



# Refuse Rate Public Workshop

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SAN FRANCISCO

PUBLIC

WORKS



# Refuse Rate Goals

- **Continued Funding for ongoing programs**
  - Outreach and Enforcement (OnE) Team
  - Litter Patrol
  - Trash can cleaning
  - Bulky item pickup (residential)
  - Abandoned materials (sidewalk & streets)
  - Proactive illegal dumping operation (Bayview)
- **Procurement of new Trashcans and sensors**
  - Use of fund balance and prior-year savings
- **Funding for Trash Can Manager**
  - 1824 – Trash Can Manager position
- **Clarify Roles & Memorialize Expectations**
  - Litter and illegal dumping removal within 5-foot area around trash cans
  - Clarify self haul language of refuse
  - Frequency of trash can service
  - Improve tracking and monitoring of performance
  - Trash can maintenance and repairs



# Refuse Rate Funding for Public Works – Detailed Budget

Fund	14000						
Dept ID	207956						
Project	10034422						
Authority	20680						
				<b>Change Type</b>			
			<b>Account</b>				
<b>Activity</b>	<b>Activity Title</b>	<b>Account</b>	<b>Lvl 5 Title</b>	<b>One-Time</b>	<b>On-Going</b>	<b>Grand Total</b>	<b>Notes</b>
0001	PW Operating	506070	5060ProgPr	(11,900,000)	6,720,284	(5,179,716)	SES Litter and OnE Team. The reduction of \$11.9M is prior year savings moving to M&S.
		527000	5210NPSvcs	-	-	-	
		538000	5380CityGP	-	-	-	
		540000	5400Mat&Su	-	-	-	
0023	PW SWIA - Rate App Analysis	506070	5060ProgPr		167,953	167,953	PW SWIA Analyst
0024	PW SWIA - Refuse Can Cleaning	538000	5380CityGP		1,679,528	1,679,528	Grants - Can Cleaning
0025	PW SWIA - Refuse Can Replacemt	506070	5060ProgPr		94,054	94,054	SES Can Replacement (baseline labor
		540000	5400Mat&Su	15,000,000	846,482	15,846,482	New Cans
<b>Expenditure Total</b>				<b>3,100,000</b>	<b>9,508,301</b>	<b>12,608,301</b>	
0001	PW Operating	460148	4600C4Svcs	-	9,508,301	9,508,301	Baseline
		499999	49990BegFB	3,100,000		3,100,000	Use of Fund Balance
<b>Revenue Total</b>				<b>3,100,000</b>	<b>9,508,301</b>	<b>12,608,301</b>	

\* Not showing the funding for the new 1824 Trash Can Manager position



# Refuse Rate Funding for Public Works – Labor (\$6.7M)

- **Outreach and Enforcement (OnE) Team**

- 10.0 FTE
- Started in 2013
- The team is responsible for
  - educating merchants, property owners and residents of their rights and responsibilities regarding street and sidewalk cleanliness and enforcing City codes to ensure sanitation standards are met.

- **Additional Cleaning Staff**

- 16.0 FTE
- 7514 General Laborers and 7355 Truck Drivers
- Responsible for litter patrol and block cleaners

- **Labor Costs for Trash Can Replacement Work**

- Funding for Public Works labor associated with replacement of trash cans





# Refuse Rate Funding for Public Works – Non-Labor (\$2.8M)

- **Trash Can Steam Cleaning**

- Started in 2017 rate process
- \$1.7M in funding for routine cleaning trash cans citywide
- Provided by Community Youth Center of San Francisco (CYC)
- Services include:
  - Pressure washing of trash cans and surrounding area
  - Litter reduction sidewalk sweeping of areas surrounding trash cans
  - Notifying Public Works of graffiti and malfunctioning and damaged trash cans

- **Trashcan Maintenance**

- 3,300 trash cans Citywide
- \$940K in funding for maintenance of existing trash cans
- Funding to begin process of replacing existing trash cans

- **Refuse Rate Analytical Support Services**

- \$168k for analytical support of refuse rates



# Refuse Rate Funding for Public Works – New Requests

- **FY 2023-24 Public Works Proposed Budget**
  - New 1824 Principal Administrative Analyst Position
    - \$170K
    - New funding request to be included in October 2023 refuse rate process
    - Trash can administrator position to monitor and ensure cleaning, tracking, pickup and monitoring of all 3,300 trash cans citywide
    - Monitor installation and damage of trash cans
  - New trash can redesign needed to address
    - Durability issues (locks and hinges)
    - Degrading material of existing cans
    - Rummaging problems
  - Expand use of trash can sensors
    - Amount TBD, included in new trash can budget
    - No new funding request to be included in upcoming rate process



