GreenPlan Bay Area
City of San Jose
Wednesday, April 8, 2015
Meeting Notes

In Attendance:

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Introductions

Review Agenda/Meeting Purpose

San Jose GP-IT Outputs:

Siting Tool – Peter K

- New locations added for SW planters
- New Ranking layers added
    - Urban Villages
    - 3 year paving plan
    - Base analyses
    - Removed gas pipes and community visibility weighting
- Reviewed Maps

    - Yellow areas = unranked because outside of overlay criteria
    - Callouts verify rank at pre-selected opportunity sites
    - "Planning" level tool not site specific
    - Chenowyth
        - High ranked for bioretention
        - Not in 3 year plan or an Urban Village

Modeling/Optimization Tool – Jing Wu

- Optimization results updated to accommodate city selected sites
- Cost effectiveness curve associated with runoff volume reductions
    - Bioretention and Infiltration more optimal than permeable paving
- Bioretention Location Map : number of units in basins to achieve reduction goals (similar maps available for infiltration and pavers)
- Summary
    - Locator tool = screening layer
    - Modeling = baseline condition
    - Optimization = cost effective combinations to achieve goal
    - Outputs = overlaid with Siting tool to help prioritize
    - Other = other factors can be integrated to help make final decisions
- Remaining Issues:
    - Scenario runs with centralized facility???
    - Pollutant reduction analyses not available (sediment, Hg, PCBs)

GI Conceptual Plans – Dan Cloak

- Rapid Project Identification thru desktop analyses
    - Google maps
    - Areas targeted (Old Urban, Old Industrial, Arterial Streets – high pollution generators)
    - City has good electronic utility maps
- Site Reconnaissance
    - Laser level to ID high/low points to add to site map
- Concept Design methodology
    - Start at bottom (low point) and work upwards
    - Consider spatial relationships
    - Make calculations
- Insights
    - Changes in elevation are key determinants to project costs/feasibility

San Jose Storm Drain Master Plan – Casey Hirasaki (Public Works)

- Citywide effort
- Modelling 24' diameter pipe and larger
    - ICM software
        - Flow monitoring data calibration (WY13-14);
        - hopes to also use WY 14-15 December event to further calibrate;
        - will ultimately integrate SCVWD hydrology with HEC-RAS)
- Holding stakeholder/regulatory meetings
- Next Steps:
    - Model 10-year Design Storm to ID pipe deficiencies
    - Overlay with GP-IT findings to ID water quality projects
    - Create CIP list

    - Will get GP-IT and run optimization to ensure no missed opportunities (Shelly Guo)

Planning

Urban Village Planning

- Grant funded Green Streets projects being considered
- DOT working on Street Plan
- SJ staff will collaborate internally across divisions to spread GI vision

Q&A/Discussion

- Does GIS analyses include public & private? *It can (LM)*
- Does GP-IT incorporate flood zones? *It can (LM)*
- Did conceptual design calculations consider private run-off? *Yes, a bit (DC)*
- (SCVWD- Liang) Cost curve/flow reduction goals of 30%, why? *Arbitrary goal (JW)*
- (SCVWD - Liang) Would be helpful to convert flow reduction benefit into $$ unit to monetize the positive benefit? *Yes, will use TAC to see what improvements are needed/can be made for users—ie. Improving Cost assumptions (LM)*
- SCVWD wants to work with the City as GI promotes groundwater replenishment (water supply)
- EPA brought issue of asset management into MRP discussions—the Storm Drain Master Plan will be key (Bicknell)
- (SJ – James Dowling) Don't forget that we need to include O& M costs to ensure long term function. *Yes, model uses 20 year life span of O&M costs, using $ data from SJ (JW); Cost functions will be enhanced with EPA grant (LM)*
- *ABAG missed integrating GI into planning efforts (M. Shorett)*
- Consider benefits of Urban Forestry too, such as underground bioretention using "suspended pavement systems", this can increase benefits while not incurring new surface O&M needs (PSA). *Perhaps add new LID type to GP-IT 2.0 (LM)*
- City is seeking CALFIRE grant for Urban Forestry Master Plan
- (Dowling/Mize??) Conflict with bioretention soils and climate change/drought impacts—irrigation added to fast draining soils?
    - Infiltration / permeable paving need no water. This should be factored into costs and O&M. Can purple pipe overlay be added to GP-IT? (Bicknell)
    - Need to develop different soils specs for different conditions (PSA)
- (LM) Hearing that GP-IT tool needs more complexity with "wires" available to plug into other efforts. For SJ infiltration has $$ value (drinking water) and is geographically specific. Referenced LID conference where other areas are using green spaces for ***run-on*** and temporary storage

Next Steps

Jared: City Departments participating and collaborating on various plans

- Will apply tool outputs
- Need to meet with Urban Village team

Shelley: SJ to have internal meetings to:

- start mapping synthesis between planning efforts and GP-IT tool
- SJ to become tool user

Luisa: Thoughts on Green Infrastructure Plans:

- Detailed info not likely in MRP 2.0 but city should have necessary elements to comply if internal coordination happens
- Add asset management piece which would include waste water and flood management
- Track how PCBs and Hg is reduced for credits (TMDL driver)
- EPA grant – we will be monitoring progress and hope to augment where possible

Bicknell: San Jose will be a model for MS4 Cities developing and implementing GI Master plans! Currently, GI Plans are more typical of cities with combined sanitary and stormwater sewers.