Chapter 4 Appendices
[This page intentionally left blank]
Appendix 4-1

TAC Member List
[This page intentionally left blank]
Stormwater Resource Plan for the Santa Clara Basin in Santa Clara Valley  
Technical Advisory Committee  
Member List  
Revised February 2018

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kirsten Struve¹</td>
<td>Santa Clara Valley Water District²</td>
</tr>
<tr>
<td>Sharon Newton¹ / Jeff Sinclair</td>
<td>City of San José²</td>
</tr>
<tr>
<td>Elaine Marshall / Melody Tovar¹</td>
<td>City of Sunnyvale²</td>
</tr>
<tr>
<td>Pamela Boyle Rodriguez / Karin North¹</td>
<td>City of Palo Alto²</td>
</tr>
<tr>
<td>Neeta Bijoor</td>
<td>Santa Clara Valley Water District²</td>
</tr>
<tr>
<td>Luisa Valiela</td>
<td>EPA, Region 9, Water Division</td>
</tr>
<tr>
<td>Jeffrey Albrecht</td>
<td>State Water Resources Control Board, Stormwater Planning Unit, Division of Water Quality</td>
</tr>
<tr>
<td>Keith Lichten</td>
<td>Regional Water Quality Control Board, San Francisco Bay Region</td>
</tr>
<tr>
<td>David Freyberg</td>
<td>Stanford University, Department of Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Brian Mendenhall (District Project Manager)</td>
<td>Santa Clara Valley Water District²</td>
</tr>
<tr>
<td>Harish Bagha (Grant Manager)</td>
<td>State Water Resources Control Board</td>
</tr>
<tr>
<td>Jill Bicknell (SCVURPPP Project Manager)</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Chris Sommers</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Vishakha Atre</td>
<td>SCVURPPP</td>
</tr>
</tbody>
</table>

¹ Representative on SCVURPPP Management Committee  
² Member agency of SCVURPPP
Appendix 4-2

TAC meeting materials
[This page intentionally left blank]
Santa Clara Basin Stormwater Resource Plan  
Technical Advisory Committee (TAC)  
Kick-off Meeting

March 23, 2017, 1:30-3:30 pm  
Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose  
Headquarters Building, Room A143

AGENDA

MEETING OBJECTIVES:

- Brief TAC members on the project purpose, background, approach, and schedule.
- Solicit TAC input on project approach and specific project submittals (List of TAC Members, Stakeholder Outreach Plan and Stormwater Resource Plan Outline).

1:30 1. Welcome/Introductions  
Action: Review and approve List of TAC Members

Jill Bicknell, SCVURPPP  
Kirsten Struve, SCVWD

1:45 2. Overview of Project Purpose and Background  
• Purpose of Stormwater Resource Plan  
• Description of Project Area Watersheds  
• Previous and Current Planning Efforts  
• Water Quantity and Water Quality Issues  

Jill Bicknell

2:05 3. Overview of District’s One Water Plan  

Tracy Hemmeter, SCVWD

2:15 4. Project Approach  
• Scope of Work  
• Schedule  
Action: Provide input on project approach.

Jill Bicknell

2:50 5. Stakeholder Involvement  
Action: Review and approve Draft Stakeholder Outreach Plan  

Vishakha Atre, SCVURPPP

Action: Review and approve Draft SWRP Outline  

Jill Bicknell

3:25 Review Action Items

3:30 Adjourn
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee (TAC)
Kick-off Meeting

March 23, 2017, 1:30-3:30 pm
Santa Clara Valley Water District, 5750 Almaden Expressway, San Jose
Headquarters Building, Room A143

MEETING SUMMARY

Participants – Attendance list attached.

1. Welcome/Introductions

Attendees introduced themselves. Jill Bicknell (SCVURPPP) informed attendees that the purpose of today’s meeting is to provide an overview of the SWRP and obtain approvals for several key deliverables. Attendees reviewed the TAC list and made minor corrections to phone numbers. The TAC list was approved for submittal to the Grant Manager.

2. Overview of Project Purpose and Background

Jill provided an overview of the grant and SWRP development process and information on the project boundaries and watershed areas. The District and SCVURPPP received a Prop 1 Grant to prepare a Stormwater Resource Plan for the Santa Clara Basin in Santa Clara County. The total project budget is $944,833 (Grant amount: $471,708, and $473,125 in-kind match from SCVURPPP). The SWRP is scheduled to be completed by December 2018. The SWRP will result in a list of prioritized multi-benefit stormwater capture/treatment/use projects eligible for future State implementation grant funds.

Attendees provided the following feedback:

- Add a goal to use the SWRP to increase coordination with transportation agencies.
- Invite City of San Jose staff to share information on their Storm Drain Master Plan at the next TAC meeting.
- The SWRP should recognize that water supply benefits from stormwater capture projects will only accrue in the unconfined area of the groundwater sub-basin.
- Include the Santa Clara County Habitat Management Plan in the list of plans to reference in the SWRP.
3. Overview of District’s One Water Plan

Tracy Hemmeter (SCVWD) provided an overview of the District’s One Water Plan, and its goals and objectives. The intent of the One Water Plan is to develop a framework for long-term management of Santa Clara County water resources. The District is taking a tiered approach to One Water Plan development. Tier 1 included the development of a countywide framework to establish guidance for watershed-specific plans. Tier 2, which is in progress, includes developing master plans for each of the five major watersheds in Santa Clara County. The District has identified the five goals and ten objectives for the One Water Plan, and is in the process of developing metrics to track the progress over time for each objective. The One Water Plan aims to plan and prioritize projects that maximize stream stewardship, flood protection, and water supply benefits. District staff is working with the One Water Stakeholder Work Group (SWG) to identify project opportunities that could meet One Water objectives. Tracy showed a map indicating the locations of issues and project ideas contributed by the SWG so far for the Coyote Watershed. She added that the District Board is interested in including stormwater capture projects in the Water Supply Master Plan.

4. Project Approach

Jill described the background information (water quality issues, green infrastructure requirements in the Permit, pollutants of concern), project approach, tasks, and schedule for completion. The TAC provided the following feedback:

- Include temperature and nutrients (future issue) in the list of water quality issues.
- Provide more information on the Project Identification and Prioritization methodology at the next meeting.
- Clearly define objectives for the metrics that will be used to assess benefits of each project. Jill noted that the TAC will have an opportunity to comment on the metrics used to prioritize projects.
- The TAC discussed the State Board’s approach to selecting projects for receiving grant funding for implementation. It is likely that some projects that are ranked high on the priority list may not be ready for construction due to lack of local match funds, permitting issues, or other reasons. State Board staff clarified that the State Board may be willing to fund lower priority projects if they are ready for construction. Several TAC members recommended considering the potential for receiving grant funding as a criteria for prioritizing projects. At least one TAC member recommended keeping the SWRP project prioritization process separate from the grant application project prioritization process.
- Look at IRWM criteria when developing the prioritization methodology.
- Confirm that the project prioritization will address Storm Water Grant Program criteria as well the SWRP Guidelines.
5. Stakeholder Outreach and Engagement Plan

Vishakha Atre (SCVURPP) provided an overview of the Stakeholder Outreach and Engagement Plan. Stakeholders will be solicited from local government and environmental organizations, and also from the District’s One Water Plan Stakeholder Work Group. The TAC reviewed the Stakeholder Outreach and Engagement Plan and provided the following feedback:

- Include the following additional potential stakeholders: school districts, water retailers, urban forestry agencies, recycled water agencies, developers, parks departments, County Vector Control District, and transit districts/Caltrans.
- Attach the list of potential stakeholders to the Stakeholder Outreach and Engagement Plan.
- Include a task for developing the Community Participation Strategy during SWRP development.
- Consider holding the public workshop at multiple locations and providing materials to SCVURPPP agencies for local outreach.
- Consider holding separate meetings with some stakeholder groups (e.g., water retailers/BAWSCA, Vector Control District, parks/open space districts)

6. SWRP Outline

Jill noted that SCVURPPP staff has prepared a draft SWRP Outline for submittal to the Grant Manager. It was e-mailed to the TAC prior to today’s meeting. Due to lack of time, the TAC could not complete discussion of the SWRP Outline and asked SCVURPPP staff to give them additional time for review and comment. The only comment received at the meeting was to include a section on Disadvantaged Communities in the SWRP Outline.

Action Items:

- SCVURPPP staff will finalize the Stakeholder Outreach and Engagement Plan to incorporate the TAC’s comments, and submit it to the Grant Manager.
- SCVURPPP staff will submit the final TAC list to the Grant Manager.
- TAC members will send comments on the draft SWRP Outline by March 31, 2017.
- District staff will determine when a presentation on the SWRP can be made as part of the District’s regular meeting with water retailers.

