



Case Study – Southeastern Public Service Authority (SPSA)

2026 Rethink Resource Use Conference

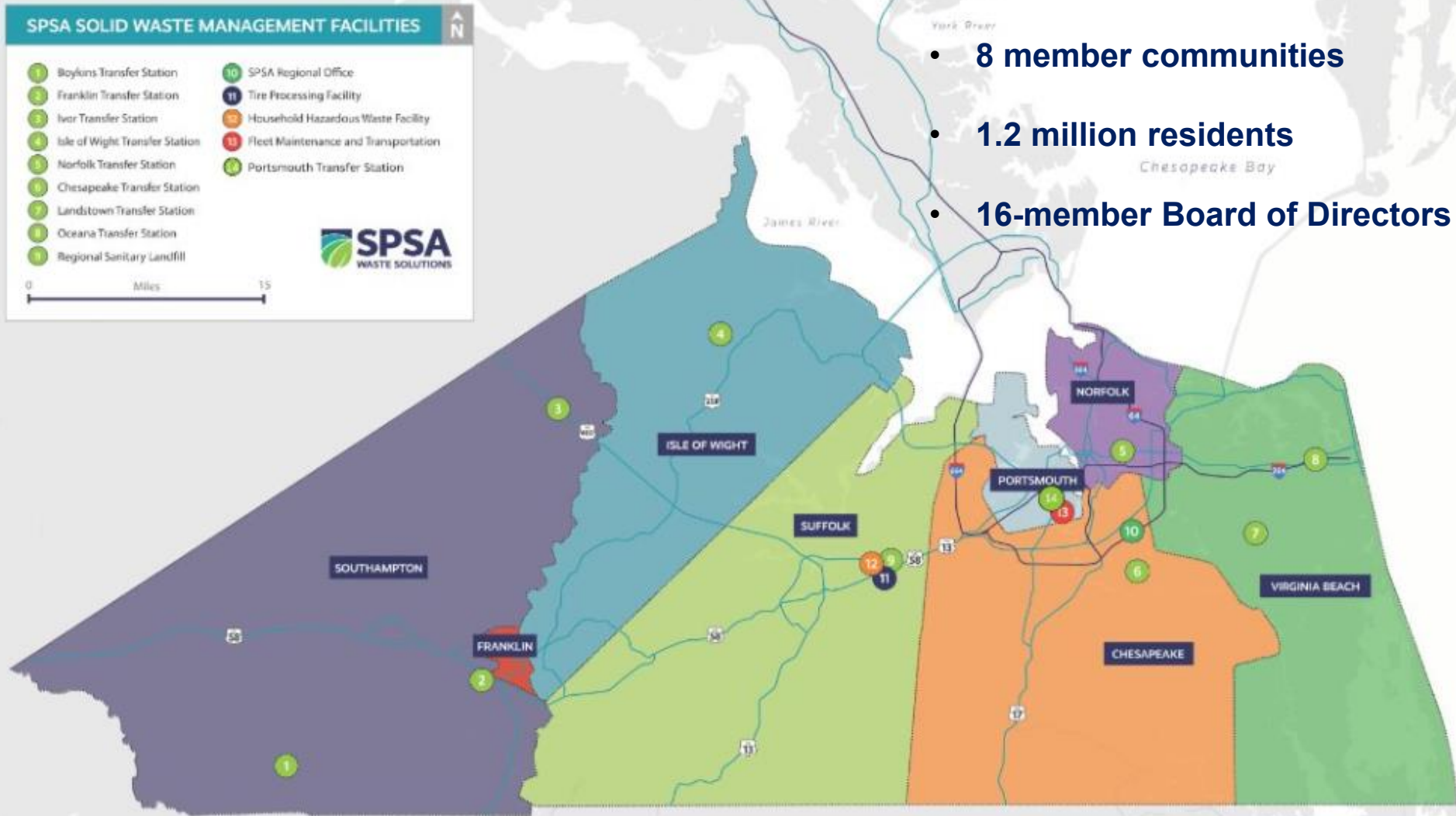
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SPSA SOLID WASTE MANAGEMENT FACILITIES

