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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.