

**Grant Progress Report**  
**Bay Area Green Infrastructure Master Planning Project**  
 GA# 12-415-550

**Progress Report # 9**

**Reporting Period: 7/01/2015 to 9/30/2015**

**Submittal Date 11/11/2015**

**Grant Agreement No:** 12-415-550  
**Project Name:** Bay Area Green Infrastructure Master Planning Project  
**Contractor Name:** San Francisco Estuary Partnership / ABAG

I certify under penalty of law that this document and any attachment was prepared by me or under my direction in accordance with the terms and conditions of each Grant Agreement Exhibit. Based on my inquiry of the persons or persons who manage the project, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. All information submitted in this document and all attachments conform to and is in accordance with the state and federal laws and I so here certify with my signature. I am aware that there are significant penalties for submitting false or misleading information.

**Project Director:** \_\_\_\_\_ *Judy Kelly* \_\_\_\_\_ *Judy A. Kelly* \_\_\_\_\_  
 Judy Kelly – Printed Name Signature

**Summary of Work Completed To Date**

| Work Item  | Items for Review  | Critical Due Date | Estimated Due Date | Percent Work Complete | Date Submitted |
|--|---|-------------------|--------------------|-----------------------|----------------|
| EXHIBIT A – SCOPE OF WORK TO BE PERFORMED BY THE GRANTEE |   |                   |                    |                       |                |
| A.   | PLANS AND GENERAL COMPLIANCE REQUIREMENTS                   |                   |                    |                       |                |
| 1.   | GPS information for Project site and monitoring locations   | Day 90            |                    | 100%                  | 10/26/13       |
| 2.   | Monitoring and Reporting Plan                               | N/A               | N/A                | N/A                   | N/A            |
| 2.1  | Project Assessment and Evaluation Plan (PAEP)               | Day 90            |                    | 100%                  | 10/26/13       |
| 2.2  | Monitoring Plan (MP)  | N/A               | N/A                | N/A                   | N/A            |
| 2.3  | Quality Assurance Project Plan (QAPP)                       | N/A               | N/A                | N/A                   | N/A            |
| 2.4  | Proof of Water Quality Data Submission to CEDEN             | N/A               | N/A                | N/A                   | N/A            |
| 3.   | Copy of final CEQA/NEPA Documentation                       | Day 90            |                    | 100%                  | 10/26/13       |
| 4.   | Public Agency Approvals, Entitlements, or Permits           | N/A               | N/A                | N/A                   | N/A            |
| B.   | PROJECT-SPECIFIC REQUIREMENTS                               |                   |                    |                       |                |
| 1.   | Project Management  |                   |                    |                       |                |
| 1.2  | Notification of Upcoming Meetings, Workshops, and Trainings |                   | 15 Days In Advance |                       |                |

|  |   |                      |                  |            |            |
|--|---|----------------------|------------------|------------|------------|
| 2.   | TAC   |                      |                  |            |            |
| 2.1  | List of TAC Members, Their Affiliated Organizations, and Their Roles and Responsibilities                                     |                      | November 2013    | 100%       | 12/2/13    |
| 2.2  | Three (3) TAC Meeting Agendas, Sign-In Sheets, and Minutes  |                      | As Needed        | 100%       | 8/15/14    |
| 2.3  | TAC Status Report   | December 31, 2014    |                  |            | 12/31/14   |
| 3.   | Toolkit   |                      |                  |            |            |
| 3.4  | The Packaged Toolkit  |                      | February 2015    |            | 2/17/15    |
| 3.5  | Toolkit Technical Memorandum  | April 30, 2015       |                  |            | 4/30/15    |
| 3.6  | List of Communities and Staff Contact Information that Participated in Toolkit Demonstration                                  |                      | May 2015         |            | 05/12/15   |
| 4.   | Green Infrastructure Master Plans   |                      |                  |            |            |
| 4.1  | Preliminary Meeting Minutes and a List of Selected Watersheds   |                      | February 2014    | 100%       | 12/31/13   |
| 4.2  | Toolkit Results and Secondary Meeting Minutes   |                      | December 2014    |            | 12/31/14   |
| 4.3  | List of Potential LID Retrofit Sites Selected for Field Verification  |                      | December 2014    |            | 12/31/14   |
| 4.5  | List of Selected Sites for LID Conceptual Design  |                      | April 2015       |            | 11/20/2014 |
| 4.6  | Green Infrastructure Master Plans   |                      | May 2015         |            | 05/12/15   |
| 5.   | Evaluation of Potential Funding Mechanisms  |                      |                  |            |            |
| 5.1  | Meeting Agendas, Sign-In Sheets, and Minutes  |                      | April 2015       | 100%       | 05/12/15   |
| 5.2  | In-Lieu Fee Program Memorandum  |                      | May 2015         | 100%       | 08/15/15   |
| 6.   | Education and Outreach  |                      |                  |            |            |
| 6.1  | Website Link  |                      | October 2013     | 100%       | 10/26/13   |
| 6.3  | Webinar Material  |                      | July 2015        | 100%       | 7/30/15    |
| 6.5  | Project Results Presentation Material   |                      | July 2015        | 100%       | 11/12/15   |
| EXHIBIT B – INVOICING, BUDGET DETAIL, AND REPORTING PROVISIONS |   |                      |                  |            |            |
| A.   | INVOICING   |                      | Quarterly        | 100% (9/9) | 11/18/15   |
| G.   | REPORTS   |                      |                  |            |            |
| 1.   | Progress Reports within forty-five (45) days following the end of the calendar quarter (March, June, September, and December) |                      | Quarterly        | 100% (9/9) | 11/12/15   |
| 2.   | Annual Progress Summaries   |                      | Annually by 9/30 |            | 1/13/15    |
| 3.   | Natural Resource Projects Inventory (NRPI) Survey Form  | Before Final Invoice |                  |            |            |
| 4.   | Draft Final Project Report  | August 31, 2015      |                  | 100%       | 09/01/15   |

|    |  |                      |  |      |          |
|----|--|----------------------|--|------|----------|
| 5. | Final Project Report                       | October 31, 2015     |  | 100% | 10/29/15 |
| 6. | Final Project Summary                      | Before Final Invoice |  |      |          |
| 7. | Final Project Inspection and Certification | Before Final Invoice |  |      |          |

