

WORK PLAN

JENSEN SERVICE AREA - SOLAR POWER PROJECT AND HIGH EFFICIENCY TOILET REBATE PROGRAM

Project No. 1: Jensen Solar Power Project

PROJECT DESCRIPTION:

The Jensen Water Treatment (Jensen) plant is a 750 million-gallon-per-day (mgd) facility located in the City of Granada Hills, California that treats a blend of waters from the Colorado River and State Water Project into Metropolitan's distribution system. In 2013, the plant consumed over 11 million kWh of electricity.

The Jensen Solar Power Project will design, install and commission a 1-megawatt solar power generation facility at the Jensen plant. A system map of the project is shown on Figure 1. The 1-megawatt solar project will generate up to 2.4 million kWh of clean renewable energy annually. This renewable energy will be consumed on-site and will supply over 21% of the electricity required to treat water at the site. As a result of this project, the Jensen plant's consumption of energy from Southern California Edison will be reduced significantly, which will save fossil fuels and reduce greenhouse gas emissions associated with the treatment of water at the Jensen Plant.

The 1-megawatt solar power generation facility will be ground-mounted and will include a single-axis tracking system to allow the panel arrays to track the sun's path from east to west on a daily basis. The facility will be located within the Jensen plant's operational boundary, near the southwest corner of the site, so no easements or property acquisition is necessary for this project. Approximately 5 acres will be required for the installation. The planned location of the solar panels at the Jensen plant is shown on Figure 2.

The solar power system will be integrated into Metropolitan's power system at the Jensen Plant, and will be tied into Metropolitan's data acquisition system to monitor and record the energy production.

On October 14, 2014, Metropolitan's Board of Directors authorized final design of the Jensen Solar Power Project. Final design commenced in October 2014 and is being performed by MWH Americas, Inc. Award of a contract to install and commission the solar power system is scheduled for August 2016, and the system is anticipated to be in operation by April 2017. Metropolitan will own and maintain the solar power system.

Environmental documentation to ensure compliance of this project with the California Environmental Quality Act (CEQA) is being performed by Rincon Consultants.

WORK PLAN TASKS

Task 1: Project Management, Administration and Reporting

This task includes managing project activities from design through commissioning of the solar power system.

This task includes:

1. Preparation of project schedules and budgets
2. Development of project monitoring tools
3. Reviewing, monitoring and updating the budget and schedule
4. Preparation of progress reports and invoicing
5. Weekly project progress meetings
6. Conducting monthly management briefings
7. Conducting design review meetings
8. Managing consultant and construction contracts
9. Assisting MWH Americas, Inc. with the preparation of specifications and bidding documents.
10. Preparation of Board Letter and Board Presentation to award a Solar Power System Installation contract
11. Award of a Solar Power System Installation contract to provide a fully commissioned 3-MW solar power generation facility
12. Providing inspection and construction services

Task 2: Environmental Evaluation Study – Mitigated Negative Declaration

Preparation of environmental documentation will be performed by Rincon Consultants, Inc. The planned scope of work includes preparing California Environmental Quality Act-related documents and performing technical studies that address issues such as air quality, traffic, and noise.

The deliverable for this task is completion of a Mitigated Negative Declaration for the solar project at Jensen.

Task 3: Engineering Design

This task covers development and completion of preliminary design, final design, specifications and bidding documents. This task also includes award of a contract to procure, install and commission a 1 megawatt solar power facility.

The design work will be performed by MWH Americas, Inc. under Agreement No. 140025. Metropolitan staff will prepare the bid package, evaluate bids and award a construction contract.

The key deliverables for this task include:

- Preliminary Design Report
- Jensen Solar Project 100% Final Design Submittal
- Jensen Solar Project Specifications and Bidding Documents

- Final construction cost estimate
- Board Authorization to award a contract for a 3 megawatt solar power system
- Execution of a Solar Power System installation contract with the successful bidder

Task 4: Permitting

This task involves acquisition of all permits necessary for the Jensen Solar Project. Necessary permits will be identified during the initial phase of design.

At the Jensen Plant projects are exempt from local building and zoning regulations pursuant to Sections 53019(d) and (e) of the California Government Code.

