LIDFLIPPER

From Idea to Application

How I vibe-coded and deployed a field app in a weekend

Built for SB 1383 route reviews: 1,855 carts reviewed for the City of Pasadena

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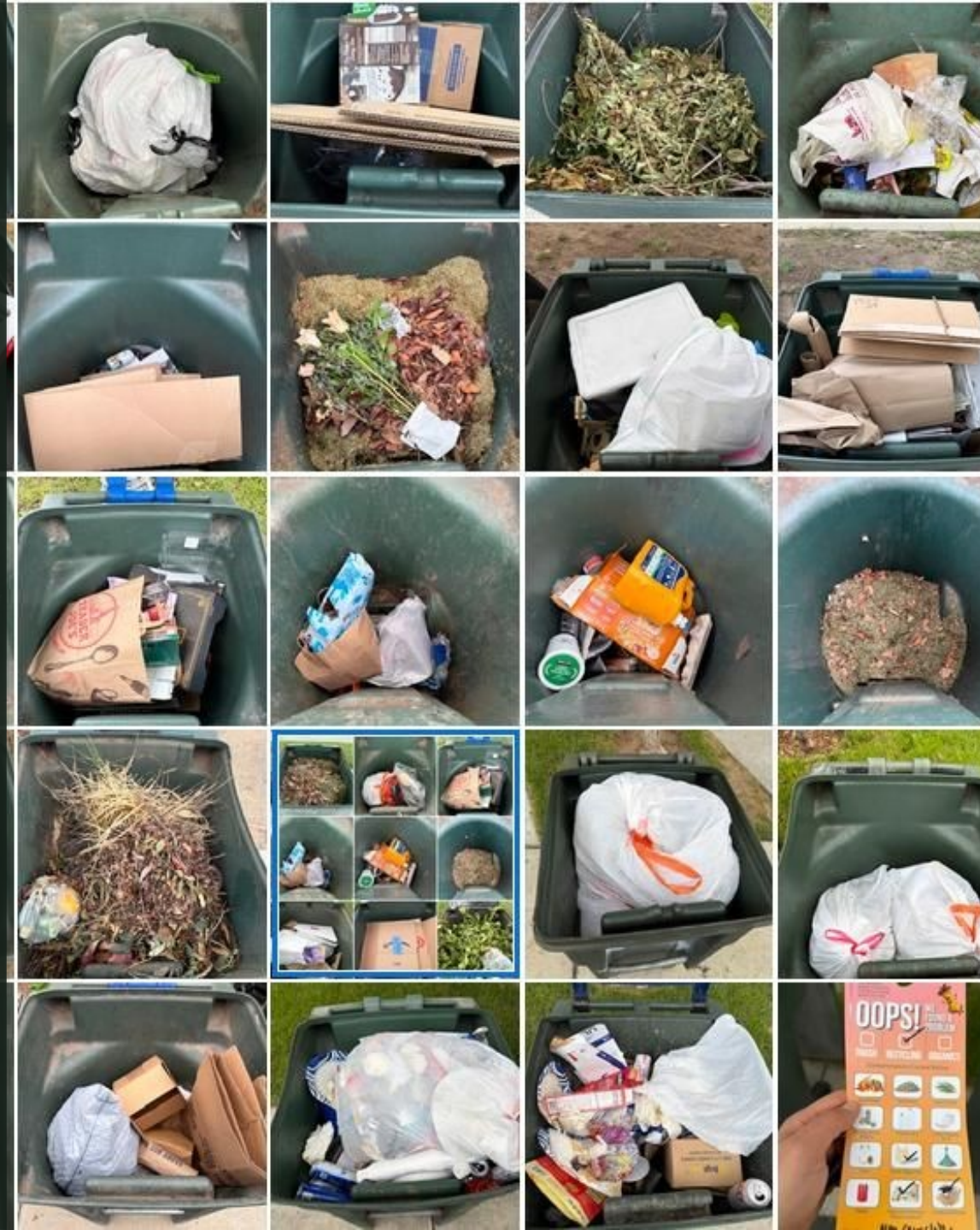


In one weekend, a spreadsheet became a field app

26,853 City accounts to sample, 1,587 reviews to hit, 13 field days to do it

Before: typed route lists from the City (blurred)

1. **Geocoded every address**
   All 26,853 accounts placed on the map
2. **Auto-built daily routes**
   Pick lists by route and pickup day
3. **Live progress counters**
   Crews see actual vs. target per route
4. **Linked map and table views**
   Tap a pin or a row, same record
5. **Mobile app and web dashboard**
   Field phones and office browser
6. **Writes to the master table**
   Every review lands in one Sheet
7. **Photo of every cart**
   Saved by stream to the project folder
8. **Automatic client updates**
   The City gets progress by email
9. **Rerouted 907 unrouted accounts**
   Assigned by nearest neighbor
10. **Report-ready from day one**
    Charts come straight from the data

