

UPPER SAN GABRIEL RIVER ENHANCED WATERSHED MANAGEMENT PROGRAM

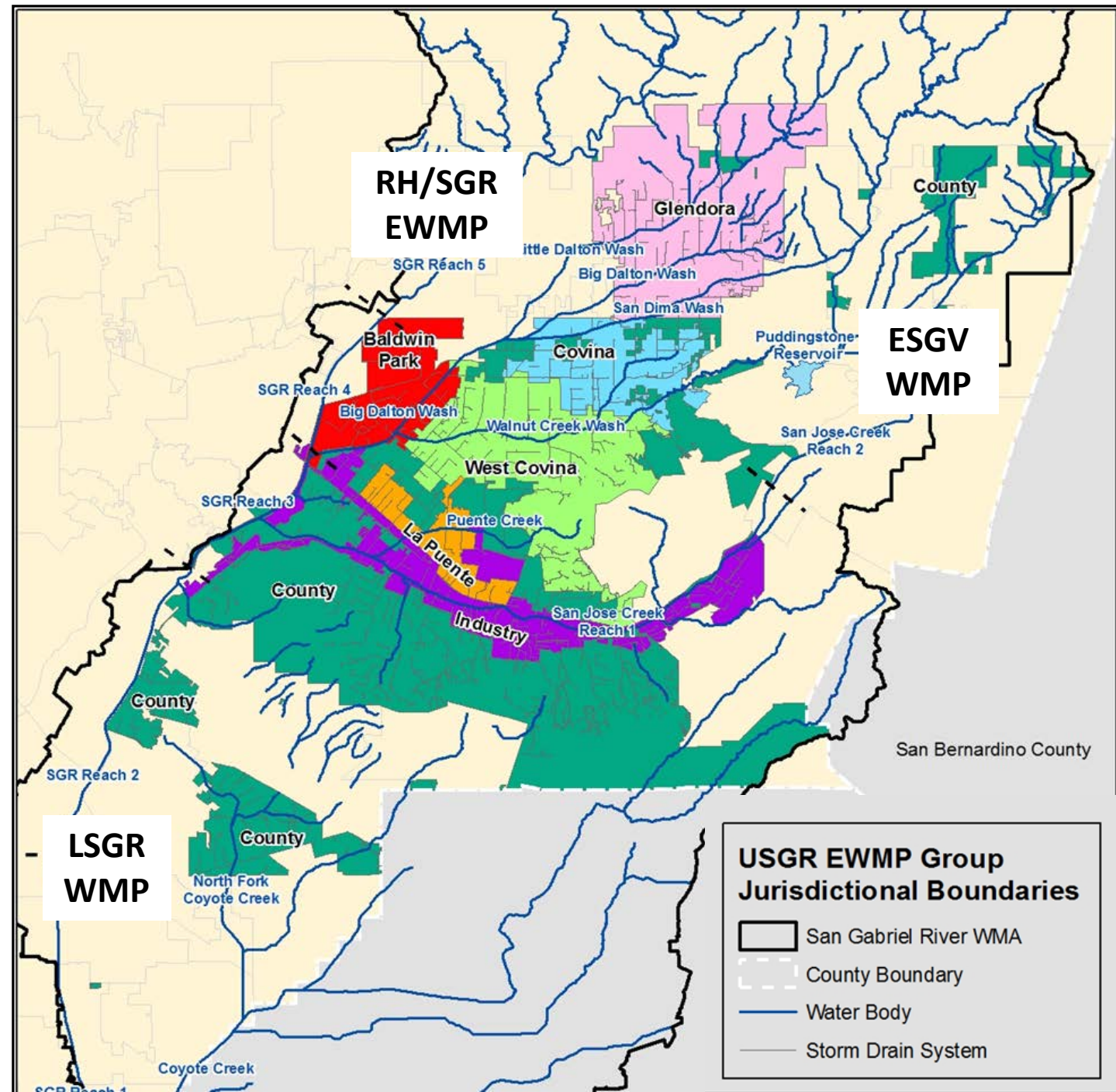
Paul Alva, P.E.