- 1 Boykins Transfer Station
- 2 Franklin Transfer Station
- 3 Iver Transfer Station
- 4 Isle of Wight Transfer Station
- 5 Norfolk Transfer Station
- 6 Chesapeake Transfer Station
- 7 Landstown Transfer Station
- 8 Oceana Transfer Station
- 9 Regional Sanitary Landfill
- 10 SPSA Regional Office
- 11 Tire Processing Facility
- 12 Household Hazardous Waste Facility
- 13 Fleet Maintenance and Transportation
- 14 Portsmouth Transfer Station



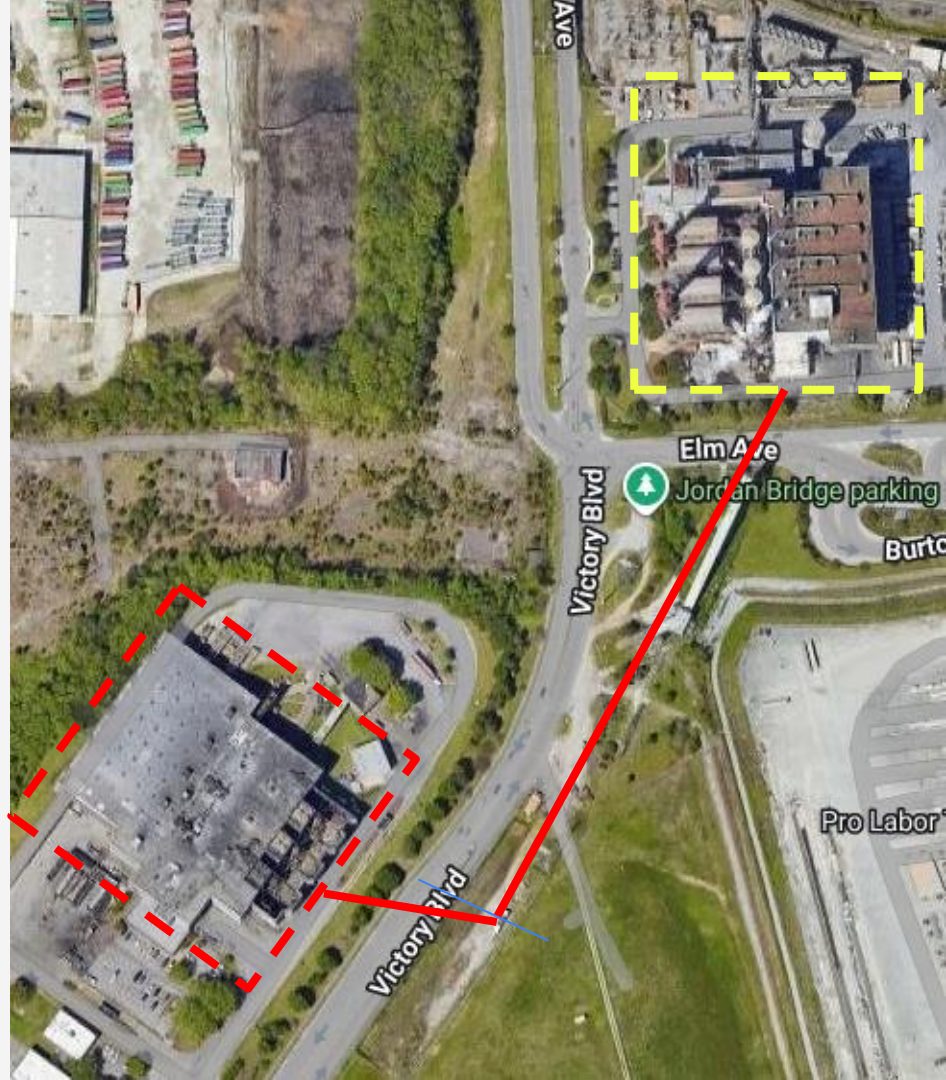
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- 8 member communities
- 1.2 million residents
- 16-member Board of Directors

Refuse Derived Fuel (RDF) / Waste to Energy (WTE)

- Opened in 1987
- Processed up to 2,000 TPD or ~500k tons/yr
- Steam sold to the US Navy & 60 MW to the grid
- RDF – 4 acre tipping floor with shredders, trommels, and pickers. Waste conveyed a quarter mile to the WTE.
- Sold to Wheelabrator (WIN) in 2010. Contracts extended to 2018 / 2027
- Series of small fires and a major fire in 2022
- 2021 - US Navy advised building a new plant with natural gas.
- **WIN closed WTE June 2024**



- 833 acres / 188 acres permitted
- Since 2015, accepts ~300,000 tons per year or 350,000 cubic yards per year
- Cells I- IV closed
- Active Cells V – VI
- VII, approved in 2011, extends life to 2042
- Application for VIII, IX extends life to 2060, but had to give up cells X, XI, and XII.



