



**Proposition 1E Stormwater Flood Management Grant Proposal**  
**Lake Wohlford Dam Replacement Project**  
**Attachment 11: Program Preferences**

Attachment 11 consists of the following item:

- ✓ **Program Preferences.** This attachment contains information regarding how the *Lake Wohlford Dam Replacement Project* contributes to the Program Preferences established by PRC §75026.(b) and CWC §10544.

**Program Preferences**

The Program Preferences described in Section II.F of the IRWM Grant Program Guidelines are those set forth in PRC §75026.(b) and CWC §10544. These preferences are summarized in Table 11-1.

**Table 11-1: Program Preferences and Statewide Priorities**

<b>Program Preferences</b>	<b>Statewide Priorities</b>
1. Include regional projects or programs	1. Drought Preparedness
2. Effectively integrate water management programs and projects within a hydrologic region identified in the California Water Plan; RWQCB region or subdivision; or other region or sub-region specifically identified by DWR	2. Use and Reuse Water More Efficiently
3. Effectively resolve significant water-related conflicts within or between regions	3. Climate Change Response Actions
4. Contribute to attainment of one or more of the objectives of the CALFED Bay-Delta Program	4. Expand Environmental Stewardship
5. Address critical water supply or water quality needs of disadvantaged communities within the region	5. Practice Integrated Flood Management
6. Effectively integrate water management with land use planning	6. Protect Surface Water and Groundwater Quality
7. For eligible SWFM funding, projects which: a) are not receiving State funding for flood control or flood prevention projects pursuant to PRC §5096.824 or §75034 or b) provide multiple benefits, including, but not limited to, water quality improvements, ecosystem benefits, reduction of instream erosion and sedimentation, and groundwater recharge.	7. Improve Tribal Water and Natural Resources
8. Address Statewide priorities ( <i>see right</i> )	8. Ensure Equitable Distribution of Benefits

This grant proposal is ready to proceed, and is included within the online database of San Diego IRWM projects. As a result of the thorough analysis that was completed with respect to all attachments of this application, and specifically with respect to monitoring, assessment, and performance measures (refer to Attachment 6), it is **fully certain** that this proposal will provide the benefits described below.

This proposal will address each of the aforementioned Program Preferences on a local, regional, or statewide scale. These terms, used to define the breadth and magnitude to which each project addresses the Program Preferences, are defined as follows:

- *Local:* Benefits are focused locally within the project area.
- *Regional:* Benefits extend throughout the San Diego IRWM Region (Region).
- *Statewide:* Benefits are widespread and will benefit not only the Region, but also other areas throughout California.

Table 11-2 identifies the Program Preferences that will be addressed by the proposal, and demonstrates the magnitude and breadth to which each Program Preference will be addressed.

**Table 11-2: Proposal with Program Preferences**

	1: Regional Projects	2: Integrate Water Mgmt	3: Resolve Conflict	4: Bay-Delta Objectives	5: Benefits DACs	6: Land Use Planning	7: Eligible SWFM Funding	8: Statewide Priorities
<i>Lake Wohlford Dam Replacement Project</i>	✓	✓	✓	✓	✓	✓	✓	✓
Degree of Certainty Preferences Will Be Addressed	HIGH	HIGH	HIGH	MED	HIGH	HIGH	HIGH	HIGH
Magnitude and Breadth to Which Preference will be Addressed	Reg	Reg	Reg	State	Reg	Local	Reg	Reg

**Program Preference 1: Include Regional Projects or Programs**

Due to its role as a water supply source and flood control structure for the City of Escondido, the *Lake Wohlford Dam Replacement Project* is a regional project. As evident in Figure 7-1 (see Attachment 7), flood reduction benefits associated with this proposal will span through a large portion of the San Diego IRWM Region. Specifically, the potential inundation zone that could occur if the existing Wohlford Dam were to fail would span through multiple cities and across a large portion of northern San Diego County. As such, this proposal is considered regional pursuant to CWC §10544, and it is fully certain that this proposal will adhere to this Program Preference on a regional level.