Next Meeting:

July/August 2017 (Date TBD)
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee (TAC)

Meeting Attendance Record
March 23, 2017, 1:30-3:30 pm

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kirsten Struve</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Sharon Newton</td>
<td>City of San José</td>
</tr>
<tr>
<td>Elaine Marshall</td>
<td>City of Sunnyvale</td>
</tr>
<tr>
<td>Kelly Carroll²</td>
<td>West Valley Clean Water Program (Cities of Campbell, Monte Sereno, and Saratoga, and Town of Los Gatos)</td>
</tr>
<tr>
<td>Neeta Bijoor</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Tracy Hemmeter</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Luisa Valiela (on phone)</td>
<td>EPA, Region 9, Water Division</td>
</tr>
<tr>
<td>Jeffrey Albrecht (on phone)</td>
<td>State Water Resources Control Board, Stormwater Planning Unit, Division of Water Quality</td>
</tr>
<tr>
<td>Keith Lichten</td>
<td>Regional Water Quality Control Board, San Francisco Bay Region</td>
</tr>
<tr>
<td>David Freyberg</td>
<td>Stanford University, Department of Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Daron Pedroja (on phone)</td>
<td>State Water Resources Control Board</td>
</tr>
<tr>
<td>Jill Bicknell</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Chris Sommers</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Vishakha Atre</td>
<td>SCVURPPP</td>
</tr>
</tbody>
</table>
Meeting Topics

- Project Background
  - Stormwater Resource Plan (SWRP) Purpose
  - Project Area Watersheds
  - Previous and Current Planning Efforts
  - District’s One Water Plan
  - Water Quantity and Water Quality Issues
- Project Approach (Scope & Schedule)
- Stakeholder Involvement
- SWRP Detailed Outline

Stormwater Resource Plan - Overview

- Prop 1 Stormwater Planning Grant
  - Awarded to District and SCVURPPP to prepare a Stormwater Resource Plan for the Santa Clara Basin in Santa Clara County
  - Total Project Budget: $940,000
    - Grant amount: ~$470,000
    - 50% match (~$470,000 in-kind + SCVURPPP tasks)
  - Start Date: February 2017
  - Completion Date: December 2018

SWRP Purpose

- Support development and implementation of Green Infrastructure (GI) Plans within the Basin
- Produce list of prioritized multi-benefit stormwater capture/treatment/use projects eligible for future State implementation grant funds
- Coordinate with District’s One Water Plan and local storm drain master plans

Stormwater Resource Plan Area

Bay Area IRWMP Regions
Cooperating Entities (SCVURPPP)

Groundwater Basins

Previous/Current Planning Efforts
- San Francisco Bay Basin Plan
- Santa Clara Basin Watershed Management Initiative
  - Watershed Characteristics Report
  - Watershed Action Plan
- SCVWD Groundwater Management Plan
- SCVWD Water Supply and Infrastructure Management Plan
- SCVWD One Water Plan
- Bay Area Integrated Regional Water Management Plan

All water is one water

Several drivers for One Water Plan
- Improve watershed conditions
- Prioritize projects and programs
- Prioritize resources
- Ease permitting
- Increase efficiency
### Water Resource Planning Elements

- Vegetation
- Wildlife
- Fisheries
- Trails
- Open Space
- Agriculture
- Flood Protection
- Water Quality
- Water Supply
- Baylands
- Climate Change

### One Water - Integrated Goals

1. **Valued and Respected Rain**
   - Manage rainwater to improve flood protection, water supply, and ecosystem health

2. **Healthful & Reliable Water**
   - Enhance the quantity and quality of water to support beneficial uses

3. **Ecologically Sustainable Streams & Watersheds**
   - Protect, enhance, and sustain healthy ecosystems and infrastructure

4. **Resilient Baylands**
   - Protect, enhance and sustain healthy and resilient baylands and infrastructure

5. **Community Collaboration**
   - Work in partnership with an engaged community to champion wise decisions on water resources

### Progress toward achieving objectives will be measured

- Resilient Habitats
- Flood Risk Reduction
- Emergency Preparedness
- Community Engagement
- Supportive Stream Flows
- Sustainable Groundwater
- Reliable Water Supply

### Preliminary countywide opportunities were ranked

- South Bay Salt Ponds Restoration Project
- Land acquisition and protection
- Stormwater resources management
- Shoreline Study
- Update "Guidelines and Standards for Land Use near Streams"

### One Water’s Tiered Approach

### Identify Opportunities to Meet Objectives
Common Threads

- Reduce trash
- Recharge groundwater
- Complete trail network
- Protect from flooding
- Improve fisheries
- Address stormwater

Water Quantity Issues

- Water resources managed by SCVWD
  - Groundwater recharge basins
  - Surface water reservoirs
- Challenges with drought and recent storms
- Urban portions of streams in poor condition
- District Plans for urban water supply, groundwater management, and water supply infrastructure address these issues

Water Quality Issues

- PCBs (TMDL)
- Mercury (TMDL)
- Pesticides (TMDL)
- Trash/Litter
- Copper
- Bacteria
- Sediment

Permit Requirements

- Municipal Regional Stormwater Permit
  - Large urban areas covered by countywide stormwater permits since 1990
  - Six countywide permits combined into Municipal Regional Permit, effective December 2009
  - Permit reissued November 2015
  - Provision C.3 contains LID and green infrastructure requirements for private and public development
  - Other provisions contain requirements for reducing pollutants of concern in stormwater

Green Infrastructure

- Systems that use vegetation, soils, and natural processes to capture and treat stormwater
- Most urban green infrastructure involves retrofitting public streets, roofs and parking lots to divert runoff to:
  - Vegetated areas
  - Pervious pavements
  - Bioretention & infiltration facilities
  - Cisterns and rain barrels
- These Low Impact Development (LID) measures supplement current requirements for LID on private projects
Green Infrastructure Requirements

- Develop a Green Infrastructure (GI) Plan
- Prioritize and map planned and potential projects
- Update related municipal plans
- Evaluate funding options
- Track progress toward pollutant reduction
- Conduct education and outreach
- Conduct “early implementation”
  - Construct planned and funded projects
  - Review public project lists and assess opportunity for incorporating GI elements

GI & Pollutants of Concern

- Link between Green Infrastructure planning and implementation and required pollutant controls
  - Control measures for certain pollutants (PCBs and mercury) include green infrastructure
  - Quantities of PCBs and mercury discharged to the Bay must be reduced to specified levels by 2040
  - GI Plans must provide reasonable assurance that specified PCB and mercury load reductions will be met (via public and private projects)

SWRP Approach

- Data Collection and Watershed Identification
- Project Identification and Prioritization
  - Define methodology for project identification and metrics for assessment of benefits
    - Water quality improvement
    - Water supply (including stormwater capture & use)
    - Flood management
    - Environmental
    - Community
  - Use GIS tools and hydrologic models to identify project opportunities and quantify benefits
  - Develop list of prioritized projects
  - Prepare conceptual designs for 5-10 projects
- Plan Development
  - Prepare draft and final Plan and implementation strategy

SWRP Approach, cont.

- SCVURPPP Tasks (match)
  - Guidance to municipalities on GI Plans
  - GI Scoping Plan and Framework Template
  - GI Education and Outreach Strategy
  - Model GI Language for Municipal Plans
  - Guidance on GI Implementation Mechanisms and Funding
  - GI Design Guidelines, Details and Specifications
  - Model GI Plan Template
  - Outreach to elected officials and municipal staff
    - Fact sheets
    - Workshops and Trainings
  - GI Webpage on Watershed Watch website
  - GI Resource Library

SWRP Schedule

SWRP Schedule, cont.
Stakeholder Outreach Plan

- **Goals**
  - Inform on SWRP process and need for GI projects
  - Obtain input on locations, types of projects
  - Obtain feedback on prioritized list of projects

- **Key Messages**
  - Stormwater as a resource
  - Need for multi-benefit GI projects
  - Local agency requirements and GI efforts
  - What is the SWRP?
  - Process for identifying and prioritizing projects

---

Stakeholder Outreach Tasks

- Task 1 - Stakeholder Group Formation
- Task 2 - Quarterly Updates
- Task 3 - Stakeholder Group Meetings (2-3)
- Task 4 - Website Development
- Task 5 - Public Workshop

---

SWRP Detailed Outline

1. Introduction
2. Identification and Description of Watershed
3. Water Quality Compliance
4. Organization, Coordination & Collaboration
5. Quantitative Methods for Analysis
6. Identification & Prioritization of Projects
7. Implementation Strategy & Schedule
8. Education, Outreach & Public Participation

---

Thank you for your participation!

