City of Dallas

Dallas Local Solid Waste Management Plan Update

Environment and Sustainability Committee
June 6, 2022

Jay Council
Director of Sanitation Services

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Agenda

Introduction

Background about LSWMP Update

Updates Since Last Briefing

Strategic approach for developing the LSWMP Update

The Plan

Goals, objectives, and options going forward

Next Steps

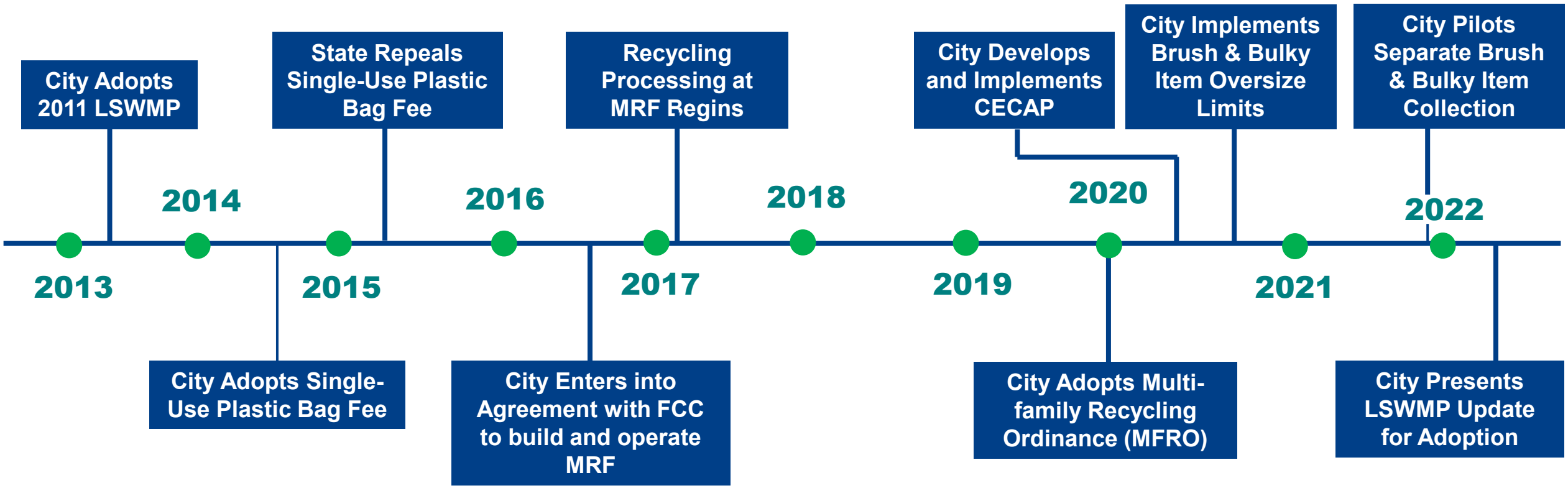
Schedule for full City Council consideration and adoption