Permits that may be necessary include the National Pollutant Discharge Elimination System (NPDES) Permit.

Task 5: Construction

This task includes procurement, construction and commissioning of a 3-Megawatt solar power generation system at the Jensen Plant.

Deliverables include:

- Fully operational 3-megawatt solar power generation system

Task 6: Grant Proposal Monitoring Plan

This task involves preparation and implementation of the Grant Proposal Monitoring Plan. The monitoring plan will include all activities to meet the requirements of the Grant proposal.

Project No. 2: Jensen Service Area - High Efficiency Toilet Rebate Project

PROJECT DESCRIPTION:

The Metropolitan Water District of Southern California (Metropolitan) is a public agency established in 1928 by the state Legislature to provide adequate and reliable water to meet present and future needs. Metropolitan serves an average of 2.1 million acre-feet of water per year to more than 18 million people living within a 5,200 square mile service area within six counties that include: Ventura, Los Angeles, Orange, San Bernardino, Riverside and San Diego.

Metropolitan's 2010 Integrated Water Resources Plan Update (IRP Update) sets water use efficiency targets which call for a 20% reduction in regional per capita water use by 2020 through increased water conservation and water recycling. In August 2011, Metropolitan's Board adopted the Long-Term Conservation Plan (LTCP), which identifies goals, strategies, and implementation approaches to help achieve the IRP Update target through water conservation efforts. The focus of the LTCP is to create lasting and accelerated water savings through outreach, education, training, collaboration, incentives, and regulations. A key element of Metropolitan's LTCP is implementation of water conservation incentive programs in which Metropolitan provides financial incentives to residential and commercial customers to purchase water efficient devices.

On May 13, 2014, in response to drought conditions, Metropolitan's Board of Directors authorized the modification of existing conservation and water recycling initiatives to help increase and enhance conservation program activity. Key changes include continuation of funding for the high efficiency toilet (HET) incentives program.

This project focuses on Metropolitan's on-going incentive program for high efficiency toilet. Metropolitan works with other local agencies, its member water agencies, and gas and electric utilities to identify customers for participation. In addition, Metropolitan educates the public on the importance of water conservation and initiates marketing campaigns to increase the public's awareness on the availability of this incentive rebate program.

Over the past two fiscal years (July 1, 2012 to June 30, 2014), Metropolitan has provided \$3,600,000 for installation of over 37,400 HETS in the project area identified on Figure 1. This will yield over 18,000 acre-feet of water savings over the estimated 20 year useful life of the HET. Metropolitan projects for the next two fiscal years, approximately 30,000 HETS would be installed in the same area.

This HET rebate program will significantly reduce the consumption of water in the service area, which will also result in reduced energy consumption and greenhouse gas emissions associated with importing, treating and distributing the water. In addition, the HET rebate program will bring a number of direct economic benefits to the region including reducing consumer water, sewer, and energy costs, increasing retail sales, generating local sales tax, and creating jobs. Indirect benefits to the region include reduced water diversions, wastewater discharges, and urban run-off impacts. Water and wastewater utilities will also benefit from lower operating and maintenance costs.

WORK PLAN TASKS

Task 1: Project Management and Administration

This task includes:

13. Reviewing and updating the budget
14. Managing consultant
15. Preparation of Board Letter and Presentation for project funding as needed

Task 2: Marketing

The objective of this task is to continue to educate the public on the importance of water conservation and to increase the public's awareness on the availability of this incentive rebate program. This task includes:

1. Maintain/Update MWD's water conservation outreach tool : BeWaterwise.com
2. Assisting with the preparation of marketing plan for High Efficiency Toilets.
3. Meeting with other local agencies, its member water agencies, and gas and electric utilities to identify potential customers.

