



AGENDA

Environmental Cleanup Allocation Committee

Committee Members

Garry Brown, Chair
Keith Linker, Vice Chair
Matt Collings, Moulton Niguel Water District
Peter Grant, City of Cypress
Jarad Hillenbrand, City of Laguna Hills
Tyler Holst, Rancho Mission Viejo
Michael Jones, Santa Ana RWQCB
Danny H. Kim, California State University, Fullerton
Lorrie Lausten, Trabuco Canyon Water District
Erica Ryan, San Diego RWQCB
Hector Salas, Caltrans District 12
Grant Sharp, OC Public Works
Alex Waite, City of Tustin
Vacant, District 3

September 12, 2024, 10:30 a.m.

Orange County Transportation Authority
550 S. Main Street, Conference Room 09
Orange, California

1. Welcome

2. Approval of December 7, 2023 Meeting Minutes

3. Tier 1 and Tier 2 Programming Recommendations

Alison Army, OCTA

Action Recommendations:

- A. *Concur with the application review committee's recommendation and recommend approval to the Board of Directors to allocate \$3,712,423 in Tier 1 Environmental Cleanup Program funding for 11 projects.*

- B. *Concur with the application review committee's recommendation and recommend approval to the Board of Directors to allocate \$6,967,250 in Tier 2 Environmental Cleanup Program funding for four projects.*

4. Future of Tier 2 Program

Dan Phu, OCTA

5. Master Purchase Agreement for Tier 1 Equipment and Installation

Alison Army, OCTA

6. Public Comments

7. Committee Member Reports

8. Next Meeting – January 2025

Public Comments: The Agenda descriptions are intended to give notice to members of the public of a general summary of items of business to be transacted or discussed. Members from the public wishing to address the Committee will be recognized by the Chairman at the time the Agenda item is to be considered. A speaker's comments shall be limited to three (3) minutes. Any person with a disability who requires a modification or accommodation in order to participate in this meeting should contact the OCTA at (714) 560-5725, no less than two (2) business days prior to this meeting to enable OCTA to make reasonable arrangements to assure accessibility to this meeting.



Minutes

Environmental Cleanup Allocation Committee

Committee Members Present

Garry Brown, Chair
Keith Linker, Vice Chair
Alex Waite, City of Tustin
Danny H. Kim, California State University, Fullerton
Grant Sharp, OC Public Works
Lorrie Lausten, Trabuco Canyon Water District
Michael Jones, Santa Ana RWQCB
Tyler Holst, Rancho Mission Viejo

Orange County Transportation Authority
550 South Main Street, Conference Room 07
Orange, CA
Thursday, December 7, 2023, at 10:30 am

Member(s) Absent

David Doyle, City of Aliso Viejo
Dennis Wilberg, City of Mission Viejo
Erica Ryan, San Diego RWQCB
Hector Salas, Caltrans District 12
Matt Collings, Moulton Niguel Water District
Peter Grant, City of Cypress

1. Welcome

Garry Brown called the Environmental Cleanup Allocation Committee (ECAC) meeting to order.

2. Approval of July 13, 2023, Minutes

A motion was made by Alex Waite, seconded by Grant Sharp to approve the July 13, 2023, ECAC meeting minutes. Motion passed unanimously.

3. Tier 1 Guidelines Revisions and Call for Projects

Alison Army, OCTA, and Adrian Salazar, OCTA, presented an overview of the revisions to the guidelines.

Committee Member Comments:

A committee member asked for clarification of the schedule, contingent on OCTA Board approval, if the call for Tier 1 would be released on February 12, 2024, with an application deadline of April 25, 2024. Adrian Salazar responded yes.

A committee member asked if they had an opportunity to assess the interest the cities had in applying for this round. Alison Army responded the last interest survey for Tier 1 was in late 2022 with 10 responses they were still interested. With the increased amount of \$600,000 the cities will have the opportunity to do some larger projects.

