 19, 2009**





# Odour Control Philosophy (Scope of Work)

- Minimize odour generation through process changes
- Collect odourous air from plant sources
- Convey odourous air to abatement system
- Treat air using biological filtration
- Disperse residual odour using elevated stack
- Comply with regulatory requirements
- Manage project within budget

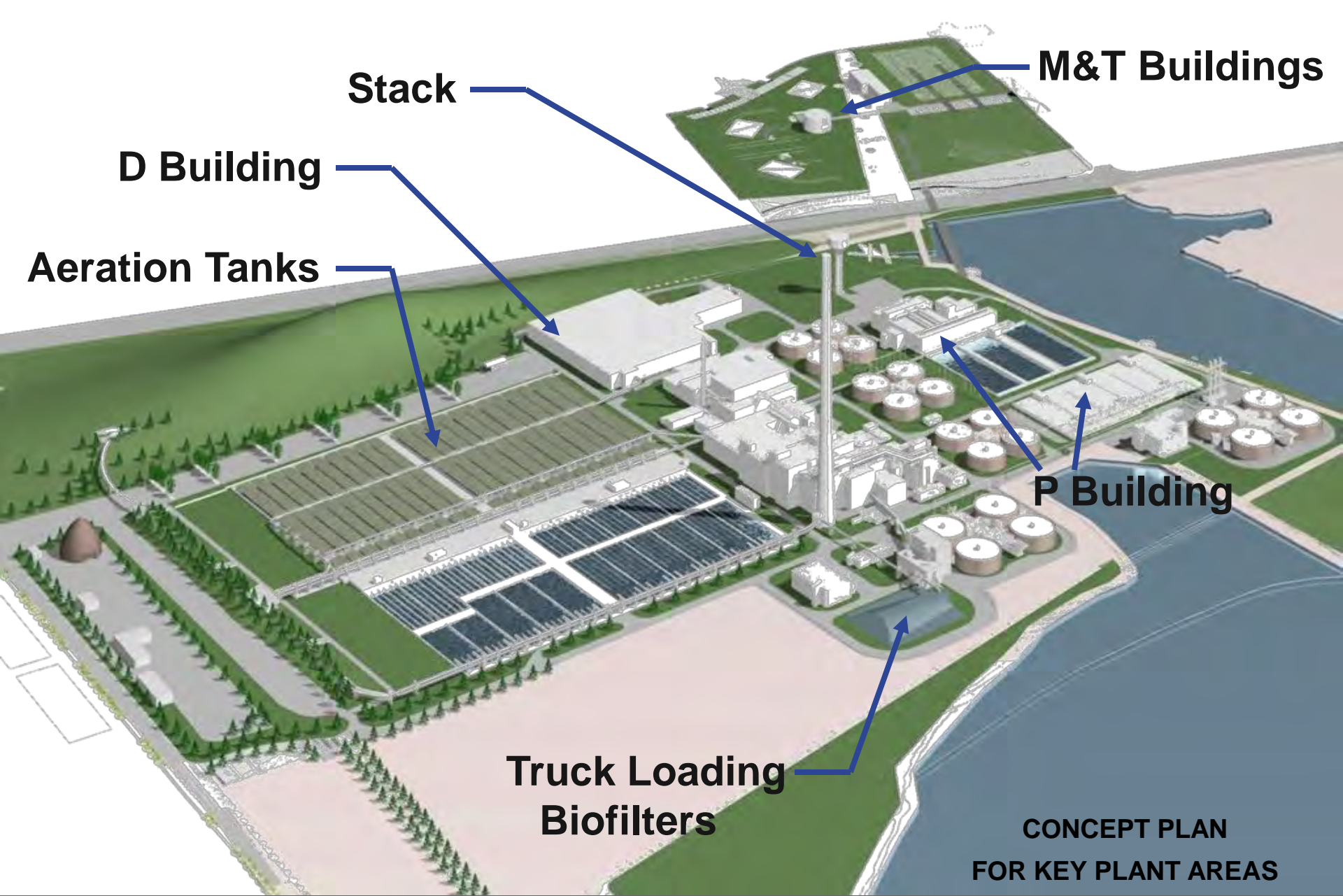




# Project Steps

- Conceptual Design
- Pre-Design
  - Air Management Study
- Detail Design
- MOE Certificate of Approval (C of A)
- Procurement
- Construction
- Post-Construction

