Upper Reservoir: A new reservoir constructed adjacent to the Base administrative complex; approximate surface area of 375 acres, depth of 20 meters.

Upper Inlet/Outlet: Controls the flow of water in and out of the upper reservoir.

Primary Spillway: Essentially a large funnel-shaped drain; a failsafe in the unlikely event the upper reservoir is nearing capacity.

Secondary Spillway: A back-up drain for the upper reservoir which acts as an additional failsafe to the Primary spillway, engineered for a controlled release of flow.

Headraces: Connects the upper inlet/outlet to the inlets in the powerhouse.

Tailraces: Connects the surge chambers to Georgian Bay (lower reservoir).

Powerhouse: Includes the pump/turbine units and associated electrical and control facilities; in a cavern with major components deep underground.

Surge Chambers: Manages pressure variations due to changes in water velocity.

Access Tunnel: Provides personnel access to the powerhouse for construction, operations and maintenance.

Maintenance Access: Contains an access shaft to the tailraces and a divider that can be used to isolate the tailraces.

Lower Inlet/Outlet: A manifold used to divert water; each port would be screened and raised off the lakebed to avoid sensitive near-shore aquatic habitat. The tailraces will be tunneled underground, and under the lake bed, connecting the powerhouse to the inlet/outlet.

Switchyard: The electrical connection between the pumped storage facility and the provincial electricity system.

Offices & Control Room: Workplace for day-to-day operations and maintenance of the facility.

Ring Road: A new roadway around the perimeter of the upper reservoir for safety and maintenance.

Ventilation Shafts: Enables air circulation.