A committee member asked if the review would begin after all applications had been submitted, after April. Adrian Salazar responded yes, it would be the beginning to middle of June before the application processors would be asked to participate.

Action Recommendations:

- A. *Endorse the proposed revisions to the Comprehensive Transportation Funding Programs Guidelines for the Environmental Cleanup Program Tier 1 program.*
- B. *Recommend the Board of Directors approval to issue the 2024 Environmental Cleanup Program Tier 1 call for projects.*

Both items were taken as one motion, with the motion to approve made by Alex Waite, Keith Linker seconded. The motion was approved unanimously.

4. Tier 2 Guidelines and Call for Projects

Alison Army, OCTA, presented an overview of the revisions to the Tier 2 guidelines.

Committee Member Comments:

A committee member asked in reference to the ineligible expenditures bullet item, if there was a BMP (Best Management Practice) or water quality facility that was under-performing, would there be eligibility considerations for that. Alison Army responded that would be something they would deal with on a case-by-case basis, the emphasis of the bullet item is on features paid for with M2 funding. Dan Phu affirmed the response and added the intent is that it would not continue to be paid for with M2 funding.

A committee member asked how the Orange County Stormwater Tool (OCST) would eliminate some of the scoring questions such as performance, longevity, and the public benefits of the project that were used in the past. Alison Army responded that OCST will be used to calculate the technical scores; the Transportation Priority Index, the strategically affected areas (how dirty the water is before the project) and the load reduction benefits after the project is put in. There will still be traditional open-ended questions that will be scored by the evaluation committee. OCST will replace all of the calculations done by long hand and spreadsheet calculations in the earlier calls.

A committee member asked if they used Tier 2 monies to build a project, could Tier 1 monies be used later to enhance it or expand it. Dan Phu responded that would be vetted carefully on a case-by-case basis. Alison Army commented that the Tier 2 project benefits would be calculated without the benefit of the Tier 1 "enhancement" and the Tier 1 addition would need to have independent utility.

A committee member asked what the maximum Tier 2 funding limit was on the on the last Tier 2 call for projects. Dan Phu responded that the last Tier 2 call was in 2013 and the OCTA contribution was \$5 million max per project. The prior calls were funded against Bond revenues, which the committee elected to change. The current call is funded against the OCTA cash flow.

A committee member commented that larger projects compete better and expressed concern over losing a good project because of the funding cap of \$2.5 million and if there is a way to inquire about potentially raising the cap. Dan Phu responded It made more sense to have a higher contribution from OCTA and reduce the number of projects. With the 50% match, a cap of \$2.5 million would still allow for a \$5 million project.

A committee member asked if there were any Tier 2 projects in mind or were there any inquiries from agencies specifically asking for the Tier 2 call. Alison Army responded the timing was dependent on how many projects were out there potentially ready and the OCTA cashflow. Periodic surveys have been sent out and the last one indicated about six cities interested in Tier 2.

A committee member commented if projects came in and were geospatially grouped and the scoring criteria was then higher for the benefits of those projects, should that be looked at as a consideration and a more geographically balanced approach be considered for better distribution across other watershed projects. Dan Phu responded that has been the intent of Tier 1 and cities have participated in multiple rounds, but for Tier 2, it is a competitive program and risky to try and force projects if they are not there.

A committee member commented that since OCTA will be having more calls and have more Tier 2 funding available, being more flexible with the cap to support larger projects should be considered. There was no staff comment.

A committee member commented that it has been a decade since we had Tier 2 call and we are relearning the process with the goal of making further changes more frequently. Alison Army responded that having a more frequent call could get more projects out of the way quicker and then relook at the cap for those larger projects in the next call.

A committee member asked if any unused funds would be allowed to flow forward to the next call. Alison Army responded yes.

A committee member asked if increasing the frequency of the Tier 2 call for projects would reduce the amount of available cash for the next round. Dan Phu responded he did not think so but with the caveat that it is generated from the sales tax and subject to changes in the economy.