Accomplishments		Current		Next Steps	
Conceptual	Pre-Design	Detail Design	Permit	Procurement	Construction



**Stack**

**M&T Buildings**

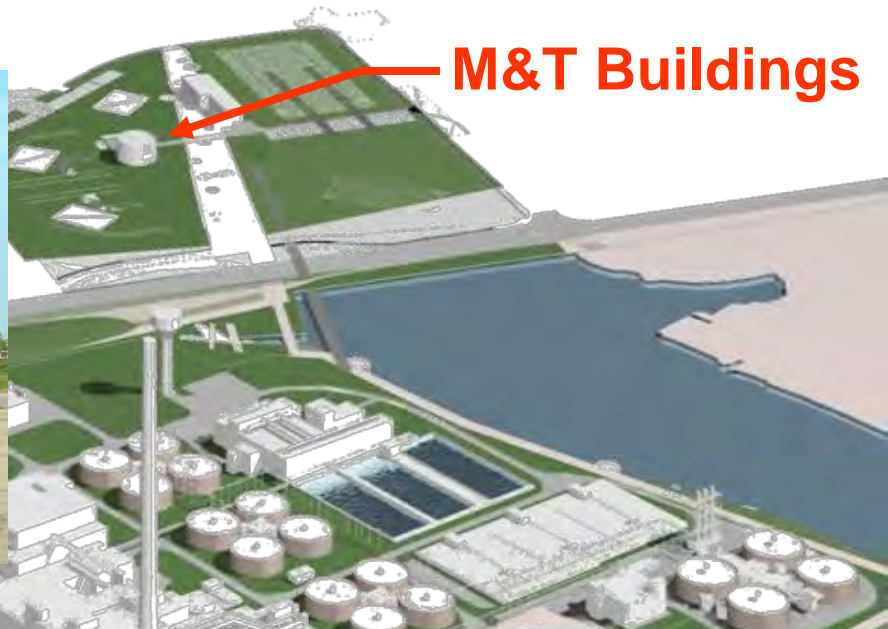
**D Building**

**Aeration Tanks**

**P Building**

**Truck Loading  
Biofilters**

**CONCEPT PLAN  
FOR KEY PLANT AREAS**





# M & T Building



## Accomplishments

- Screen Replacement
- Pump Room Ventilation Upgrade
- Detail Design
  - Odour Scrubber
  - General Building Ventilation
- Permit (C of A)
- Procurement

## Current Status

- Construction
- Winter 2010 Completion

Conceptual

PreDesign

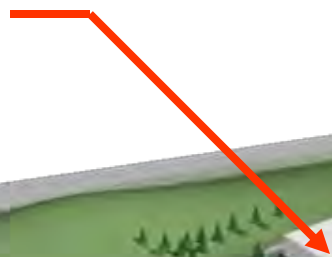
Detail Design

Permit

Procurement

Construction

**D Building**





# D Building



## Accomplishments

- Detail Design
  - New Biofilter
  - Grit Removal
  - Screens Relocation
  - New Screens
  - New Enclosed Grit and Screenings Washing and Conveyance
  - New Enclosed Loading Bay
- Permit (C of A)