Next meeting ~ July/August 2017
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee (TAC)
Meeting #2

October 3, 2017, 12:30 - 3:30 pm

Sunnyvale Civic Center, West Conference Room
456 Olive Avenue, Sunnyvale

Call-in number: 888-363-4734 / Access code: 6018708

AGENDA

MEETING OBJECTIVES:

• Receive update on SWRP deliverables
• Solicit TAC input on the methodology and metrics for identifying, evaluating and prioritizing GI projects
• Solicit TAC input on the evaluation and selection of models and tools

12:30 1. Gather/ Pick-up Lunch

12:40 2. Welcome/Introductions
   Jill Bicknell, SCVURPPP
   Brian Mendenhall, SCVWD

12:45 3. Review and Approve Revisions to the TAC Member List
   Jill Bicknell

12:50 4. Receive Update on the following SWRP Technical Memoranda:
   Jill Bicknell
   • Task 3.1 - Data Collection and Previous and Current Planning Efforts
   • Task 3.2 – Watershed Identification
   • Task 4.3 – Description of Approach Addressing Water Quality

1:10 5. Proposed Methodology and Metrics for Identifying, Evaluating and Prioritizing GI Projects
   Steve Carter, Paradigm Environmental

1:50 6. TAC Input on Proposed Methodology and Metrics
   All

2:10 7. Evaluation and Selection of Appropriate Models and Tools for the SWRP
   Steve Carter

2: 50 8. TAC Input on Selected Models and Tools
   All

   Jill Bicknell

3:20 10. Stakeholder Outreach Meeting – October 4
   Vishakha Atre, SCVURPPP

3:25 11. Review Action Items
   Jill Bicknell
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee (TAC)
Meeting #2

October 3, 2017, 12:30-3:30 pm
Sunnyvale Civic Center, West Conference Room
456 Olive Avenue, Sunnyvale

MEETING SUMMARY

Participants – Attendance list attached.

1. Welcome/Introductions
   Attendees introduced themselves. Jill Bicknell (SCVURPPP) informed attendees that the purpose of today’s meeting is to solicit TAC input on the methodology and metrics for identifying, evaluating and prioritizing GI projects, and the evaluation and selection of models and tools.

2. Review and Approve Revisions to the TAC Member List
   Jill provided an overview of changes to the TAC list. One TAC member is no longer available, and a replacement has been added. Several TAC members have identified alternates, and these have been added to the TAC Member List. Attendees reviewed and approved revisions to the TAC list. The approved list will be submitted to the Grant Manager.

3. Update on SWRP Technical Memoranda
   Jill informed the MC that SCVURPPP staff has developed three technical memoranda that are specific grant deliverables. The contents of these memoranda will be included in chapters of the SWRP.
   Attendees provided the following feedback:
   • Memo on Task 3.1 - Data Collection and Previous and Current Planning Efforts
     o Consider including data from CDC’s Social Vulnerability Index to evaluate community enhancement benefits.
     o Review the land use imperviousness data from Alameda County, to determine whether it would be useful for the SWRP analyses.
   • Memo on Task 3.2 – Watershed Identification
     o The TAC discussed whether projects in Morgan Hill should be included in the SWRP, and recommended not including them since the majority of Morgan Hill is not within the Santa Clara Basin and Morgan Hill is not a part of SCVURPPP.
   • Memo on Task 4.3 – Description of Approach Addressing Water Quality
     o Include discussion of emerging issues: e.g., temperature and in-stream flows.
     o Describe the linkage with climate change and GI planning.
4. Proposed Methodology and Metrics for Identifying, Evaluating and Prioritizing GI Projects

Steve Carter (Paradigm) gave a presentation on the proposed methodology and metrics for identifying, evaluating and prioritizing GI projects. The TAC provided the following feedback:

- **Screening Criteria:**
  - Add Caltrans and other State Land including State Parks to the list of public parcels.
  - Consider including parcels with protected status as many have potential for implementing GI projects. Jill said that if the screening process does not identify protected areas as potential locations, an agency that has projects located in these areas can submit them for evaluation.
  - Increase the speed criteria on road segments to $\leq 45 \text{ MPH}$.

- **Prioritization Metrics/Methodology:**
  - Consider potential of a project to obtain grant funding or project “readiness.” Jill clarified (with concurrence from Jeffrey Albrecht, State Water Board) that the numeric ranking of the project on the priority list will not impact its potential to obtain grant funding; however, a higher ranking project is more likely to have the multiple benefits and other characteristics that will best fit the criteria of the grant application.
  - Consider adding known groundwater contaminant plume areas as a GIS layer to identify areas with higher risk to groundwater from stormwater infiltration projects. If a project is above a groundwater basin, more analysis of impact on groundwater will be required in later phases.
  - Change current metric: “Currently planned by City or co-located with other City Project” to: “Co-located with other agency project.”
  - Consider providing more points or different metrics for the multiple benefits listed at the bottom of the table since these are mandated by the SWRP Guidelines. The point was made that all GI projects have these benefits to some degree, but there may be a way to differentiate among levels of benefits.
  - Consider assigning a negative score for projects that do not provide multiple benefits.
  - Include the metric “Proximity to flood-prone urban areas” along with existing “Proximity to flood-prone channels.”
  - Add a metric for projects within a disadvantaged community.
  - Break “community enhancement” into metrics that differentiate between spaces created for people (walking trails, parks, etc.) and spaces created solely for the purpose of green infrastructure. Add a metric for public education value.
  - Consider adding the SCVURPPP hydromodification management (HM) applicability map as an overlay to show areas where GI may provide HM benefits.
  - Consider allocating more points for larger streets, i.e., prioritize collectors and arterials over local roads and alleys.

Jill asked TAC members to submit their comments on the methodology by October 17. A brief conference call will be scheduled to discuss and confirm changes.
3. Evaluation and Selection of Appropriate Models and Tools for the SWRP

Steve Carter provided an overview of the models being evaluated for the SWRP. The selected model will also be used for the Reasonable Assurance Analysis (RAA). Paradigm evaluated the following models and tools: SWMM, SBPAT, SUSTAIN, GreenPlan-IT (Site Locator Tool), and HSPF/LSPC. It is recommended that a combination of HSPF/LSPC and SUSTAIN be used to support the modeling analyses for the SWRP, as well as the use of the GreenPlan-IT Site Locator Tool to verify the GIS screening analysis.

4. Process for Submitting Potential Projects

The TAC reviewed the draft table that will be used to collect information on potential projects. TAC members recommended making the data collection fields similar to those used for collecting information on potential GI projects for the MRP Annual Report. The project team will rethink the table and the collection process and then will send out a request for project information.

5. Stakeholder Outreach

Vishakha Atre (SCVURPPP) updated the TAC on the stakeholder group participants. A number of local community, environmental, and business groups, as well as government agencies, have indicated that they will participate on the stakeholder group. The first stakeholder meeting will be held tomorrow from 9:30 am – 12:00 noon at the Water District.

Action Items:

- SCVURPPP staff will send today’s presentation and the table for submitting potential projects to the TAC.
- TAC members will provide comments on the methodology by October 17.
- SCVURPPP staff will schedule a call to finalize the methodology.

Next Meeting: TBD
### Santa Clara Basin Stormwater Resource Plan
#### Technical Advisory Committee (TAC)

#### Meeting Attendance Record
October 3, 2017, 12:30-3:30 pm

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aida Fairman</td>
<td>City of Los Altos</td>
</tr>
<tr>
<td>Alex Wykoff</td>
<td>City of Cupertino</td>
</tr>
<tr>
<td>Brian Mendenhall</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Cheri Donnelly</td>
<td>City of Cupertino</td>
</tr>
<tr>
<td>Chris Lamm (on phone)</td>
<td>City of Los Altos</td>
</tr>
<tr>
<td>David Freyberg</td>
<td>Stanford University, Department of Civil and Environmental Engineering</td>
</tr>
<tr>
<td>Janny Choy</td>
<td>City of Sunnyvale</td>
</tr>
<tr>
<td>Jeff Sinclair</td>
<td>City of San José</td>
</tr>
<tr>
<td>Jeffrey Albrecht</td>
<td>SWRCB, Stormwater Planning Unit, Division of Water Quality</td>
</tr>
<tr>
<td>Jill Bicknell</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Jocelyn Walker</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Keith Lichten</td>
<td>RWQCB, San Francisco Bay Region</td>
</tr>
<tr>
<td>Kirsten Struve</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Luisa Valiela</td>
<td>EPA, Region 9, Water Division</td>
</tr>
<tr>
<td>Melody Tovar</td>
<td>City of Sunnyvale</td>
</tr>
<tr>
<td>Neeta Bijoor (on phone)</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Pamela Boyle Rodriguez</td>
<td>City of Palo Alto</td>
</tr>
<tr>
<td>Sharon Newton</td>
<td>City of San José</td>
</tr>
<tr>
<td>Steve Carter</td>
<td>Paradigm Environmental</td>
</tr>
<tr>
<td>Vishakha Atre</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Chris Carandang</td>
<td>Paradigm Environmental</td>
</tr>
</tbody>
</table>
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee
Meeting #2
October 3, 2017

Santa Clara Basin Stormwater Resource Plan
Organizational Structure

SWRP Technical Memoranda Completed to Date
- Task 3.1 – Data Collection and Previous and Current Planning Efforts
- Task 3.2 – Watershed Identification
- Task 4.3 – Description of Approach Addressing Water Quality
- Task 4.4 – Metric and Methodologies for Identifying and Prioritizing GI Projects, and Evaluation and Selection of Appropriate Models and Tools for the SWRP

