

BOARD of SUPERVISORS



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MEMORANDUM

BUDGET AND FINANCE SUB-COMMITTEE SAN FRANCISCO BOARD OF SUPERVISORS

TO: Supervisor Malia Cohen, Chair
Budget and Finance Sub-Committee

FROM: Linda Wong, Assistant Clerk

DATE: April 17, 2017

SUBJECT: **COMMITTEE REPORT, BOARD MEETING**
Tuesday, April 18, 2017

The following file should be presented as a **COMMITTEE REPORT** at the Board meeting on Tuesday, April 18, 2017, at 2:00 p.m. This item was acted upon at the Sub-Committee Meeting on Thursday, April 13, 2017, at 10:00 a.m., by the votes indicated.

Item No. 26 File No. 170352

Resolution authorizing the Recreation and Park Department to apply for a grant in the amount of \$245,000 from the California State Department of Forestry and Fire Protection, for State Greenhouse Gas Reduction Funding to carry out an urban forestry project.

RECOMMENDED AS A COMMITTEE REPORT

Vote: Supervisor Malia Cohen - Aye
Supervisor Norman Yee - Aye
Supervisor Katy Tang - Aye

c: Board of Supervisors
Angela Calvillo, Clerk of the Board
Jon Givner, Deputy City Attorney
Alisa Somera, Legislative Deputy Director

File No. 170352

Committee Item No. 7

Board Item No. 26

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Budget & Finance Sub-Committee

Date April 13, 2017

Board of Supervisors Meeting

Date April 18, 2017

Cmte Board

- | | | |
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| <input type="checkbox"/> | <input type="checkbox"/> | Motion |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Resolution |
| <input type="checkbox"/> | <input type="checkbox"/> | Ordinance |
| <input type="checkbox"/> | <input type="checkbox"/> | Legislative Digest |
| <input type="checkbox"/> | <input type="checkbox"/> | Budget and Legislative Analyst Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Youth Commission Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Introduction Form |
| <input type="checkbox"/> | <input type="checkbox"/> | Department/Agency Cover Letter and/or Report |
| <input type="checkbox"/> | <input type="checkbox"/> | MOU |
| <input type="checkbox"/> | <input type="checkbox"/> | Grant Information Form |
| <input type="checkbox"/> | <input type="checkbox"/> | Grant Budget |
| <input type="checkbox"/> | <input type="checkbox"/> | Subcontract Budget |
| <input type="checkbox"/> | <input type="checkbox"/> | Contract/Agreement |
| <input type="checkbox"/> | <input type="checkbox"/> | Form 126 – Ethics Commission |
| <input type="checkbox"/> | <input type="checkbox"/> | Award Letter |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Application |
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OTHER (Use back side if additional space is needed)

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Completed by: Linda Wong Date April 7, 2017
 Completed by: Linda Wong Date April 17, 2017

1 [Apply for Grant - California Department of Forestry and Fire Protection - State Greenhouse
2 Gas Reduction Funding - Urban Forestry Project - \$245,000]

3 **Resolution authorizing the Recreation and Park Department to apply for a grant in the**
4 **amount of \$245,000 from the California State Department of Forestry and Fire**
5 **Protection, for State Greenhouse Gas Reduction Funding to carry out an urban forestry**
6 **project.**

7
8 WHEREAS, The Governor of the State of California in cooperation with the California
9 State Legislature has enacted State of California Greenhouse Gas Reduction Funding, which
10 provides funds to the State of California and its political subdivisions for urban forestry
11 programs; and

12 WHEREAS, The State Department of Forestry and Fire Protection has been delegated
13 the responsibility for the administration of the program within the State, setting up necessary
14 procedures governing application by local agencies and non-profit organizations under the
15 program; and,

16 WHEREAS, Said procedures established by the State Department of Forestry and Fire
17 Protection require the applicant to certify by resolution the approval of application before
18 submission of said application to the State; and

19 WHEREAS, The applicant will enter into an agreement with the State of California to
20 carry out an urban forestry project; now, therefore, be it

21 RESOLVED, That the Board of Supervisors approved the filing of an application for
22 "State Greenhouse Gas Reduction Funding" urban forestry grant program funds; and, be it

23 FURTHER RESOLVED, That the Board of Supervisors certifies that said applicant has
24 or will have sufficient funds to operate and maintain the project; and, be it

1 FURTHER RESOLVED, That the Board of Supervisors certifies that funds under the
2 jurisdiction of the City and County of San Francisco are available to begin the project; and, be
3 it

4 FURTHER RESOLVED, That said applicant will expend grant funds prior to March 30,
5 2020; and, be it


6 FURTHER RESOLVED, That the General Manager of the Recreation and Parks
7 Department, or a designee, as agent of the Board of Supervisors will conduct all negotiations,
8 execute and submit all documents including, but not limited to applications, agreements,
9 amendments, payment requests and so on, which may be necessary for the completion of the
10 aforementioned project.