A committee member commented that when a project is awarded, there are three years to spend the money. Alison Army commented that for this call, the award would need be by the December 31, 2025, and there are three years to spend the funds.

A committee member commented that in the future he would like to advocate to increase the cap, and it is helpful to know how much money is available so the timing of the next round would be after there is reasonable assurance of any monies that would be coming back. Dan Phu responded 75% can be invoiced up front, then later the remaining 25%, causing a lag in the outflow of money. The current cap is as high as they can go as ongoing economic factors are looked at to ensure there is no jeopardy to projects already committed.

Action Recommendations:

- A. *Endorse the Comprehensive Transportation Funding Programs Guidelines developed for the 2024 Environmental Cleanup Program Tier 2 program.*
- B. *Recommend the Board of Directors approval to issue the 2024 Environmental Cleanup Program Tier 2 call for projects.*

Both items were taken as one motion, with the motion to approve made by Keith Linker and Alex Waite seconded the. The motion was approved unanimously.

5. Public Comments

There were no public comments.

6. Committee Member Reports

There were no member comments.

7. Next Meeting – TBD

8. Adjournment

The meeting adjourned at 11:25 a.m.



September 12, 2024

To: Environmental Cleanup Allocation Committee

From: Orange County Transportation Authority Staff

Subject: Comprehensive Transportation Funding Programs – Project X Tier 1 and Tier 2 2024 Call for Projects Programming Recommendations

Overview

The Orange County Transportation Authority's Environmental Cleanup Program provides Measure M2 funding for water quality improvement projects to address transportation-generated pollution. The 2024 Tier 1 and Tier 2 Grant Program call for projects was issued on February 12, 2024. Evaluations for grant applications are now complete, and a list of projects is presented for review and endorsement of recommended funding allocations.

Recommendations

- A. Concur with the application review committee's recommendation and recommend approval to the Board of Directors to allocate \$3,712,423 in Tier 1 Environmental Cleanup Program funding for 11 projects.
- B. Concur with the application review committee's recommendation and recommend approval to the Board of Directors to allocate \$6,967,250 in Tier 2 Environmental Cleanup Program funding for four projects.

Background

In May 2010, the Orange County Transportation Authority (OCTA) Board of Directors (Board) approved a two-tiered approach for the Measure M2 (M2) Project X Environmental Cleanup Program (ECP). The Tier 1 Grant Program is designed to mitigate the more visible forms of pollutants, such as litter and debris, which collect on roadways and in catch basins prior to being deposited in waterways and the ocean. The Tier 2 Grant Program consists of funding for regional, potentially multijurisdictional, capital-intensive projects which address non-visible forms of pollution such as heavy metals, organic chemicals, sediment, and other transportation-related pollutants.

ECP funds are available for Orange County local jurisdictions to purchase and install equipment and other related BMPs that supplement, not supplant, current water quality programs. Proposed projects must demonstrate a direct nexus to the reduction of transportation-related pollution, as developed and defined by OCTA's Environmental Cleanup Allocation Committee (ECAC).

To date, the Board has approved funding for 222 Tier 1 projects through 13 calls for projects (call), totaling over \$36 million. Two previous Tier 2 calls took place in 2012 and 2013 which resulted in funding 22 projects in the amount of \$28 million.

On February 12, 2024, the Board approved issuance of the current 2024 ECP Tier 1 and Tier 2 calls, making available approximately \$3.5 million to support a 14th call for the Tier 1 program, and approximately \$15 million to support a third call for the Tier 2 program.

Discussion

Tier 1

The ECP Tier 1 call application deadline was April 25, 2024. As of that date, 13 applications were submitted from 13 local jurisdictions. However, during the application evaluation process, the applications submitted from the cities of Buena Park and Orange were removed from the process due to the cities being found ineligible to receive M2 net revenues by the Board on May 28, 2024. The Board action excludes them from participating in M2 competitive programs until they are deemed eligible by the Board. The remaining 11 applications were reviewed and evaluated by an application review committee consisting of OCTA staff and two members of the ECAC. Project applications were evaluated based on Board-approved Tier 1 selection criteria, which included the following:

- Effectiveness at removing trash and debris;
- Cost/benefit analyses;
- Pollution-reducing benefits;
- Project readiness;
- Adequacy of proposed operations and maintenance plans; and
- Submission of clear and detailed work plans with specific implementation timing documented.