# Refuse Rate Funding for Public Works – Trash Cans

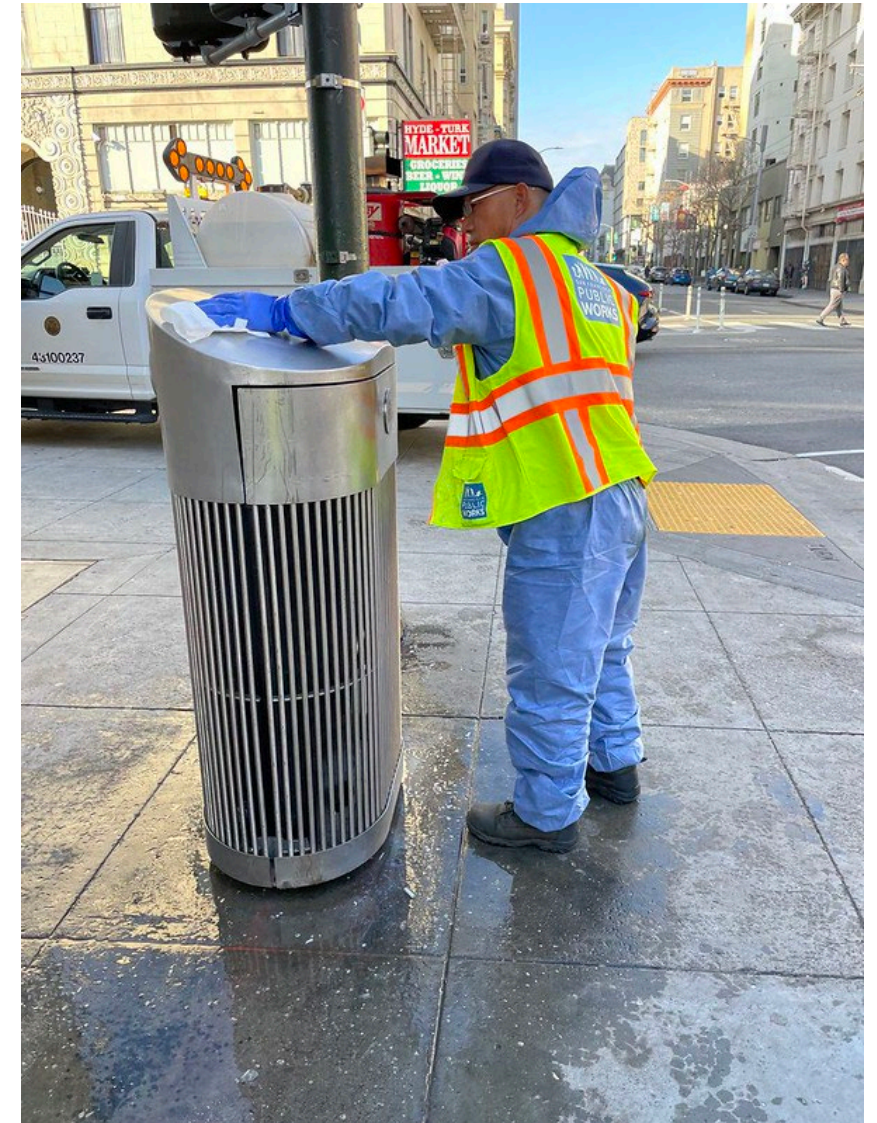
- **Trash Can Pilot**
  - Performance criteria
    - Rummage-resistant and tamper-proof
    - Easy to service and maintain
    - Sensor-ready
    - Accommodates 32-gallon rolling liner
    - Durable
  - 52 locations for trash can pilot
  - Two-month outreach strategy
    - 1,027 responses
    - 66K responses on social media
  - Stakeholder feedback
    - Recology
    - Public Works
    - Community Benefit Districts
- **Model that Met the Most Selection Criteria**
  - Slim Silhouette