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OFFICE OF THE MAYOR
SAN FRANCISCO



EDWIN M. LEE

TO: Angela Calvillo, Clerk of the Board of Supervisors
FROM:  Mayor Edwin M. Lee
RE: Apply for funding from CALFIRE - \$245,000
DATE: April 4, 2017

Attached for introduction to the Board of Supervisors is a resolution to apply for funding from the Urban and Community Forestry Grant Program as provided through the Greenhouse Gas Reduction Fund for the amount of \$245,000.

I respectfully request that this item be heard in Budget & Finance Committee on April 13, 2017 and sent forward as a Committee Report to the full Board on April 18, 2017.

Should you have any questions, please contact Mawuli Tugbenyoh (415) 554-5168.

RECEIVED
BOARD OF SUPERVISORS
SAN FRANCISCO
2017 APR -4 PM 1:49
AK



2016/2017 Urban & Community Forestry California Climate Investment Grants

Project Application Form

File #170352



Fill out the form completely. Please see the submittal instructions at the bottom of the form. The Project Tracking Number requested is listed in the letter of invitation you received.

CAL FIRE Project Tracking Number: 16-GHG-UF-01-MGMT-023

Name of Organization San Francisco Recreation and Park Department

Project Title San Francisco Urban Forest Plan (Phase II: Parks & Open Space)

Project Type Management Activities For GHG Reduction

Requested Grant \$ \$224,000.00 **Matching \$** \$195,000.00 **Total Project \$** \$419,000.00

Primary Source of Technical Advice ISA Certified Arborist **Explanation (if required):**

Professional's First Name **Professional's Last Name**

1. Applicant information - Eligible applicants include cities, counties, qualifying districts, or nonprofit organizations qualified under section 501(c)(3) of the Internal Revenue Code.

Type of Organization County

1A. Primary Project Contact information

First Name Stacy **Last Name** Bradley

Email stacy.bradley@sfgov.org **Phone Number** (415) 575-5609

Address 1 30 Van Ness

Address 2 Suite 300

City San Francisco **County** San Francisco

State California **Zip Code** 94102

1B. Secondary Project Contact information

First Name Brett **Last Name** Desmarais

Email brett.desmarais@sfgov.org **Phone Number** (415) 575-5601

Address 1 30 Van Ness

Address 2 Suite 300

City San Francisco **County** San Francisco

State California **Zip Code** 94103

1C. Correspondence Details:

List any information needed for project contacts, invoicing, etc.

2. Partner information - List primary project partners or co-sponsors. Applicants must provide a letter of commitment from each partner organization that affirms their role in the project.

2A. Name of Organization 1 SF Planning Department

First Name Jon Last Name Swae

Partner Contact Title Planner III, Citywide Planning

Email jon.swae@sfgov.org Phone Number (415) 575-9069

Comments

2B. Name of Organization 2 San Francisco Urban Forest Council

First Name Dan Last Name Flanagan

Partner Contact Title Council Chair

Email dan@fuf.net Phone Number

Comments

2C. Additional Partners: list additional partner organizations with contact person, email address, and phone number.

San Francisco Parks Alliance: Rachel Norton (interim Executive Director), racheln@sfparksalliance.org
Friends of the Urban Forest: Doug Wildman (Program Director), doug@fuf.net

3. Grant Period: provide the estimated start and end dates of the grant project. This date cannot be after March 30, 2020. Final billing must be received within 30 days after the completion date.

Project Start Date Jul 1, 2017 Project Completion Date Dec 30, 2019

4A. CES 2.0 Disadvantaged Communities (DACs): Fill in the percentages below. In the larger box, describe what ARB criteria (see grant guidelines) are being met to be considered "in" or "providing benefits to" DACs. Reference Appendix L of grant guidelines.

Percentage of project meeting definition of "in" DAC Percentage of project that "provides benefits to" DACs.