Every account is a pin, and every pin holds its review

Blue pins are still to do; green pins are reviewed

Live map in the field

Route 7 | Tuesday — Reviewed

Address

MSW — Set out | 32 gal | 25% full
Good Job

RCY — Set out | 100 gal | full
Oops Plastic bags & film

ORG — Set out | 100 gal | full
Good Job

Photos 3 saved, one per cart
Contact None
Reviewed Sep 22, 9:08 AM

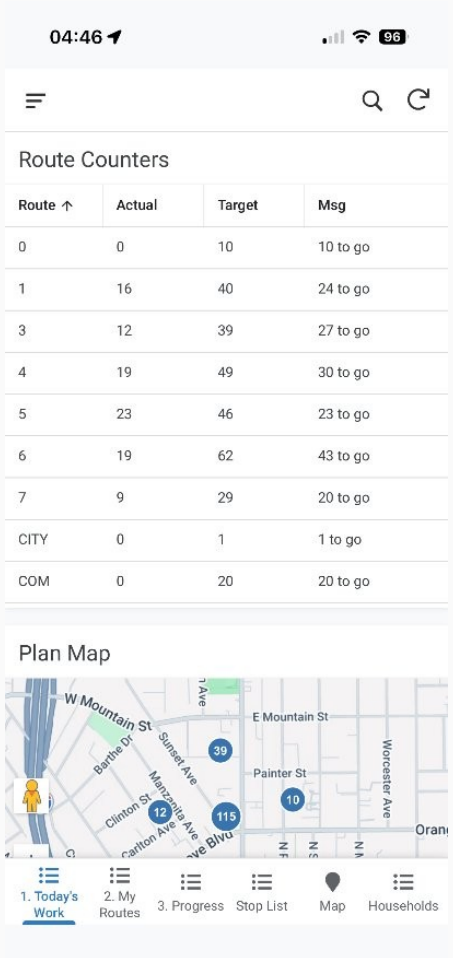
Sample pin, expanded (address hidden)

What crews capture

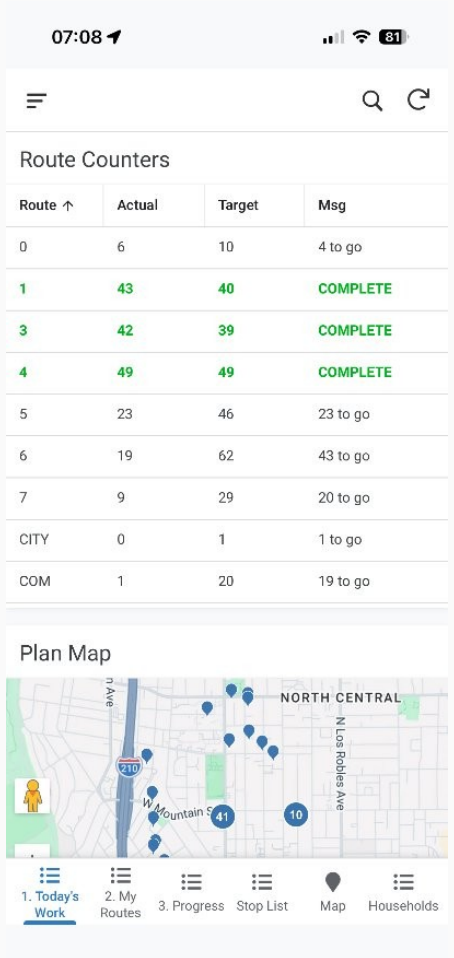
- Set-out, cart size and fullness for trash, recycling and organics
- Good Job or Oops tag, with the contaminants found
- A photo of every cart, filed by stream
- Customer contact, crew member and time stamp
- Status that recolors the pin the moment it is saved

Routes turned green as crews hit their targets

Targets were split by route and pickup day; counters update with every review



Start of day: targets to go



Later: routes flip to COMPLETE

An Oops tag left on the cart

What the app did

- Built each day's stop list by route, with a set stop order
- Showed actual vs. target for every route
- Flagged a route COMPLETE once it hit target
- Let crews over-review on purpose, so targets were never missed