Data and Resources for SWRP Development
- Previous and Current Planning Efforts
  - Regional Plans – RWQCB SF Bay Basin Plan, Bay Area IRWMP
  - Santa Clara Basin Watershed Management Initiative Plans
  - Santa Clara Valley Water District
    - One Water Plan
      - Resource management, infrastructure and operations plans
  - Local Watershed Plans
    - Storm Drain Master Plans
    - San Francisquito Creek
    - Green Infrastructure Plans

One Water: An Integrated Water Resources Master Plan

One Water - Integrated Goals
- A. Valved and Resistant Rain
  - Manage rainwater to improve flood protection, water supply, and ecosystem health
- B. Healthy & Reliable Water
  - Enhance the quantity and quality of water to support beneficial uses
- C. Ecologically Sustainable Streams & Watersheds
  - Protect, enhance, and sustain healthy and resilient stream ecosystems
- D. Resilient Baylands
  - Protect, enhance, and sustain healthy and resilient baylands ecosystems and infrastructure
- E. Community Collaboration
  - Work in partnership with an engaged community to champion wise decisions on water resources
Data for SWRP Development

- All data and GIS layers collected and ready for analysis

Watershed Characterization Memo

- Provides SWRP planning area description, map and justification of planning area boundaries
- Describes relationship of watershed to other regional planning efforts
- Describes the subwatersheds for One Water planning as well as individual creek watersheds

Stormwater Resource Plan Area and “One Water” Subwatersheds

Santa Clara Basin Subwatersheds

Bay Area IRWMP Regions

Water Quality Approach Memo

- Describes approach to address water quality requirements in the Water Quality Compliance section of the SWRP
  - Activities generating or contributing to polluted runoff or that impair beneficial use of storm water and dry weather runoff
  - Strategies in which the SWRP will be used to address the pollutant runoff or sources
  - How the SWRP will be consistent with and help to implement applicable regulatory permits, TMDLs, and other relevant water quality requirements
Water Quality Issues

- PCBs (TMDL)
- Mercury (TMDL)
- Pesticides (TMDL)
- Trash/Litter
- Copper
- Bacteria
- Sediment

SWRP will:
- Identify projects that remove pollutants from stormwater
- Include analysis of water quality metrics to prioritize projects
- Support development of GI Plans to achieve load reduction goals

Project Types

- Regional Projects
- Green Streets
- Low Impact Development

Identify and Prioritize Stormwater and GI Projects

- Process tailored to SCVURPPP member agency and stakeholder preferences
- GIS screening of public parcels and rights-of-way
- Prioritization based on:
  - Maximum effectiveness for stormwater capture
  - Multiple benefits (groundwater recharge, reuse, enhancement of habitat or open space)

Physical Characteristics

- Parcel land use
  - Screen public parcels
  - Prioritize land uses suitable for each project type

- Impervious area
  - High impervious area is correlated to large runoff potential
  - Priority given to sites with high imperviousness
Physical Characteristics

Hydrologic Soil Group
Grouped based on drainage characteristics of soils
- Group A represents well-drained soils
- Group D represents poorly-drained soils.

Physical Characteristics

Slope
- Mild slopes are more feasible for stormwater capture
- Steep slopes present difficulties with implementation & performance

Screening of Parcels

<table>
<thead>
<tr>
<th>Screening Factor</th>
<th>Parcel Characteristic</th>
<th>Criteria</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ownership</td>
<td>County, City, Town, SCVWD, Open Space Organizations</td>
<td>Identify all public parcels for regional storm and dry weather runoff capture projects or onsite LID retrofits</td>
<td></td>
</tr>
<tr>
<td>Land Use</td>
<td>Park, School, Other (e.g., Golf Course)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected Status</td>
<td>Not classified as &quot;protected&quot; in CPAD Database</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suitability</td>
<td>Parcel Size &gt; 0.25 acres</td>
<td>Adequate space for regional stormwater and dry weather runoff capture project</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parcel Size &lt; 0.25 acres</td>
<td>Opportunity for onsite GI retrofit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Site Slope &lt; 10%</td>
<td>Steeper grades present additional design challenges</td>
<td></td>
</tr>
</tbody>
</table>

Screening of Rights-of-Way

<table>
<thead>
<tr>
<th>Screening Factor</th>
<th>Street Section Characteristic</th>
<th>Criteria</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection</td>
<td>Ownership</td>
<td>Public</td>
<td>Potential projects are focused on public and right-of-way opportunities</td>
</tr>
<tr>
<td>Classification</td>
<td>Local Roads</td>
<td>Focus on lower speed, lower traffic, neighborhood. Excludes arterial roads, highways, and ramps</td>
<td></td>
</tr>
<tr>
<td>Suitability</td>
<td>Surface</td>
<td>Paved</td>
<td>Only roads with paved surfaces will be considered suitable. Dirt roads will be removed</td>
</tr>
<tr>
<td></td>
<td>Slope</td>
<td>&lt; 5%</td>
<td>Steep grades present additional design challenges. Reduce capture opportunity due to increased runoff velocity</td>
</tr>
<tr>
<td></td>
<td>Speed</td>
<td>&lt;= 35mph</td>
<td>Lower speed roads</td>
</tr>
</tbody>
</table>

Prioritization Methodology

- Points assigned based on a variety of metrics for each site
- Metrics as proxies for GI effectiveness
- Sum of points determines rank among list of screened opportunities

Examples of Metrics Considered:
- Imperviousness (runoff-generating capability)
- Site Area (enough land available to locate a project)
- Hydrologic Soil Group (can the site infiltrate captured runoff?)
- Proximity to Hot Spot Areas (POIs, Flood-prone watersheds)
- Ancillary Benefits (water supply, community enhancement, etc.)
### Prioritization Metrics for LID Retrofit Projects

<table>
<thead>
<tr>
<th>Metric</th>
<th>Street Type</th>
<th>Imperviousness (%)</th>
<th>Hydrologic Soil Group</th>
<th>Slope (%)</th>
<th>Proximity to Flood-prone Channels (miles)</th>
<th>Contains PCB Interest Areas</th>
<th>Within Priority Development Area</th>
<th>Currently planned to be used by City project</th>
<th>Above groundwater basin</th>
<th>Augments water supply</th>
<th>Water quality source control</th>
<th>Reestablishes natural hydrology</th>
<th>Creates or enhances habitat</th>
<th>Community enhancement</th>
<th>Points</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parcel Land Use</td>
<td>Highway</td>
<td>X &lt; 40</td>
<td>D</td>
<td>X &lt; 10</td>
<td>Not in sub-basin</td>
<td>None</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Land Use</td>
<td>Arterial</td>
<td>40 ≤ X &lt; 50</td>
<td>C</td>
<td>10 ≤ X &lt; 20</td>
<td>1 &lt; X ≤ 3</td>
<td>Moderate</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Impact on Open Space</td>
<td>Collector</td>
<td>X &lt; 60</td>
<td>B</td>
<td>20 ≤ X &lt; 30</td>
<td>3 ≤ X ≤ 6</td>
<td>High</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>Local</td>
<td>X &lt; 70</td>
<td>A</td>
<td>X ≥ 30</td>
<td>X &gt; 6</td>
<td>Moderate</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Public Buildings</td>
<td>--</td>
<td>X &lt; 80</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

### Prioritization Metrics for Green Street Projects

<table>
<thead>
<tr>
<th>Metric</th>
<th>Regional LID</th>
<th>LID</th>
<th>Green Street</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Results from Prioritization Method</td>
<td><img src="image1.png" alt="Map Example" /></td>
<td><img src="image2.png" alt="Map Example" /></td>
<td><img src="image3.png" alt="Map Example" /></td>
</tr>
</tbody>
</table>

### Evaluation of Models and Tools to Support the SWRP

- Tools for GIS screening to identify project opportunities
- Modeling of project benefits
  - Pollutant load reduction
  - Stormwater capture

### GreenPlan-IT GIS-Based Site Locator Tool

- Combines physical properties of GI types with watershed GIS information to identify GI project opportunities
- Use to verify GIS screening analysis to identify GI project opportunities

### Questions?
Modeling of Project Benefits

SWRP Guidelines prepared by the State Water Resources Control Board

- Water Quality Projects Analysis – Projects should be modeled to estimate the watershed-wide pollutant load reductions to address all applicable TMDLs.
- Stormwater Capture and Use Project Analysis – Projects should be modeled to estimate the amount of stormwater capture and use.

Reasonable Assurance Analysis

- Permittees shall prepare a reasonable assurance analysis that demonstrates how green infrastructure will be implemented in order to achieve a PCBs load reduction of 3 kg/yr across the permit-area by 2040 (C.12.c.(ii)(2)).
- Permittees shall prepare a plan and schedule for PCBs control measure implementation and reasonable assurance analysis demonstrating that sufficient control measures will be implemented to attain the PCBs TMDL wasteload allocations by 2030 (C.12.d.i).