City & County of San Francisco: The proposed project will focus on 2,400 acres of land managed by the San Francisco Recreation & Parks Department (RPD) including 220 parks and open spaces. These parks and open spaces contain a significant portion of the city's urban forest - approximately 131,000 trees.
The early action tree planting component of this project will focus on parks within 1/2 mile of the City's three Disadvantaged Communities.

4B. DAC census tracts: In the box below list DAC census tracts for the project that will meet the definition of being "in". Census tracts should be listed using the 10 digit number found for each tract on the map(s) at <http://www.calepa.ca.gov/EnvJustice/GHGInvest/>.

6075012502: Tenderloin neighborhood, Boedekker Park
6075023103: Hunters Point neighborhood, Shoreview Park

5. GHG Methodology: Fill in the GHG calculated amounts below. Describe the assumptions used to quantify GHG reductions using the ARB Quantification Methodology as required in the grant guidelines and found at: <https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/quantification.htm>. You are required to attach UTCC runs for species specified and the ARB calculator output.

5A. Estimated carbon stored (MT CO₂e)	13,630
5B. Estimated avoided emissions (MT CO₂e)	0
5C. Estimated project emissions (MT CO₂e)	681
5D Net GHG benefit (MT CO₂e). (5A + 5B) - 5C =	12,949

The project will lead to significant amounts of new tree plantings (4,000 trees over 20 years) and related GHG benefits. The GHG benefits were calculated for the 20-year timeframe of the Urban Forest Plan (Phase II: Parks & Open Spaces). It should also be noted that the project will stabilize and maintain the large carbon sink provided by the 131,000 trees in San Francisco's parks and open spaces.

A. Tree Species: To generate the estimated GHG benefit, we chose a diverse palate of trees species suitable for planting in San Francisco's parks and open spaces. These trees are adapted to the unique urban, geographical, and climate conditions in the city, helping to ensure their success. The following are the assumed tree species for planting (common, scientific): Dawn Redwood (*Metasequoia glyptostroboides*), Canyon Live Oak (*Quercus chrysolepis*), Monterey Cypress (*Cupressus macrocarpa*), California Buckeye (*Aesculus californica*), Douglas Fir (*Pseudotsuga menziesii*), Bigleaf Maple (*Acer macrophyllum*), White Alder (*Alnus rhombifolia*), and Monterey Pine (*Pinus radiata*). Since these trees will be planted in parks and open spaces, they will not provide building shading benefits. The trees used for this analysis were chosen with a few different documents, tools, and policy goals in mind. The following documents helped to guide our tree species choices:

- i. Urban Forest Plan, Phase I. The Urban Forest Plan, Phase I, contains a top ten list of trees that are most often planted in San Francisco because of their specific traits. Many of them have adapted to the unique urban, geographical, and climate conditions that the city presents. While this list focuses on street trees, some of them are often also found in our parks.
- ii. San Francisco Plant Finder. The San Francisco Plant Finder, a tool developed by San Francisco Environment, San Francisco Planning, and the San Francisco Public Utilities Commission, is available to the public to recommend appropriate, habitat-building plants for different areas of the city. The Plant Finder contains plants, shrubs, and trees, many of which were used in these assumptions.
- iii. Biodiversity Goal. A goal of Phase II of the Urban Forest Plan will be focused on encouraging more diverse species planting to promote a variety of habitats and natural lands for a complete ecosystem throughout our parks. This policy goal is taken into consideration to provide a larger mix of tree species, instead of the top planted trees throughout San Francisco.

B. Number of Trees & Management: Based on tree planting trends of the San Francisco Recreation and Park Department (RPD) from 2007-2016, we assumed 200 trees will be planted annually over 20 years in public parks as part of the project. This is a conservative baseline used to develop GHG reduction estimates. Additional trees are typically planted as part of capital projects and tree plantings in Golden Gate Park. We will assume a five year management cycle for the years of establishment and replacement care provided by the project. A robust maintenance program will be a large part of the Urban Forest Plan (Phase II Parks & Open Spaces) to ensure long-term benefits from our trees, including GHG reduction and carbon storage. The five year establishment period will allow for regular maintenance to enhance tree health and timely replacement of dead or dying trees as necessary.

C. Monitoring & Reporting: The Urban Forest Plan Phase II will include monitoring and carbon sequestration tracking as part of its implementation program. Sequestration rates will be tracked for tree types by their age and growth rate during the five year establishment period. This information will be used along with air pollutant and urban heat island effect data from other City agencies to understand correlations between public health and trees planted as a result of Phase II.