Background

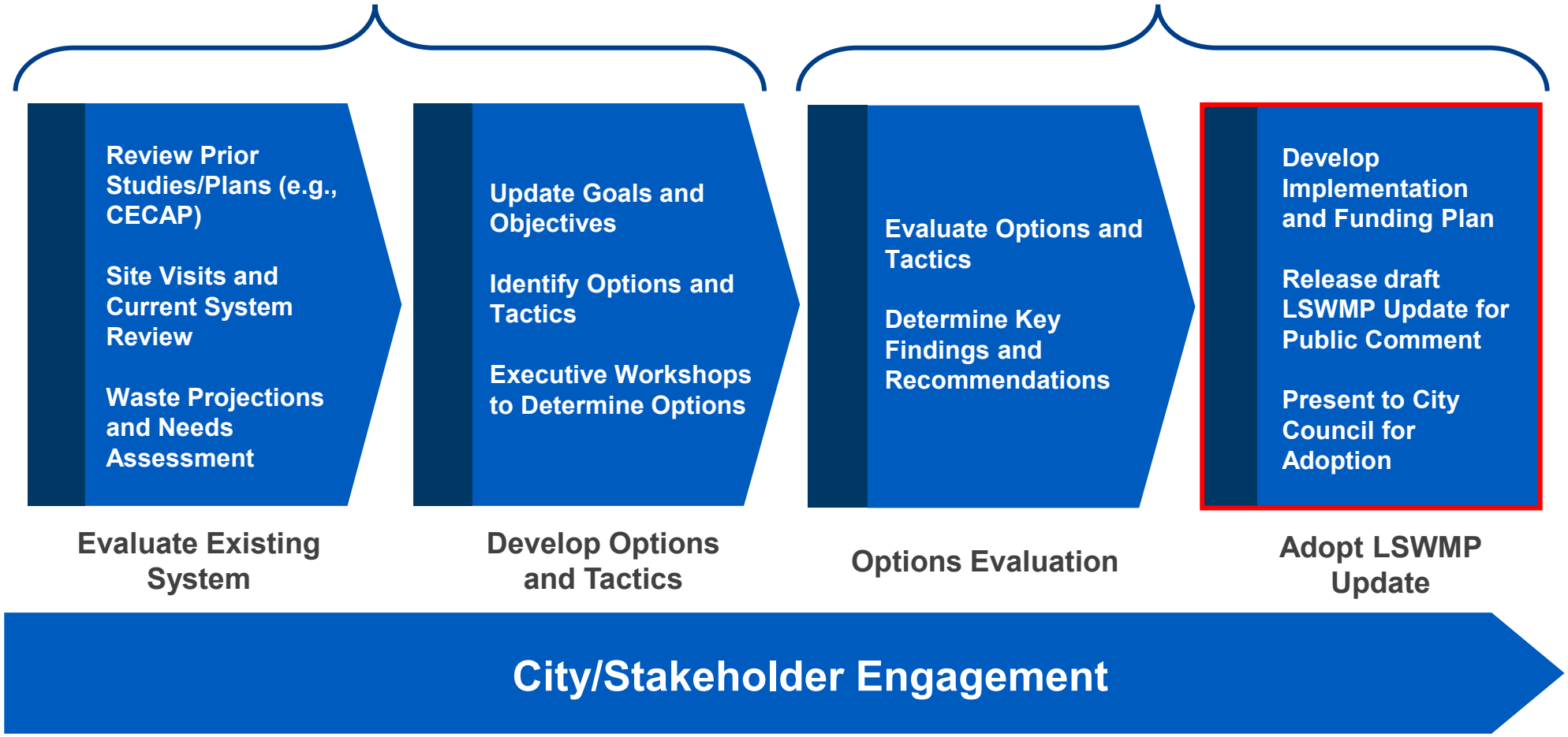
WHY DO WE NEED A LOCAL SOLID WASTE PLAN UPDATE?

- Evaluate current and future material management needs
- Update goals in alignment with CECAP
- Identify programs, policy and infrastructure required to advance goals
- Develop implementation and funding plan to sustainably fund programs and implement supporting policy

Background


City Adopts 2011 LSWMP
State Repeals Single-Use Plastic Bag Fee
Recycling Processing at MRF Regins
City Develops and Implements CECAP
City Implements Brush & Bulky Item Oversize Limits
City Pilots Separate Brush & Bulky Item Collection
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
City Adopts Single-Use Plastic Bag Fee
City Enters into Agreement with FCC to build and operate MRF
City Adopts Multi-family Recycling Ordinance (MFRO)
City Presents LSWMP Update for Adoption

Update Process



Public & Stakeholder Engagement

Surveys. 5,500+ survey responses from single-family residents, multi-family tenants and property managers and commercial entities between two survey efforts.

Stakeholder Interviews. Interviewed 10+ internal and external stakeholder groups such as Dallas Regional Chamber Texas Restaurant Association (Greater Dallas Chapter), Texas Campaign for the Environment, multiple neighborhood groups and homeowner associations and various City departments such as Dallas Water Utility (DWU), Code Compliance, Economic Development and others.

FAQ & Educational Video. Developed FAQ and an educational 'whiteboard' video to communicate the progress of the LSWMP Update.

Presentation to City Leadership. Presented updates to the City Council Environment and Sustainability Commission and City Council Environment and Sustainability Subcommittee.

Public Comment Period. Published the draft LSWMP Update for a 30-day period.

5500+ SURVEY RESPONSES

10+ STAKEHOLDER INTERVIEWS

4 INTERIM UPDATES

30 DAY PUBLIC COMMENT PERIOD

Since Our Last Update

- Public Meeting held on March 31
- Draft LSWMP Update published for public comment period
- Finalized LSWMP Update submitted for adoption

Updated Objectives

1. Empower residents and businesses to reduce the amount of discarded material generated through proactive education and outreach.
2. Establish and implement innovative operational best practices to provide efficient, cost effective, and environmentally responsible service.
3. Provide excellent customer service and support residents and businesses to maximize diversion from landfill.
4. Operate a clean, green and efficient waste system that seeks to generate energy from organics.

