

PROJECT REFERENCE DATA SHEETS

Project Name	▶ Pollution Control Centre & Expansion
Client/Owner	▶ City/Region Client
Design Cost	▶ --
Contract Cost	▶ --

Description of Work:

CSE has participated as Lead Structural Demolition Engineer in the development of controlled demolition of a large interior Incinerator located in the Sludge Disposal Building at the Pollution Control Centre.

This work had to be undertaken with great care since the building remained in operation. The Incinerator unit spans approximately 25ft in height by 22ft wide and contains a steel cylinder shell lined with refractory brick. The interior is divided into six individual hearths that are separated by refractory brick shelves which extend towards a central shaft spanning from top to bottom of the incinerator. There were two “rabble” or raker arms that attach horizontally to the central shaft in each hearth, both the central shaft and raker arms are insulated with a castable refractory. The roof of the incinerator consists of refractory brick coated with castable plaster like refractory topped with ballast material.

CSE participated in the expansion of the plant by preparing detailed structural demolition procedures for the decommissioning of various building structures to include, Settling Tanks, Filter Rooms, High Lift Pumping Stations, Low Lift Pumping Stations and the Operations Building. This work has to take place while the adjacent structures remaining in service

Photograph:

CSE STRUCTURAL FORENSIC & REHABILITATION SERVICES
 GENERAL STRUCTURAL DEMOLITION GUIDES

Revision:

Title: D022-11 Guidelines No. D1- General Guidelines for Demolition Work
 General Pollution Control Centre Incinerator No. 1, London, Ontario

As required, we are pleased to submit the following General Structural Demolition Guidelines for the above captioned site.

This guideline deals only with structural related issues. All structural related work shall be performed in accordance with provisions found in the OHS & Regulations, the CAN/CSA S08 Code of Practice for Safety in Demolition of Structures, the National Building Code of Canada, and the Permit Plans & Specifications, as applicable.

For the purpose of this guideline and any other follow-up guidelines, the City of London shall be referred to as the "Owner" and AECOM shall be referred to as the "Consultant" (ECOR).

As the work progresses, additional supplementary guidelines will be developed to ensure the work proceeds respecting the safety of the remaining building structures and with reference to public/safety.

1.8 UNDERSTANDING OF WORK:

CSE has been retained by Quantum Munay LP (QMLP) to act as the "Structural Demolition Engineer of Record". CSE will undertake the responsibility of preparing structural demolition and restoration guidelines to design suggested sequence of demolition removal, rate any special structural safety precautions that shall be undertaken and design the required restorator work detailed under the Contract between QMLP and the Owner.

CSE shall ensure that any significant structure that is scheduled for demolition which may pose a structural safety concern are specifically addressed within this guideline and any follow-up guidelines.

All Structural Demolition work will be undertaken using well established methods of demolition described in the following paragraphs.

2.0 DEMOLITION TECHNIQUES & METHODOLOGIES

The demolition of the incinerator will be performed using Traditional Hand Demolition Work.

includes the removal and disposal of the incinerator and its associated field equipment such as small tools, pry-bars, wedge hammers, cutting devices, working platforms and hoisting/lifting systems.

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