

**PROJECT REFERENCE DATA SHEET**

<b>Project Name</b>	▶ <u>Chemical Processing Complex</u>		
<b>Client / Owner</b>	▶ <u>Demolition Client</u>	<b>Year</b>	▶ <u>--</u>
<b>Design Cost</b>	▶ <u>--</u>	<b>Contract Cost</b>	▶ <u>--</u>

**Description of Work:**

Carvajal Structural Engineers Inc. (CSE) was retained to be a Demolition Specialist for the complete structural assessment and safe access to this large chemical processing complex which had been shut down. Of prime concern was with the existing multi-storey Calcium Chloride Plant, the Soda Ash Plant, the Soda Ash Tower Structure and Existing Large Calcium Chloride Storage Tanks. Structural Shoring and Repair Details were designed for the restoration of the main storage warehouse. Due to the corrosive nature of the chemicals used throughout the years, the existing structural steel components for the buildings had suffered severe corrosion and were structurally deficient. CSE was given the responsibility to evaluate the on-site conditions and prepare detailed guidelines/procedures to include:

- Detailed Safe Access Guidelines and to establish no-work zones, travel paths and escorted access to the critical sections of the buildings.
- Perform Structural Reviews of severely deteriorated corroded buildings to establish the remaining structural safety margins and formulate building demolition guidelines.
- Perform building structural steel material take-off for steel re-cycle.
- Prepare structural repair details for the Storage Warehouse which included replacement of columns portions of walls and roof structures.
- Prepare detailed Demolition Guidelines/procedures including Control Drops Designs.

**Figure/Photographs:**