MAY 10, 2018



Upper San Gabriel River Watershed Management Group

- Baldwin Park
- Covina
- Glendora
- Industry
- La Puente
- West Covina
- County of Los Angeles
- LACFCD



Average Annual Expenditure on MS4 Compliance

Baldwin Park	Covina	Glendora	Industry	La Puente	West Covina	County of Los Angeles	LACFCD
\$1.37 M	\$0.74 M	\$0.42 M	\$1.56 M	\$0.22 M	\$1.2 M	\$65.20 M*	\$32.46 M**

*Average annual expenditure for entire Unincorporated County of Los Angeles, not just the Upper San Gabriel River WMA

** Average annual expenditure across all WMA Groups that LACFCD is a party of, not just the Upper San Gabriel River WMA

Watershed Control Measures

- ❖ Low Impact Development
- ❖ Green Streets
- ❖ Minimum Control Measures
- ❖ Regional Projects

Low Impact Development

- ❑ **City of Glendora** implemented a residential LID program by creating a rain barrel incentive program.



Low Impact Development

❑ **City of West Covina** in 2017, completed the Orangewood Park project which features infiltration trench, dry wells, permeable pavers, rain garden and drought tolerant planting. The LID elements of the project cost \$225k.



Infiltration trench and dry wells



Rain Garden



Permeable Pavers

Walnut Creek Nature Park Improvement Phase I and II



- Completed in 2016
- Bioswales
- water quality infiltration basin enlarged by 55%
- Drought tolerant plantings
- Interpretive educational signage

Green Streets

- ❑ **City of West Covina** is incorporating stormwater infiltration (ie, green streets) into their Glendora Avenue Improvements project. The project is at 90% design, and is anticipated to be completed in 2018/2019. The estimated cost for the water quality element is \$250,000.
- ❑ **City of Industry** has developed a draft set of Green Street Guidelines to be used on both public and private projects within the city. Guidelines will include a map identifying potential green street opportunities based on the city CIP. It is anticipated the final guidelines will be completed by late 2018.
- ❑ **County of Los Angeles** is currently conducting feasibility study for prioritized locations for green street features throughout the unincorporated area of the County.
- ❑ **City of Baldwin Park** completed a Center Median Improvement Project which enhanced about 3.2 miles of medians along Ramona Blvd., Baldwin Park Blvd., Amar Rd., and on Badillo St. at a cost of \$5 million. (shown in the photo)