D. The Urban Forest Plan will continue to have a comprehensive public outreach program to educate the public on the significance of trees in an urban setting. Phase I used social media, open houses, a webpage, and multiple community events to educate others on the benefits of street trees. Phase II will continue with these methods while also reporting annually for the five year establishment period on the GHG benefits, as well as the many other benefits that trees provide.

We feel these estimates offer a valid and conservative estimate of carbon benefits associated with project-related tree planting. As a result of the proposed 20-year Plan, the City will preserve and enhance 131,000 existing park trees as well as plant 200 trees new annually.

6. Narrative. In the sections below, please follow the prompts and provide all relevant information for the project.

6A. Background. Describe the situation in the project area(s) and problems in the project area(s) that need attention.

The San Francisco Urban Forest Plan grew out of the need to create a community vision and long-term strategy to ensure the health and sustainability of the city's trees. The Plan is divided into three separate phases to allow development of focused policies and actions that address the unique needs of the city's different tree populations. The Plan's phases include: street trees (Phase I), trees in parks and open spaces (Phase II), and trees on private property (Phase III). We are seeking CAL FIRE funds to complete Phase II. This phase will address a number of pressing issues of concern identified by forestry managers, community stakeholders, and the City's Urban Forestry Council, including:

Even-aged forests: The majority of trees in San Francisco's parks and open spaces were planted over 100 years ago during large-scale planting efforts in the late 1800s/early 1900s. Limited regeneration and planting have occurred since then and many trees are nearing the end of their lifespans.

Species diversity: A few major species comprise the bulk of trees in San Francisco's parks and open spaces. Historically, large-scale plantings occurred using only a few signature species - Blue Gum Eucalyptus, Monterey Pine, and Monterey Cypress. The lack of species diversity makes the urban forest less resilient and more susceptible to pests, disease and climate change.

Management practices: San Francisco's parks and open spaces range from small neighborhood parks and squares to large recreation areas. The character, use, and ecology of these require targeted approaches to forestry management and planning.

Maintenance funding: Analysis of maintenance and funding needs of forestry operations in parks and open spaces to determine if new approaches, funding sources and recommendations are needed.

Planting & canopy goals: Tree planting in San Francisco as a whole is not keeping pace with tree removal and loss. San Francisco has one of the smallest tree canopies (13.7%) of any major U.S. city. Open Space trees represent a large part of the existing canopy. The Urban Forest Plan will help the city maintain, improve and expand this integral component of the city's canopy.

6B. Project Objectives - What are the objectives of the proposed project? How do they address the situations and problems identified in the background section?

The San Francisco Urban Forest Plan (Phase II: Parks & Open Spaces) will achieve a range of objectives that strongly align with the goals and requirements of CalFire's Urban Forest Management Activities grant program. The objectives are closely related to the issues noted in the background section above. The Plan will develop a long-term vision and strategy for trees in San Francisco's parks and open spaces that will:

- Specifically, engage disadvantaged communities in the early action tree planting project component, through partnerships with local and neighborhood nonprofit organizations.
- More broadly, pro-actively engage a range of community stakeholders and forestry professionals to generate support for the Plan, encourage an understanding of how native and nonnative species function in our urban ecosystem, and the need for management of green spaces in a city.
- Produce a plan that will improve existing processes, particularly around assessment and prioritization of public investments. This plan will also help secure stable funding sources for tree planting and maintenance.
- Support City and State climate goals by stabilizing and growing tree populations. This second phase of work, focused on parks and open spaces, augments the first phase, which focused on street trees.
- Identify tree planting goals, implement early action planting projects to help San Francisco increase our canopy coverage from the current 13.7%.
- Create a more resilient urban forest capable of withstanding a range of threats including climate change, pests, disease, and sea level rise.
- Promote and strengthen the re-use of urban wood materials to further maximize climate protection and reduce solid waste.

