

Appendix K

Project Opportunity Scoring Worksheet and Web Map References

American River Basin (ARB) Stormwater Resource Plan (SWRP) Project Opportunity Scoring Sheet and Web Map References

Project Opportunity Scoring Sheet

ARB SWRP Project Opportunity Matrix and Scoring Worksheet					
Project Name (Enter Title of Your Choice)		Dry Well at Sac State			
Project Component (Choose from Drop Down List)		Infiltrating BMP			
Screening Factor	Site Condition (Choose from Drop Down List)	Points Awarded	Weight	Weighted Points Awarded	
Surface Factors					
Imperviousness	50-60%	1	2	2	
Land Ownership	Public	3	2	6	
Land Use	Street, Parking Lot, Park, Open Space, School	3	2	6	
Slope	< 5%	3	2	6	
TMDL/303(d) Listing	Discharge to any waterbody	2	2	4	
Subsurface Factors					
Depth to Groundwater	Bottom of Excavation > 10 feet from high GW level	3	2	6	
Hydrologic Soil Group	A or B	3	2	6	
Infrastructure Factors					
Active Domestic Wells	> 100 feet away	3	1	3	
Septic Systems	> 100 feet away	3	1	3	
Stormwater Infrastructure	Close proximity to existing municipal surface conveyance or drain inlet	3	1	3	
Environmental Factors					
Contaminated Soils, Plumes, or USTs	No	3	1	3	
Critical Habitat for Threatened and Endangered Species	Project can reduce discharges to critical habitat	3	1	3	
Impacts of Hydromodification	Project location discharges to area impacted by hydromodification	3	1	3	
Connectivity of Conservation Areas	Project location can improve connectivity of conservation areas	3	1	3	
Protected Area	Project location discharges to a protected area	3	1	3	
Community Factors					
Disadvantaged Community or Economically Distressed Area	Within a DAC or EDA	1	1	1	
				61	Total Weighted Points
				70	Total Possible Points
				0.87	Total Score = Total Points/Total Possible Points

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Project Opportunity Web Map

OWP at Sacramento State developed this web map to assist in identifying project opportunities for the American River Basin (ARB) Stormwater Resource Plans (SWRP). This is a web-based GIS map providing layers of multiple surface, subsurface, environmental, and community characteristics for eastern Sacramento county, western Placer county, and the surrounding regions. June 2017.

<http://www.owp.csus.edu/ARBSWRP/map.htm>

ARB SWRP Layers

303(d) List & TMDLs (SWRCB): This layer contains water bodies that either have a Total Maximum Daily Load (TMDL) or are on the 2012 303(d) list of impaired water bodies developed by the California State Water Resources Control Board (SWRCB). The original GIS files are from the SWRCB, but many of the water body extents have been updated by OWP at Sacramento State as appropriate. May 5, 2016.

http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2012.shtml

Conservation Easements (GreenInfo Network): California Conservation Easement Database (CCED) "contains data about lands that are under conservation or open space easement (as opposed to those in CPAD that are owned outright "in fee"). Easements lands are typically private property and are only rarely open to the public (some easements overlay publicly-owned lands, however)." CCED is maintained by GreenInfo Network, a nonprofit technology support organization founded in 1996. December 2016.

www.CALands.org

Critical Habitat (USFWS): The US Fish and Wildlife Service [USFWS] Critical Habitat for Threatened and Endangered Species Dataset. "When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential to the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act. It is a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection. Critical habitat may include an area that is not currently occupied by the species but that will be needed for its recovery. An area is designated as critical habitat after the Service publishes a proposed federal regulation in the Federal Register and receives and considers public comments on the proposal. The final boundaries of the critical habitat are also published in the Federal Register."

[FWS Critical Habitat for Threatened and Endangered Species Dataset](#)

Depth to Groundwater (DWR): The California Department of Water Resources (DWR) maintains the Groundwater Information Center (GWIC) Interactive Map Application, which includes depth to groundwater below the ground surface.