## Next Steps

- Tender in Winter 2009-10
- Construction 2010-2013

Conceptual

Pre-Design

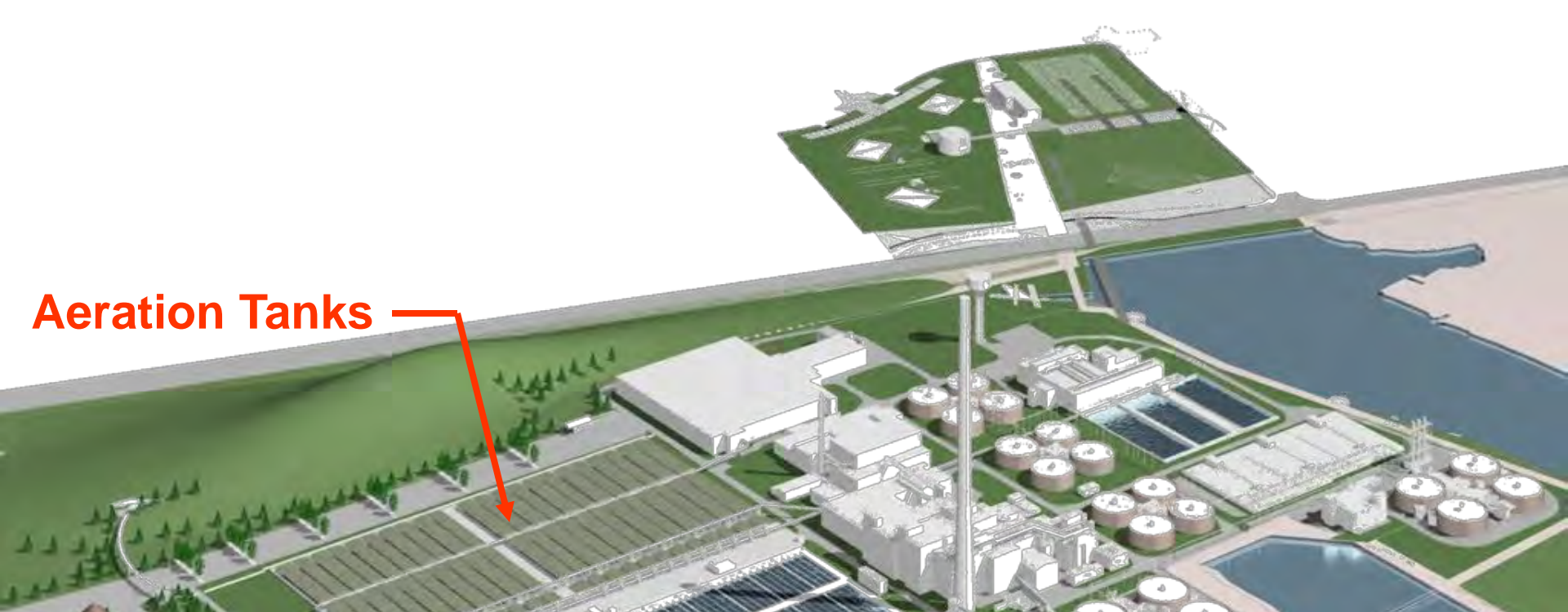
Detail Design

Permit

Procurement

Construction

**Aeration Tanks**





# Aeration Tanks Odour Control



## Accomplishments

- Final Design:
  - Re-use of existing infrastructure
  - Direct exhaust via the main stack
- Permit C of A