6C. Scope of Work - Describe the approach to be used, the design (methods), and implementation of the project. Include who will be involved with specific tasks and justify why the approach, methods and implementation is the most effective way to accomplish the objectives. Include a description of project sign contents and their locations. (*continued on next page*)

The project will result in the creation of the San Francisco Urban Forest Plan (Phase II: Parks & Open Spaces) - an illustrated plan with goals, objectives, policies, implementation strategies, funding mechanisms, and other elements that will act as a comprehensive guiding document for the present and future management of trees in San Francisco's public parks and open spaces under RPD jurisdiction. The Plan will also include guidance applicable to other agencies in San Francisco managing public open space. The project will achieve the objectives identified above by carrying out the following scope of work and engaging the key partners identified below. It will directly lead to the planting of 4,000+ trees. The final Plan will be brought forward for adoption by the San Francisco Planning Commission, Recreation & Parks Commission and the Board of Supervisors.

The 20-year timeframe of this Phase II plan will align with the completed Phase I work. This timeframe was chosen as both an actionable yet significantly long-range period in which to develop implementable citywide policies and recommendations for the urban forest.

The Urban Forest Plan (Phase II: Parks & Open Spaces) will involve the following ten tasks:

1. **Project Scoping:** Once award notification is received, the project team will refine the project scope, schedule and budget; finalize the staffing plan; and begin the consultant RFP/contracting process. This work will be funded by the grantee prior to the grant start date.
2. **Project kick-off:** The project would launch with a convening of key partners to review roles, time line, deliverables, and grant requirements. Grants management, contracting, and finance staff will be included in this kick-off to ensure that both programmatic and finance/administrative staff are knowledgeable about the project. The kick-off will be co-lead by the Planning Department and Recreation and Parks Department.
3. **Community Outreach & Engagement:** From project initiation, the City will work with nonprofit partners Friends of the Urban Forest (FUF) and the San Francisco Parks Alliance (SFPA) to (1) engage Disadvantaged Communities in early action tree planting, and (2) engage stakeholders and communities in the planning process through informational materials (website and social media), public meetings, office hours with the public, special events (such as Sunday Streets, FUF planting events, and neighborhood events), public presentations, and Urban Forestry Council hearings. Tasks for the team will include preparing informational materials and informing the public of each event. Planning will use its existing mailing list, developed from the Urban Forest Plan Phase I, as well as RPD lists and outreach, and we will work with our partners to send information out to their list serves. These methods should allow our team to reach a broad scope of people throughout San Francisco. Before the targeted tree inventories (task 3) begin the City will engage neighborhood organizations within the Disadvantaged Communities to involve these groups in the assessment and needs for each of the parks and open spaces. The project team will bring these neighborhood organizations into the conversation by scheduling meetings and conducting outreach in these areas of the city.
4. **Forestry Assessments & Canopy Analysis:** A series of technical analyses will be conducted and used to inform Plan recommendations. These will include: (a) Targeted tree inventories: Building on the "Assessment of Urban Forestry Operations" (a 2010 report produced with CAL FIRE funding), the consultant will conduct targeted tree inventories in 5-7 parks and open spaces with a focus on CalEPA Disadvantaged Communities in Tenderloin/Civic Center, South of Market and Bayview/Hunters Point and/or that are representative of the RPD park system. These inventories will be used to assess tree condition, species variety and planting opportunities; and (b) Tree Canopy Analysis: San Francisco's current tree canopy (13.7%) is one of the smallest of any major U.S. city. A canopy analysis and stakeholder process will be conducted to determine the potential for increasing tree canopy within San Francisco open spaces.
5. **Interagency Coordination:** The Planning Department will continue conversations with agencies including the Port Authority, San Francisco Unified School District, and the Public Utilities Commission to understand how Phase II of the Urban Forest Plan can help create goals and objectives that will align with these agencies' vision for the maintenance and growth of the urban forest on their various properties. Our team will work to include each agency in order to facilitate an interal city dialogue and, as appropriate, generate a consistent approach to growing and managing San Francisco's entire urban forest.
6. **Existing Policies, Programs & Best Management Practices:** A review of existing City policies, plans and programs will be conducted related to trees in San Francisco's parks and open spaces. The team will also review other cities throughout the country to compare approaches to an Urban Forest Plan. This background research will result in a thorough precedent studies analysis and a review of relevant City plans. Specific strengths and gaps will be identified and included in the final Plan. A survey of BMPs and planning efforts in other jurisdictions will help develop Plan recommendations. The Plan will provide policies and practices designed to improve the health of the urban forest on public open space, which will ensure the long term maintenance and improvement of the city's tree canopy.

6C. Scope of Work - Continued from previous page

7. Tree Planting Goals + Early Action Planting Projects: In concert with Task 6 (Outreach & Engagement), we will work with project partners and neighborhood organizations, as appropriate, to plant 90 trees in parks within and near Disadvantaged Communities.

