



City of Sunnyvale

Agenda Item

23-0109

Agenda Date: 2/16/2023

2023 COUNCIL STUDY ISSUE

NUMBER

ESD 22-02

TITLE Promotion and Assessment of Sustainable Landscaping Strategies

BACKGROUND

Lead Department: Environmental Services Department
Support Departments: Office of the City Manager
Public Works Department
Office of the City Attorney
Sponsor(s): Sustainability Commission
History: 1 year ago: Ranked, Below the Line
2 years ago: N/A

SCOPE OF THE STUDY

What precipitated this Study?

Current landscaping practices rely on technologies (e.g., motorized equipment such as leaf blowers) that may have adverse health, air and water quality impacts. The Sustainability Commission sponsored this Study Issue to encourage the use of more holistic landscaping practices, in order to eliminate the need for landscape equipment altogether.

This Study is relevant to the following City Policies:

- Climate Action Playbook Play 4.2: Ensure resilience of water supply; and
- General Plan, Chapter 7 Environmental Management, Goals EM-2: Water Conservation; EM-8.5 Prevent Accelerated Soil Erosion; and EM-11 Improved Air Quality

What are the key elements of the Study?

This Study would examine alternatives to traditional landscaping practices that would require less reliance on motorized landscape maintenance equipment. Factors that should be considered are landscaping equipment types, frequency of landscaping maintenance or service, and landscaping coverage types.

The City may collaborate at the regional level with other agencies to best deliver the following elements of the Study:

1. A list of best practices or comparisons of landscape maintenance strategies to be identified/developed. For example, what are the impacts of using mulching as a landscape practice versus using leaf blower equipment. This should include determinations for how

frequency of service changes the impacts, which strategies require more or less staff time and resources, etc. One time and ongoing cost implications will be provided along with the comparison.

2. Provide a list of existing programs available to City residents which promote the adoption of the best practices identified in this Study.
3. Identify, evaluate next steps, and provide costs for the City to provide the following resources to promote the adoption of the best practices identified in this Study:
 - a. Incentives, such as sustainable landscaping certifications, gas-powered equipment trade-ins, price comparisons, rebates, etc.
 - b. An educational program/campaign to educate target audiences of the benefits of switching to the more sustainable strategies. This should include costs or savings, ecological impacts, pollution prevention benefits, etc. Target audience would include single family residential, multifamily dwellings, property owners, and landscape service providers.
4. Evaluate the existing Park Design Guidelines and Standard Details for revision to meet best practices identified in this Study.

Estimated years to complete study: 1 year

FISCAL IMPACT

Cost to Conduct Study

Level of staff effort required (opportunity cost):	Moderate
Funding Required for Non-Budgeted Costs:	\$100,000
Funding Source:	Will seek budget supplement

A budget supplement is requested to fund consultant support needed to conduct research on the key elements of this Study. Some resources on sustainable landscaping best practices specific to the Bay Area already exist and may be leveraged. For example, Alameda County's "Bay-friendly Landscape Guidelines," developed by the public agency StopWaste.org, recommends using landscaping practices that promote soil restoration, water conservation, energy conservation (including reduced reliance on motorized equipment), water and air quality, and less waste. Other such resources may exist.

Environmental Services Department (ESD), in collaboration with Department of Public Works (DPW) - Parks Division, will oversee the consultant's work to ensure research is conducted in a manner that would benefit and inform current operations related to landscaping. For example, DPW would guide the consultant in selecting best practices for the comparative analysis in key element No. 1, with a view to include practices that could be implemented feasibly in Sunnyvale.

Cost to Implement Study Results

Unknown. Study would include assessment of potential costs, including capital and operating, as well as revenue/savings.

Costs to implement would depend on the types of practices recommended by this Study. Costs may be significant if a majority of current landscape maintenance practices are recommended to be

changed.

EXPECTED CITY COUNCIL, BOARD OR COMMISSION PARTICIPATION

Council-Approved Work Plan: No

Council Study Session: No

Reviewed by Boards/Commissions: Sustainability Commission, Parks and Recreation Commission

STAFF RECOMMENDATION

Support. This policy issue merits discussion at the 2023 Study Issues Workshop.

The DPW, Parks Division already implements several practices that are sustainable, including integrated pest management (IPM), water conservation, and use of native species. This Study would inform how existing practices can be expanded to incorporate air quality, noise, energy conservation, and soil restoration considerations. Furthermore, identifying how to reduce reliance on motorized landscape equipment may also assist the City in transitioning its operations to comply with AB 1346 regulations, which require small off-road engines (e.g., leaf blowers) to be zero-emission by 2024.

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Reviewed by: Chip Taylor, Director, Department of Public Works

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