## Next Steps

- Procurement Fall 2009
- Construction 2010-2011

Conceptual

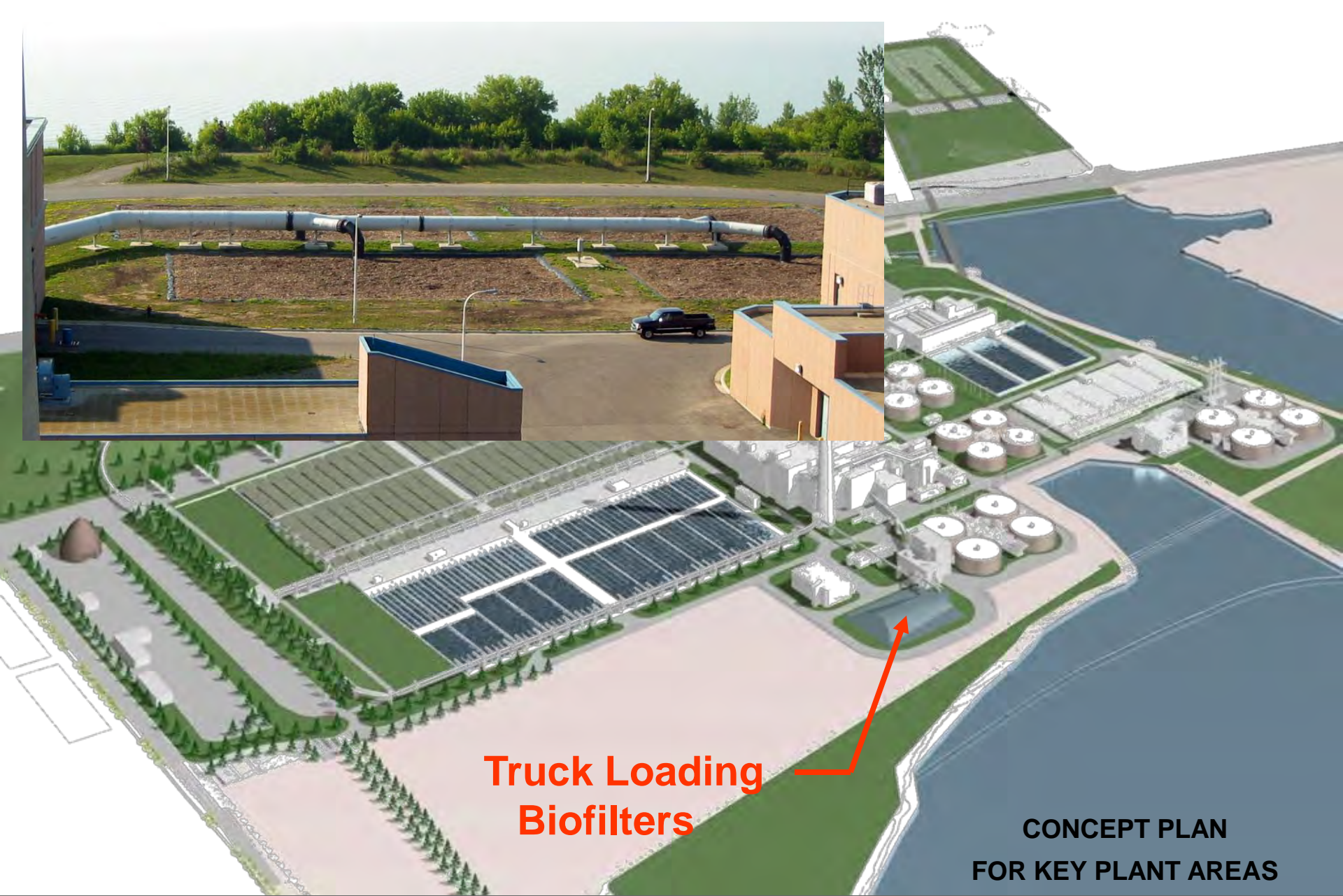
Pre-Design

Permit

Detail Design

Procurement

Construction



**Truck Loading  
Biofilters**

**CONCEPT PLAN  
FOR KEY PLANT AREAS**



# Truck Loading Biofilter



## Accomplishments

- Pre-Design Report
  - Concrete & Aluminum Enclosure
  - Dedicated Stack
- Permit (CofA)
- Overall Odour Impact: 0.2%

## Next Steps

- Performance Evaluation
  - Media replacement
  - Covering
  - Full Replacement
- Detail Design
- Construction

Conceptual

Pre-Design

Detail Design

Permit

Procurement

Construction





# P Building Upgrade



## Scope

- New Biofilter
- Process Upgrades

## Next Steps

- Conceptual Design
- Odour Reduction Program
- Permits
- Detail Design
- Procurement
- Construction

Conceptual

Pre-Design

Detail Design

Permit

Procurement

Construction



# Odour Control Facilities for Ashbridges Bay Treatment Plant

QUESTIONS?