

# C/CAG

## CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

*Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park  
Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside*

**2:30 PM, Thursday, February 21, 2019**  
**San Mateo County Transit District Office<sup>1</sup>**  
**1250 San Carlos Avenue, 2<sup>nd</sup> Floor Auditorium**  
**San Carlos, California**

### **STORMWATER (NPDES) COMMITTEE AGENDA**

- |  |                  |              |
|--|------------------|--------------|
| 1. Public comment on items not on the Agenda (presentations limited to three minutes).   | Breault          | No materials |
| 2. Stormwater Issues from C/CAG Board meetings: <ul style="list-style-type: none"><li>• Nov – Paradigm Environmental Funding Agreement for \$942,221 for Sustainable Streets Master Plan, Amendment #1 to LWA agreement for additional \$10,825 for GI Guidance documents, Water Committee update</li><li>• January – Reso, 19-01 Endorsement of Flood and Sea Level Rise Resiliency Agency proposal, appointment of Sam Bautista to SW Committee for Pacifica</li></ul> | Fabry            | No materials |
| 3. ACTION – Review and approve October 18, 2018 Stormwater Committee minutes   | Fabry            | Pages 1-5    |
| 4. INFORMATION – Announcements on stormwater issues <ul style="list-style-type: none"><li>• Caltrans Cease and Desist Order for trash control</li><li>• Flood and Sea Level Rise Resiliency Agency proposal</li><li>• MRP 3.0 discussions</li><li>• FY 19-20 and beyond budget planning</li><li>• Funding Opportunities</li><li>• Other</li></ul>  | Fabry            | Verbal       |
| 5. INFORMATION – Receive presentation on updated Reasonable Assurance Analysis modeling results.   | Carter           | Page 6       |
| 6. INFORMATION – Receive update on the Caltrans-funded Countywide Sustainable Streets Master Plan project.   | Fabry/<br>Carter | Page 7       |
| 7. INFORMATION – Receive presentation on draft Green Infrastructure Design Guide.  | Bogert           | Pages 8-14   |
| 8. Regional Board Report   | Mumley           | No Materials |
| 9. Executive Director’s Report   | Wong             | No Materials |
| 10. Member Reports   | All              | No Materials |

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**PUBLIC NOTICING:** All notices of C/CAG regular Board meetings, standing committee meetings, and special meetings will be posted at the San Mateo County Transit District Office, 1250 San Carlos Ave., San Carlos, CA, and on C/CAG's website at: <http://www.ccag.ca.gov>.

**PUBLIC RECORDS:** Public records that relate to any item on the open session agenda for a regular Board meeting, standing committee meeting, or special meeting are available for public inspection. Those public records that are distributed less than 72 hours prior to a regular Board meeting are available for public inspection at the same time they are distributed to all members, or a majority of the members, of the Board or standing committee. The Board has designated the City/County Association of Governments of San Mateo County (C/CAG), located at 555 County Center, 5th Floor, Redwood City, CA 94063, for the purpose of making public records available for inspection. Such public records are also available on C/CAG's website at: <http://www.ccag.ca.gov>.

**PUBLIC PARTICIPATION:** Public comment is limited to two minutes per speaker. Persons with disabilities who require auxiliary aids or services in attending and participating in this meeting should contact Mima Guilles at (650) 599-1406, five working days prior to the meeting date.

*If you have any questions about this agenda, please contact C/CAG staff:*

*Program Manager: Matthew Fabry (650) 599-1419*

*Administrative Assistant: Mima Guilles (650) 599-1406*

## **C/CAG AGENDA REPORT**

Date: February 21, 2019  
To: Stormwater Committee  
From: Matthew Fabry, Program Manager  
Subject: Review and approve October 18, 2018 Stormwater Committee meeting minutes

(For further information or questions contact Matthew Fabry at 650 599-1419)

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### **RECOMMENDATION**

Review and approve October 18, 2018 Stormwater Committee meeting minutes, as drafted.