Approach to updating objectives:

- Recall core ideas from the 2011 LSWMP objectives
- Maintain progress toward the City's long-term Zero Waste goal
- Re-package to emphasize near-term goals
- More closely align with goals adopted by CECAP
- Incorporate data collected during stakeholder engagement

Updating Near- and Long-term Goals

SINGLE-FAMILY

GOAL TYPE & METRICS

Recycling rate, capture rate, disposal per capita.

NEAR-TERM GOALS

35% recycling of organic waste by 2030.

60% paper waste by 2030.

35% reduction in waste landfilled by 2030.

LONG-TERM GOALS

80% recycling of organic waste by 2050.

90% paper waste by 2050.

45% reduction in waste landfilled by 2040.

MULTI-FAMILY

GOAL TYPE & METRICS

Program participation; reporting compliance

NEAR-TERM GOALS

90% reporting compliance and verification of entities covered under the MFRO for three consecutive years.

LONG-TERM GOALS

Analyze data to establish goals consistent with future program in place.

COMMERCIAL

GOAL TYPE & METRICS

Program participation; reporting compliance

NEAR-TERM GOALS

Expand Green Business Certification year-over-year.

90% reporting compliance and verification from non-exclusive franchise haulers for 3 consecutive years.

LONG-TERM GOALS

Analyze data to establish goals consistent with future program in place.

Single-Family Services Overview

Roll Cart Collection

- Roll cart garbage and recycling collected once per week.
- Automated and semi-automated trucks used to collect roll cart.
- Opportunity to re-route collection fleet to reduce alley collection.

Brush & Bulky Item Collection

- Commingled brush & bulky items collected once per month via grapple trucks.
- 3-month pilot separate brush and bulky item collection completed in December 2021.
- Opportunity to collect and process yard trimmings and brush separately.

Household Hazardous Waste and Electronics Collection

- Household Chemical Collection (HCC) open twice per week operated by Dallas County.
- Battery, Oil, Paint and Antifreeze (BOPA) collection events held by City.
- Inconvenient location and challenges communicating program offering to residents.

Single-Family Sector Next Steps

The City has **direct control** over material and can increase recycling via existing services

1

Increase capture rate from blue roll-cart program

Focus current and future resources to increased education, outreach and compliance efforts.

Track roll-cart capture rate performance on a year-over-year basis.

2

Separate collection and processing of yard trimmings and brush

Focus current and future resources (e.g., vehicles, staff) to separately collect yard trimmings and brush from bulky items.

Upgrade transfer station system to manage yard trimmings and brush separately.

Develop composting facility through public private partnership.

3

Establish more convenient HHW and electronics collection

Renew interlocal agreement with Dallas County on short-term basis.

Work with County to develop permanent or satellite facility in southern areas of City.

Evaluate feasibility to expand capabilities of BOPA collection program.

Multi-Family Sector Overview

MFRO adopted in 2019

- Reporting and recycling requirements from haulers and apartment complex managers rather than tenants
- Covers multi-family complexes with eight or more units

Initial reporting provided to the City in 2020

- 20 permitted multi-tenant recycling haulers, 60 percent of them combine multi-family and commercial recycling on collection routes
- Haulers reported a total of 10,600 recycling tons collected
- Estimated 7,000 tons from multi-tenant properties only
- Multi-family recycling is hauled to one of 16 facilities spread throughout the City and surrounding areas

Multi-Family Sector Next Steps

The MFRO is an **innovative** policy tool and an excellent platform to build on going forward

1

Increase MFRO compliance from covered entities year-over-year

Continue to implement and increase the compliance from generators and haulers as part of the MFRO.

Monitor new developments that come online and continuing to support affected entities with education and outreach.

2

Adjust reporting requirements to include more comprehensive tonnage reports

Require the submission of more comprehensive data to include refuse, recycling and other divertible tonnages currently collected and the location they are processed and disposed.

3

Sustain education, outreach and compliance efforts

Continue implementation efforts and support haulers and apartment managers to increase compliance year-over-year to meet multi-family sector goals.

Commercial Sector Overview

The commercial sector consists of a variety of properties, facilities and business operations.