8. Plan/Policy Development and Recommendations: The project will result in the San Francisco Urban Forest Plan (Phase II: Parks & Open Spaces) - an illustrated plan with goals, objectives, policies, implementation strategies, funding mechanisms - that will act as a comprehensive guiding document for the present and future management of trees in the city's parks and open spaces. In developing these policies and recommendations we will gather input and comments from our inter-agency team, as well as non-profit partners San Francisco Parks Alliance and Friends of the Urban Forest.

9. Implementation Strategy: The Plan will include an Implementation Strategy, which will show which city division will be responsible for helping achieve each objective, a timeline, and budget recommendation. Partners could include Community Benefit Districts, Friends of the Urban Forest, San Francisco Planning Department, San Francisco Department of the Environment, San Francisco Public Utilities Commission, San Francisco Parks Alliance and the Urban Forestry Council.

10. Final Plan/Policy Document: A draft plan will be available for public comment for 30 days and the final Plan will be produced.

11. Plan Adoption & Approvals: The final Plan will be submitted for approval and adoption by the San Francisco Planning Commission, Recreation & Parks Commission, and the City's Board of Supervisors. It will be presented as an informational item to other commissions, such as the Port and the SF Public Utilities Commission, SF Unified School District, as appropriate.

The project's key partners and their roles are:

San Francisco Planning Department: Co-manager of Plan development and community outreach process.

San Francisco Recreation & Park Department: Co-manager of Plan development and community outreach process.

Urban Forestry Council: Advisory body to review and help shape Plan scope, materials and outreach strategy as well as host public hearings.

San Francisco Parks Alliance: Nonprofit partner to assist with community outreach and Plan development.

Friends of the Urban Forest: Nonprofit partner to assist with community outreach and Plan development.

6D. Project Timeline - Provide a project timeline. Do not list specific dates or months due to uncertainty in when projects may begin. Plan on projects ending no later than March 30, 2020.

September 2017 (pre-grant): Project Scoping
October 2017: Project kick-off
Nov-Dec 2017: Background research
Winter/Spring 2017-2018: Forestry needs assessment & canopy analysis
Ongoing: Public engagement and communications
Ongoing: early-action tree planting in DACs
Summer/Fall 2018: Policy development and recommendations
Winter 2018: Implementation strategy
Spring 2019: Drafting & graphic layout of plan
Summer 2019: Final outreach & open house on final draft
Fall 2019: Final Plan and Policy document
Fall/Winter 2019: Plan adoption and approvals

6E. Tree Information (if applicable) - Provide the following information about any trees or plants to be planted as part of the grant project. Include information even if the trees or plants are not to be funded by CAL FIRE.

Species List - Provide a list of the tree and plant species for this grant project. Include common name, Genus, and species. Include the approximate number of each species to be used. List minimum planting stock size for each species.

RPD: ADD DETAIL

Ninety trees will be planted at seven parks within 1/2 mile of Disadvantaged Communities during the grant period. The stock size will 15-gallon. A small number of 24" box trees (which have a better survival rate in certain urban areas) may be used as well. The species are yet to be determined but will meet CAL FIRE requirements. An additional 310 trees will be planted with City funds in other parks during the two-year project period. The planting of 200 trees/year will continue over the Plan's 20-year horizon, generating the GHG results described above.

Total Project Trees:

Total CAL FIRE Funded:

6F. Other deliverables. List all other project deliverables and quantities to be funded by CAL FIRE, as well as overall project totals.

7. Budget Information

7A. Budget Detail - Provide a specific budget for work to be done. The budget should be based on bid quotes and/or estimates from vendors or on actual costs that will be incurred. The line items listed should be specific enough to adequately describe project expenses. Use the Excel format CAL FIRE has provided for your budget, and follow the guidance in the Procedural Guide. You should note that applicants, if successful in being awarded a grant, will have to follow this budget and will only have the opportunity for minor budget adjustments. The total amount of the project can not be changed later.

7B. Vendor List - List the vendors that have provided you quotes or estimates for this project.

Hort Science
AE Com
ArborPro
Davy

7C. Explanation of Budget and Costs - Describe the basis for the budget amounts listed above. Applicants will be expected to adhere to this budget (*Continued on next page*).

