

# Calgary Aggregate Recycling (CAR)

## Circulation Routes & Operation Locations

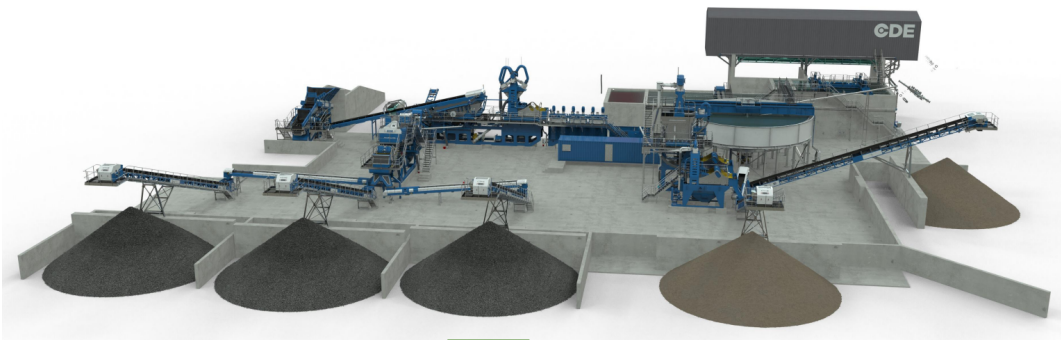


### Materials Drop-Off & Storage

- A - Pre-tested, accepted materials are brought on-site in dump trucks through the existing entrance from 60 Street SE to proceed along the East and then South edge of the property (green route).
- B - Incoming materials are weighed at the scale.
- C - After weighing, the trucks either proceed with soil to the unloading area for stockpiles (orange routes), or hydro-vac trucks unload directly to the feeder (blue route to the Feeder & Pre-screening E).
- D - After unloading, empty trucks proceed back along their path of origin to exit along the south and east edges of the property back on to 60 Street SE.

### Materials Recycling Facility

Details of the Soil Recycling Facility (E through L) are documented on the following page.



### Outputs

- M – Fines cakes are generated from the Plate Press Filtration System (K) and tested prior to delivery to GeoCycle for use in concrete (100% in 2023), or to a Class II Landfill. Uses for this output are being explored to replace interrupted processing by GeoCycle in 2024. In 2024, 75% of the cakes were sent to landfill.
- N - Sand and aggregates are stored on-site and sold for landscaping, road maintenance, construction, and other uses.
- W – Recycled water from the Soil Recycling Facility is reused within the system or utilized by hydro-vac vendors for further hydro-vac operations. Surface groundwater from the concrete operations pad is also collected from the site by a liner beneath the concrete. The operational pad is roughly the same area as the green highlighted area on the map to the left.

- X - A 600,000 litre water storage tank holds recycled process water and storm water collected on the site for use in the operations of the facility.
- Y - Storm water discharge location (used once in 2023 under a Site Drainage Application due to extra overland water collected). No discharge events occurred in 2024.
- Z - 400 bbl (18,000 gal) water tanks to store additional water (purchased since discharge event in 2023).

### Additional Operations

- P – Aggregate crushing machinery is used to refine materials to targeted aggregate sizes.
- Q – Input stockpiles for Asphalt, Aggregate and Concrete Plant and Materials Recycling Facility operations .
- S - The shop is where employees gather for safety meetings, lunch, washrooms, and location of fire extinguisher and first aid kit.