- Represents 70 percent of material disposed at Landfill and significant diversion potential
- Unable to gauge how much recycling activity is taking place

Garbage and recycling collected by non-exclusive franchise haulers (currently 109 active haulers)

- Haulers submit a Solid Waste Operator Franchisee Monthly Report on a monthly basis
- Data required does not provide a complete picture of material flows

City recently established Green Business Certification program

- Assists and recognizes entities that incorporate recycling or promote reuse, reduction, and composting in their business operations

Commercial Sector Next Steps

Commercial sector presents the **biggest** opportunity to reach Zero Waste Goals

1

Expand Green Business Certification Program

Increase the number of certified businesses.

Leverage cross-departmental efforts to provide technical assistance.

2

Adjust Solid Waste Operator reporting requirements

Require submission of more comprehensive and verifiable data.

Include refuse, recycling and other recyclable tonnages currently collected and the location with they are processed and disposed.

3

Adjust non-exclusive franchise ordinance to require haulers offer key services

In the future, require haulers offer recycling services to customers.

Establish compliance mechanisms to ensure that this maintains a level playing field among franchise haulers.

Infrastructure Overview

Transfer Stations

- Material consolidated for more efficient transportation
- Critical part of current and future materials management.
- Aging and unable to manage brush separately for recycling.

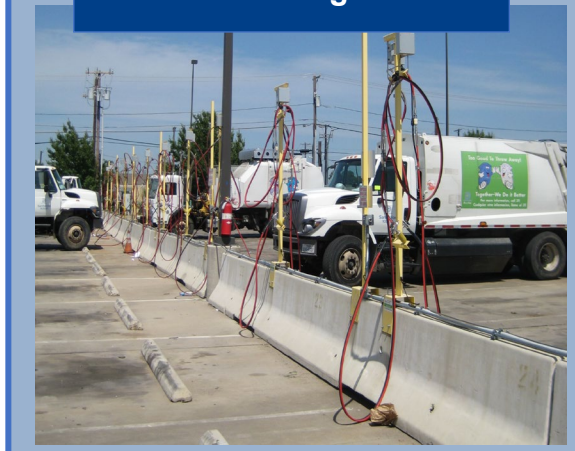
Landfill

- McCommas Bluff Landfill serves the City's long-term disposal needs.
- Conserve valuable airspace by continuing efforts to prolong site life.
- Landfill must meet long-term disposal needs of City and region.

Recycling

- Developed by public-private partnership
- Began operation in 2017
- Facility has sufficient capacity for current and future recycling processing needs

Fueling



- Fueling stations fill the City's fleet.
- Limited fueling infrastructure for Compressed Natural Gas (CNG) or electric collection vehicles.

Infrastructure Options

Infrastructure improvements are **critical** to achieving near-term and long-term goals.

1

Upgrade transfer station system

Upgrade transfer stations to separately manage organics.

Minimize number of residents or self-haul customers in transfer buildings.

Synchronize scale systems to streamline data analysis.

2

Develop composting facility as part of public-private partnership

The City does not have adequate composting infrastructure to process separately collected yard trimmings and brush.

Develop a composting facility through public-private partnership, similar to the process for installing the recycling facility.

3

Increase CNG/RNG and electric vehicle fueling capacity

Explore purchase of additional CNG vehicles.

Install additional natural gas fueling stations.

Explore electric solid waste collection vehicle pilot project.

The road ahead…

Continued development of Zero Waste infrastructure and programs

- Upgrade transfer station system and conduct landfill master-planning effort
- Procure public-private partnership for organics processing facility
- Renew interlocal agreement with Dallas County HCCC
- Increase covered entities achieving compliance with MFRO

Near-term focus on single-family sector to achieve 2030 CECAP goals

- Increase education, outreach and compliance efforts for roll-cart program to increase capture rate
- Implement separate brush and bulky item collection to divert organics
- Implement mandatory programs in the long term to continue progress toward Zero Waste

Long-term focus on commercial sector to achieve Zero Waste goal

- Adjust existing reporting requirements on non-exclusive franchise holders
- Establish commercial hauler recycling requirements
- Position the City for development of an exclusive or zoned franchise system

Next Steps

- Staff request ENVS Committee vote to advance LSWMP Update for full City Council consideration
- Final public comment opportunity prior to full City Council consideration
- Finalize document for adoption
- Full City Council consideration tentatively scheduled for June 22, 2022