SB WILL COMPLETE WHEN BUDGET IS FINALIZED

We are requesting \$150,000 for a consultant to support creation of the Urban Forest Plan (Phase II: Parks & Open Spaces). The consultant will be tasked with conducting a technical analysis of forestry conditions in parks and open spaces, performing targeted tree inventories at 5-7 parks representative of the RPD system located in Disadvantaged Communities, and assisting with a citywide tree canopy analysis. The consultant's work will build upon the "Assessment of Urban Forestry Operations" performed for the Recreation & Park Department by Hort Science (2010) and funded by CalFire. The consultant will be selected through an RFP process.

In addition, we are requesting \$44,000 to plant 90 new trees over two years in parks within 1/2 mile of Disadvantaged Communities. This includes the cost of the trees as well as installation and maintenance during the five year performance period. The Plan goal will set a target of continuing this annual plantings over the 20-year life of the Plan.

Lastly, we are requesting \$30,000 for education and outreach activities. We will partner with community-based nonprofit organizations. These organizations' existing relationships with local communities and neighborhood groups positions them well for education and outreach tasks. The outreach work will have two areas of focus on: (1) public engagement of a range of stakeholders including Disadvantaged Communities in the process of developing the Plan and (2) a public information campaign focused on the importance of urban forestry in the city's parks and open spaces and the roles of native and nonnative plants in our urban ecosystem.

The matching funds will be provided by combined total 0.5 FTE in Planning and Recreation and Park Department staff time over the project's 2.5 years (this includes salary and fringe).

7D. Matching Funds - List other non-GGRF funding sources, that will meet grant matching requirements.

Source 1	Recreation and Park Department	Amount	\$150,000.00
Description	RPD staff will manage consultant, invoicing, and billing. They will hold meetings with City agencies to monitor project progress. RPD staff will manage & implement the early-action tree planting.		
Source 2	Planning Department	Amount	\$45,000.00
Description	Staff from the Planning Department will work closely with RPD staff. In addition, they will coordinated with neighborhood groups and assist with Plan development and preparation.		
Source 3		Amount	
Description			
Source 4		Amount	
Description			
Matching funds comments			

8. Project Co-Benefits - What co-benefits will the project have? Check the boxes below for the applicable co-benefits, then describe and/or quantify them. Describe how the project will achieve the co-benefits.

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Stormwater reduction | <input checked="" type="checkbox"/> Improved public health | <input type="checkbox"/> Jobs created |
| <input checked="" type="checkbox"/> Improved water quality | <input type="checkbox"/> Enhanced active transportation | <input type="checkbox"/> Job training conducted |
| <input checked="" type="checkbox"/> Improved air quality | <input type="checkbox"/> Reduced vehicle miles travelled | <input checked="" type="checkbox"/> Community outreach conducted |
| <input type="checkbox"/> Energy savings | <input type="checkbox"/> Vacant lot(s) acquired | <input checked="" type="checkbox"/> Education tools/media produced |
| <input checked="" type="checkbox"/> Biomass diverted from landfill | <input checked="" type="checkbox"/> Improved urban forest management | <input type="checkbox"/> Other co-benefits |

San Francisco's trees work hard each day to improve the city's quality of life and urban environment. Trees remove pollutants from air and water, reduce stormwater runoff, beautify neighborhoods, store carbon and improve health and well-being. A 2007 USDA Forest Service report estimated that San Francisco's trees store 196,000 tons of CO₂, divert 516,000,000 gallons of water from the sewer system, and remove 260 tons of atmospheric pollutants every year - amounting to over \$9M in benefits annually.

The proposed project will provide a range of social and environmental co-benefits including:

- Improved public health by creating attractive and green recreational parks and open spaces that support physical activity and generate mental calm.
- Sequestration of atmospheric carbon in 131,000 existing trees and 4,000 new trees in parks and open spaces.
- Reduction of stormwater runoff into the City's combined sewer system and overflows into San Francisco Bay by intercepting rainfall, allowing natural infiltration and slowing stormwater flows.
- Improved air quality by absorbing gaseous pollutants and capturing airborne particulate matter on leaf surfaces.
- Improved water quality by removing contaminants (such as metals, pesticides, solvents, oils and hydrocarbons).
- Enhanced biodiversity and resilience to pests, disease and climate change through diversification of tree species.
- Carbon storage and diversion of landfill waste through re-use of urban wood byproducts from forestry operations.