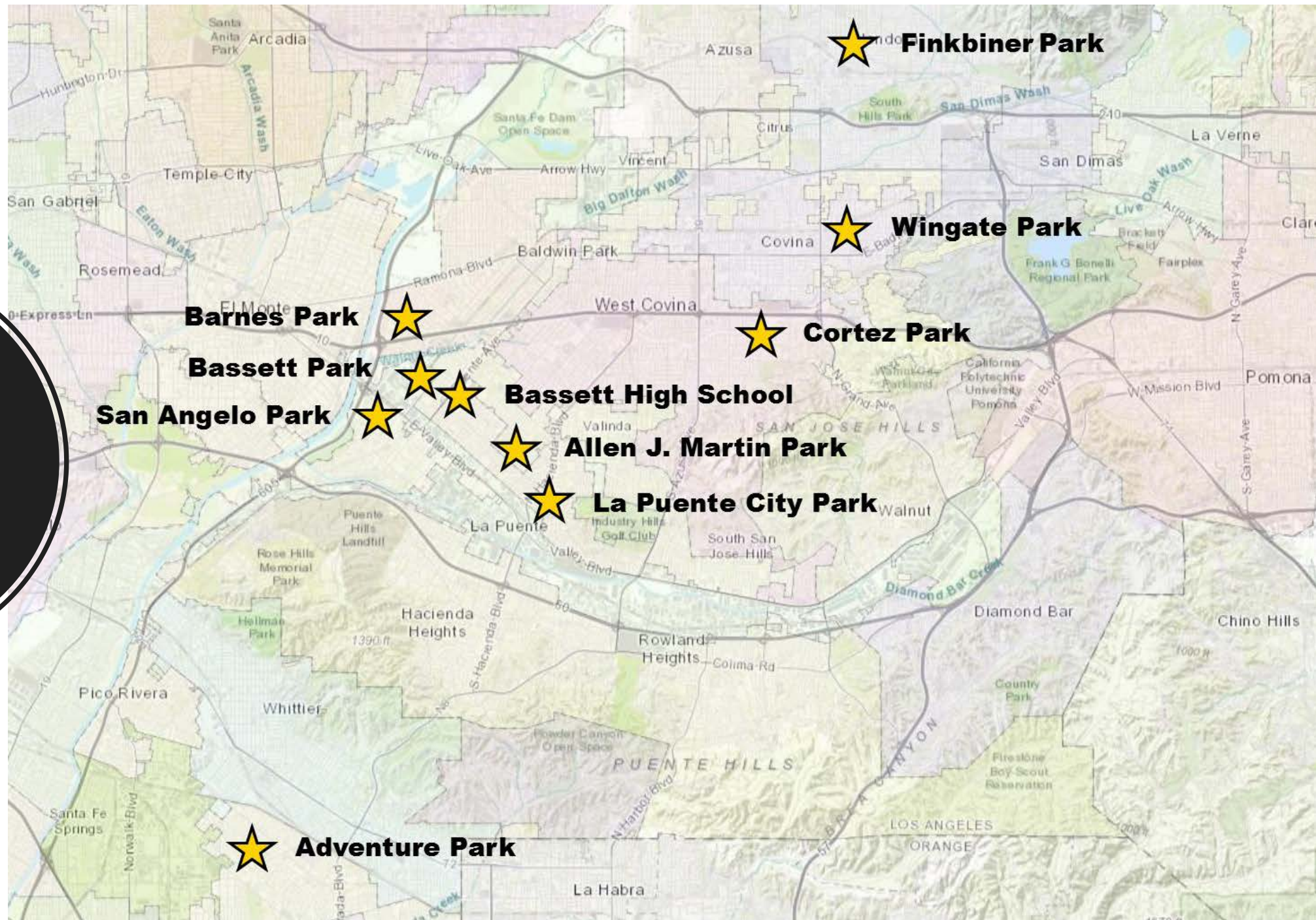


Enhanced MCMs

- ❑ **City of Covina** conduct street sweeping day follows trash day. A positive pressure sweeper is used in order to achieve maximum debris removal.
- ❑ **County of Los Angeles** have identified catch basins that are located in high trash generation areas in the USGR watershed and started retrofitting these catch basins with automatic retractable screens and full capture systems.



10
Regional
Projects



Bassett High School



- Treat and Infiltrate
- BMP storage capacity: 38 acre-ft
- Estimated construction cost: \$38 M
- Potential Partnership: Bassett Unified School District, West Covina, La Puente, Baldwin Park and County of LA



Allen J Martin Park



- Treat and infiltrate
- BMP storage capacity: 9 acre-ft
- Estimated construction cost: \$15.8 M



Barnes Park



- Treat and infiltrate
- BMP storage capacity: 10 acre-ft
- Estimated construction cost: \$14.8 M



Wingate Park

- Treat and infiltrate
- BMP storage capacity: 14 acre-ft
- Estimated construction cost: \$19.5 M



Finkbiner Park

- Treat and infiltrate
- BMP storage capacity: 2.3 acre-ft
- Estimated construction cost: \$3.8 M



San Angelo Park

- Treat and infiltrate
- BMP storage capacity:
6 acre-ft
- Estimated construction cost: \$11.1 M