# Refuse Rate Funding for Public Works – Trash Cans

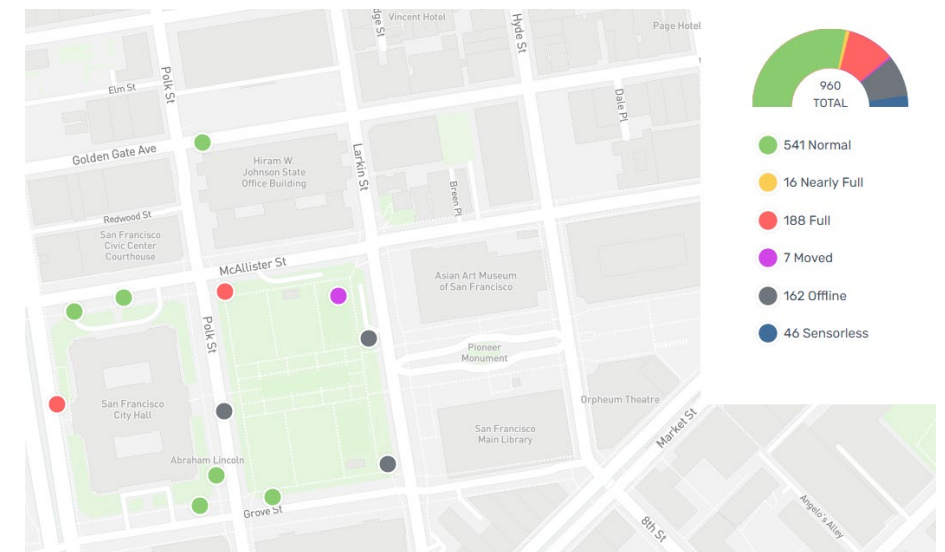
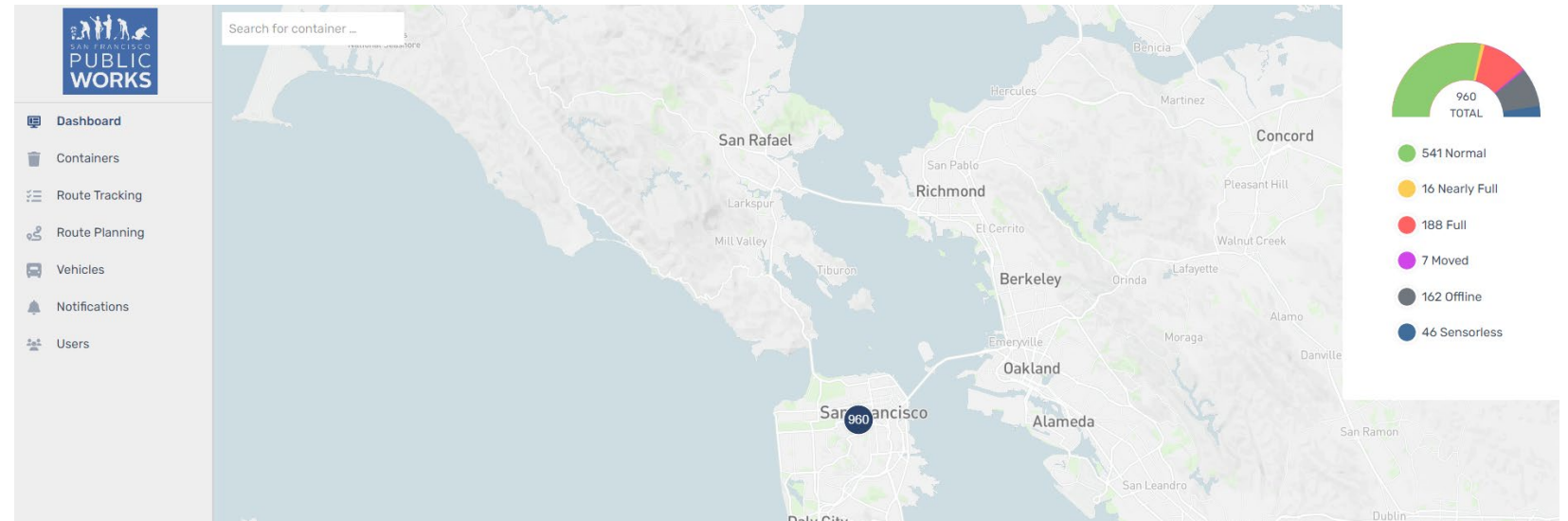
- **Funding - \$15M**
  - No additional impact on future rates
    - Use of fund balance (\$3.1M)
    - Use of prior-year savings (\$11.9M)
- **Next Steps**
  - Issue RFP
    - RFP will contain detailed design specifications
    - Manufacturer will do shop drawings
    - Manufacturer most likely will need to build prototypes and have an iterative design process related to fabrication methods
  - Seek Approvals
    - Board of Supervisors (Contract over \$10M)
    - Civic Design Review
    - Planning (Historic Preservation)
  - Outline next steps
    - SAS Commission
    - Public hearing





# Refuse Rate Funding for Public Works – Trash Can Sensors

- Public Works has implemented 960 trash can sensors throughout the City in major commercial corridors.
- Sensors monitor bin fullness, temperature and fill rates to identify fill rates and identify rubbish-generation patterns
- Goal is to mitigate container overflow, reduce number of collections, optimize operations and improve efficiency.
- Evaluating efficacy

