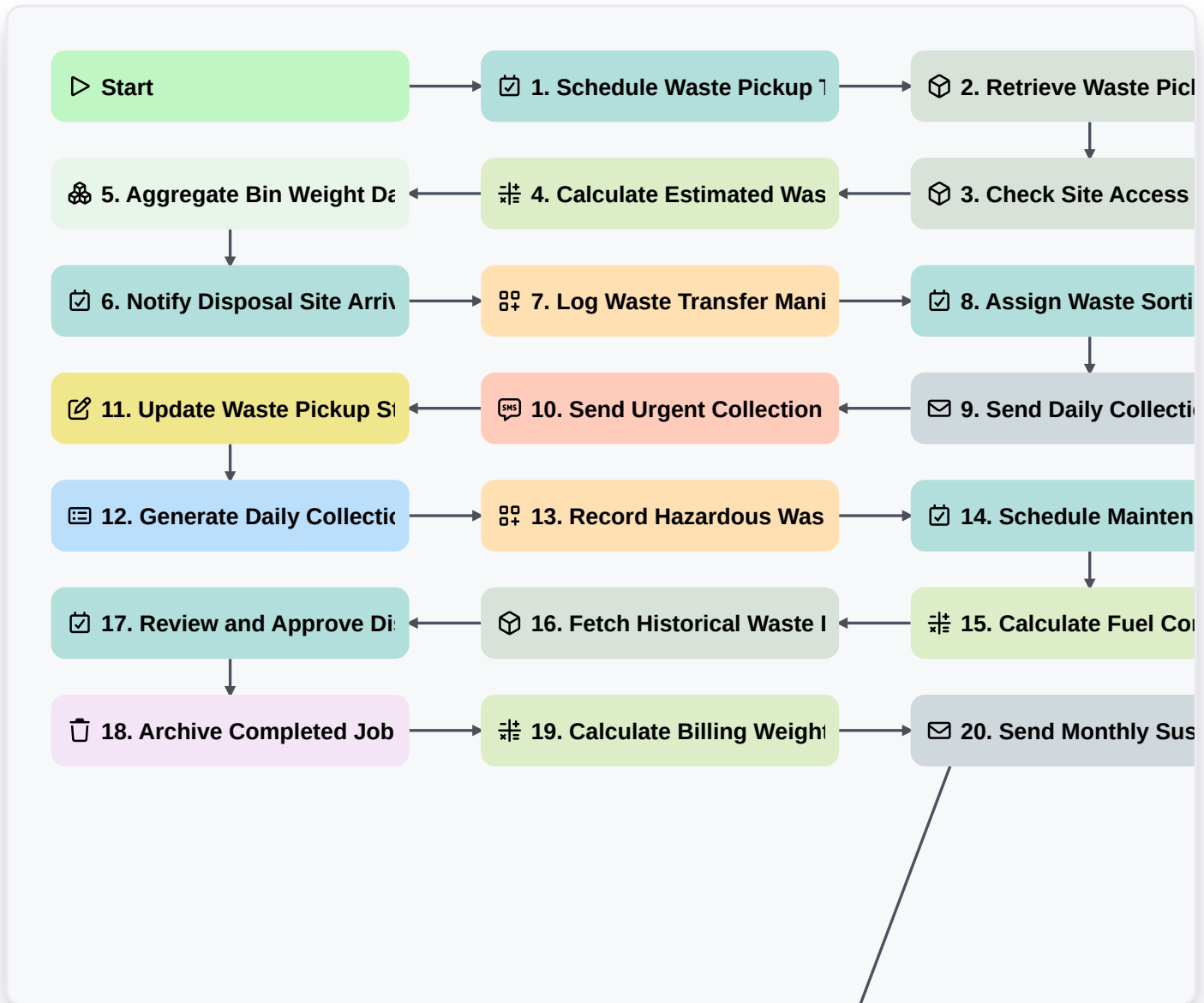


Integrated Waste Collection And Disposal Workflow Management



▷ **Start**

Start of the Workflow/Process.

 **1. Schedule Waste Pickup Task**

Creates a task assigned to the collection team based on scheduled pickups.

 **2. Retrieve Waste Pickup Details**

Fetches necessary data (location, waste type, volume) from the designated pickup schedule data model.

 **3. Check Site Access Credentials**

Verifies necessary site access permissions before deployment.

 **4. Calculate Estimated Waste Volume**

Calculates the projected waste volume based on historical data and current site estimates.

 **5. Aggregate Bin Weight Data**

Sums the reported weights from multiple containers at the disposal site.

📌 6. Notify Disposal Site Arrival

Creates a task to alert the disposal facility about the incoming waste load.

📄 7. Log Waste Transfer Manifest

Records the official waste transfer documentation upon leaving the site.

📌 8. Assign Waste Sorting Audit Task

Creates a task for staff to audit the segregation process at the source.

✉️ 9. Send Daily Collection Confirmation Email

Sends automated confirmation email to the client upon successful completion of collection.

📱 10. Send Urgent Collection Delay SMS

Sends immediate SMS alert to site manager regarding unforeseen delays.

✍️ 11. Update Waste Pickup Status

Changes the status of the job record from 'Scheduled' to 'Completed'.

📊 12. Generate Daily Collection Report

Compiles data on volume, waste types, and metrics for end-of-day reporting.

📄 13. Record Hazardous Waste Disposal Entry

Creates a specific entry detailing the disposal of regulated or hazardous materials.

📌 14. Schedule Maintenance Check

Schedules proactive maintenance tasks for collection vehicles or bins.

📊 15. Calculate Fuel Consumption Metric

Calculates fuel efficiency metrics based on route distance and weight transported.

📦 16. Fetch Historical Waste Data

Retrieves historical waste metrics for trend analysis and billing purposes.

📌 17. Review and Approve Disposal Logs

Assigns a managerial task to review and sign off on collected manifest data.

🗑️ 18. Archive Completed Job Records

Marks or deletes entries for completed, audited waste jobs to keep the active ledger clean.

📊 19. Calculate Billing Weight Total

Determines the final billable weight by calculating net waste weight.

✉️ 20. Send Monthly Sustainability Report

Sends a summary email containing resource diversion rates and monthly compliance metrics.

🏁 End

Start of the Workflow/Process.