The plan will maximize urban forest benefits and improve forestry management by compiling data, conducting analyses and addressing policy, management, and financing needs of trees in parks and open spaces. When combined with the City's research and analysis of our street trees, we will be able to produce a citywide canopy coverage goal for San Francisco. The project budget includes \$30,000 expressly for community outreach and the production of educational tools and media.

8. Project Co-Benefits - continued from previous page.

[Empty box for Project Co-Benefits]

9. Certifications & Forms- The following certifications must be filled out and signed by the appropriate person.

9A. Certification of Party Responsible For Maintenance

I, Appropriate representative

certify that the Appropriate agency

will provide or be responsible for 100% of the maintenance for a minimum of 3 years after the end of the grant period in accordance with ANSI A-300 tree care standards, the accompanying ISA Best Management Practices and the standards outlined in the grant agreement and/or grant attachments with the California Department of Forestry and Fire Protection.

Signature _____

Date

Title

Phone Number

9B. Statement of Compliance With All Applicable Laws (all projects must fill out and sign)

I, Appropriate representative

certify that the Appropriate agency

will abide by all applicable federal, state, and local laws, ordinances, regulations and policies in carrying out this State bond-funded project. Failure to do so will lead to cancellation of the grant award.

Signature _____

Date

Title

Phone Number

9C. Recycling Certification (all projects must fill out and sign) - This certification applies to all state contracts and, to the extent feasible, all federally funded contracts.

Contractor certifies under penalty of perjury that percent of the minimum, if not exact, percentage of recycled content, both post consumer waste and secondary waste as defined in the Public Contract Code, Sections 12616 and 12200, in materials, goods, or supplies offered or products used in performance of this Agreement, regardless of whether the product meets the required recycled product percentages defined in the Public Contract Code, Sections 12161 and 12200. Contractor may certify that the product contains zero recycled content. (PCC 10233, 10308.5, 10354)

Signature _____

Date

Title

Phone Number

9D. Checklist of Necessary Forms To Be Completed. Some may not be applicable to your project.

- | | |
|--|--|
| <input checked="" type="checkbox"/> CAL FIRE Urban Forestry Program Environmental Checklist | <input type="checkbox"/> State of California Non-Discrimination Compliance (Std. 19) |
| <input checked="" type="checkbox"/> Proof of CalEnviroScreen 2.0 community designation. | <input type="checkbox"/> State of California Drug-Free Workplace Certification (Std. 21) |
| <input checked="" type="checkbox"/> Governing Body Resolution (must follow sample format) | <input type="checkbox"/> State of California Payee Data Record (Std. 204) |
| <input checked="" type="checkbox"/> Representative project area maps with DAC information. | <input type="checkbox"/> Signed letters of participation from listed partners. |
| <input checked="" type="checkbox"/> Project sign schematic (including CAL FIRE and CCI logos) | <input type="checkbox"/> Urban and Community Forestry Project Budget |
| <input checked="" type="checkbox"/> 5-10 representative site photos | <input type="checkbox"/> UTCC runs for assumptions used, ARB Calculator filled in. |
| <input type="checkbox"/> Other: | |

List other attachments:

SIGNATURE: The authorized primary project contact for the applying organization must sign below. This must be the person, or person holding the position, that is mentioned in the required governing body resolution, and the same person or position signing all of the other required forms. The signature indicates that, to the best of the signer's knowledge, all of the information provided in this application and all attached required forms and documents is accurate and correct. The signer additionally acknowledges that they have read and understand the grant program RFP and the Procedural Guide common to all of the CAL FIRE Urban & Community Forestry grant programs.

Signature _____

Printed Name

Title

Date

Please fill out this form completely. Be sure to save a copy of this form for your records. Submit one (1) electronic copy in the fillable PDF format with all supporting materials to CALFIRE.Grants@fire.ca.gov. Please use "U&CF GGRF Project Application" in the E-mail subject line and include yourself as a cc. Your CC will be proof of your submittal. In addition, submit one (1) hard copy with signatures and all supporting materials to : California Department of Forestry and Fire Protection, Attention: Grants Management Unit/Urban and Community Forestry Greenhouse Gas Reduction Fund Grant, P.O. Box 944246, Sacramento, CA 94244-2460. Both hard copy and electronic copy must be postmarked no later than the due date in the invitation letter you received. If you would like to mail the hard copy via expedited/overnight mail, please E-mail CALFIRE.Grants@fire.ca.gov for the physical mailing address.

CAL FIRE Urban & Community Forestry Program GHG Reduction Grants