Task 3: Monitoring and Reporting

1. Development of project monitoring tools
2. Preparation of progress reports and invoicing
3. Conducting monthly management briefings

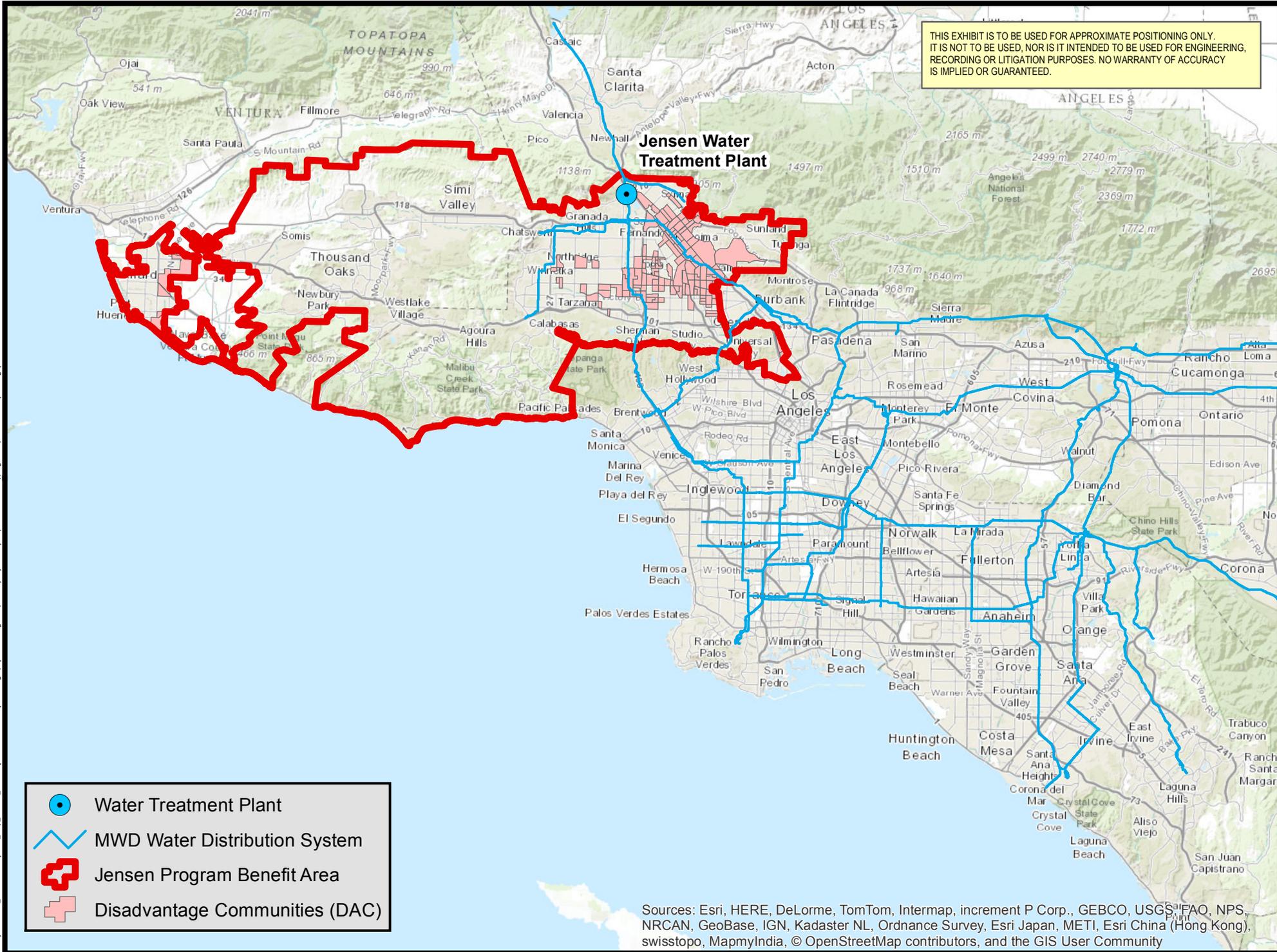
Task 4: Payment Processing

1. Review rebate applications and invoices
2. Process payments

Task 5: Grant Proposal Monitoring Plan

This task involves preparation and implementation of the Grant Proposal Monitoring Plan. The monitoring plan will include all activities to meet the requirements of the Grant proposal.

