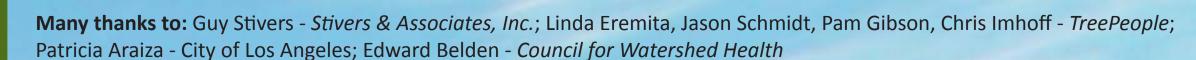
## Residential Maintenance Manuals for Water Smart Landscapes

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Arroyo Seco

Management Plan

for the City of Pasadena

Some Published Manuals







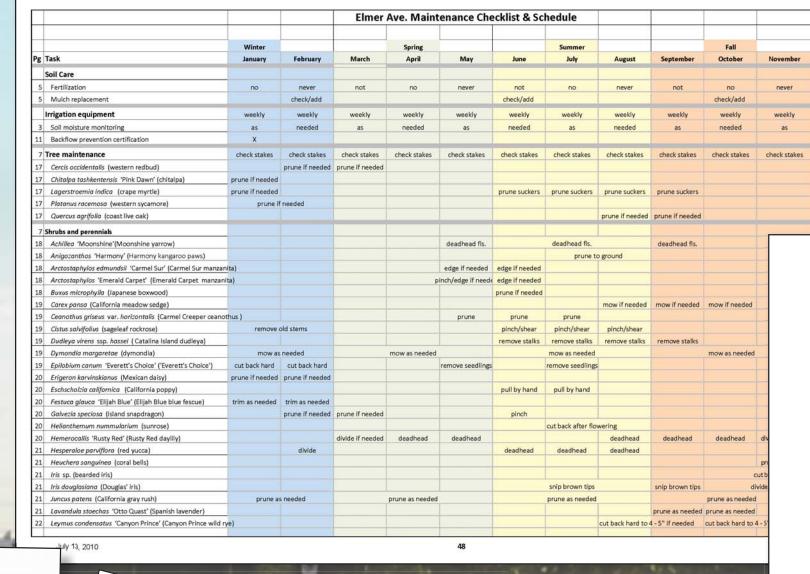
## BACKGROUND

Through the Elmer Avenue Neighborhood Retrofit Project, the Council and its partners have built the first water-recharging green street in the City of Los Angeles. A one block section of Elmer Avenue in Sun Valley, California was retrofitted with multiple, state-ofthe-art stormwater best management practices (BMPs) that reduce flooding, capture runoff, improve water quality, recharge local groundwater supplies, provide green space, and beautify the community. Specific techniques include bio-swales and sub-surface galleries for infiltration, native drought-tolerant landscapes, smart-irrigation controllers, permeable surfaces, and solar street lights.

Integral to the success and ongoing function of this southern California green street is the role of residents. In addition to receiving training in the maintenance and care of their new landscapes over the course of the project, each resident received a personalized Elmer Avenue Maintenance Manual The Council developed this comprehensive resource to orient residents to the features, functions, care, and maintenance requirements of their sustainable landscapes. The Elmer Avenue Maintenance Manual is a model for developing a care and maintenance resource that can be used by residents, landscape care professionals, and landscape design professionals.

In addition to the Elmer Avenue Maintenance Manuals, the Council has developed maintenance plans for a small neighborhood park that is maintained by local residents (Old Marengo Park in Altadena) and for a large urban watershed park that is maintained by city staff (Arroyo Seco in Pasadena), along with contributing to the maintenance manuals for multiple parks in the San Gabriel Valley. One of the authors (Ellen Mackey) is co-author of Care & Maintenance of Southern California Native Plant Gardens (2006), a bilingual guide that was developed cooperatively by representatives of Rancho Santa Ana Botanic Garden, California Native Plant Society, and Theodore Payne Foundation, with financial support from the Metropolitan Water District of Southern California.







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Elmer Avenue Residence **Immediately** AFTER





## PROBLEMS

- Outdoor landscaping consumes too much water
- Landscaping fertilizer and pesticides pollute water
- Landscaping monocultures and non-native plants provide inadequate habitat for native animals.
- Gardeners don't know how to maintain native and drought-tolerant landscapes

## SOLUTIONS

- Install water conserving, climate-appropriate landscaping and native plants
- Team of professionals including: community organizers, landscape architect, engineers, construction professionals, ecologist, and planners joined to accomplish the project
- User-friendly individualized manual in two languages for each resident to communicate landscape needs for watering and pruning
- Training sessions with on-the-ground assistance several times per year for first few years
- Continue to support the neighborhood as residents become 'watershed managers'