### **ATTACHMENTS**

1. Draft October 18, 2018 Minutes

**STORMWATER COMMITTEE**  
**Regular Meeting**  
**Thursday, October 18, 2018**  
**2:30 p.m.**

**DRAFT Meeting Minutes**

The Stormwater Committee met in the SamTrans Offices, 1250 San Carlos Avenue, San Carlos, CA, 2<sup>nd</sup> floor auditorium. Attendance at the meeting is shown on the attached roster. In addition to the Committee members, also in attendance were Sandy Wong (C/CAG Executive Director), Matt Fabry (C/CAG Program Manager), Reid Bogert (C/CAG staff), Jon Konnan (EOA, Inc.), Sandy Mathews (LWA, Inc.), Ahmad Haya (Redwood City), Breann Liebermann (San Mateo County), Tatum Mothershead and Richard Chiu (Daly City), and Matt Zucca (San Mateo). Chair Breault called the meeting to order at 2:44 p.m.

1. Public comment: None

2. Stormwater Issues from C/CAG Board Meetings: Matt Fabry provided an update on stormwater-related items from the C/CAG Board in June, September, and a presentation in October on the San Mateo Countywide Water Pollution Prevention Program, highlighting the primary areas of support provided via C/CAG, including local technical support, direct compliance and regional collaborative efforts.

3. ACTION – The draft minutes from the May 17, 2018 Stormwater Committee meeting were unanimously approved as drafted (motion: Murtuza, second: Oskoui).

4. INFORMATION – Fabry provided announcements on stormwater issues:

- SB 231 stormwater fee exploration in San Mateo County: Received update on the exploration of SB 231 stormwater utility fees in San Mateo County, with support from a statewide task force and is identifying potential cities/counties to enact test cases to provide legal standing to overturn the Salinas decision that under Prop 218 prevents stormwater from being included in new utility fees without a ballot measure. Several jurisdictions in San Mateo are investigating potential projects that could uphold the SB 231 provision to enable stormwater utility fees through a public hearing and protest process.
- Regional concept developments for RAA: C/CAG continues to work with consultants, jurisdictions and Caltrans staff to identify regional project opportunities. Two new project concepts have been developed recently, including 1) San Bruno 280/380 interchange, which would occur on Caltrans property and would treat drainage from San Bruno, Pacifica, the County and Caltrans ROW, and 2) Red Morton Park in Redwood City, which would treat drainage from Redwood City, Woodside and the County. C/CAG staff is currently working with jurisdictions and Caltrans to find funding to design and construct these projects. The Orange Memorial Park Project and the Atherton project are also moving forward (the Atherton project is now being considered for a new location at Menlo College under the athletic fields). Newly identified projects will be included in the RAA modeling results for potential future projects and pollutant load reductions.
- October 22 meeting with Regional Water Board staff on RAA: Fabry provided an update on a briefing planned with Water Board staff on SMCWPPP's progress with the RAA and how to frame the results for including targets for green infrastructure in the GI Plans.

- FY19-20 and beyond budget planning: Fabry discussed the initial FY19/20 planning discussion with the Ad-hoc Workgroup, which made recommendations for cutting services further in 19/20 to match the current budget and then considering future changes to the program to more cost-effectively provide program support to the permittees. Staff will plan to meet again with the Ad-hoc Workgroup in the coming months to further identify areas to cut back in FY19/20 and otherwise shift resources within C/CAG and among the permittees to cost-effectively meet the requirements of the MRP.
- Green infrastructure projections for new and redevelopment: New projections for new and redevelopment will be shared soon with the permittees, including acreage projections through 2020, 2030 and 2040. A memo will be circulated to the GI Committee, NPDES TAC, Stormwater Committee and Planning and Building Directors for feedback on the projections.
- Other: Fabry shared current funding opportunities, including the EPA Water Quality Improvement Fund, the Integrated Regional Watershed Management Plan (IRWMP) funds for integrated water projects in the Bay Area, and Prop 1 Stormwater Program funds due to be released in the coming months. It was noted that San Mateo County is not getting its proportionate share of the IRWMP funds, and that for state funds, there is typically a 1-to-1 non-state fund match requirement.