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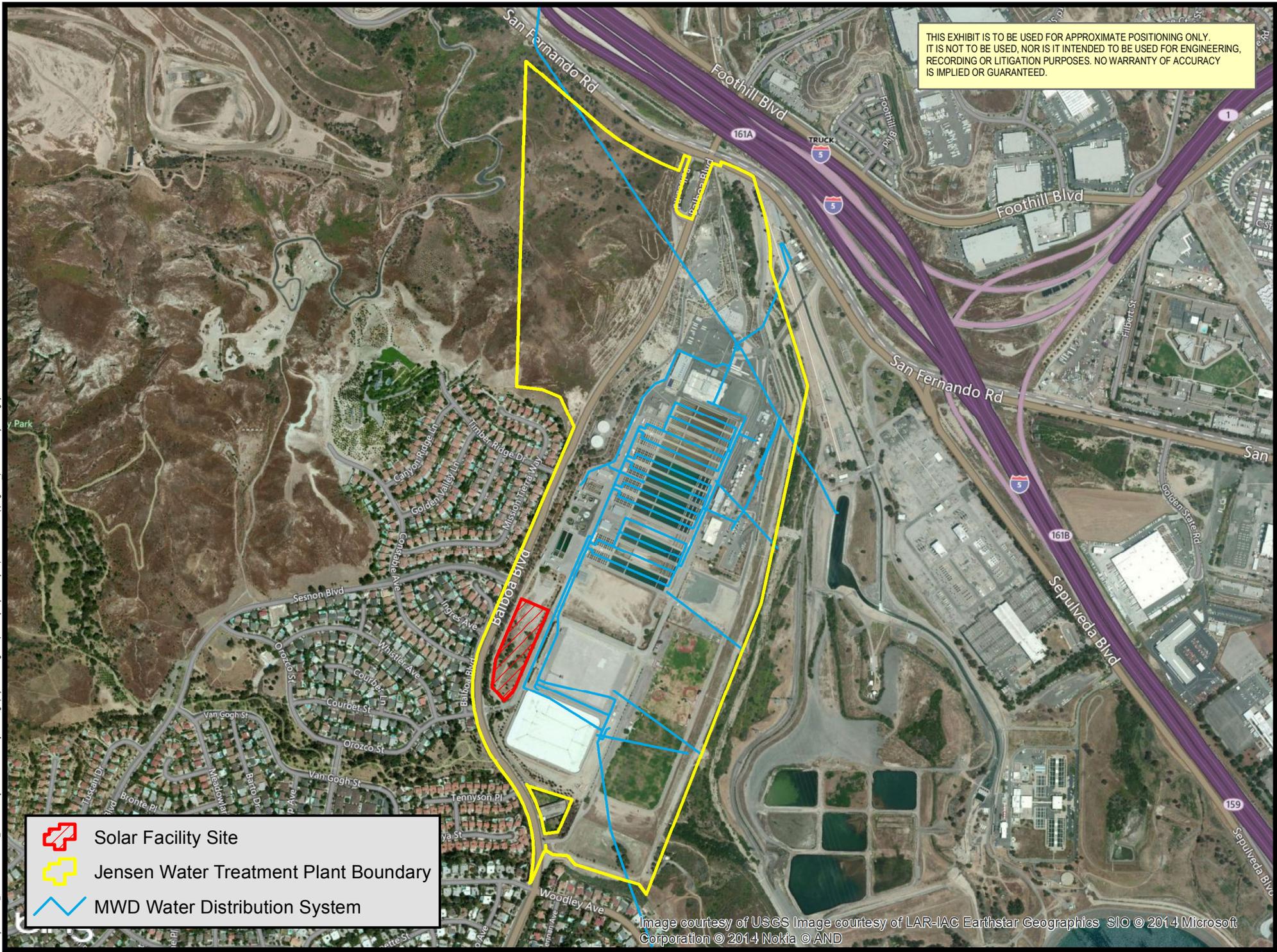


-  Water Treatment Plant
-  MWD Water Distribution System
-  Jensen Program Benefit Area
-  Disadvantage Communities (DAC)

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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-  Solar Facility Site
-  Jensen Water Treatment Plant Boundary
-  MWD Water Distribution System

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FIGURE 2: Jensen Water Treatment Plant: 1-Megawatt Solar Power Generation Facility