Attachment 7: Disadvantaged Community

DAC Map

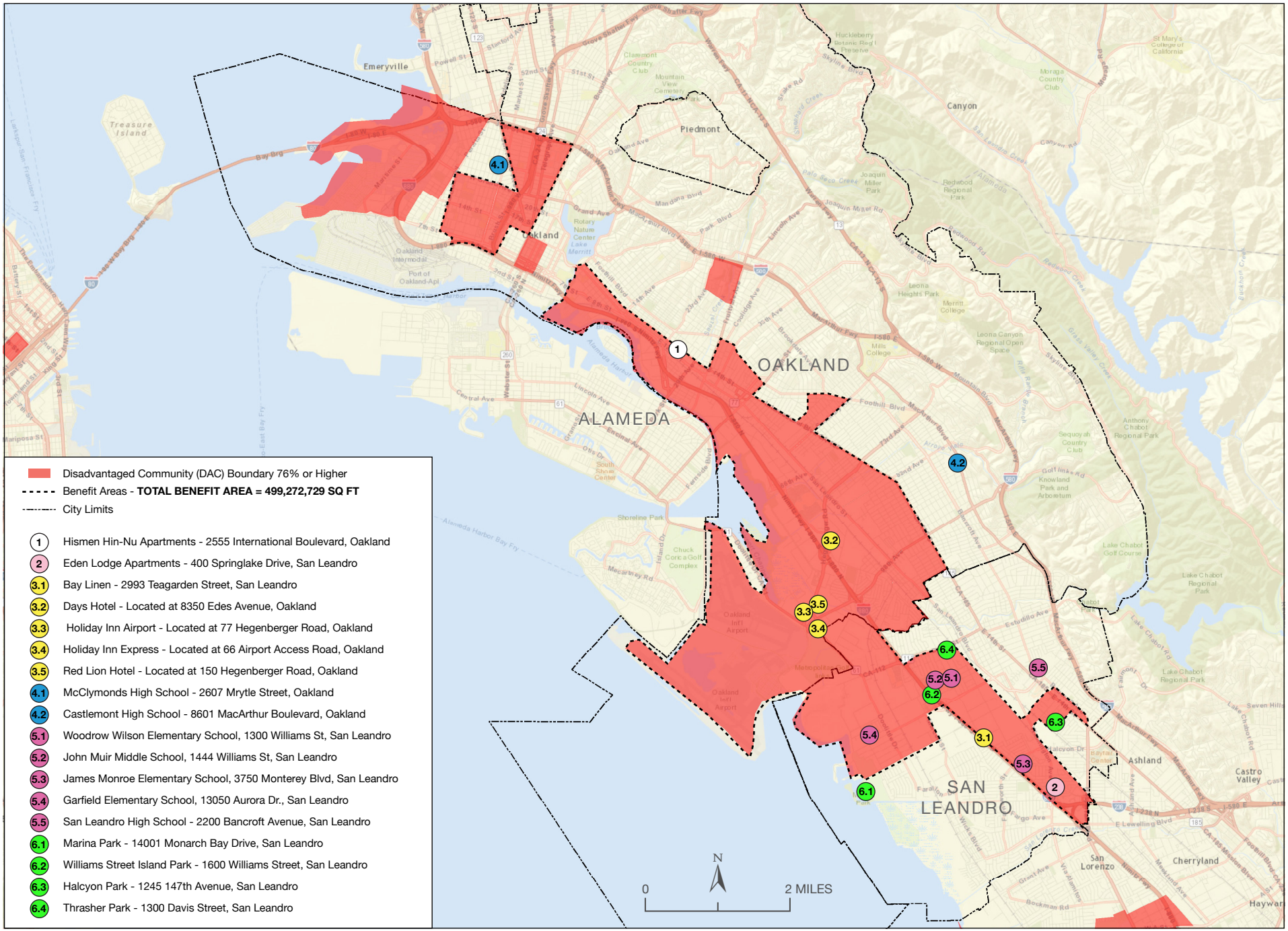
Attachment 7, Figure 1 was generated using Option 1 from the Department of Water Resources' 2014 Water-Energy Grant Guidelines. The CalEnviroScreen 2.0 Mapping geodatabase was downloaded and census tracts were set to scores higher than 76%, following the instructions provided in the Guidelines. The geodatabase was modified slightly to accurately reflect the 76% scores. Project locations, city limit boundaries, and the project benefit area were added to the census tract data.

The Benefit Area is the 76% or higher DAC areas immediately surrounding or adjacent to the project locations. The water supply reliability and utility cost savings will be realized directly in these benefit areas.

The GIS data used to create Figure 1, and the maps included in Attachment 3 are included with file 2 of Attachment 7.