#### 5. INFORMATION - Receive presentation on PCBs load reductions and annual reporting.

Jon Konnan presented the status of PCBs load reductions in San Mateo County based on the Annual Report submittal in September 2018. As a county, San Mateo permittees did not meet the population-based load reduction requirements by all control measures by the July 1, 2018 compliance deadline. As a region, however, all permittees under the San Francisco Bay Regional Municipal Stormwater Permit (MRP), including San Mateo County Permittees did achieve the 2018 compliance reduction of 500 g/year. San Mateo County permittees did achieve the green infrastructure-based load reduction requirement for 2018 and 2020. Based on the current assessment of PCBs load reductions through 2020 for all permittees under the MRP, including San Mateo County permittees, there appears to be a significant shortfall between current reductions and future reported reductions, including the PCBs/building demolition program credit of 2 kg/year on a regional basis, which will be assumed if all permittees implement programs by July 1, 2019. One area of potential is source property referrals; however, significant effort has been put into source property identification, including desktop screening and sampling, and it is believed most of the larger sites have already been identified and/or referred. Unlike other more industrialized areas of the MRP region, however, San Mateo has fewer industrial sites, and those that do exist tend to be smaller, making the prospect for load reduction via source property referrals even less optimistic in San Mateo County. Two sites in San Carlos were identified as existing cleanup sites to be followed-up for additional cleanup to meet water quality standards and to achieve load reduction credit this past fiscal year. One site still requires a referral process and additional sampling before credit will be received. It was noted that to support San Mateo County permittees, if future compliance deadlines are not met regionally or at the county level, SMCWPPP is continuing to sample sediment in targeted locations to demonstrate the commitment to finding potential source properties, and the process will be documented in the TMDL implementation plan to be submitted on behalf of the permittees by the program in 2020. It was also noted that demonstrating a level of commitment to begin institutionalizing green infrastructure in local GI Plans will be supportive.

#### 6. INFORMATION – Receive presentation on the BASMAA PCBs/Building Demolition project and next steps for program adoption and implementation.

Sandy Matthews presented the BASMAA project outputs for developing a program to manage PCBs in building materials during demolition. The MRP requires permittees to develop and implement or cause

to be implemented programs to manage PCBs in building materials prior to demolition by July 1, 2019. BASMAA produced tools and guidance over the past several years to support local program development, adoption and implementation, including a demolition applicant package, model language for adoption, CEQA documentation and outreach support. The development of these tools included significant engagement with Water Board staff, EPA staff and industry stakeholders. Additional trainings for permittees to help adopt programs has been planned by the BASMAA project team (the first staff training was held on Oct 9 and the second will be Oct 30, 2019). C/CAG staff recommends jurisdictions begin engaging with city attorneys and legal counsels, as well as relevant building officials and planning and building staff to review ordinances and codes to determine the best approach for adopting a local program. C/CAG staff is also planning a one-hour webinar for San Mateo legal counsels and other key staff to receive a briefing on the program requirements and address questions. The webinar is being planned for December or January. C/CAG staff will also look for future opportunities to engage City Managers and Building Officials, as well as provide additional support as needed to individual agencies. For jurisdictions considering creating a new ordinance it is recommended approving a new ordinance in May to provide adequate time for two hearings prior to enactment of the new code.

7. ACTION - Review and recommend approval of consultant selection for the Caltrans grant-funded Countywide Sustainable Streets Master Plan.

Fabry provided an overview of C/CAG's process to select a consultant or consultant team to develop a countywide sustainable streets master plan recently awarded funds from the Caltrans Adaptation Planning Grant Program. Two project proposals were received (Paradigm Environmental and Tetra Tech) after widely distributing the Request for Proposals via BASMAA and CASQA distribution lists and hosting a pre-proposal workshop in September. A selection committee comprised of C/CAG staff, County staff, County Environmental Health and the City of Burlingame, scored the proposals based on the criteria outlined in the Request for Proposals, and made a recommendation of Paradigm Environmental after inviting both firms to conduct an interview. It was noted that both proposals were presented under-budget and similar in scope, but that the Paradigm team presented a stronger proposal that overall aligned closer with C/CAG's vision for the project, in addition to having strong existing relationships with C/CAG and SMCWPPP through ongoing work. C/CAG staff issued a notice to proceed on Oct 2, 2018 and has already met with Caltrans staff to initiate the project. Staff will keep the Committee informed of progress and opportunities for direct engagement.

8. Regional Board Report: None.

9. Executive Director's Report: C/CAG Executive Director Sandy Wong reported that the Countywide Water Coordination Committee (CWCC) is moving forward on efforts to develop a recommendation on a new agency to address flooding and sea level rise. The CWCC established a Staff Advisory Team including 16 agency representatives with expertise in water and agency organization/administration issues. The draft proposal is coming forward and workshops to share the proposal and get input from the cities are planned for Nov 14 at Brisbane City Hall and Dec 3 at the San Mateo Main Library. City Managers will be invited directly.