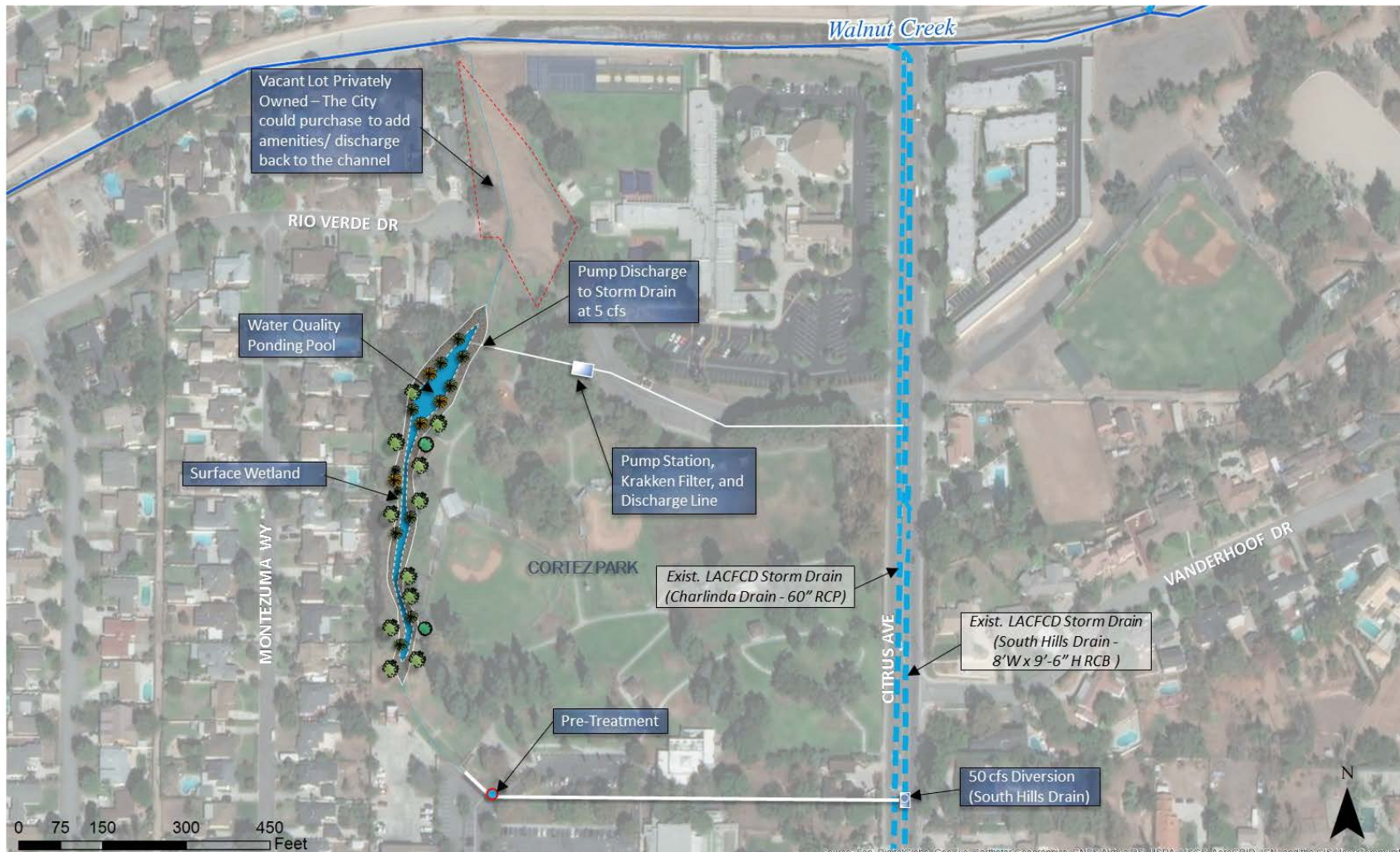
La Puente Park

- Treat and Reuse
- BMP storage capacity: 1.5 acre-ft
- Estimated construction cost: \$2.8 M



Cortez Park

- Surface Wetland
- Estimated construction cost: \$1.8 M



THANK YOU