San Francisco Bay PCBs TMDL

Water and Sediment Quality

- Sediment Target: 1 ug/kg
- Wasteload Allocation: 1 ug/kg, 2 million tons sediment/yr = 2 kg/yr
- Existing Load: 20 kg/yr, 90% load reduction

Provisions C.12.c
- 120 kg/yr reduction during 2020-2022
- 5 kg/yr reductions by 2030
- Reporting of progress by 2020, 2030, and 2040

RAA Guidance

Overview of Candidate Models

- Storm Water Management Model (SWMM)
- Structural BMP Prioritization and Analysis Tool (SBPAT)
- System for Urban Stormwater Treatment and Analysis Integration (SUSTAIN)
- GreenPlan IT Modeling and Optimization Tools
- Hydrologic Simulation Program FORTRAN (HSPF) and the Loading Simulation Program C++ (LSPC)
**SWMM**
- Released by EPA as public domain tool (proprietary versions available with varying interfaces and processes)
- Single event or long-term continuous simulation of runoff and pollutant loading
- LID Module for simulation of BMP processes in tandem with conventional stormwater infrastructure

**SBPAT**
- Public domain, GIS-based water quality analysis tool
  - Selecting and siting BMPs
  - Quantifying pollutant reduction
- Utilizes SWMM for simulation of hydrology and pollutant loading (based on assumed land use EMCs)
- BMP pollutant reductions based on efficiencies reported in International BMP Database (ASCE and EPA)

**SUSTAIN**
- Released by EPA as public domain tool
- Provides linkages to separate models for simulating runoff and pollutant loading
- Includes processes for:
  - Process-based BMP simulation
  - Cost-optimization

**GreenPlan-IT Modeling Tool**
- Developed by the San Francisco Estuary Institute
- Includes processes from:
  - SWMM – Runoff simulation
  - SUSTAIN – GI processes
- Linkage to a cost-optimization tool
- Pilot applications for select areas of Sunnyvale and San Jose

**HSPF/LSPC**
- Public domain model available from EPA and others
- Process-based simulation of hydrology and pollutant loading
  - Surface runoff
  - Subsurface baseflow
- HSPF model currently configured and calibrated for the Guadalupe River watershed
Evaluation of Models to Support the SWRP (and RAA)

<table>
<thead>
<tr>
<th>Purpose</th>
<th>SWMM</th>
<th>SBPAT</th>
<th>SUSTAIN</th>
<th>GreenPlan-IT</th>
<th>HSPF/LSPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>●</td>
<td>●</td>
<td>□</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>Water Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wet-weather</td>
<td>●</td>
<td>□</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>Dry-weather</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Step 3</td>
<td>●</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>Water Quantity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water Quantity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wet-weather</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>Dry-weather</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Step 4</td>
<td>●</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>Volume Control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Load Reduction</td>
<td>●</td>
<td>□</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Key Factors Considered in Selecting Models to Support the SWRP (and RAA)

<table>
<thead>
<tr>
<th>Key Factors Addressed</th>
<th>SWMM</th>
<th>SBPAT</th>
<th>SUSTAIN</th>
<th>GreenPlan-IT</th>
<th>HSPF/LSPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost-effectively address all water-related needs to support the RAA</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Capabilities to accurately simulate the transport of sediment and associated loads of mercury</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>REVISED TRANSPORT PATHS TO SUPPORT RAA: Candidate Agency staff for future operation</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>REVISED TRANSPORT PATHS TO SUPPORT RAA: Consideration of planning and implementation</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Summary of Selected Models and Tools to Support the SWRP

<table>
<thead>
<tr>
<th>Model/Tool</th>
<th>GIS Screening of Project Opportunities</th>
<th>Water Quality Projects Analysis</th>
<th>Stormwater Capture and Use Project Analysis</th>
<th>GIS Based Site Locator Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRP Analyses Supported</td>
<td>●</td>
<td>□</td>
<td>□</td>
<td>●</td>
</tr>
<tr>
<td>RAA Step Supported</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 2</td>
<td>Characterization of Existing Conditions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 3</td>
<td>Determination of Stormwater Improvement Goals</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 4</td>
<td>Demonstration that Management Actions Will Result in Attainment of Goals</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Canoas Creek Watershed

Green Infrastructure Modeling - SUSTAIN
Green Infrastructure Modeling - SUSTAIN

Simulates effectiveness of projects during varying storm sizes and conditions

Next Steps

• Review/comment:
  • Metrics and Methodologies for Identifying and Prioritizing GI projects
  • Evaluation and Selection of Appropriate Models and Tools for the SWRP

• Obtain input on planned projects that can be co-located with projects (or included as projects) in the SWRP
• Begin the process!
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee (TAC)
Meeting #3

February 28, 2018, 12:00 – 3:00 PM
Santa Clara County Vector Control District, Training Room
1580 Berger Drive, San Jose

Call-in number: 1-888-808-6929; Access Code: 7856612
Link to web viewer: http://gis.paradigmh2o.com/maps/SCVURPPPWebViewer
Username: guest    Password: iH5e3T

AGENDA

MEETING OBJECTIVES:
• Receive update on SWRP tasks, project identification and prioritization process, and web viewer tool.
• Solicit TAC input on project identification and prioritization.
• Solicit TAC and agency input on conceptual design project selection.

12:00 1. Gather/ Pick-up Lunch

12:10 2. Welcome / Introductions / Changes to Agenda
Jill Bicknell, SCVURPPP

12:15 3. Update on SWRP Task Activity
Jill Bicknell
• Update on activity during Nov. 2017-Feb. 2018
• Summary of deliverables submitted and in progress

12:25 4. Project Identification and Prioritization:
Steve Carter/Chris Carandang, Paradigm Environmental
• Initial screening and scoring results
• Incorporation of stakeholder projects
• Revised scoring based on SCVURPPP agency input and addition of weighting factors
• Review of results on web-based maps
• Discussion of results / TAC input

1:45 5. Project Selection for Conceptual Design and Quantification of Benefits
Steve Carter

2:00 6. TAC and SCVURPPP Agency Input on Conceptual Design Project Selection
All

2:40 7. Next Steps
Jill Bicknell

2:50 8. Review Action Items
Jill Bicknell

3:00 9. Adjourn
Participants – Attendance list attached.

1. Welcome/Introductions/Changes to the Agenda
   Attendees introduced themselves. Jill explained that the objectives of the meeting are to: 1) receive update on SWRP tasks, project identification and prioritization process, and web viewer tool; 2) solicit TAC input on project identification and prioritization; and 3) solicit TAC and agency input on conceptual design project selection. There were no changes to the agenda.

2. Update on SWRP Task Activity
   Jill Bicknell (SCVURPPP) updated attendees on the status of Stormwater Resource Plan tasks, role of participating agencies, and upcoming deliverables. (See slides 2–5 in attached presentation.)

3. Project Identification and Prioritization:
   Steve Carter and Chris Carandang (Paradigm) gave a presentation on the initial screening and scoring results, and explained how scoring was revised based on SCVURPPP agency input and the rationale for addition of weighting factors. Based on agency input, a weighting factor of two was added to each of the following metrics:
   - Percent impervious area draining to the project
   - Location near PCB interest areas
   - Augments water supply (based on location near groundwater recharge area and away from groundwater contamination areas)

   Steve and Chris also presented the web-based tool for viewing prioritized project locations. TAC members provided the following feedback:
   - The term “prioritized project” on the slides is confusing. These are really only project opportunities. Consider using the term “potential green street segments”.
   - Consider creating a separate list of Santa Clara Valley Water District projects, and breaking it down by jurisdiction.
   - Since there is a weighting factor for water supply, it appears that jurisdictions that are not above groundwater aquifers are being penalized. Steve clarified that the scoring is relative and such jurisdictions may benefit from the weighting factor for percent impervious area draining to the
project. In addition, the top 10% of potential green street projects for each jurisdiction will be included in the SWRP.

Based on questions from the TAC, Steve, Chris, and Jill provided the following clarifications:

- Street segments were identified from the TIGER database. Each street block is listed as a potential project. Jurisdictions can combine multiple street segments and associated parcels into one project when identifying a conceptual project for applying for grants.
- The APN numbers surrounding a potential project do not need to be identified and listed in the SWRP list of prioritized projects in order to apply for a grant.
- Co-permittees will need to overlay the prioritized project opportunity lists generated during the SWRP process with local priorities to identify projects for the Green Infrastructure Plans.
- SCVURPPP staff will determine when and what information from the RAA process will be available to inform the GI Plans, since the timeline for completing the RAA is one year after the GI Plans are due. Keith Lichten (Water Board) noted that GI Plans should include a mechanism for future updates.
- Jill asked the TAC if they had any comments or concerns with the project identification and prioritization process, and the TAC members in attendance had no concerns.

4. Project Selection for Conceptual Design and Quantification of Benefits

Steve informed the TAC that Paradigm would like to develop conceptual designs and conduct the hydrologic modeling to quantify project benefits (stormwater volumes captured and pollutant loads reduced) for at least one prioritized project per SCVURPPP Co-permittee (as budget allows). He provided an overview of the conceptual project designs developed as part of the San Mateo SWRP. Paradigm will develop a spreadsheet for Co-permittees to submit 1-3 project ideas, based on the project opportunities identified in the SWRP project database. The spreadsheet will describe the additional project information (e.g., drainage area) that Paradigm needs to develop conceptual designs. Paradigm will conduct field reconnaissance of submitted project ideas before selecting the final projects for which the conceptual designs will be developed.

