Riverside County Santa Ana River Watershed Stormwater Resource Plan

Project Description and Scoring Summary Sheet

Project Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
UC Riverside Gage Basin Green Infrastructure Restoration Phase I	University of California, Riverside Environmental Health & Safety	Phase I of Gage Basin Restoration project includes engineering analyses to evaluate basin retention and infiltration capacities, evaluation of dry weather flow management, and evaluation of improvement needed to meet SWRCB Certified Multi-Benefit Trash Treatment System criteria. Phase I also includes initial conceptual study of restoration alternatives for flood control and stormwater management and habitat lost after repeated wildfires of 2019, 2020 and 2021. Proposed initial conceptual study would explore the potential for community walking trails with amenities such as interpretive signage providing stormwater and habitat education.	108	Conceptual	Water Quality, Flood Management, Environmental, Community
City of Hemet Salt Creek Restoration Project	City of Hemet	The proposed project is to develop a habitat and waterway restoration project on 10 acres within the Salt Creek channel within the City of Hemet city limits. The work will be performed shall include identification and and CDFW approval of the Restoration Site location with Salt Creek; 2) restoration of natural contours and/or decompaction (if needed) to restore infiltration capacity within the Creek; 3) revegetation using native plans (seed and/or container plants) sourced locally and at a minimum within the same watershed, and irrigation (if appropriate); and 4) control of all non-native plant species using herbicide application and/or manual or mechanical removal under the guidance and best professional judgement of a qualified CDFW recognized Restoration Specialist.	98	Preliminary design	Water Quality, Flood Management, Environmental, Community
Box Springs SD-Groundwater Recharge at Kansas Basin	Riverside County Flood Control & Water Conservation District	This project will construct improvements within the District's existing 8.5 acre Kansas Flood Detention Basin to allow the basin to intercept and infiltrate water into the Riverside- E Groundwater Basin for conservation and reuse purposes. The District will be working on evaluating other partnership opportunities, as well as potential benefits to water quality by reducing dry weather flow discharges to the Santa Ana River. The exact form and sponsorship of the project is yet to be determined based on the investigation results and recommendations.	95	Conceptual	Water Quality, Water Supply, Flood Management
Bradley Channel Enhancement Project	City of Perris	The construction and enhancement of the Bradley flood control channel will provide enhanced water quality treatment methods within the stormwater channel. The enhanced water quality treatment methods will include the following: 1. Sediment reduction by utilizing hydrodynamic separators to treat and pretreat stormwater runoff. 2. The redesign of the channel bottom will enhance water infiltration going into the ground. This is a form of stormwater harvesting. 3. Redesign the channel slope with a plant pallet that facilitates treatment and filtration of stormwater runoff.	91	Conceptual	Water Quality, Water Supply, Flood Management, Environmental

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North Norco Channel, Stage 11	Riverside County Flood Control & Water Conservation District	The Riverside County Flood Control-led project will replace an existing 52-year old earthen channel with a higher capacity concrete-lined channel (with an earthen bottom) to convey the 100-year flow and significantly reduce the floodplain to be contained within the channel. Approximately 5,900 linear feet of trapezoidal and rectangular channel as well as culverts along street crossings will be replaced. This project will also construct two water quality basins to reduce runoff pollutants from adjacent land and infiltrating the stormwater runoff.	78	Ready to implement	Water Quality, Flood Management
Lakeland Village MDP Line H	Riverside County Flood Control & Water Conservation District	This project will construct 7,177 feet of underground storm drain pipes as well as any lateral system and additional drainage structures located in the Lakeland Village community near Lake Elsinore. This project will capture stormwater in the nearby foothills with a sediment/debris basin to be constructed in order to capture as much sediment as possible in order to prevent it from entering the impaired Lake Elsinore.	76	Ready to implement	Water Quality, Flood Management
Calimesa Channel Stage 3	City of Calimesa	The City of Calimesa-led project will provide flood protection and reduce erosion along Calimesa Creek and adjacent public facilities. This project will be broken up into two phases. Phase 1 includes the construction of approximately 1,700 feet of storm drains along County Line Road. Phase 2 includes construction of approximately 350 feet of storm drain tying into the existing trapezoidal channel and a 53 acre-foot detention basin. There is also a concurrent plan to utilize the basin as a groundwater recharge basin in partnership with South Mesa Water District to potentially expand on water supply needs.	71	In design	Water Supply, Flood Management
Good Hope – Olive Avenue Storm Drain, Stages 1 and 2	Riverside County Flood Control & Water Conservation District	Construction of Olive Avenue Storm Drain, Stages 1 and 2. It is designed to intercept the 100-year flow rates at proposed collection points and convey them to an existing culvert outlet located at Highway 74. There are numerous flood complaints in this area of Good Hope and this storm drain is meant to mitigate reoccurring flooding issues from impacting residents. Further studies are being conducted in order to determine if the proposed detention basin has infiltration capacity to facilitate water quality benefits.	68	In design	Water Quality, Flood Management
Eastvale Line D	Riverside County Flood Control & Water Conservation District	This is a collaborative project between the District and the Jurupa Community Services District (JCSD) to divert dry weather flows from an existing District-owned storm drain to a JCSD sanitary sewer line with the goal of addressing bacteria issues in the Middle Santa Ana River. The water quality enhancement project is planned to include various size pipe and various appurtenant features. The District intends to fund the entire design and construction of the project.	66	Conceptual	Water Quality, Water Supply