## **Progress Report Narrative**

GreenPlan Bay Area is a collaborative effort between San Francisco Estuary Partnership (SFEP), San Francisco Estuary Institute (SFEI) and several Bay Area municipalities. SFEI will develop spatial tools which will be used by several Bay Area municipalities to develop plans that identify the optimal combination of Green Infrastructure (GI)/Low Impact Development (LID) features for achieving desirable outcomes at the watershed scale.

The spatial tools, aka GreenPlan-IT, includes four components: a GIS siting tool with user interface to determine site suitability, a watershed model to identify high-yield runoff and pollutant areas ('hot spot'), optimization techniques to search for optimal combinations of LID locations, types and configurations, and a post-processor to compile and display outputs in user-friendly formats.

GreenPlan-IT has been pilot tested in several municipalities/watersheds. The results of GreenPlan-IT have/will serve as the basis for municipal Green Infrastructure Master Plans and/or a list of priority LID sites for each jurisdiction. Conceptual designs have been developed for 8 LID sites/projects. Jurisdictions will also collaborate with ABAG/SFEP to explore potential funding frameworks (such as alternative compliance programs) for LID retrofits.

## **Summary of Activities**

- Completed In Lieu Fee Program memo, attached
- Project Results presentation by SFEI at State of the Estuary Conference on September 17, 2015, presentation attached
- Project Results presentations by SFEI and Cloak, Inc at California Stormwater Quality Association (CASQA) on October 20 & 21 respectively, presentations attached
- Submitted Draft Final Report on August 31, 2015
- Submitted Final Project Report on October 29, 2015, report attached

## **Summary of Items for Review**

Project Administration (Cumulative 100 % complete)

Project administration during this quarter has included the completion of Invoice 9, project management including completing the quarterly report, updating the project website, reviewing project deliverables submitted by SFEI and attending team meetings.

Project Design (Cumulative 100 % complete)

Project design included the tasks listed on the attached SFEI quarterly progress report as well as attending development meetings with staff from participating municipalities and SFEI; reviewing documents and providing input.

### **Exhibit A Deliverables**

A5.2 – In Lieu Fee Program memo

B(G)1 - Progress Reports (Cumulative 100% 9 out of 9 complete)

B(G)4 - Draft Final Project Report

B(G)5 - Final Project Report

### **Attachments (submitted separately as PDF file)**

1. SFEI Progress Report #9 (Quarter 9 – July through September 2015)
2. In Lieu Fee Program Memo
3. Project results presentation at State of the Estuary Conference
4. Project Results presentations at CASQA conference (SFEI & Cloak)
5. Final Project Report

## **Summary of Items in Progress**

- Invoice 9



## SAN FRANCISCO ESTUARY INSTITUTE

4911 Central Avenue, Richmond, CA 94804 • p 510-746-7334 • f 510-746-7300

[www.sfei.org](http://www.sfei.org)

### **Green Infrastructure Master Planning Project Quarterly Progress Report Q3 2015 (Progress Report #9)**

#### **Task 1: Project Assessment and Evaluation Plan**

##### **Work Completed during the Period**

- SFEI continued working on the final PAEP and submitted the document in August 2015.

#### **Task 2: Technical Advisory Committee**

##### **Work Completed during the Period**

- SFEI staff continued to engage technical advisors on the development of the water quality module for the toolkit.

#### **Task 3: LID Toolkit**

##### **Work Completed during the Period**

- SFEI continued to hold internal meetings to check in on project progress, discuss technical questions, and plan project next steps.
- Staff continued development of the water quality module. This module will provide stakeholders with an estimate of contaminant reductions based on multiple green infrastructure implementation scenarios. This module utilizes output from the GIS site locator tool as input and runs through a genetic algorithm which provides a cost-benefit analysis. The module was developed by using code from the EPA SUSTAIN model which was then modified to perform the required functions.

#### **Task 4: Green Infrastructure Master Plans**

##### **Work Completed during the Period**

- SFEI continued working with the City of Sunnyvale to implement the GreenPlan-IT Toolkit for the entire city of Sunnyvale and specifically for the Peery Park redevelopment planning process. SFEI held a phone conference with city of Sunnyvale staff on August 7 to discuss available data, priority development plans, and other information pertinent to running the Site Locator Tool. The city of Sunnyvale is continuing to identify appropriate GIS data layers for inclusion in the tool. Once those data layers are available, we will move forward with running the entire toolkit.
- Dan Cloak completed the 8 conceptual Green Infrastructure Green Infrastructure designs for the cities of San Mateo and San Jose. The consultant completed all of his deliverables for the contract. These deliverables were submitted to the State Water Board by SFEP

#### **Task 5: Education and Outreach**

##### **Work Completed during the Period**

- SFEI prepared for and participated in the State of the Estuary conference and the California Stormwater Quality Association. Both PowerPoint presentations are attached.