Based upon evaluation of these key criteria, the application review committee is recommending that 11 Tier 1 projects be funded in the amount of \$3,712,423 (Attachment A). The projects recommended for funding were

deemed of good quality, demonstrating excellent return on investment towards environmental cleanup and consistent with the average scores of previously awarded projects. While the recommended award amount for Tier 1 projects is higher than the Board-authorized target of \$3.5 million, the funding recommendations align with previous cycles, which have historically fallen slightly below or above the Board authorized target.

The Tier 1 projects recommended for funding primarily consist of various catch basin debris screen devices including connector pipe screens (CPS), automatic retractable screens (ARS), full trash capture (FTC) units, grated inlet trash screens (GITS) as well as debris booms and a hydrodynamic separator (HDS).

More detailed project descriptions are outlined in Attachment B, and a brief overview of these project types is provided below.

- Catch basin debris screen devices: These devices prevent debris from entering the storm drain system through catch basins and primarily consist of CPS, ARS, FTC, and GITS type devices.
- A debris boom is a floating barrier placed across a channel to capture floating trash and debris which is collected and disposed of regularly and following storm events.
- An HDS utilizes a combination of swirl concentration and indirect screening to separate and capture trash and debris. The filtered water then passes into the separation area where suspended solids can settle, and runoff passes through. Trash and debris are captured and contained within the screen enclosure and vacuumed during maintenance.

As part of the Tier 1 program, local agencies agree to contribute a minimum cash match of 20 percent of total project costs. All recommended projects either meet or exceed this requirement.

Tier 2

The ECP Tier 2 call application deadline was on May 16, 2024. Four applications were submitted from four local jurisdictions. The project applications were evaluated using the Board-approved Tier 2 scoring criteria, which includes both technical and non-technical elements.

Technical scoring was conducted with the OC Stormwater Tools Planning Module which utilized project parameters input by the applicant. Scores were derived based on the proposed projects' nexus to transportation-related pollutants, water quality treatment needs, and the ability of the proposed project

to address specific water quality issues. The application review committee reviewed each application and provided non-technical scores taking into consideration project readiness, regional benefits, and co-benefits beyond water quality improvement (i.e., recreation, habitat, drainage, etc.).

Based upon the overall evaluation, the application review committee is recommending funding four Tier 2 projects in the amount of \$6,967,250 (Attachment C). All projects demonstrated that they meet the intent of M2 to address transportation-related pollution by providing effective water quality treatment.

More detailed project information can be found in Attachment C about the following Tier 2 projects recommended for funding:

- Santa Ana Zoo Stormwater Capture and Diversion Project (City of Santa Ana) – construct two underground stormwater filtration systems, install a hydrodynamic separation device and swales.
- Poche Beach Water Reclamation Project (City of San Clemente) – construct a low flow diversion system to address bacteria water quality.
- State College Boulevard Stormwater Capture and Conveyance Project (City of Anaheim) – repurpose 10,000 linear feet of abandoned sewer pipe to install underground dry wells for stormwater runoff treatment, capture, and infiltration.
- Newport Dunes Water Quality Improvement Project (City of Newport Beach) – construct infiltration galleries to capture dry weather flow.

As part of the Tier 2 grant program, local agencies agree to contribute a minimum cash match of 50 percent of total project costs, with opportunities to reduce the match based on project readiness. All recommended projects meet or exceed the match requirement and Anaheim was able to reduce its match to 40% by applying the match reduction benefit.

Next Steps

With the ECAC's endorsement of the application review committee's recommendations, OCTA staff will seek approval of the programming recommendations by the Regional Transportation Planning Committee and Board in October 2024.