ATTACHMENT 7

Figure 1 – Oakland and San Leandro Project Locations and DAC Benefit Areas



DAC Benefit Description

All six projects in *Water-Energy Upgrades in Alameda County DACs* benefit Disadvantaged Communities as defined by the California Communities Environmental Health Screening Tool (76% of higher). Of the 18 facilities included in this program, 14 are physically located within a DAC. The four projects that are not directly located in a DAC will provide direct, meaningful and assured benefits to a DAC, as defined by the California Environmental Protection Agency Air Resources Board's draft criteria to evaluate the investment benefits of projects in Disadvantaged Communities.[1]

All the projects are in the neighboring cities of San Leandro and Oakland, two historically underserved communities that are burdened with more than their fair share of pollution and environmental degradation. The *Water-Energy Upgrades in Alameda County DACs* projects will provide direct, meaningful, and assured benefits to Disadvantaged Communities in these cities by saving water and energy, reducing GHG emissions, increasing water supply reliability, and reducing utility service costs; 100% of the increased water supply reliability and reduced utility service costs will benefit DACs. The Benefit Area of the proposed projects to DACs is 499,272,729 square feet or 11,462 acres.

These benefits will result from the installation of indoor and outdoor water- and energy-efficiency measures in residential, commercial and industrial facilities. Indoor efficiency measures will include installation of high efficiency toilets, showerheads and faucets, leak repairs, central water heating system upgrades, retrofitting commercial laundry equipment with ozone technology, and upgrades to commercial kitchen refrigeration and water heater pumps.

Outdoor efficiency measures will include swimming pool upgrades (power winders for pool covers, solar heating, cogeneration systems), irrigation system improvements, and conversion of high water-using lawns to low water-using, climate-adapted landscapes. The landscaping improvements in this project will have significant secondary benefits to DACs, including reducing stormwater runoff and the potential for flooding, reducing or eliminating the use of potentially harmful herbicides and other landscaping chemicals, and providing wildlife habitat.

The four project site locations which are not directly within a DAC (three high school pools and one park) are major institutional resources to the nearby DAC community. In the case of the pools, these are the only pools that are both owned and managed by the school districts which serve the adjacent DACs that are in the same zip code and are within a five mile drive of the DACs. There are no pool facilities owned and managed by the school districts which are actually located within the DAC census tract for students to use. Marina Park in San Leandro is a large publicly accessible outdoor recreation area on the San Francisco Bay waterfront with significant water savings opportunities. The City of San Leandro Parks Department has verified, with actual picnic area reservation data, the significant use of the park by person's with physical addresses in the DACs in San Leandro, Union City and Hayward. The four project sites located outside of the CalEnviroScreen 2.0 76% or higher DACs directly benefit these communities and the water supply reliability and utility cost savings from the projects funded under this grant would benefit the community and the East Bay region.

The projects in this proposal also directly support the aggressive climate action plan goals of both cities: San Leandro aims to reduce GHG emissions by 25% by 2020, and Oakland aims for a 36% reduction. This proposal will help these two underserved communities achieve these important goals, and support California's GHG reduction goal.

[1] California Environmental Protection Agency Air Resources Board. Investments to Benefit Disadvantaged Communities. Revised Draft. August 22, 2014. Available at www.arb.ca.gov/auctionproceeds. Accessed December 10, 2014.

Individual project benefits are as follows:

Project Proponent	Facility	Located in a DAC	Direct Benefits to DAC	Secondary Benefits to DAC
East Bay Asian Local Development Corporation (EBALDC)	Hismen Hin-Nu Apartments	Yes. Criteria: Oakland top 20% of DAC census tracts identified by CalEnviroScreen 2.0	High efficiency toilets, showerheads, faucet aerators and leak repairs will improve indoor water use efficiency in 92 low-income housing units, saving 162 residents money on their utility bills. Upgrades to central water heating system and landscaping will improve facility-wide energy and water use efficiency. Reduced utility costs allow EBALDC to reinvest savings into community programs, further benefiting the DAC.	Sustainable landscape improvements have benefits beyond water efficiency, including reducing stormwater runoff, providing wildlife habitat, and reducing or eliminating the use of potentially harmful landscaping chemicals.
Eden Housing	Eden Lodge	Yes. Criteria: San Leandro top 20% of DAC census tracts identified by CalEnviroScreen 2.0	High efficiency toilets, showerheads, faucet aerators and leak repairs will improve indoor water use efficiency in 143 senior housing units, saving 161 residents money on their utility bills. Upgrades to central water heating system and landscaping will improve facility-wide energy and water use efficiency. Reduced utility costs allow Eden to reinvest savings into community programs, further benefiting the DAC.	Sustainable landscape improvements have benefits beyond water efficiency, including reducing stormwater runoff, providing wildlife habitat, and reducing or eliminating the use of potentially harmful landscaping chemicals.
Industrial Laundry Upgrades in Oakland and San Leandro	• Days Hotel • Holiday Inn Airport • Holiday Inn Express • Red Lion Hotel	Yes. Criteria: Oakland top 20% of DAC census tracts identified by CalEnviroScreen 2.0	Commercial laundry upgrades improve energy and water use efficiency in facilities located in DACs. The proposed laundry upgrades will directly benefit the DACs as ozone technology minimizes the need for chemicals, disinfectants and detergents, resulting in less exposure of these chemicals to workers at the facilities.	Reduced utility costs help businesses located in DACs remain profitable. Thriving businesses provide jobs and a stable tax base for DACs.
	Bay Linen	Yes. San Leandro top 20% of DAC census tracts identified by CalEnviroScreen 2.0		