**Program Preference 2: Effectively Integrate Water Management Programs and Projects within the San Diego IRWM Region**

This proposal will address the Program Preference by effectively integrating water supply, habitat protection, flood control, and water quality improvement efforts. Activities associated with this grant proposal are located within the City of Escondido and portions of San Diego County, which are included within the San Diego IRWM Region. In addition, by meeting six of the nine objectives set forth within the adopted San Diego IRWM Plan, this proposal will effectively integrate with other projects and programs being implemented as part of the San Diego IRWM program.

**Program Preference 3: Effectively Resolve Significant Water-Related Conflicts**

The San Diego IRWM Plan Objectives were established as a result of an open and transparent stakeholder process, where all Regional Water Management Group (RWMG), Regional Advisory Committee (RAC), and other stakeholders were invited to voice their significant issues and conflicts within the region. As stated previously, this proposal addresses six of the nine objectives set forth within the San Diego IRWM Plan, and therefore effectively resolves water-related conflicts identified by San Diego’s comprehensive stakeholder group. In addition, this proposal resolves local funding issues by aiming to increase outside sources of funding for a critical water supply and flood control infrastructure project. This proposal will help to alleviate regional conflicts associated with a short supply of regional funding.

In addition, this project will allow the City of Escondido to increase the local water supply of Lake Wohlford from 2,800 to 6,500 AF. Water supplies within Lake Wohlford are currently utilized by the City of Escondido. The City must supplement any additional needed water supplies with imported water that they receive through the San Diego County Water Authority (SDCWA). By increasing local water supplies, this project will reduce demands on SDCWA imported water sources that come from the State Water Project (SWP) and the Colorado River Aqueduct (CRA). There has been a substantial amount of regional and statewide conflict associated with imported water supplies, both from a historical and a current perspective. These conflicts are expected to increase in the future with environmental, legal, and climate change related issues. By increasing local water supplies and reducing demands on imported water supplies, this project will help to resolve significant water-related conflicts associated with imported water.

Due to the degree of analysis performed on these projects, it is fully certain that this proposal will meet the Program Preference of effectively resolving significant water-related conflicts throughout the San Diego Region (on a regional level).

**Program Preference 4: Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program**

The CALFED Bay-Delta Program has the following four objectives:

- *Water Quality*: to invest in projects that improve the State’s water quality from source to tap.
- *Water Supply*: comprised of five critical elements: conveyance, storage, environmental water account, water use efficiency and water transfer.
- *Ecosystem Restoration*: aims at restoring habitats, ecosystem functions, and native species.
- *Levee Integrity*: to protect water supplies by reducing the threat of levee failures.

The *Lake Wohlford Dam Replacement Project* indirectly contributes to one of the four CALFED Bay-Delta Program objectives: water supply. However, because of the variability in local precipitation, especially given potential climate change impacts, there is medium certainty about how well it will meet the Program Preference of contributing to the CALFED Bay-Delta Program.

*Water Supply*: This project will allow the City of Escondido to store local runoff within a new dam constructed to modern seismic safety standards. This increase in local storage capacity will improve the reliability of this local water supply source. Currently, the San Diego Region supplements the majority (between 80 and 90 percent) of its water supply with imported water that is partially supplied from the Sacramento-San Joaquin Bay Delta. By improving the reliability and quality of local water supplies, this project could potentially reduce future demands on imported Bay-Delta water.