Upon Board final approval, each funded agency will be required to execute a letter amendment (to their existing M2 Master funding Agreement) prior to project implementation. Once this process is complete, OCTA will initiate project monitoring and Board reporting through the Comprehensive Transportation Funding Programs semi-annual review and M2 quarterly reporting processes.

Summary

The M2 Project X ECP Tier 1 and Tier 2 application review committee recently completed its review of the 2024 applications. The ECAC is requested to endorse the application review committee’s proposal to fund 11 Tier 1 projects in the amount of \$3,712,423 and four Tier 2 projects in the amount of \$6,967,250 and advance the recommendation to the OCTA Board for approval.

Attachments

- A. Project X 2024 Tier 1 Call for Projects – Programming Recommendations
- B. Project X 2024 Tier 1 Call for Projects – Project Summaries
- C. Project X 2024 Tier 2 Call for Projects – Programming Recommendations and Project Summaries

2024 Project X Tier 1 Call for Projects – Programming Recommendations

Projects Recommended for Funding							
No	Agency	Project Title	Project Description	Local Match	Final Score	M2 Funding	Cumulative
1	County of Orange	Orange County Debris Boom Project 2024	Install four Debris Booms	20%	83	\$ 288,000	\$ 288,000
2	Mission Viejo	Trash and Runoff Abatement Project (TRAP): CPS-Mod™ & ARS-CL™ Installations in the Southwest Area	Install 31 CPS and 101 ARS units	20%	83	\$ 160,000	\$ 448,000
3	Huntington Beach	Trash Provision Compliance Full Capture System (FCS) Installation Project	Install 60 FTC units	20%	83	\$ 192,200	\$ 640,200
4	San Clemente	El Camino Real Vicinity Runoff Corridor Project	Install 47 CPS, 16 GITS units, and 208 ARS units	20%	82	\$ 328,000	\$ 968,200
5	Anaheim	Stormwater Catch Basin Screen Installation Project Phase 5 – FY 2024-2025	Install 485 CPS and 13 ARS units	20%	80	\$ 600,000	\$ 1,568,200
6	Fullerton	Installation of Full Capture Trash Devices in Catch Basins – 2024	Install 79 CPS and 16 GITS units	20%	78	\$ 188,352	\$ 1,756,552
7	Stanton	Western Storm Channel Grate Replacement Project	Install one Custom Inlet Grate	20%	78	\$ 20,240	\$ 1,776,792
8	Fountain Valley	Fountain Valley High Priority CPS Screen Installation	Install 320 CPS units	20%	76	\$ 392,931	\$ 2,169,723
9	Irvine	Catch Basin Connector Pipe Screen Installation Project – Phase 4	Install 344 CPS units	20%	74	\$ 357,760	\$ 2,527,483
10	Santa Ana	10th and Flower Stormwater Capture Project	Install one HDS, two Catch Basin Filter Inserts, three Bioretention Basins, and two Underground Infiltration Systems	56%	73	\$ 600,000	\$ 3,127,483
11	Seal Beach	Galleon Way at Electric Avenue Stormwater Treatment	Install one HDS and one ARS unit	20%	72	\$ 584,940	\$ 3,712,423

Projects Not Recommended for Funding †							
No	Agency	Project Title	Project Description	Local Match	Final Score	M2 Funding Request	Cumulative
12	Buena Park	Catch Basin Trash Device Project – Phase 6	Install 63 CPS, 39 GITS, and 52 ARS units	20%	N/A	\$ 356,000	\$ 4,068,423
13	Orange, City of	White Oak Ridge & Palmyra Avenue Water Quality Storm Drain Improvement Project	Install one HDS and five CPS units	20%	N/A	\$ 597,240	\$ 4,665,663

† The cities of Buena Park and Orange submitted Project X Tier 1 applications that were not considered for funding. Local jurisdictions were deemed ineligible to receive M2 funds by the OCTA Board of Directors on May 28, 2024.