10. Member Reports: None.

Chair Breault adjourned the meeting at 3:55 p.m.

2018-19 Stormwater Committee Attendance			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
Agency	Representative	Position												
Atherton	Robert Ovidia	Public Works Director				X								
Belmont	Afshin Oskoui	Public Works Director				X								
Brisbane	Randy Breault	Public Works Director/City Engineer				X								
Burlingame	Syed Murtuza	Public Works Director				X								
Colma	Brad Donohue	Director of Public Works and Planning	C	C	C	X	C	C	C					
Daly City	John Fuller	Public Works Director	A	A	A	O	A	A	A					
East Palo Alto	Kamal Fallaha	City Engineer	N	N	N		N	N	N					
Foster City	Jeff Moneda	Public Works Director	C	C	C		C	C	C					
Half Moon Bay	Maziar Bozorginia	City Engineer	E	E	E		E	E	E					
Hillsborough	Paul Willis	Public Works Director	L	L	L	X	L	L	L					
Menlo Park	Justin Murphy	Public Works Director	E	E	E	X	E	E	E					
Millbrae	Khee Lim	Public Works Director	D	D	D		D	D	D					
Pacifica	Van Ocampo	Public Works Director/City Engineer												
Portola Valley	Howard Young	Public Works Director				X								
Redwood City	Saber Sarwary	Supervising Civil Engineer				X								
San Bruno	Jimmy Tan	City Engineer				X								
San Carlos	Grace Le	Public Works Director												
San Mateo	Brad Underwood	Public Works Director				O								
South San Francisco	Eunejune Kim	Public Works Director												
Woodside	Sean Rose	Public Works Director												
San Mateo County	Jim Porter	Public Works Director				X								
Regional Water Quality Control Board	Tom Mumley	Assistant Executive Officer												

"X" - Committee Member Attended

"O" - Other Jurisdictional Representative Attended

## **C/CAG AGENDA REPORT**

Date: February 21, 2019  
To: Stormwater Committee  
From: Matthew Fabry, Program Manager  
Subject: Receive presentation on updated Reasonable Assurance Analysis modeling results.

(For further information or questions contact Matthew Fabry at 650 599-1419)

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### **RECOMMENDATION**

Receive presentation on updated Reasonable Assurance Analysis modeling results.

### **BACKGROUND**

The Municipal Regional Permit (MRP) requires Reasonable Assurance Analyses (RAA) to demonstrate mercury and PCB (polychlorinated biphenyls) load reductions will be achieved via green infrastructure and the other control measures. Paradigm Environmental has been developing the RAA for C/CAG's member agencies to model the estimated capacity of green infrastructure required to achieve mandated load reductions for mercury and PCBs.

The RAA model and associated outputs were recently updated to incorporate additional information on: (1) projected areas for new development subject to MRP Provision C.3 stormwater treatment requirements via green infrastructure, (2) refinements to the conceptual design inputs to reflect current designs for regional retention projects being developed in South San Francisco and Atherton, (3) inclusion of new regional project concepts developed for San Bruno and Redwood City, and (4) considerations for phased implementation of green infrastructure to meet interim (2020 and 2030) and final (2040) schedule milestones, per MRP requirements. Paradigm will provide a summary of the updated RAA results that will establish green infrastructure implementation goals and inform development of Green Infrastructure Plans for each municipal jurisdiction.

### **ATTACHMENTS**

None



## C/CAG AGENDA REPORT

Date: February 21, 2019  
To: Stormwater Committee  
From: Matthew Fabry, Program Manager  
Subject: Receive update on the Caltrans-funded Countywide Sustainable Streets Master Plan project.

(For further information or questions contact Matthew Fabry at 650 599-1419)

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### RECOMMENDATION

Receive update on the Caltrans-funded Countywide Sustainable Streets Master Plan project.