PROBLEM:

WTE plant closure will drastically reduce the life of the landfill

- Beginning on July 1, 2024, volumes would increase to **450,000 TPY** at a density of 1,400 lbs/CY
- Increased volumes since WTE fire already reduced life

Estimated Life of LF at 450,000 TPY

Landfill Cell	Estimated Life
Cells V / VI	0.7 years
Cells VII	12 years
Cells VIII / IX	19.2 years
TOTAL (As of Dec 2025)	31.9 years

SOLUTION:

Alternative Waste Disposal (AWD)

- **RFP – 2014**, in anticipation of the WIN contract expiring 2018
- Evaluation of three submittals

01 / Mixed Waste Processor

Requires \$100m investment. Extracts recyclables and converts residual into solid fuel pellets sold as fuel to a coal plant

02 / Wheelabrator

Proposed a contract renewal. Formally protested the mixed waste proposal

03 / Major Landfill

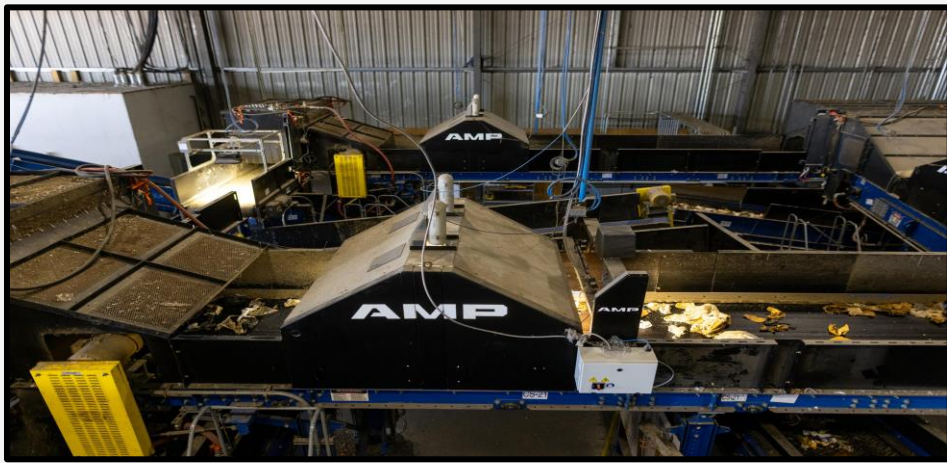
Offered diversion from the SPSA landfill to their landfill.

2024 RFP Results

- Proposals: 6 submittals received, with 4 deemed non-responsive
- Vendor Selected: Commonwealth Robotics LLC (AMP)
- Timeline: Awarded in November 2025

"It's not like any other plant I've ever been in. Their processes were far better than any other process that we looked at."

DENNIS BAGLEY
Executive Director, SPSA



Project Details

- An initial AMP-owned pilot facility was upgraded in 75 days and processes 25 tons per hour or 108,000 tpy
- 450,000 tpy sorting system / organics solution being built in former RDF WTE building (2029)
- A unique biochar solution sequesters carbon from organic material.

Estimated Life of LF at **225,000** TPY

Landfill Cell	Estimated Life
Cells V / VI	0.7 years
Cells VII	22 years
Cells VIII / IX	38.4 years
TOTAL (As of Dec 2025)	61.1 years

20

year contract

540,000

tons processed
annually

7%→20%

Recycling rate

50%

guaranteed
diversion

Alternate Waste Disposal Benefits for SPSA

- Extend life of the landfill by decades
- Scalable model that grows with the region
- Decarbonization of solid waste infrastructure
- Move up the solid waste management hierarchy
- Long term agreement provides economic stability
- Flexibility to manage future, unknown, waste stream characterization changes
- Ongoing contractual performance metrics while outsourcing operations
- Provides real time data for program benchmarking
- All 1.2 million residents are recyclers

AMP™

THANK YOU.

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