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Eastvale Line E	Riverside County Flood Control & Water Conservation District	This is a collaborative project between the District and the Jurupa Community Services District (JCSD) to divert dry weather flows from an existing District-owned storm drain to a JCSD sanitary sewer line with the goal of addressing bacteria issues in the Middle Santa Ana River. The water quality enhancement project is planned to include various size pipe and various appurtenant features. The District intends to fund the entire design and construction of the project.	66	Conceptual	Water Quality, Water Supply
Lakeview Subbasin Recharge Feasibility Study	Eastern Municipal Water District	The purpose of the Eastern Municipal Water District (EMWD) Lakeview Subbasin Recharge Feasibility Study (Study) is to evaluate the feasibility of recharging water in the Lakeview Subbasin (Subbasin) via surface infiltration of local stormwater and imported surface water. This Study is a continuation of a feasibility review completed by Woodard & Curran in July 2019 and December 2021 with the long-term goal to collect additional hydrogeologic data to further evaluate the feasibility of a recharge project in the Subbasin for conjunctive use and/or banking.	64	Conceptual	Water Supply, Flood Management
Day Creek Channel Water Conservation Restoration	Riverside County Flood Control & Water Conservation District	This project will restore function to a water conservation/habitat area that was constructed within Day Creek Channel, Stage 5, using available funds from the Day Creek Area Drainage Plan. This project is not fully scoped, and the budgeted amount will be refined as more details become available.	58	Conceptual	Water Supply, Environmental
Marshall Creek, Stage 1	Riverside County Flood Control & Water Conservation District	An improvement of the existing Marshall Creek Channel. The unimproved channel has been subject to various flood complaints including erosion, sedimentation, vegetation overgrowth, and damage to private property. This improvement will most likely be a combination of open channel and underground reinforced concrete box. The project will provide flood protection and convey 100-year storm flows.	57	In design	Water Quality, Flood Management, Community
Bedford Canyon Channel, Stage 1	Riverside County Flood Control & Water Conservation District	Construct a flood control channel along the Bedford Canyon Wash to safely convey the 100-year storm flows. This will also reduce the amount of instream erosion and sediment build-up produced along the existing natural channel. This project is exploring the option for the channel invert to have the ability to infiltrate stormwater flows. This sediment builds up in a city-owned concrete channel. This project will also provide space for a future trail alongside the channel that would offer recreational opportunities for the community.	56	In design	Flood Management

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Temescal Basin Stormwater Capture and Recharge	City of Corona, Utilities Department	Significant rainfall events in the watersheds surrounding the Temescal Groundwater Basin generate large volumes of runoff that currently flows through stormwater systems designed solely for flood control. In pre-development conditions much of this runoff infiltrated and recharged groundwater. However, urban development has increased impermeable area focused runoff to detention ponds and lined stormwater channels, limiting opportunities for groundwater recharge. Further, private development in the area often includes onsite stormwater detention and/or retention systems that are not well cataloged. The City of Corona (City), in its role as a member of the Temescal Basin Groundwater Sustainability Agency, plans to study opportunities for modifying existing stormwater infrastructure or adding new infrastructure for the purpose of increasing stormwater capture for groundwater recharge. The City conducted a preliminary investigation of potential stormwater capture in 2011 that indicated there may be significant available water during large precipitation events (Todd 2011). However, that study needs to be updated to include recent climate conditions and future climate change estimates. The study would include the following (1) assess and document existing stormwater systems throughout the Temescal Basin, including mapping all public and private stormwater infrastructure, (2) update hydrologic analysis of available stormwater, including assessment of differences with climate change, (3) assess benefits to groundwater using numerical model simulations, and (4) assess feasibility of converting existing stormwater infrastructure to recharge facilities.	48	Conceptual	Water Quality, Water Supply
Sedco MDP Line F-2	City of Wildomar	The City of Wildomar-led project extends the existing Sedco MDP Line F-2 to capture flows tributary to Lemon Street/Gafford Road and direct them to the nearby Sedco MDP Basin. Proposed project consists of 600 LF of 42" reinforced concrete pipe and 530 LF of 54" reinforced concrete pipe. This project will provide flood protection to the area and address sediment issues along Lemon Street that will be prevented from entering the impaired Lake Elsinore.	48	Conceptual	Water Quality, Flood Management