### BACKGROUND

C/CAG was awarded a \$986,300 Adaptation Planning Grant by Caltrans to develop a Countywide Sustainable Streets Master Plan that prioritizes street segments throughout the county for integrating green stormwater infrastructure with other planned investments and community priorities. The grant program requires a local match of at least 11.47%. The project includes the following key tasks:

- Community Engagement
- Climate Adaptation Risk Analysis on Local Transportation Network
- High-Resolution Data Analysis and Fine-Scale Drainage Delineation
- Prioritization of Sustainable Streets Opportunities and Development of Master Plan
- Project Concepts
- Web-based Sustainable Streets Project Implementation Mapping and Tracking Tool

The project is intended to evaluate precipitation-based climate change impacts for managing runoff from the roadway network and prioritize opportunities for integrating green stormwater infrastructure to help adapt the roadway network and downstream infrastructure. The Master Plan will prioritize specific roadway segments for integration of green infrastructure in five-, 10-, and 20-year time horizons and will include up to 10 project concepts. The project will use LiDAR data to develop high-resolution drainage mapping throughout the county and create a web-based mapping and tracking tool to document progress over time in managing stormwater volumes. The work products will also directly support C/CAG member agencies' Green Infrastructure Planning efforts required under the Municipal Regional Permit.

C/CAG executed a funding agreement with Paradigm Environmental in November 2018. Now that the grant effort is underway, C/CAG and Paradigm Environmental staff will provide an update on the project and opportunities/need for member agency collaboration.

### ATTACHMENTS

None

## C/CAG AGENDA REPORT

Date: February 21, 2019  
To: Stormwater Committee  
From: Matthew Fabry, Program Manager  
Subject: Receive presentation on draft Green Infrastructure Design Guide.

(For further information or questions contact Matthew Fabry at 650 599-1419)

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### RECOMMENDATION

Receive presentation on draft Green Infrastructure Design Guide.

### BACKGROUND

The Municipal Regional Permit (MRP) requires C/CAG member agencies to develop Green Infrastructure Plans by September 2019. In addition to many other components, the MRP states that these plans must include, in part:

- *General guidelines for overall streetscape and project design and construction so that projects have a unified, complete design that implements the range of functions associated with the projects.*
- *Standard specifications and, as appropriate, typical design details and related information necessary for the Permittee to incorporate green infrastructure into projects in its jurisdiction.*
- *An evaluation of prioritized project funding options, including, but not limited to: Alternative Compliance funds; grant monies, including transportation project grants from federal, State, and local agencies; existing Permittee resources; new tax or other levies; and other sources of funds.*

In response to these requirements, C/CAG has been working its Green Infrastructure Committee and its consultants Community Design + Architecture and Urban Rain|Design to develop a suite of green infrastructure guidance material. The draft material, compiled into a single document called the “Green Infrastructure Design Guide” that builds from C/CAG’s existing Sustainable Green Streets and Parking Lots Design Guidebook, is currently under review by C/CAG member agencies and includes the following chapters and appendices:

Chapter 1 – Introduction  
Chapter 2 – Green Infrastructure Measures and Opportunities  
Chapter 3 – Introduction to the Design Strategies and Guidelines  
Chapter 4 – Key Design and Construction Considerations  
Chapter 5 – Key Implementation Strategies  
Chapter 6 – Operations and Maintenance

- Appendix A.1 – Glossary
- Appendix A.2 – Reference Documents
- Appendix A.3 – Sustainable Streets Typical Design Details
- Appendix A.4 – Sustainable Streets Specifications
- Appendix A.5 – Sample Maintenance Plan Forms
- Appendix A.6 – Potential Green Infrastructure Funding Source Analysis and Recommendations

The document is highly visual, with photos and before/after renderings throughout. The main chapters of the Green Infrastructure Design Guide cover the first two bullet points, above, providing design guidance for incorporating green infrastructure into buildings, sites, parking lots, and streets (with a significant emphasis on integration with Complete Streets) and Appendix A.6 addresses the need for an evaluation of funding opportunities. The full table of contents is included as Attachment 1 to provide detail on subsections within each chapter. The full document is available at the following link (<https://community-design.sharefile.com/home/shared/fo8a082f-ca76-45ca-8c3b-5bcd77a78600>) (login is necessary to view files).

Staff will provide a brief presentation summarizing the draft Green Infrastructure Design Guide and provide context for how the materials are anticipated to fit within the context of local Green Infrastructure Plans.