Chris provided some tips for identifying projects (see slide 31 of the attached presentation). He encouraged municipalities to identify potential multi-jurisdictional regional projects for developing conceptual design. He noted that one of the projects identified in San Mateo was a regional project that served three jurisdictions (Town of Atherton, Town of Woodside, and City of Menlo Park). It received 100% funding from Caltrans. He also recommended considering parks with proximity to storm drain systems for regional projects.

Cheri Donnelly (Cupertino) provided an overview of a project idea that Cupertino will likely submit (Mary Avenue at Stevens Creek/280). The street has a very wide right-of-way near its termination at Highway 280 and they are considering a linear park concept.

Some TAC members asked for guidance on coordinating project implementation with Caltrans and other agencies. Steve explained the incentives and funding opportunities available with Caltrans.

Jill noted that project ideas are due by March 16. Several Co-permittees requested that SCVURPPP staff organize a meeting to help Co-permittees identify projects and to facilitate inter-agency coordination.
Next Steps/Action Items:

- Paradigm will develop a spreadsheet for collecting project ideas from SCVURPPP agencies. SCVURPPP staff will send it out with instructions.
- SCVURPPP staff will organize a meeting to provide additional guidance to SCVURPPP agencies on submitting project ideas, if needed. SCVURPPP staff and Paradigm will also be available for phone consultation with individual agencies.
- SCVURPPP staff will provide more information to SCVURPPP agencies on the relationship between the SWRP, the GI Plans, and the RAA.

Next Meeting: TBD
Santa Clara Basin Stormwater Resource Plan  
Technical Advisory Committee (TAC)  
Meeting Attendance Record  
February 28, 2018, 12:00-3:00 pm

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alex Wykoff</td>
<td>City of Cupertino</td>
</tr>
<tr>
<td>Brian Mendenhall (on phone)</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Cheri Donnelly</td>
<td>City of Cupertino</td>
</tr>
<tr>
<td>Chris Carandang</td>
<td>Paradigm Environmental</td>
</tr>
<tr>
<td>David Freyberg (on phone)</td>
<td>Stanford University</td>
</tr>
<tr>
<td>Elaine Marshall</td>
<td>City of Sunnyvale</td>
</tr>
<tr>
<td>Harish Bagha (on phone)</td>
<td>State Water Resources Control Board</td>
</tr>
<tr>
<td>Janny Choy</td>
<td>City of Sunnyvale</td>
</tr>
<tr>
<td>Jeff Sinclair</td>
<td>City of San José</td>
</tr>
<tr>
<td>Jeffrey Albrecht (on phone)</td>
<td>SWRCB, Stormwater Planning Unit, Division of Water Quality</td>
</tr>
<tr>
<td>Jill Bicknell</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Jocelyn Walker</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Julianna Martin</td>
<td>County of Santa Clara</td>
</tr>
<tr>
<td>Keith Lichten (on phone)</td>
<td>RWQCB, San Francisco Bay Region</td>
</tr>
<tr>
<td>Kirsten Struve</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Neeta Bijoor</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Pamela Boyle Rodriguez</td>
<td>City of Palo Alto</td>
</tr>
<tr>
<td>Steve Carter</td>
<td>Paradigm Environmental</td>
</tr>
<tr>
<td>Vanessa Marcadejas</td>
<td>County of Santa Clara</td>
</tr>
<tr>
<td>Vishakha Atre</td>
<td>SCVURPPP</td>
</tr>
</tbody>
</table>
### SWRP Task Activity (10/17-2/18)

- Task 6.1.2 - Stakeholder Meeting #1 on October 4, 2017
- Task 4.4 – Metrics, Methodologies, Models and Tools
  - Held TAC and SCVURPPP agency conference call to discuss comments
  - Addressed comments and finalized memo
- Task 4.5.1 - Analysis, Prioritization Process, and Project Selection
  - Completed assembly of GIS datasets for identifying project opportunities
  - Obtained potential projects from SCVURPPP agencies and stakeholders
  - Conducted GIS screening and prioritization analysis (metrics scoring)
  - Provided initial results to SCVURPPP agencies and incorporated comments
- Task 4.7 – Began preparing chapters of the SWRP

### Update on SWRP Deliverables

<table>
<thead>
<tr>
<th>Task</th>
<th>SWRP Deliverable</th>
<th>Submittal Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Data Collection and Previous and Current Planning Efforts</td>
<td>October 2017</td>
</tr>
<tr>
<td>3.2</td>
<td>Watershed Identification (Planning Area Boundaries)</td>
<td>October 2017</td>
</tr>
<tr>
<td>4.3</td>
<td>Description of Approach Addressing Water Quality</td>
<td>October 2017</td>
</tr>
<tr>
<td>4.4</td>
<td>Metric and Methodologies for Identifying and Prioritizing GI Projects, and Evaluation and Selection of Appropriate Models and Tools for the SWRP</td>
<td>December 2017</td>
</tr>
<tr>
<td>5.2.2</td>
<td>Green Infrastructure Plan Template</td>
<td>December 2017</td>
</tr>
<tr>
<td>5.3</td>
<td>Green Stormwater Infrastructure Handbook – Part 1 (Final Draft) and Part 2 (Draft)</td>
<td>February 2018</td>
</tr>
<tr>
<td>A-5(c)</td>
<td>Annual Progress Summary</td>
<td>November 2017</td>
</tr>
</tbody>
</table>

### Upcoming SWRP Deliverables

<table>
<thead>
<tr>
<th>Task</th>
<th>SWRP Deliverable</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.2</td>
<td>Stakeholder Meeting #2 (Date TBD)</td>
<td>March/April 2018</td>
</tr>
<tr>
<td>4.6.3</td>
<td>SWRP Implementation Strategy Memo</td>
<td>April 2018</td>
</tr>
<tr>
<td>4.7</td>
<td>Administrative Draft SWRP</td>
<td>May 1, 2018</td>
</tr>
<tr>
<td>5.4</td>
<td>Project Conceptual Designs</td>
<td>May 2018</td>
</tr>
<tr>
<td>4.8</td>
<td>Public Draft SWRP</td>
<td>July 2018</td>
</tr>
<tr>
<td>6.3</td>
<td>SWRP Webpage</td>
<td>July 2018</td>
</tr>
</tbody>
</table>

### Review of the Screening and Scoring Process
## Parcel Screening

### Screening Factor

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Parcels</td>
<td>Parcel Size &gt; 0.25 acres = Regional/LID, &lt; 0.25 acres = LID only</td>
</tr>
<tr>
<td>Site Slope</td>
<td>&lt; 10%</td>
</tr>
</tbody>
</table>

### Parcel Screening Factor Criteria

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Parcel Size</th>
<th>Site Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Parcels</td>
<td>&gt; 0.25 acres</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td></td>
<td>&lt; 0.25 acres</td>
<td></td>
</tr>
</tbody>
</table>

## Street Screening

### Screening Factor

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Surface</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Paved</td>
<td>≤ 40mph</td>
</tr>
</tbody>
</table>

### Street Screening Factor Criteria

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Surface</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Paved</td>
<td>≤ 40mph</td>
</tr>
</tbody>
</table>

## Prioritization Metrics for Regional Projects

### Metric Points Weight

<table>
<thead>
<tr>
<th>Metric</th>
<th>Points</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parcel Land Use Schools/Golf Courses Public Buildings Parking Lot Park / Open Space</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

### Impervious Area (%)

<table>
<thead>
<tr>
<th>X &lt; 40</th>
<th>40 ≤ X &lt; 50</th>
<th>50 ≤ X &lt; 60</th>
<th>60 ≤ X &lt; 70</th>
<th>70 ≤ X &lt; 80</th>
<th>80 ≤ X &lt; 100</th>
</tr>
</thead>
</table>

### Hydrologic Soil Group

<table>
<thead>
<tr>
<th>C/D</th>
<th>B</th>
<th>A</th>
<th>--</th>
</tr>
</thead>
</table>

### Slope (%)

<table>
<thead>
<tr>
<th>X &gt; 10</th>
<th>X &gt; 5</th>
<th>5 ≤ X &gt; 3</th>
<th>3 ≤ X &gt; 2</th>
<th>2 ≤ X &gt; 1</th>
<th>1 ≤ X</th>
</tr>
</thead>
</table>

### Proximity to Storm Drain (feet)

<table>
<thead>
<tr>
<th>X &gt; 1,000</th>
<th>1,000 ≤ X &gt; 500</th>
<th>500 ≤ X &gt; 200</th>
<th>200 ≤ X</th>
</tr>
</thead>
</table>

### Contains PCB Interest Areas

<table>
<thead>
<tr>
<th>None</th>
<th>Moderate</th>
<th>High</th>
<th>2</th>
</tr>
</thead>
</table>

### Within Priority Development Area

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Co-located with another agency project