**Program Preference 5: Address Critical Water Supply or Water Quality Needs of DACs**

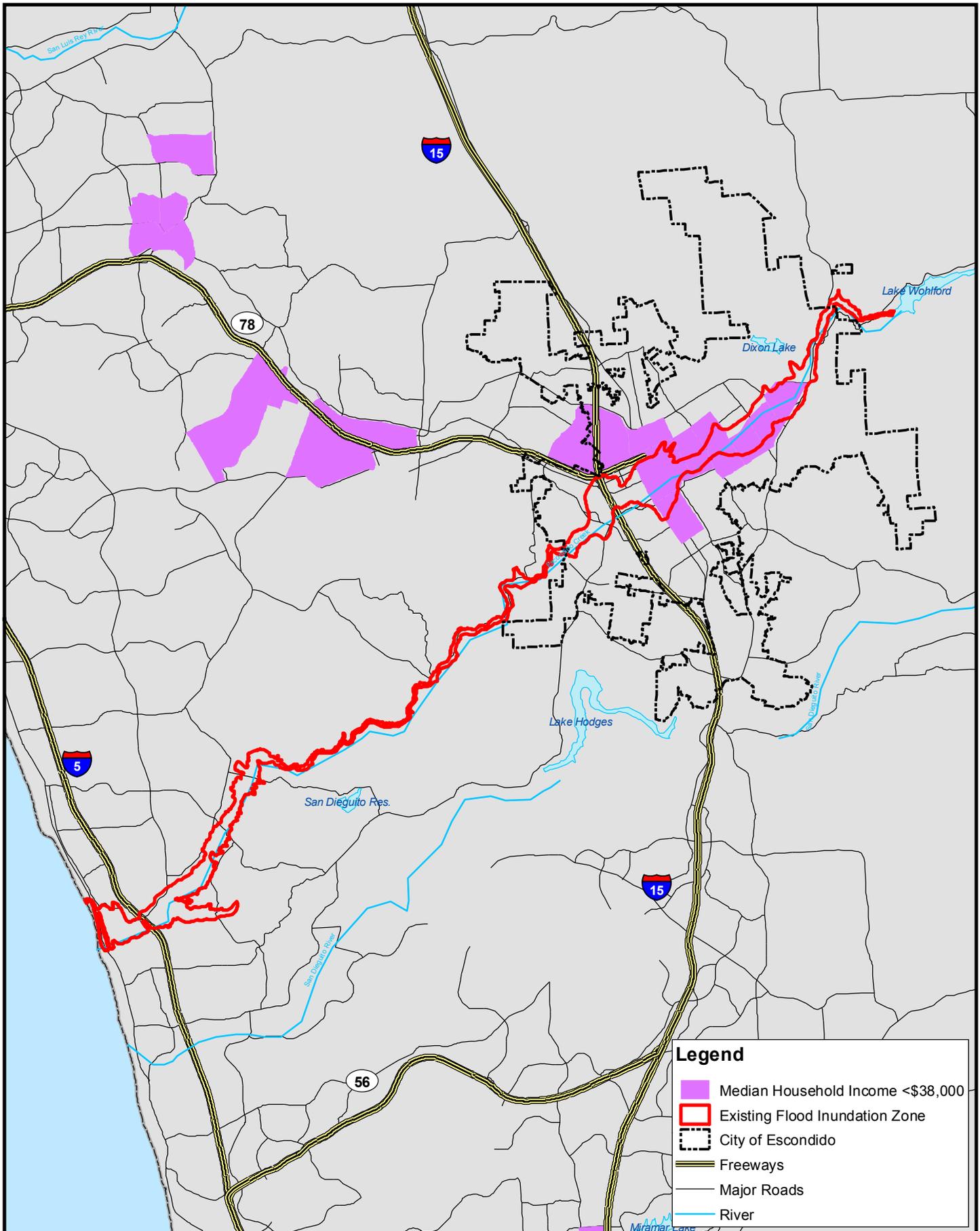
DWR specifies that preference will be given to proposals that include safe drinking water and water quality projects that serve disadvantaged communities (DACs). The *Lake Wohlford Dam Replacement Project* will benefit DACs within the City of Escondido and downstream areas by protecting those populations from loss of life and property due to potential failure of the dam. As demonstrated within Figure 11-1, the *Lake Wohlford Dam Replacement Project* will ensure that downstream DACs are not inundated during or following an earthquake that compromises the integrity of the existing dam structure. As shown in the figure, all downstream Census tracts containing DACs are located within the City of Escondido and contain local residents. Due to the degree of analysis performed on these projects, it is fully certain that this grant proposal will meet the Program Preference of addressing critical water supply or water quality needs of DACs within San Diego region (on a regional level).

**Program Preference 6: Effectively Integrate Water Management with Land Use Planning**

The Community Protection and Safety Element of the existing General Plan for the City of Escondido contains policies related to seismic and flood-related hazards. Specifically, Flood Policy D2.5 states that, “The dams at Lakes Dixon and Wohlford shall be inspected periodically to ensure safe operation and maintenance and to minimize the risk of failure.”

