# Key Meeting Questions

# Agenda Item 3: LID Site Locator Tool development (Suitability)

1. Add one more LID treatment type?
   1. Infiltration trench.
   2. Other?
2. What data would you recommend including?
   1. Opportunities, constraints, knockout constraints?
   2. Default values?
3. We are developing two analysis modules to identify specific street and parking lot locations that will support certain LID types. Can you recommend other analysis modules that we should consider?
4. Does the tool logic seem sound?
   1. Will it produce useful results?

# *Agenda Item 4: LID* ModelingT*ool development (Hydrologic model)*

1. Is the model sufficiently calibrated for the purposes of supporting the optimization component?
2. How do we deal with pollutant reduction since SWMM has no built-in mechanism to simulate it?

# Agenda Item 5: LID Optimization Tool development (linking site locator, modeling, and optimization through statistical optimization)

1. What optimization technique should be used?
   1. Genetic Algorithm
2. What should be targeted reduction goal?
   1. Flow - peak, volume?
   2. Pollutants – PCBs, Hg?
3. What type of storm event should be used for optimization?
   1. 2-year design storm suggested by San Jose (1.86 inch with 24 hour duration)
4. What types of LID should be included in optimization?
   1. Bioretention, Infiltration trench, Porous pavement
5. Should Grey infrastructure be considered as an option? If so, what kind? San Jose suggested large bioretention with storage
6. Do we need to set upper limit for # of LID implemented or %impervious area treated?
7. How to drive cost function for optimization? Unit cost approach in literature, but cost differs by location. How should we take that into account?
8. Scale issue: Currently sub-basins range from 20 to 150 acre because of size of development area. Not spatially explicit enough to pinpoint specific LID locations. How should we handle this issue? Use siting tool for further guidance?