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Augments water supply

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Augments water supply

<table>
<thead>
<tr>
<th>Yes</th>
<th>Opportunity for capture and reuse Above groundwater recharge area and not above groundwater contamination area</th>
<th>2</th>
</tr>
</thead>
</table>

### Water quality source control

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Reestablishes natural hydrology

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Creates or enhances habitat

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Community enhancement

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>Opportunities for other enhancements</th>
</tr>
</thead>
</table>

## Prioritization Metrics for LID Projects

### Metric Points Weight

<table>
<thead>
<tr>
<th>Metric</th>
<th>Points</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parcel Land Use Schools/Golf Courses Public Buildings Parking Lots</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

### Impervious Area (%)

<table>
<thead>
<tr>
<th>X &lt; 40</th>
<th>40 ≤ X &lt; 50</th>
<th>50 ≤ X &lt; 60</th>
<th>60 ≤ X &lt; 70</th>
<th>70 ≤ X &lt; 80</th>
<th>80 ≤ X &lt; 100</th>
</tr>
</thead>
</table>

### Hydrologic Soil Group

<table>
<thead>
<tr>
<th>C/D</th>
<th>B</th>
<th>A</th>
<th>--</th>
</tr>
</thead>
</table>

### Slope (%)

<table>
<thead>
<tr>
<th>X &gt; 10</th>
<th>X &gt; 5</th>
<th>5 ≤ X &gt; 3</th>
<th>3 ≤ X &gt; 2</th>
<th>2 ≤ X &gt; 1</th>
<th>1 ≤ X</th>
</tr>
</thead>
</table>

### Proximity to Storm Drain (feet)

<table>
<thead>
<tr>
<th>X &gt; 1,000</th>
<th>1,000 ≤ X &gt; 500</th>
<th>500 ≤ X &gt; 200</th>
<th>200 ≤ X</th>
</tr>
</thead>
</table>

### Contains PCB Interest Areas

<table>
<thead>
<tr>
<th>None</th>
<th>Moderate</th>
<th>High</th>
<th>2</th>
</tr>
</thead>
</table>

### Within Priority Development Area

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Co-located with another agency project

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Augments water supply

<table>
<thead>
<tr>
<th>Yes</th>
<th>Opportunity for capture and reuse Above groundwater recharge area and not above groundwater contamination area</th>
<th>2</th>
</tr>
</thead>
</table>

### Water quality source control

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Reestablishes natural hydrology

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Creates or enhances habitat

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Community enhancement

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>Opportunities for other enhancements</th>
</tr>
</thead>
</table>

## Prioritization Metrics for Green Street Projects

### Metric Points Weight

<table>
<thead>
<tr>
<th>Metric</th>
<th>Points</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imperviousness (%)</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

### Hydrologic Soil Group

<table>
<thead>
<tr>
<th>C/D</th>
<th>B</th>
<th>A</th>
<th>--</th>
</tr>
</thead>
</table>

### Slope (%)

<table>
<thead>
<tr>
<th>X &gt; 10</th>
<th>X &gt; 5</th>
<th>5 ≤ X &gt; 3</th>
<th>3 ≤ X &gt; 2</th>
<th>2 ≤ X &gt; 1</th>
<th>1 ≤ X</th>
</tr>
</thead>
</table>

### Proximity to Storm Drain (feet)

<table>
<thead>
<tr>
<th>X &gt; 1,000</th>
<th>1,000 ≤ X &gt; 500</th>
<th>500 ≤ X &gt; 200</th>
<th>200 ≤ X</th>
</tr>
</thead>
</table>

### Contains PCB Interest Areas

<table>
<thead>
<tr>
<th>None</th>
<th>Moderate</th>
<th>High</th>
<th>2</th>
</tr>
</thead>
</table>

### Within Priority Development Area

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Co-located with another agency project

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Augments water supply

<table>
<thead>
<tr>
<th>Yes</th>
<th>Opportunity for capture and reuse Above groundwater recharge area and not above groundwater contamination area</th>
</tr>
</thead>
</table>

### Water quality source control

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Reestablishes natural hydrology

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Creates or enhances habitat

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>--</th>
</tr>
</thead>
</table>

### Community enhancement

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>Opportunities for other enhancements</th>
</tr>
</thead>
</table>

## Initial Screening and Scoring Results
Top 90th Percentile of Green Streets

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>County-Wide</th>
<th>By Jurisdiction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># of Projects</td>
<td>%</td>
</tr>
<tr>
<td>Campbell</td>
<td>224</td>
<td>5.0%</td>
</tr>
<tr>
<td>Cupertino</td>
<td>174</td>
<td>3.9%</td>
</tr>
<tr>
<td>Los Altos</td>
<td>25</td>
<td>0.6%</td>
</tr>
<tr>
<td>Los Altos Hills</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Los Gatos</td>
<td>38</td>
<td>0.9%</td>
</tr>
<tr>
<td>Milpitas</td>
<td>32</td>
<td>0.7%</td>
</tr>
<tr>
<td>Monte Sereno</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Morgan Hill</td>
<td>2</td>
<td>0.0%</td>
</tr>
<tr>
<td>Mountain View</td>
<td>42</td>
<td>0.9%</td>
</tr>
<tr>
<td>Palo Alto</td>
<td>45</td>
<td>1.0%</td>
</tr>
<tr>
<td>San Jose</td>
<td>3,619</td>
<td>81.4%</td>
</tr>
<tr>
<td>Santa Clara</td>
<td>104</td>
<td>2.3%</td>
</tr>
<tr>
<td>Santa Clara County</td>
<td>44</td>
<td>1.0%</td>
</tr>
<tr>
<td>Saratoga</td>
<td>19</td>
<td>0.4%</td>
</tr>
<tr>
<td>Sunnyvale</td>
<td>77</td>
<td>1.7%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>4,445</td>
<td></td>
</tr>
</tbody>
</table>

Incorporation of Stakeholder Projects
Revisions to Scoring Method

- Agencies submitted projects they wanted removed or added to the list
- Weighting factor of 2 added for:
  - Imperviousness
  - PCB Risk
  - Augments Water Supply
- Percentile bins (High, Medium, Low) were affected
- Does not change TOTAL number of projects

Reviewing the Prioritization Results

http://gis.paradigmh2o.com/maps/SWUFPPWebViewer
Username: guest
Password: Hi5e3T
Reviewing the Prioritization Results

Project Selection for Conceptual Design

Concept for a Low Impact Development Retrofit for Stormwater Capture
Site: Herrmann Park Parking Lot (City of San Jose)

Concept for a Green Street Retrofit for Stormwater Capture
Site: Herrmann Middle School Green Streets (City of Redwood City)

Concept for a Multi-jurisdictional Regional Stormwater Capture Project
Site: Hollister Park Regional Park (City of Alhambra)
**Tips for Selecting Projects for Conceptual Design**

**Tools:**
- Web viewer
- Project database (spreadsheet)

**Considerations:**
- Project score/ranking
- Likelihood to be implemented (e.g., co-located project, funding)
- Green streets
  - Integrates with planned bike/ped safety or complete street projects
  - Lower cost compared to regional projects
- Regional projects - Significant potential pollutant reduction
  - Significant pollutant load reduction
  - Multiple jurisdictions within drainage area
  - Higher cost compared to green streets

**Next Steps**

**March 16**
- Deadline for identifying proposed projects for conceptual design
- Deadline for comments on project database

**Late March/Early April**
- Stakeholder Meeting #2
- Finalize project database
- Begin investigations for conceptual designs

**March/April**
- Continue preparation of SWRP
- Draft implementation strategy memo
Santa Clara Basin Stormwater Resource Plan
Technical Advisory Committee (TAC)
Meeting #4

July 11, 2018, 2:00 – 4:00 PM

Conference Call/Online Meeting Only
Call-in number: 1-877-309-2073; Access Code: 240-915-941
To join the online meeting:
https://global.gotomeeting.com/join/240915941

AGENDA

MEETING OBJECTIVES:
• Receive overview of comments on Administrative Draft SWRP and discuss any issues
• Solicit TAC and agency input on project concept designs
• Discuss plans for Public Draft SWRP and public meeting(s)

2:00 1. Welcome/Introductions Jill Bicknell
SCVURPPP

2:05 2. Update on SWRP Task Activity Jill Bicknell
• Update on activity during March-July 2018
• Summary of deliverables submitted and in progress

2:10 3. Administrative Draft SWRP Jill Bicknell
• Comment and response process
• TAC discussion

Paradigm Environmental

2:35 5. Review of Project Concept Designs Scott Durbin/Rob Dusenbury
Lotus Water


3:50 7. Next Steps Jill Bicknell

3:55 8. Review Action Items Jill Bicknell

4:00 9. Adjourn
Participants – Attendance list attached.

1. Welcome/Introductions
Attendees introduced themselves. Jill Bicknell (SCVURPPP) explained that the objectives of the meeting are to: 1) receive overview of comments on Administrative Draft SWRP and discuss any issues; 2) solicit TAC and agency input on project concept designs; and 3) discuss plans for Public Draft SWRP and public meeting(s).