This project will directly meet requirements set forth within Flood Policy D2.5, because it will include inspection of the future Lake Wohlford Dam to ensure that it meets seismic-related safety hazards. In addition, by replacing Lake Wohlford Dam with a structurally- and seismically-sound dam, this project will meet other requirements set forth within the Community Protection and Safety Element related to seismicity and emergency/evacuation response. Concurrence between this project and the General Plan for the City of Escondido indicates that water management aspects of the *Lake Wohlford Dam Replacement Project* are effectively integrated with land use planning efforts. Due to the degree of analysis performed on these projects, it is fully certain that this grant proposal will meet the Program Preference of integrating water management with local land use planning (on a local level).

**Figure 11-1: Disadvantaged Communities within the Project Area**



U.S. Census Bureau, 2000 Census, Median Household Income by Census Tract, Available: [http://www.sandag.cog.ca.us/resources/maps\\_and\\_gis/gis\\_downloads/admin.asp](http://www.sandag.cog.ca.us/resources/maps_and_gis/gis_downloads/admin.asp)  
Tribal Lands, Available: [http://www.sangis.org/Download\\_GIS\\_Data.htm](http://www.sangis.org/Download_GIS_Data.htm)

**Program Preference 7: Qualifications for Eligible Stormwater Flood Management Funding**

DWR Guidelines note that preference will be given to proposals that provide multiple benefits, including, but not limited to, water quality improvements, ecosystem benefits, reduction of instream erosion and sedimentation, and groundwater recharge. The multiple benefits expected as a result of the *Lake Wohlford Dam Replacement Project* are described throughout Attachments 7 through 10 of this grant proposal. Replacement of the existing Lake Wohlford Dam with a seismically-sound dam are anticipated to provide substantial flood reduction, water supply, water quality, recreational, and habitat benefits throughout the project area (locally) and throughout the San Diego Region. Therefore, this proposal meets requirements set forth by DWR for eligible stormwater flood management funding. Due to the degree of analysis performed on this project, it is fully certain that this grant proposal will meet the Program Preference on a regional level.

**Program Preference 8: Address Statewide Priorities**

This proposal will directly address all nine Statewide Priorities established by DWR. Table 11-3 demonstrates the Statewide Priorities that are addressed by the *Lake Wohlford Dam Replacement Project*. Based on the level of analysis completed for this project, it is fully certain that this grant proposal will achieve the Statewide Priorities on a regional level (throughout the San Diego Region).

**Table 11-3: Proposal with Statewide Priorities**

Proposed Projects	Drought Preparedness	Reuse Water More Efficiently	Climate Change Response Actions	Expand Environmental Stewardship	Practice Integrated Flood Management	Protect Surface/ Groundwater Quality	Improve Tribal Water/Natural Resources	Ensure Equitable Distribution of Benefits
<i>Lake Wohlford Dam Replacement Project</i>	✓	✓	✓	✓	✓	✓	✓	✓

**Drought Preparedness:** DWR Guidelines note that this priority applies to proposals that contain projects that effectively address long-term drought preparedness by contributing to sustainable water supply and reliability during water shortages. The 2005 Urban Water Management Plans for the Vista Irrigation District and City of Escondido note that Lake Wohlford (as a local reservoir) is utilized in drought situations for storage and emergency supplies. One of the objectives of this project is to increase local emergency supply reliability by increasing the local storage capacity of Lake Wohlford. This objective is projected to be realized following project construction in 2015 when the City of Escondido hopes to restore Lake Wohlford to its design storage capacity of 6,500 AF.

As stated within Attachment 6, this objective would be monitored to ensure that the *Lake Wohlford Dam Replacement Project* effectively addresses long-term drought preparedness by increasing local water supply reliability.

**Use and Reuse Water More Efficiently:** DWR Guidelines state that this priority applies to proposals that include projects that implement water use efficiency, water conservation, recycling and reuse to help meet future demands, increase water supply reliability, and adapt to climate change. Replacing the existing Lake Wohlford Dam would increase the amount of stormwater runoff that can be captured and stored within Lake Wohlford. Past studies demonstrate that Lake Wohlford previously reached its design capacity of 6,500 AF following winter rain events. Because the City of Escondido is currently required to maintain the Lake Wohlford Dam at a reduced level of 2,800 AF, supplies that could be held within Lake Wohlford and used at future times are transferred or released for other purposes. Therefore, implementation of this project will allow the City of Escondido to directly increase water use efficiency by increasing reuse of local stormwater.