The app's data became the City's final report

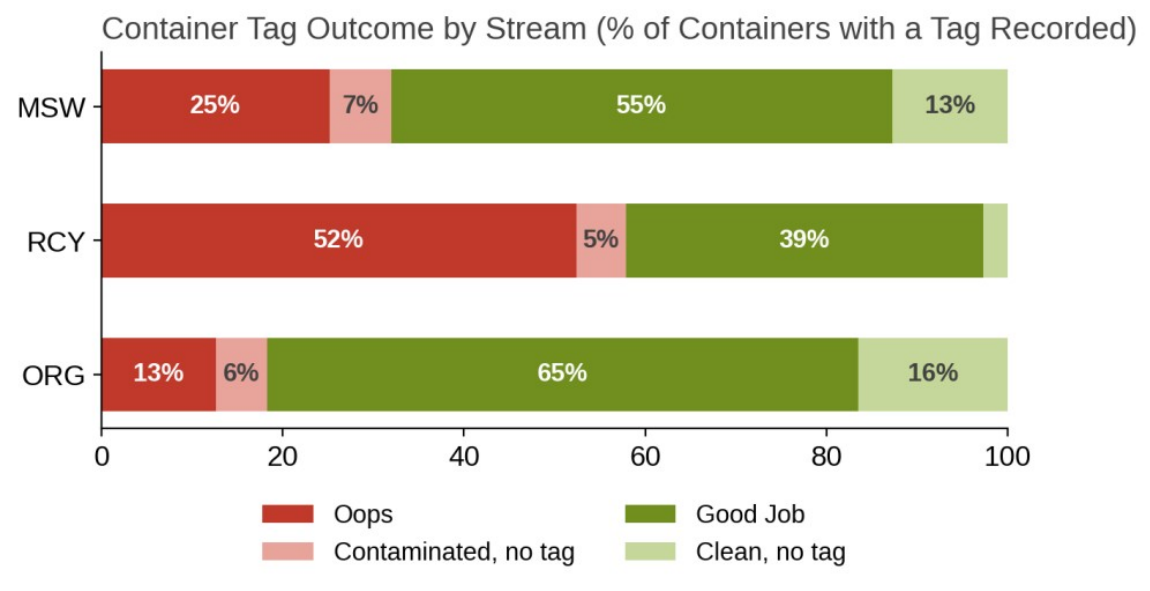
Reviews ran September 22 to October 8, 2026; every chart came from the master table

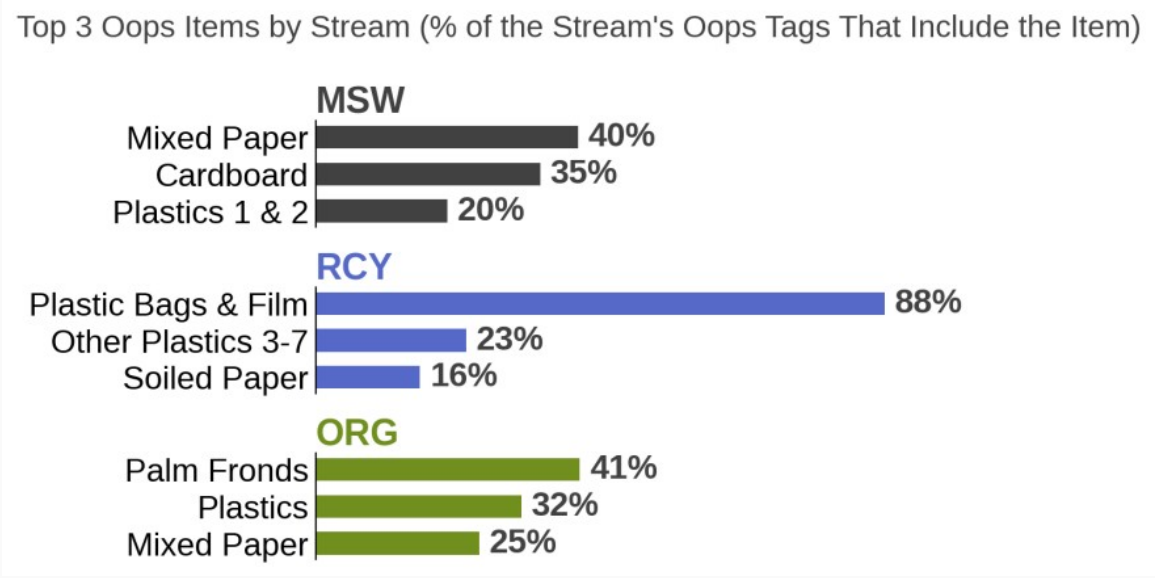
1,855
carts reviewed, 116% of target

1,220
Oops tags left on carts

58%
of recycling carts contaminated (trash: 32%)

88%
of recycling Oops tags cite plastic bags and film





Source: Pasadena SB 1383 Route Reviews, Final Report, Zero Waste Pro, October 2026.

Faster reviews for us, more insight for the client

For Zero Waste Pro	For the client
Cost proposals and final reports generated quickly	Higher level of transparency
Project planning, scheduling and progress automated	Real-time results (coming soon)
QA/QC automated	Reporting and recommendations that go beyond contractual and legal requirements
Conditional logic guides each review	
Higher profit margins per project	

ZERO WASTE PRO

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Let's talk

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Built with Google Sheets, AppSheet and Claude