Project Proponent	Facility	Located in a DAC	Direct Benefits to DAC	Secondary Benefits to DAC
Oakland Unified School District	Castlemont High School	No but meets CAL EPA criteria.[2] Upgrades will be carried out by workers from DAC per Oakland hiring policy.	High efficiency faucet aerators, leak repairs, commercial refrigeration upgrades, water heater booster pump upgrades, variable frequency drive pool pumps, cogeneration system for water heating, and power winders for pool covers will improve indoor and outdoor energy and water use efficiency. Reduced utility cost allows OUSD to reinvest savings into educational programs.	Investment in school infrastructure helps provide safe, healthy, dignified facilities for students, workers and community at large.
	McClymonds High School	No but meets CAL EPA criteria.[3] Upgrades will be carried out by workers from DAC per Oakland hiring policy. The school is less than 0.5 miles from a DAC, attended by students who live in the DAC area surrounding the school, DAC students have access to the pool.		
San Leandro Unified School District	• Woodrow Wilson Elementary • Garfield Elementary • Muir Middle School • James Monroe Elementary • San Leandro High School	Yes, for all schools except San Leandro High School. Criteria: top 20% of DAC census tracts identified by CalEnviroScreen 2.0. SLHS meets CAL EPA criteria[3] because the school is less than 0.5 miles from a DAC, attended by students who live in the DAC area surrounding the school, DAC students have access to the pools.	Faucet aerators, upgrades to dishwashing and food steamer systems, irrigation controls and solar heating system for the district pools will improve indoor and outdoor energy and water use efficiency. Reduced utility cost allows SLUSD to reinvest savings into educational programs.	Investment in school infrastructure helps provide safe, healthy, dignified facilities for students, workers and community at large.
City of San Leandro	• Halcyon Park • Thrasher Park • Williams St. Island Park	Yes. San Leandro top 20% of DAC census tracts identified by CalEnviroScreen 2.0	Provides infrastructure and landscaping improvements, helping to ensure that these vital community amenities are well maintained and will continue to be available. Water and energy savings reduce the city's utility costs. Those savings can be	Sustainable landscape improvements have benefits beyond water efficiency, including increasing climate resiliency, reducing stormwater runoff and flooding, providing wildlife habitat, and reducing or eliminating
	Marina Park	No, but meets CAL EPA criteria.[4] Also, this 30-acre regional park borders and serves DAC area. On typical		

[2] Ibid., Table A-5 Water Use Efficiency. Meets criteria in Step 2B: "Project includes recruitment, agreements, policies or other approaches that are consistent with federal and state law and result in at least 25% of project work hours performed by residents of a DAC."

[3] Ibid., Table A-6 Land Preservation or Reservation. Meets criteria in Step 2B: "Project preserves a site that allows public access and is accessible by walking located within ½ mile of a DAC."

[4] Ibid., Table A-6 Land Preservation or Restoration. Project will achieve GHG reductions through net increases in GHG sequestration (primarily through amendment of soil with compost) and meets criteria in Step 2B: "Project preserves a site that allows public access and is accessible by walking within ½ mile of a DAC."

Project Proponent	Facility	Located in a DAC	Direct Benefits to DAC	Secondary Benefits to DAC
		weekend days, Marina Park is used by thousands of people, a high percentage of whom are from DACs. For example, one-third of the park's picnic area reservations are made by residents living within or very close to DAC mapped areas. Actual number of park users from DACs is likely to be higher than one-third, since many low-income residents are not able to afford the reservation fee and use areas of the park that don't require reservations.	reinvested into the community, further benefiting the DAC area.	the use of potentially harmful landscaping chemicals. The proposed lawn conversions will also reduce landscape maintenance costs (primarily through reduced need for mowing and weeding); those savings can be reinvested in community services.