2. Update on SWRP Task Activity
Jill informed attendees that State Board staff, and staff from San Jose, Sunnyvale and SCVWD provided comments on the Admin Draft SWRP. A response to comments table was distributed to the TAC. Jill asked for the TAC’s feedback on the following comments:

- **SCVWD:** “Consider including projects that connect dry season flows in storm drains to the sewer system to minimize discharges to creeks, and increase the volume going to wastewater treatment plants so it could be available for recycling.” – Attendees said that they would need to get input from local wastewater treatment plant representatives. Jill informed the TAC that the Monterey SWRP includes several projects that capture dry weather flows for recycling. She will send the TAC a link to the Monterey Public Draft SWRP. SCVURPPP staff will work with SCVWD staff to find out if SCVWD’s Water Supply Master Plan includes information on the need for recycled water. The TAC recommended adding general language to the SWRP supporting dry weather flow capture projects.

- **SCVWD:** “The District's Water Supply Master Plan calls for additional recharge capacity on the west side of the Valley. Therefore, projects on the west side should get prioritized over those located elsewhere.” – The TAC discussed this issue and agreed that re-prioritization of the projects at this stage is not feasible. They recommended adding language to the SWRP noting that locating projects in recharge areas on the west side is a priority where feasible.

Jill also provided an overview of the schedule for the remaining deliverables. The Public Draft SWRP and the SWRP website are due in July. The public meeting will be held in August. The final draft SWRP is due in October 2018, and the final SWRP is due in December 2018.
3. Review of Potential Project Selection Process for Conceptual Design and Quantification of Benefits

Steve Carter (Paradigm) informed the TAC that Paradigm developed approximate drainage areas and footprints for stormwater capture facilities for the potential project opportunities provided by SCVURPPP agencies. Paradigm, Lotus, and SCVURPPP staff conducted field visits with agency staff to determine feasibility and desirability for potential projects. Paradigm conducted hydrologic modeling to estimate stormwater capture volumes and PCBs/Hg loads reduced. Subsequently, Lotus and Paradigm prepared project concepts, including potential layout, benefits, and costs.

4. Review of Project Concept Designs

Rob Dusenbury (Lotus) provided an overview of the 12 potential project concepts. The TAC provided the following general feedback:

- Based on the volume captured for each project, provide an estimate of groundwater recharge.
- Create a table summarizing the unit costs used for all potential project concepts (for 2017).
- Include a footnote clarifying that costs are for planning level design only.
- Round-off the quantities in the BMP Effectiveness (Annual Average) chart.
- If possible (within the grant scope and budget), provide estimates of O&M and project life cycle costs.

Pam Boyle Rodriguez (City of Palo Alto) asked if the Cornelis Bol Park project in Palo Alto can treat additional drainage areas. Rob said the project is limited by the space available for locating treatment measures in the park. He will follow-up with Pam to discuss. Brian Mendenhall (SCVWD) recommended looking into flood control benefits for the Kelley Park project. Kirsten Struve (SCVWD) said that she has submitted SCVWD comments on the Upper Penitencia Creek project. SCVURPPP staff will set-up a meeting with SCVWD, County and San Jose staff to discuss the comments.

5. Plan for Public Draft SWRP and Public Meeting(s)

The TAC recommended having two public meetings, at different locations, to present the Public Draft SWRP to the general public. Potential dates in late August or early September were discussed.

Next Steps/Action Items:

- SCVURPPP staff will follow-up on the following items:
  - Add language to the SWRP supporting dry weather runoff capture projects and prioritizing projects in recharge areas on the west side of the Valley.
  - Find out if SCVWD’s Water Supply Master Plan identifies future needs for recycled water.
  - Send the TAC a link to the Monterey Peninsula SWRP.
  - Set-up a meeting to discuss the Upper Penitencia Creek project
  - Set-up the two public meetings.
- Paradigm and Lotus Water staff will make revisions to the concept designs to address TAC comments, to the extent feasible.
- Lotus Water staff will follow-up with Palo Alto staff on the Cornelis Bol Park project.
# Santa Clara Basin Stormwater Resource Plan
## Technical Advisory Committee (TAC)
### Meeting Attendance Record
**July 11, 2018, 2:00-4:00 pm**

**Conference Call / GoToMeeting**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Mendenhall</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Chris Carandang</td>
<td>Paradigm Environmental</td>
</tr>
<tr>
<td>David Freyberg (on phone)</td>
<td>Stanford University</td>
</tr>
<tr>
<td>Elaine Marshall</td>
<td>City of Sunnyvale</td>
</tr>
<tr>
<td>Jeff Sinclair</td>
<td>City of San José</td>
</tr>
<tr>
<td>Jill Bicknell</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Jocelyn Walker</td>
<td>SCVURPPP</td>
</tr>
<tr>
<td>Julianna Martin</td>
<td>County of Santa Clara</td>
</tr>
<tr>
<td>Keith Lichten</td>
<td>RWQCB, San Francisco Bay Region</td>
</tr>
<tr>
<td>Kirsten Struve</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Neeta Bijoor</td>
<td>Santa Clara Valley Water District</td>
</tr>
<tr>
<td>Pamela Boyle Rodriguez</td>
<td>City of Palo Alto</td>
</tr>
<tr>
<td>Rob Dusenbury</td>
<td>Lotus Water</td>
</tr>
<tr>
<td>Scott Durbin</td>
<td>Lotus Water</td>
</tr>
<tr>
<td>Steve Carter</td>
<td>Paradigm Environmental</td>
</tr>
<tr>
<td>Vanessa Marcadejas</td>
<td>County of Santa Clara</td>
</tr>
<tr>
<td>Vishakha Atre</td>
<td>SCVURPPP</td>
</tr>
</tbody>
</table>
SWRP Task Activity (March-July 2018)

- Task 6.1.3 – Conducted two workshops for SCVURPPP agency staff on GSI design guidelines and details, on April 10 and 24
- Task 6.1.2 – Conducted second Stakeholder Group Meeting on April 23
- Task 4.7 – Completed Administrative Draft SWRP and submitted it to the Grant Manager on June 4
- Task 5.4 – Conducted site visits to the sites for potential conceptual designs during May and June, and completed draft project concepts on June 29
- Task 6.3 – Nearly completed development of new SWRP web page

Update on SWRP Deliverables

<table>
<thead>
<tr>
<th>Task</th>
<th>SWRP Deliverable</th>
<th>Submittal Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.2</td>
<td>Stakeholder Meeting #2</td>
<td>April 23, 2018</td>
</tr>
<tr>
<td>4.6.3</td>
<td>SWRP Implementation Strategy Memo</td>
<td>June 4, 2018</td>
</tr>
<tr>
<td>4.7</td>
<td>Administrative Draft SWRP</td>
<td>June 4, 2018</td>
</tr>
</tbody>
</table>

Upcoming SWRP Deliverables

<table>
<thead>
<tr>
<th>Task</th>
<th>SWRP Deliverable</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4</td>
<td>Project Conceptual Designs</td>
<td>May 2018</td>
</tr>
<tr>
<td>4.8</td>
<td>Public Draft SWRP</td>
<td>July 2018</td>
</tr>
<tr>
<td>6.3</td>
<td>SWRP Webpage</td>
<td>July 2018</td>
</tr>
<tr>
<td>6</td>
<td>Public Meeting</td>
<td>August 2018</td>
</tr>
<tr>
<td>4.10</td>
<td>Final Draft SWRP</td>
<td>October 2018</td>
</tr>
<tr>
<td>4.11</td>
<td>Final SWRP</td>
<td>December 2018</td>
</tr>
</tbody>
</table>

Main Comments on Admin Draft SWRP

- Need to better organize/streamline Chapters 5 and 6
- Need to provide clearer link to the SWRP Guidelines benefits and demonstrate that priority projects address at least 2 main benefits
- Emphasize protection of groundwater quality
- Make clear that the “projects” listed represent potential GSI locations, and project concepts are not yet committed to by the agency
- Consideration of projects with dry weather runoff diversion to sanitary for increase of recycled water supply?
- More priority to projects that may increase groundwater recharge on the west side of the Basin?

Project Selection Process for Conceptual Design and Quantification of Benefits

- SCVURPPP agencies identified potential projects for conceptual design
- Paradigm developed approximate drainage areas and footprints for stormwater capture facilities
- Paradigm and Lotus conducted field visits with agency staff to determine feasibility and desirability for potential projects
- Paradigm conducted hydrologic modeling to estimate stormwater capture volumes and PCBs/Hg loads reduced
- Lotus and Paradigm prepared project concepts, including potential layout, benefits, and costs
Review of Project Concept Designs

- See PDF handout of project concepts

Plan for Public Draft SWRP and Public Meeting

- Complete Public Draft SWRP by July 20
- Complete SWRP Webpage and post Public Draft by July 27
- Determine Public Meeting date(s) and location(s)
- Prepare and distribute Public Meeting notice
- Conduct Public Meeting(s)
- Compile public comments
- Hold TAC conference call if needed to get input on public comments