**Climate Change Response Actions:** DWR Guidelines state that this priority applies to water management actions that will address the key climate change issues of adaptation to climate change, reduction of

greenhouse gas emissions, and reduction in energy consumption. The guidelines note that desirable proposals include those that use and reuse water more efficiently. As noted in the section above, the *Lake Wohlford Dam Replacement Project* would substantially increase the stormwater capture and storage potential of Lake Wohlford, which will increase utilization of stormwater as a local water supply source. By avoiding purchase of additional imported water supplies needed to meet local demands, the City of Escondido is reducing the amount of greenhouse gas emissions that are released with long-distance pumping and transport of SWP and CRA water to Southern California. Further, replacement of the aging dam infrastructure will strengthen the City's water management system and enable handling of 'flashier' storm events anticipated with future climate changes with minimal downstream flood damage.

*Expand Environmental Stewardship:* DWR Guidelines note that this priority applies to proposals that contain projects that practice, promote, improve, and expand environmental stewardship to protect and enhance the environment by improving watersheds, floodplains, and instream functions and to sustain water and flood management ecosystems. One of the benefits of the *Lake Wohlford Dam Replacement Project* is that this project will increase aquatic and terrestrial habitat associated with Lake Wohlford. According to the San Diego RWQCB, Lake Wohlford currently includes uses of water that support terrestrial and aquatic ecosystems. This project will increase the breadth of those uses by directly increasing terrestrial and aquatic habitat associated with Lake Wohlford, which will therefore continue to sustain water and flood management ecosystems.

*Practice Integrated Flood Management:* DWR Guidelines note that this priority pertains to proposals that contain projects that promote and practice integrated flood management to provide multiple benefits such as improved flood protection, more sustainable flood and water management systems, enhanced floodplain ecosystems, and LID techniques that store and infiltrate runoff while protecting groundwater. The primary goal of the *Lake Wohlford Dam Replacement Projects* is to mitigate the potential for severe downstream flood inundation to occur due to failure of the existing Lake Wohlford Dam. In addition, this project has other objectives associated with increasing local water supply sustainability, improving downstream water quality, and expanding recreational uses. As such, this project would directly practice flood management while providing multiple benefits for the local water systems.

*Protect Surface Water and Groundwater Quality:* DWR Guidelines note that this priority pertains to proposals that include protecting and restoring surface water and groundwater quality to safeguard public and environmental health and secure water supplies for beneficial uses. Water quality improvements expected as a result of the *Lake Wohlford Dam Replacement Project* would be provided to downstream water bodies. Water quality issues within Escondido Creek and San Elijo Lagoon are substantial, and threaten the beneficial uses of these water bodies. By eliminating sedimentation and resulting water quality concerns associated with seismic-induced dam failure, the *Lake Wohlford Dam Replacement Project* would protect the future water quality of all downstream tributaries of Lake Wohlford to safeguard public and environmental health and secure water supplies for beneficial uses.

*Improve Tribal Water and Natural Resources:* DWR Guidelines note that this priority pertains to proposals that include the development of Tribal consultation, collaboration, and access to funding for water programs and projects to better sustain Tribal water and natural resources. Water from Lake Wohlford is currently released to the La Jolla Indian Tribe for recreational purposes. In the future, water from Lake Wohlford may also be used by the Rincon and San Pasqual Tribes for water supply purposes, and would be delivered in part through the Escondido Canal. As described within Attachment 7 of this grant proposal, the *Lake Wohlford Dam Replacement Project* will increase operational reliability and supply reliability of Lake Wohlford, which will make this water supply more reliable for all water users. Therefore, the *Lake Wohlford Dam Replacement Project* would potentially increase water supply reliability for local tribes when they receive Lake Wohlford water in the future.

*Ensure Equitable Distribution of Benefits:* DWR Guidelines note that this priority pertains to proposals that develop multi-benefit projects with consideration of affected DACs and vulnerable populations and contain projects that address safe drinking water and wastewater treatment needs of DACs. As noted previously, the *Lake Wohlford Dam Replacement Project* would address flooding hazards and stormwater quality issues in City of Escondido DACs (refer to Figure 11-1). This attachment has served to demonstrate that this project would provide multiple benefits to the San Diego Region and the State of California, and therefore qualifies as a multi-benefit project that considers vulnerable populations.