

## Project Overview

- **Project Type:** Jaw Crusher Installation
  - **Location:** Carson City, Nevada (Carson River floodplain)
  - **Elevation:** ~1,150 m
  - **Ore Type:** Gold ore
  - **System Capacity:** 1,000 tph
  - **Moisture Content:** 3%
  - **Availability Target:** 90%
  - **Top Feed Size:** 10"
  - **Product Size Target:** ~1"—6"
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## Site Conditions

- **Climate:** Arid
  - **Annual Rainfall:** ~127 mm
  - **Soil Type:** Carson Series (floodplain smectitic clay)
  - **Soil Bearing Capacity:** ~200 kPa
  - **Water Table Depth:** ~0.5–1.5 m
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## Crusher Details

- **Type:** Jaw Crusher
  - **Model:** PE1200×1500
  - **Capacity Range:** 400–1,000 tph
  - **Reduction Ratio:** ~6:1
  - **Motor Size:** ~800 hp (600 kW)
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## Foundation Design

- **Static Load:** ~600 kN
- **Dynamic Load (x2 factor):** ~1,200 kN
- **Footprint:** 4 m × 3 m (12 m²)