Acronyms

- ARS - Automatic Retractable Screen
- BMP - Best Management Practice
- CPS - Connector Pipe Screen
- FTC - Full Trash Capture Unit
- FY - Fiscal Year
- GITS - Grated Inlet Trash Screen
- HDS - Hydrodynamic Separator
- M2 - Measure M2
- N/A - Not Applicable
- OCTA - Orange County Transportation Authority

2024 Project X Tier 1 Call for Projects – Project Summaries

No	Agency	Project Title	Project Highlights
1	County of Orange	Orange County Debris Boom Project 2024	The County of Orange proposes to install floating Debris Trash Booms at three locations in Orange County's San Gabriel River-Coyote Creek Watershed and one within the Newport Bay Watershed. This project will address trash, debris and related pollutants stemming from litter blown from freeways, arterial highways, and roads.
2	Mission Viejo	Trash and Runoff Abatement Project (TRAP): CPS-Mod™ & ARS-CL™ Installations in the Southwest Area	The City of Mission Viejo proposes to install 31 CPS and 101 ARS in catch basins located Citywide. These project locations target Priority Land Use (PLU) areas and will reduce stormwater pollution by preventing trash and pollutants from busy arterial roadways.
3	Huntington Beach	Trash Provision Compliance Full Capture System (FCS) Installation Project	The City of Huntington Beach proposes to implement the FCS Installation Project to comply with the State's Trash Provisions by installing 60 FTC Devices throughout the City. The City is retrofitting pump stations with full capture systems, since the centralized system is easier to maintain compared to multiple catch basin inserts.
4	San Clemente	El Camino Real Vicinity Runoff Corridor Project	The City of San Clemente proposes to install 47 CPS, 16 GITS and, 208 ARS units along a 4-mile section of El Camino Real in the lower San Clemente. The project runs parallel to the Pacific Ocean and all 74 CBs are between .36 and .75 miles from the ocean.
5	Anaheim	Stormwater Catch Basin Screen Installation Project Phase 5 – FY 2024 - 2025	The City of Anaheim proposes installing 485 CPS and 13 ARS devices to improve the removal of pollutants entering the water system, including area creeks, groundwater, and eventually the ocean. The project area is located in the Carbon Creek, Westminster, and Santa Ana River Watersheds.
6	Fullerton	Installation of Full Capture Trash Devices in Catch Basins - 2024	The City of Fullerton proposes to install 79 CPS and 16 GITS devices in priority area and non-priority catch basins. The City selected specific locations that are located in priority high traffic areas and non-priority areas, and do not have full capture or pollutant removal devices. The target locations also included centers with high pedestrian and vehicular traffic
7	Stanton	Western Storm Channel Grate Replacement Project	The City of Stanton proposes the removal of existing inlet grates and installation of one custom inlet grate manufactured by G2 Construction. This improvement aims to achieve enhanced stormwater capture, debris reduction, and water quality improvements.
8	Fountain Valley	Fountain Valley High Priority CPS Screen Installation	The City of Fountain Valley proposes to install 320 CPS units located in high-density residential and commercial areas of the city. These areas are the City's most dense priority land use (PLU) areas with high concentrations of industrial, commercial, bus stops, and driving routes.
9	Irvine	Catch Basin Connector Pipe Screen Installation Project – Phase 4	The City of Irvine proposes to purchase and install 344 CPS units within existing catch basins at various locations in Planning Areas 4. The proposed CPS locations were selected considering several factors such as development areas, increased vehicle/pedestrian traffic, the absence of stormwater treatment by a natural treatment system, drainage from Priority Land Use areas, and drainage to downstream receiving waters listed on the Clean Water Act
10	Santa Ana	10th and Flower Stormwater Capture Project	The City of Santa Ana proposes to install one HDS, two Catch Basin Filter Inserts, three Bioretention Basins, and two Underground Infiltration Systems. The Project is a multi-benefit project and features the installation of stormwater BMPs, designed to capture and infiltrate stormwater runoff from an 82-acre drainage area, including the proposed park and surrounding roadways, commercial, and residential land use areas.
11	Seal Beach	Galleon Way at Electric Avenue Stormwater Treatment	The City of Seal Beach's project is designed to upgrade stormwater management and enhance the drainage system capacity across a 16.24-acre area within a mixed urban neighborhood. The project will install one HDS and one ARS to efficiently redirect flow into the HDS with a bypass extension reconnecting to the Electric Avenue drainage system.

