

Green Plan Bay Area Kickoff Meeting

September 19, 2013

Attendees: Jennifer Krebs, Jesse Mills, Josh Bradt (SFEP); Jared Hart, Bryan Apple (San Jose); Matt Fabry (SMCWPPP); Lester McKee, Jing Wu, David Senn, Kristin Cayce, Jen Hunt (SFEI); Ken Chin (City of San Mateo); Sabor Saroung (City of Redwood City); Jennifer Walker (Watearth), Dan Cloak (DCEC), Kristin Hathaway (Oakland); Emily Alter (City of El Cerrito); Jill Bicknell (EOA/SCVURPPP).

Project Team: SFEP, SFEI, Dan Cloak, Jennifer Walker

Web Page: www.sfestuary.org/greenplanning

Basecamp: Products will be posted at www.basecamp.com

Schedule:

- Project to be completed August 2013 – December 2015.
- Will send out questionnaire 9/24 (due 10/15)
- Nov. 1st will select participants for project.
- Nov. 2014 – LID tools will be available to test cities

Project Outcomes:

- LID/Modeling/Site Suitability outcome
- Alternative Compliance element
- Master Planning element

Roles for Municipalities:

- TAC members – will meet 3-4 times over 2 years
- “Master Planning” Agency – provide base data layers for GIS; work with project team to adopt Green Infrastructure Master Plan
- Interested party

Current Efforts

- San Mateo – received Caltrans planning grant to develop sustainable streets plan. 2-year project Feb. 2013-2015. Ken works with GIS data in KML (Google Earth). Already thinking about where to implement LID based on local data such as ADTs, impaired waterways, storm drain inlets, etc., but have not identified specific locations. Also lacking standard drawings/details to construct. Goals – 1) water quality improvement, 2) to have an LID plan that could be integrated with the sustainable streets plan. Do have a green street/complete street project that is nearing completion on Delaware Ave.
- Oakland – received Urban Greening grant to do LID retrofit plan in public ROW. Identifying locations, assessing feasibility, prioritizing locations. Goals are stormwater detention and climate change benefits. Looking at libraries, parking lots, fire stations, wide sidewalks, etc. Developing plant palette

specific to Oakland. Developing standard details. Using LIDAR to collect impervious surface data. As parallel effort, looking at increasing tree cover and formed urban forestry program. Have completed guidelines document and are currently in mapping phase. Planning to retrofit parking lot near Lake Merritt and one near fire station on 16th Ave.

- Redwood City – no public retrofit projects to date. Funding is the issue. Have very extensive GIS database.
- El Cerrito – got Prop 84 planning grant to develop urban greening plan. Also have smaller pots of funding for specific projects (e.g., San Pablo Ave. green spine project). Do not have much GIS data to date.
- San Jose – 2 current green street projects: Martha Gardens green alleys and Park Ave. Also integrating green infrastructure into new HHW collection facility. Other projects to be funded by IRWMP grant. Public Works Department also in process of developing Storm Drain Master Plan – could be opportunity to incorporate green infrastructure. Would be interested to see cost/benefit analysis to convince departments that green infrastructure would be cheaper in the long term.
- Long-term maintenance – some cities use Parks Departments to maintain landscaping in public ROW; some use roads maintenance crews. More landscaping = higher maintenance costs but may mean reduced cost of street maintenance.
- Matt – hopes this project will provide information to inform requirements in next MRP.

Overview of Green Plan-IT

- Questions to address:
 - What quantitative water quality and hydrologic improvements can be achieved with LID?
 - What is the optimal plan?
 - With LID, can we improve on cost/benefit ratio of grey infrastructure?
- Green Plan-It Tool Box
 - GIS siting tool
 - SFEI Regional LID Site Suitability Tool (2012)
 - Will enhance with local data
 - Will be highly portable; can be used separately
 - Critical areas tool
 - ID critical source areas based on flow and contaminants
 - Overlay area with specific considerations
 - Screen for feasibility and effectiveness
 - Reduce LID opportunities to real possible locations
 - Build in cost-effectiveness component
 - Optimization tool (maximize benefit, minimize cost)

- Use modeling exercise to generate data that shows where LID can better achieve WQ and flow reduction goals than grey infrastructure
 - May be able to demonstrate overall effectiveness of a master plan
 - Master Plan Process
- Input to Lester
 - Modeling might show what costs are most sensitive to
 - What are most important GIS layers (probably underground utility maps)
 - Kristin H. – need different thresholds for feasibility; e.g., underground utilities maps have varying degrees of accuracy
 - Matt – need to look at overall benefits, not just water quality; need to produce a plan that can be integrate with CIP and other plans. GIS siting tool itself will be valuable.

Data Needs

- Topography
- Land cover
- Hydrology
- WQ monitoring
- Imagery (LIDAR, aerial photography)
- Catchment delineations
- Additional data such as ROWs, red curbs, public parks, etc.
- Meteorology
- Diversion
- Existing LID information
- Existing stormwater models
- Local cost information on types of LID (capital, O&M)

Discussed availability of data on existing LID treatment measures (good – use O&M verification lists); storm drain system maps and catchment areas (EOA and Janet Sowers developing more detailed catchment maps for San Mateo Co.).

Will be a reconnaissance step after screening with the model (desktop and field).

Next Steps

- SFEP will send out questionnaire next week – due date for response 10/15/13
- Select municipalities for various roles (limit to 3 master plans) – 11/1/13
- Memo to municipalities on data collection steps and follow up communications as needed on how to collect data