#### **ATTACHMENTS**

1. Green Infrastructure Design Guide Table of Contents



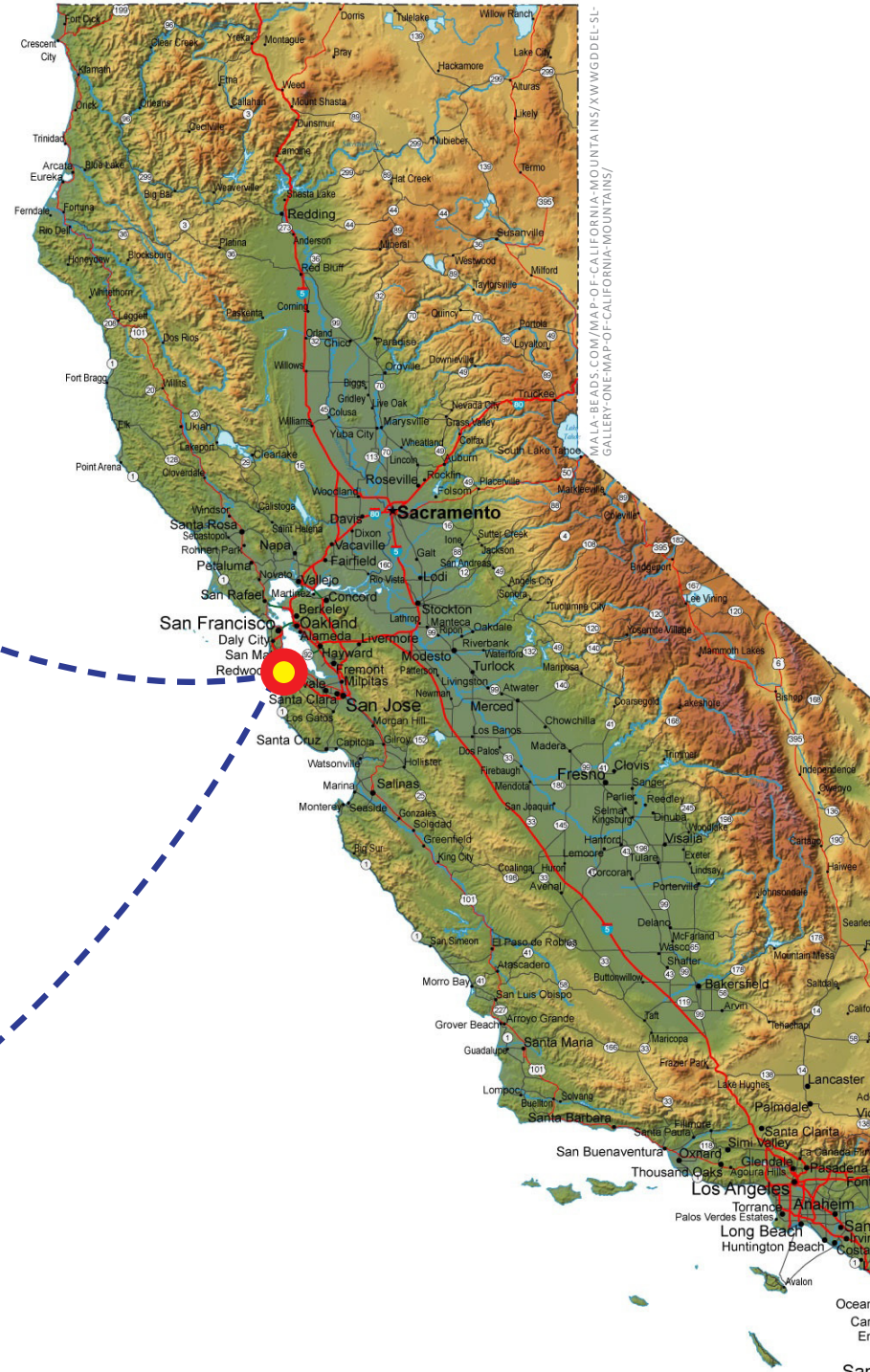
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# Green Infrastructure Design Guide

First Edition | April 2019



# San Mateo County, California



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◀ *California poppies blanket a stormwater curb extension along Hillside Boulevard in South San Francisco.*  
 Photo Credit: Urban Rain|Design

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