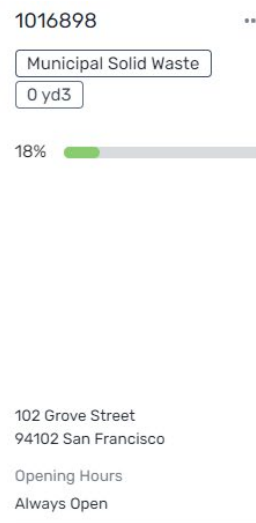
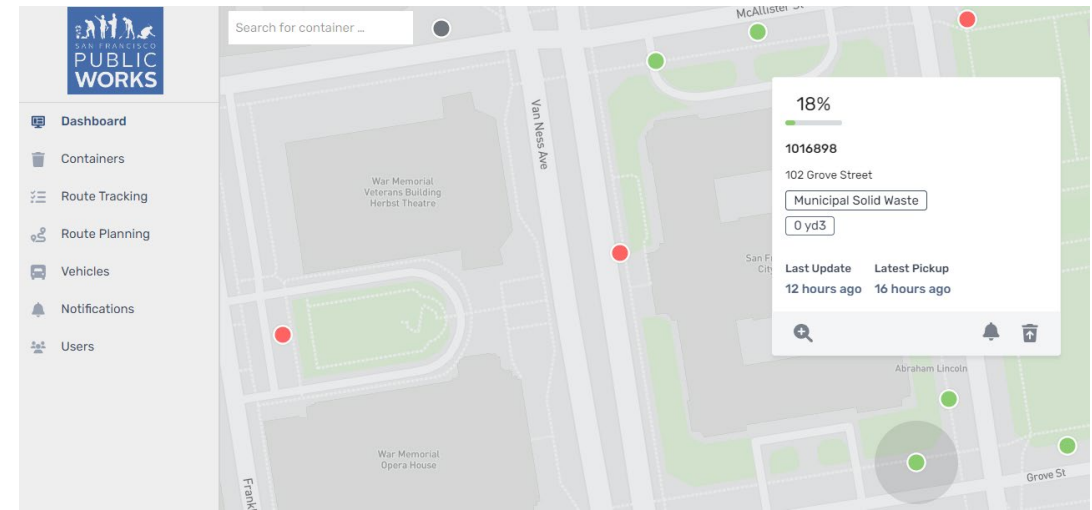


City overview and snapshot of trashcans near City Hall

Source: Nordsense Public Works website

# Refuse Rate Funding for Public Works – Trash Can Sensors

- Data tracking and analysis of trash can pickup
- Provides data for specific Trashcan
  - Example – 102 Grove Street
- Sensors will send a 311 request to Recology indicating that a can needs to be emptied





# Refuse Rate Funding for Public Works – Trash Can Sensors

- Auto-generated 311 requests are tracked in PowerBI to track and monitor response times.
- Evaluating efficacy now but will likely expand to all trash cans
- Trend analysis
- Sample data for 102 Grove St trashcan

Power BI 311-BIWorkspace Nordsense Sensor Can Data - Prod

File Export Share Get insights Subscribe

### Nordsense Sensor Can Real-time Data

Open Date: 9/9/2022 to 2/27/2023

Case ID	Open Date	Closed Date	Status	Address	Description	Latitude	Longitude
16294146	1/13/2023 1:46:59 AM	1/18/2023 9:24:37 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16298105	1/13/2023 10:17:14 PM	1/18/2023 9:28:42 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16323059	1/20/2023 1:47:30 AM	1/20/2023 7:12:47 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16328955	1/21/2023 12:34:48 PM	1/23/2023 8:54:51 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16335861	1/23/2023 10:17:40 AM	1/24/2023 11:13:55 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16359746	1/28/2023 10:32:49 AM	1/30/2023 8:10:30 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16380215	2/2/2023 11:18:13 AM	2/3/2023 5:23:34 PM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16390033	2/5/2023 1:17:17 AM	2/7/2023 1:56:00 PM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: Sensor Repair - Dirty lens	37.77853291	-122.41831941
16406863	2/8/2023 4:48:35 PM	2/9/2023 12:07:48 PM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16419176	2/11/2023 8:18:56 PM	2/15/2023 5:47:06 PM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16439817	2/17/2023 7:19:21 AM	2/17/2023 2:54:53 PM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16455268	2/21/2023 11:49:11 AM	2/21/2023 4:35:52 PM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16474359	2/25/2023 2:04:31 PM	2/27/2023 8:55:26 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941
16475551	2/26/2023 1:03:23 AM	2/27/2023 8:57:16 AM	Closed	102 GROVE ST, SAN FRANCISCO, CA, 94102	1016898: City Garbage Can Overflowing	37.77853291	-122.41831941

Source: PowerBI of 311 Service Orders of Recology response to Nordsense sensor generated requests

# Questions?