Acronyms

- ARS - Automatic Retractable Screen
- BMP - Best Management Practice
- CPS - Connector Pipe Screen
- FTC - Full Trash Capture Unit
- FY - Fiscal Year
- GITS - Grated Inlet Trash Screen
- HDS - Hydrodynamic Separator

2024 Project X Tier 2 Call for Projects – Programming Recommendations and Project Summaries

Projects Recommended for Funding							
No	Agency	Project Title	Project Description	Local Match ¹	Final Score	M2 Funding	Cumulative
1	Santa Ana	Santa Ana Zoo Stormwater Capture and Diversion (SAZSCAD) Project	Install two Underground Infiltration units, one Hydrodynamic Separator, two Vegetated Swales, and Pervious Pavement	63%	78	\$ 2,500,000	\$ 2,500,000
2	San Clemente	Poche Beach Water Reclamation Project	Install a low-flow diversion system to address bacteria water quality issues.	75%	67	\$ 2,500,000	\$ 5,000,000
3	Anaheim	State College Boulevard Stormwater Capture and Conveyance Project	Repurpose large diameter abandoned sewer pipe and install underground dry wells for stormwater runoff treatment, capture, and infiltration.	40%	61	\$ 1,500,000	\$ 6,500,000
4	Newport Beach	Newport Dunes Water Quality Improvement Project	Install one 2,000 square foot infiltration gallery and five 200 square foot infiltration galleries.	50%	61	\$ 467,250	\$ 6,967,250

¹Minimum local match is 50% with opportunities to reduce the match based on project readiness.

Project Summaries			
No	Agency	Project Title	Project Highlights
1	Santa Ana	Santa Ana Zoo Stormwater Capture and Diversion (SAZSCAD) Project	<ul style="list-style-type: none"> • Construct a large underground stormwater infiltration system in the primary parking lot of Santa Ana Zoo. • Construct a smaller underground stormwater infiltration system in the overflow parking lot. • Install a hydrodynamic separation device for pretreatment. • Other features: diversion structure, flow meter system, two vegetated swales, and pervious pavement. • Designed to capture and infiltrate approximately 54 acre-feet per year of stormwater runoff from the 180-acre tributary drainage area.
2	San Clemente	Poche Beach Water Reclamation Project	<ul style="list-style-type: none"> • Install a low-flow diversion system to address bacteria water quality issues at Poche Beach. • Located at outfall point of the 4,436-acre Poche Beach subwatershed. • Operational year-round; will divert all dry weather runoff from Prima Deshecha and Cascadita storm drains. • Treatment via membrane-filtration reverse osmosis. • Will reclaim 500 acre-feet per year for local water supply.
3	Anaheim	State College Boulevard Stormwater Capture and Conveyance Project	<ul style="list-style-type: none"> • Redirect stormwater runoff from overburdened Orange County Flood Control District facility. • Repurpose approximately 10,000 linear feet of large diameter abandoned sewer pipe by installing underground dry wells for stormwater runoff treatment, capture, and infiltration. • Designed to capture, retain, and infiltrate approximately 63.2 acre-feet of water per year.
4	Newport Beach	Newport Dunes Water Quality Improvement Project	<ul style="list-style-type: none"> • Construct a 2,000 square-foot infiltration gallery within the beach, east of the lagoon. • Construct five 200 square-foot infiltration galleries adjacent to existing catch basins. • Designed to capture all dry weather flow of up to 5,000 gallon per day. • Dry weather flows infiltrate underlying beach sand prior to flowing into the lagoon.