<https://gis.water.ca.gov/app/gicima/>

Disadvantaged Communities (DWR): Disadvantaged communities (DACs) are areas in which the median household income (MHI) is less than 60% of the MHI. Severely disadvantaged communities are areas in which the median household income (MHI) is less than 80% of the

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MHI. The California Department of Water Resources (DWR) developed this layer using 2010 US Census data. “The Department of Water Resources (DWR) has developed a web-based application to assist local agencies and other interested parties in evaluating Economically Distressed Area (EDA) status throughout the State, using the definition specified under the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Proposition 1) Economically Distressed Area Instructions.”

http://www.water.ca.gov/irwm/grants/resources_dac.cfm

http://www.water.ca.gov/irwm/grants/resources_eda.cfm

EnviroStor (DTSC): "EnviroStor is the Department of Toxic Substances Control's [DTSC's] data management system for tracking our cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities and sites with known contamination or sites where there may be reasons to investigate further." The EnviroStor data was downloaded in June 2017. Check with the EnviroStor site for updates.

<https://www.envirostor.dtsc.ca.gov/public/>

GeoTracker (SWRCB): "GeoTracker is the California State [Water Resources Control] Board's data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. GeoTracker contains records for sites that require cleanup, such as Leaking Underground Storage Tank (LUST) Sites, Department of Defense Sites, and Cleanup Program Sites. GeoTracker also contains records for various unregulated projects as well as permitted facilities including: Irrigated Lands, Oil and Gas production, operating Permitted USTs, and Land Disposal Sites." The GeoTracker data was downloaded in June 2017. Check with the GeoTracker site for updates.

<https://geotracker.waterboards.ca.gov/>

Land Cover (USGS) – The United State Geological Survey (USGS) maintains the National Land Cover Database (NLCD) to assist local, state, and federal managers and officials with issues such as assessing ecosystem status and health, modeling nutrient and pesticide runoff, understanding spatial patterns of biodiversity, land use planning, deriving landscape pattern metrics, and developing land management policies.

<https://www.mrlc.gov/>

Open Space, Parks, & Protected Lands (SACOG): The Sacramento Area Council of Governments (SACOG) maintains a regional parks and open space database, which “is a working document that inventories the open space, parks and protected lands in the SACOG region. Developed for Valley Vision and the region Open Space Project, this dataset depicts easement features as well as other lands held under lease or some other management agreement, as submitted by major public, trust, and non-profit groups in the state.” 2017.

<https://www.sacog.org/post/land-use>

Protected Areas (GreenInfo Network): "The California Protected Areas Database contains data about lands that are owned outright (“in fee”) and protected for open space purposes by 1,100 public agencies or non-profit organizations. CPAD lands range from the smallest urban pocket parks all the way to the largest wilderness areas – all told, CPAD inventories just over 49.2 million acres in 14,700 “parks” (known in CPAD as Super Units). CPAD is published by GreenInfo

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Network, a nonprofit technology support organization founded in 1996." December 2016.
www.CALands.org

Slope (USGS): OWP at Sacramento State derived percent slopes of the ground surface from 1/3 arc second digital elevation data from the United State Geological Survey (USGS) 3D Elevation Program.

<https://nationalmap.gov/3DEP/index.html>

Soil Hydrologic Group (NRCS): The Natural Resource Conservation Service (NRCS) maintains the Web Soil Survey, which provides soil data and information produced by the National Cooperative Soil Survey (NCSS).

<https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

Storm Drains (Regional Municipalities): Storm drain infrastructure (if provided) for various communities in the ARB region. If not provided, contact the stormwater management program for the relevant municipality.

Topographic Maps (USGS): Topographic maps developed by the United States Geological Survey (USGS). The USGS database is hosted by the Environmental System Research Institute (ESRI). 2017.

<https://topomaps.usgs.gov/>